



# ANNUAL REPORT 2022 Shanghai Electric Group Company Limited (A joint stock limited company incorporated in the People's Republic of China with limited liability)

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# **Performance Highlights**



Total revenue of the Company for 2022 was

¥ 117,623 million

a decrease of

9.7% year-on-year



Basic loss per share of the Company for 2022 was

¥ 0 23 vuar

basic loss per share of the Company for the corresponding period of last year was

¥ 0.64 yuan



Losses attributable to owners of the Company for 2022 was

¥ 3,566 million

losses attributable to owners of the Company for the corresponding period of last year was

49,988 million



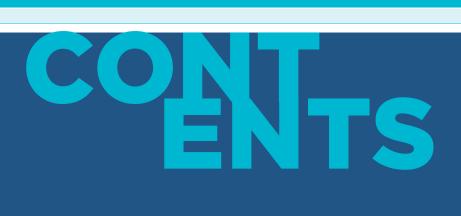
New orders for 2022 amounted to

¥ 133.27 billion

a decrease of

7.6% year-on-year





# **Contents**

| 03  | / Chairlady's Statement                                  |
|-----|--|
| 10  | / Corporate Profile                                      |
| 12  | / Five-year Financial Summary                            |
| 13  | / Key Accounting Data and Financial Indicators           |
| 14  | / Share Capital Structure                                |
| 15  | / Disclosure of Interests                                |
| 18  | / Directors, Supervisors, Senior Management and Staff    |
| 33  | / Corporate Governance Report                            |
| 44  | / Summary of General Meetings                            |
| 45  | / Report of the Directors                                |
| 70  | / Significant Events                                     |
| 81  | / Auditor's Report                                       |
| 96  | / Consolidated Balance Sheet                             |
| 98  | / Company Balance Sheet                                  |
| 100 | / Consolidated and Company Income Statements             |
| 102 | / Consolidated and Company Cash Flow Statements          |
| 103 | / Consolidated Statement of Changes in Shareholders' Equ |
| 105 | / Company Statement of Changes in Shareholders'Equity    |

# **Chairlady's Statement**



Chairlady and CEO Leng Weiqing

In 2022, the international and regional situation were complex, the world economy recovered weakly, and the domestic economy was still facing the triple pressures of "shrinking demand, disrupted supply and weakening expectations". In the face of the complex and severe internal and external environment, we actively seized the opportunity of national strategy, comprehensively promoted the implementation of the Group's "14th Five-Year Plan" strategy, and worked together throughout the Group and forged ahead in unity to coordinate the management improvement and promote business development, keeping the overall operation of the Company stable and orderly.

During the reporting period for the year ended 31 December 2022 (the "Reporting Period"), the Company achieved the revenue of RMB117,623 million, representing a year-on-year decrease of 9.7%; and the gross profit margin of the Company was 16.2%, representing a year-on-year increase of 1 percentage point. The net losses attributable to owners of the Company for 2022 was RMB3,566 million, and net losses attributable to owners of the Company for the corresponding period of last year was RMB9,988 million. The basic loss per share of the Company for 2022 was RMB0.23 yuan, basic loss per share for the corresponding period of last year was RMB0.64 yuan. The main reasons for the net losses attributable to shareholders of the Company for the year of 2022 are as follows: (1) during the Reporting Period, some of domestic production and operation subsidiaries and invested enterprises of the Company were affected by factors such as rising raw material prices and rising logistics costs, resulting in an increase in operating costs related to production and operation; (2) during the Reporting Period, some of overseas engineering businesses of the Company were affected by various factors such as the international situation, Russia-Ukraine conflicts, overseas inflation and projects execution, resulting in a substantial increase in engineering construction costs and collection of receivables less than expected; (3) during the Reporting Period, due to the impact of the capital market, the value of financial assets measured at fair value held by the Company fluctuated.

During the Reporting Period, the Company obtained new orders in the amount of RMB133.27 billion. Among the new orders of the Company, orders for energy equipment amounted to RMB68.38 billion (of which orders for nuclear power equipment, coal-fired power equipment, energy storage equipment and wind power equipment amounted to RMB5.88 billion, RMB16.46 billion, RMB10.87 billion and RMB17.70 billion, respectively), orders for industrial equipment amounted to RMB42.12 billion, and orders for integration services amounted to RMB22.77 billion. As at the end of the Reporting Period, our orders on hand amounted to RMB268.53 billion. Among our orders on hand by the end of the Reporting Period, orders for energy equipment amounted to RMB155.44 billion (of which orders for nuclear power equipment, coal-fired power equipment, energy storage

#### **Chairlady's Statement**

equipment and wind power equipment amounted to RMB27.90 billion, RMB52.80 billion, RMB7.77 billion and RMB39.24 billion, respectively), orders for industrial equipment amounted to RMB15.68 billion, and orders for integration services amounted to RMB97.41 billion.

During the Reporting Period, the main business operation of the Company is as follows:

#### Embrace Energy Reform and Seize the New Track of Carbon Peaking and Carbon Neutrality

Shanghai Electric takes the docking of the national strategy of "carbon peaking and carbon neutrality" and the comprehensive green and low-carbon transformation as the main line of development, and accelerates the layout of new track of green and low-carbon fields, and focuses on the development of new energy industry in fields of wind power, photovoltaic, energy storage and hydrogen energy.

In the field of energy storage, we have accelerated the deployment of diversified energy storage, actively tapping into multiple routes such as electrochemical energy storage, molten salt energy storage, compressed air energy storage and flywheel energy storage. Among them, in electrochemical energy storage systems, we already have full coverage from battery packs to battery management systems (BMS), energy management systems (EMS), and power conversion system (PCS). Our redox flow energy storage battery production line has production capacity of 200MW/1GWh (referring to the maximum power and maximum storage capacity) and has the comprehensive capability in designing system-level energy storage power plants. A mutually synergistic and independent and outstanding lithium battery industry chain ecosystem has initially been developed including the lithium battery energy storage products at the terminal of energy and the lithium battery production line equipment at the terminal of industry. During the Reporting Period, energy storage demonstration project of Anhui Jinzhai Intelligent Energy Storage New Energy

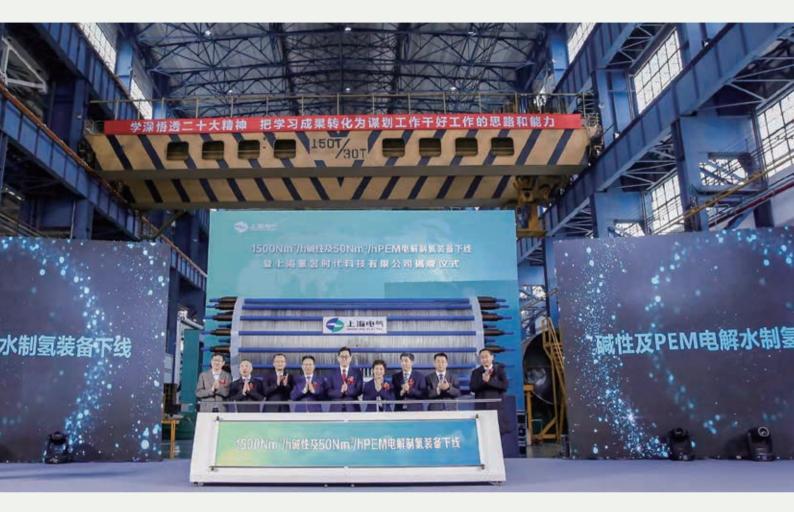
Technology Co., Ltd., which adopted the Lithium iron phosphate battery energy storage system developed by Shanghai Electric, was officially connected to the grid for power supply.

In the field of hydrogen energy, relying on our technology accumulated in the field of alkaline water electrolysis and PEM (Proton Exchange Membrane) electrolysis for production of hydrogen, we have established Shanghai Hydrogen Era Technology Co., Ltd. to fully build up the core competitiveness across the whole industry chain including "production", "storage", "hydrogenation" and "utilization" of hydrogen energy and enter the research and development, system integration and other fields of hydrogen energy technology so as to provide customers with high-end green hydrogen equipment and hydrogen energy comprehensive utilization system solutions.

In the field of wind power, during the Reporting Period, the first EW8.5-230 product for the "Poseidon" Haishen multibrid platform and the first EW11.0-208 product for the "Petrel" Haiyan multibrid platform, both we independently developed, achieved bulk deliveries. We won the bid for the world's first research and demonstration project on the integration of floating offshore wind power and fish farming equipment, which will enable the sharing of "platform structure, ocean space and operational functions" on multiple levels and in multiple spaces.

In the field of solar power generation, we successfully won the bid of a 110MW molten salt steam generation system project in Aksai Kazakh Autonomous County. The projects we undertook in overseas market, including the four photovoltaic projects in West Holcombe, Bishop, Outwood and Ingham in the UK, the Yakai photovoltaic project in Japan and the Kord photovoltaic project in Australia were successfully connected to the grid for power supply. The Dubai Photovoltaic Thermal Power Plant Project we undertake is a photovoltaic power generation complex project with the world's largest installed capacity, and some units of the project have entered commercial operation.





#### Adhere to Scientific and Technological Innovation and Lead the New Driving Force of Development

We deeply implement the development philosophy of "science and technology is the primary productive force, talent is the primary resource, and innovation is the primary driver of growth", adhere to the industrial development path of "technology empowerment, innovation drive, and talent leadership", uphold the strategic mission of building self-reliance and strength in science and technology, and embody the responsibility of "being the most important force of the country".

During the Reporting Period, the technical strength of core industries of Shanghai Electric continued to improve, and obtained achievements in a number of independent technological research

and development projects. In the field of nuclear power, in addition to continuing to promote the industrialization of the third generation pressurized water reactor, as to the area of advanced nuclear power systems, we have focused on promoting the scientific research and development of major equipment for national key development reactors such as high-temperature gas cooled reactors, lead bismuth reactors, thorium based molten salt reactors, sodium cooled fast reactors, and CRAFT fusion reactors, as well as the development of small reactors and integrated heating reactors. In the field of energy storage, we have developed a series of products such as the second generation air-cooled lithium battery energy storage system products, MW grade flywheel energy storage motors, compressed air energy storage motors, and created core technical equipment for new energy. In the field of hydrogen energy, we have launched the first alkaline water electrolysis

#### **Chairlady's Statement**



hydrogen production equipment with a single unit hydrogen production capacity of 1500Nm<sup>3</sup>/ h and the PEM electrolysis hydrogen production equipment with a single unit hydrogen production capacity of 50Nm<sup>3</sup>/h. Both can meet the needs for integrated and large-scale green hydrogen equipment through modular design. In the field of carbon capture, we are implementing carbon capture projects for two coal-fired power plants of Guoyue Group in Shaoguan and Chenzhou with the capacity of 100,000 tons per annum to capture carbon dioxide and refine to foodgrade dry ice. In the field of wind power, the first 8MW-class medium to high speed offshore multibrid permanent magnet wind turbine which we independently developed was successfully launched. The Company focused on technology of temperature and efficiency enhancement of high-temperature subcritical units in the field of coal-fired power, and carried out research and development of renovation technology for 300MW and 600MW class coal-fired power equipment. In the field of industrial basic components, we actively participated in the joint development and formulation of high-lock bolt product standards for composite structures of civil aircraft. In the field of environmental protection, we successfully developed ultra-low emission integration technology and equipment of catalytic ceramic fibre filter tube, which achieved multipollutant integrated purification of the waste incineration flue gas, with the comprehensive technology reaching the leading level in China. In the field of seawater desalination, we undertook the Shandong Yulong Petrochemical Thermal Film Coupling Seawater Desalination Demonstration Project with a total scale of 160,000 tons/day, which uses our self-developed low-temperature waste heat resource cascade utilization thermal film coupling process package and overall solution.

Our 14th Five-Year Plan strategy further defines the development direction of the new track supported by hardcore technology and continuous investment in scientific and technological research and development in key areas. We have been selected into the list of "Creating World-class Professional, Refined, Featured and Innovative Demonstration Enterprises" of the State-owned Assets Supervision and Administration Commission. During the Reporting Period, we applied for a total of 51 scientific research projects of the national key research

and development programme of the Ministry of Science and Technology, the special programme for enterprise innovation development and capacity enhancement of the Municipal Stateowned Assets Supervision and Administration Commission, the special programme for promoting high-quality industrial development of the Municipal Economic and Information Commission, the scientific research programme of the Municipal Science and Technology Commission and the special programme for strategic emerging industries development of the Municipal Development and Reform Commission, covering renewable energy, hydrogen energy, energy storage and smart grid, carbon peaking and carbon neutrality and other fields.

In terms of attracting scientific and technological talents, we formulated the "Fourteen Measures of New Talent Policy of Shanghai Electric on New Industry and New Track (《上海電氣新産業新賽道人才新政十四條》)". Guided by "strategic guidance in a step ahead", "first-tier talent planning" and "market-based incentives", we focus on the first battlefield of the transformation of the old and new development drivers, and improve the top-level design of talents in new industries, so as to further build an innovative and open ecosystem of scientific and technological talents.

#### Deeply Cultivate High-end Equipment and Drive the Transformation and Upgrading of Advantageous Industries

We closely focus on the national strategy of "advancing new industrialization" and "accelerating to boost China's strength in manufacturing", continue to deepen the high-end equipment field, and promote the transformation and upgrading of advantageous industries.

Our nuclear power business continued to maintain the top position in the industry in terms of the comprehensive market share. During the Reporting Period, we have delivered the first RUV wet winding engine main pump of the "Guohe One" in the world. With the first successful grid connection of the Unit No. 3 of Karachi Nuclear Power Plant in Pakistan, an overseas demonstration project of "Hualong One", in which Shanghai

Electric provided the main equipment of nuclear and conventional islands, and the completion of 168 hours of trial operation of the Unit No. 6 of Fuging Nuclear Power Plant, a demonstration project of "Hualong One", in which Shanghai Electric provided the reactor vessel internals, the China's third-generation nuclear power "Hualong One" demonstration projects in China and abroad have fully completed and put into production, which has strongly underpinned China's leapfrogging from a nuclear power big country to a nuclear power strong country. During the Reporting Period, we undertook a project of high temperature gas-cooled reactor steam generator of fourth-generation nuclear power, becoming the first domestic manufacturer of complete set of main core mechanical equipment for the high temperature reactor nuclear islands.

In the field of coal-fired power equipment, we are widely recognized by our customers for our secondary reheat technology with high technology level and excellent quality service. During the Reporting Period, we have won the bids for the complete set of main power generation equipment for the 1×600MW ultrasupercritical secondary reheat project of Xiamen Huaxia Power International Development Co., Ltd. (廈門華夏國際電力有限公司), the turbine generator equipment of 2×1000MW secondary reheat project of Chang'an Yiyang Power Generation Co., Ltd. (長安益陽發電有限 公司), the electromechanical furnace auxiliary and main equipment for the 2×1000MW secondary reheat project Phase III of CRC Pugi and the 1×1000MW secondary reheat project Phase II of Wenergy Qianyingzi, etc. In the field of gas turbine equipment, we have successfully developed an ultra-low emission combustion system for Class F gas turbine, achieving a technical index of raising the turbine inlet temperature by 20°C and reducing NOx emissions below 15 ppm, and reaching the international advanced level. we won bids for a number of F-class gas turbine projects, such as Wenergy Peak Modulation Power Plant, Huaihe Energy project, Jiangyin Thermal Power, Wuxi West Area Phase II, Zhejiang Energy Zhenhai and Huaneng Nanshan. As at the end of the Reporting Period, we had signed long-term service contracts for 38 units of gas turbines in 19 projects.

#### **Chairlady's Statement**

In the field of elevator equipment, Shanghai Mitsubishi Elevator Co., Ltd. ("SMEC"), a subsidiary of the Company, signed the project of the 10m/ s ultra-high speed LEHY-H elevators for Changsha Xinchu - Jingtian Plaza (長沙新楚·敬天廣場), symbolizing the official operation of SMEC's selfdeveloped highest speed elevator products for commercial use. During the Reporting Period, SMEC successively won the bids for several major projects such as Line 7, Line 8 and second dispatch center project of the Zhengzhou Rail Transit, as well as the renovation and expansion projects of Urumqi Airport, Zhuhai Airport and Lanzhou Zhongchuan International Airport. SMEC actively expand to develop service business, and the proportion of revenue from services business such as elevator installation, renovation and maintenance to the revenue of elevator business of SMEC has been continuously increased.

For our business in industrial basic parts such as blades, bearings, fasteners and tools, we focused on the vision of "becoming a world-leading provider of solutions on industrial basic parts and the major force in replacement of imported medium- and high-end basic parts in China", continued to promote business integration and industrial synergy and has developed "professional, refined, featured and innovative" business clusters with high quality.

In the field of aviation assembly and manufacturing lines, we have relied on our extreme manufacturing capabilities and integrated equipment strength to provide safe and controllable intelligent solutions for highend manufacturing customers such as aircraft manufacturer and aviation engine manufacturer. During the Reporting Period, the Airbus A320 series aircraft Asian final assembly line upgrade and transformation project we undertook successfully completed delivery, and has been put into operation for the first A321 aircraft; the world's first domestic large aircraft C919, which we participated in the assembly line manufacturing, was successfully delivered to China Eastern Airlines, effectively ensuring the process quality and construction accuracy during the manufacturing process of domestic large aircraft.

#### Deepen the Integration of Digitalisation and Manufacturing and Promote the Extended Development of Industrial Chain

We adhere to the philosophy of open innovation and win-win cooperation, strive to promote the two-wheel drivers of "industrial intelligentization and service industrialization" and the interaction of "energy internet and industrial internet", and build a variety of industrial applications and solutions in the fields of smart energy, smart manufacturing, and smart infrastructure.

We create tailor-made digital solutions for users based on our experience in the energy, manufacturing and digital fields. During the Reporting Period, we won the bid for the project of digital service platform of photovoltaic integrated operation and management of Pingzhuang Coal Group to help users achieve centralised monitoring, comprehensive data analysis and unified operation and maintenance management. We won the bid for the "Carbon Neutrality" digitalisation project of State Grid Jibei Electric Power Company Limited to provide digitalized upgrade services for the zero-carbon transformation of power supplies warehouses in the relevant regional power supply bureaus. Shanghai Electric Central Research Institute was involved in the overall planning of comprehensive energy for Shanghai State-owned Digital Innovation Base - "Digital Sea (數字江海)" in Fengxian District, Shanghai, building the overall energy structure for "Digital Sea", including core functions such as the energy-carbon dual control digital platform, virtual power plants, intelligent micro-grid clusters, liquid flow batteries, PEDF (photovoltaic, energy storage, direct current and flexibility) buildings, as well as various intelligent applications.

We provide professional, standardised, technologically advanced, accurate and efficient products and services to help the construction of urban digital intelligence. During the Reporting Period, we won the bid for the automated communication and maintenance project of

Shanghai Pudong New District Public Security system, achieving a breakthrough in the digital field of serving the urban governance. Shanghai Lingang middle-volume Line 2 (Line T2), for which we provided the intelligent digital rail transit system (iDRT), has been officially put into operation. We provided core system equipment and integrated solutions for this line, including digital rail, operation control and management, integrated communications and platform intelligence. In addition, we have won the bid for the integrated operation and maintenance project of station electromechanical facilities and equipment for Shanghai Metro Line 5, making a breakthrough in the field of integrated operation and maintenance of station electromechanical equipment.

By the end of the Reporting Period, the "SEunicloud" industrial internet platform of Shanghai Electric had accessed more than 230,000 units of equipment with a total value of more than RMB154 billion, including wind turbines, elevators and machine tools, providing digital solutions for various fields such as wind farms, energy storage and photovoltaics. SMEC launched LNK smart elevator digital solution, an industry-leading digital solution for "elevator management" that will provide customers with more intelligent operation and maintenance management services.

#### Promote Management Improvement and Lay Solid Foundation for High-quality Development

In 2022, we listed management improvement as an important work goal of the Group, formed a series of management optimization measures related to industry capacity improvement, organizational flattening, operation quality improvement, overall coordination efficiency improvement and other aspects, and provided guarantee for the solid implementation of the "14th Five-Year Plan" strategic plan of the Group.

During the Reporting Period, the management reform work throughout the Group was

implemented smoothly and orderly. We focused on the optimization of quality of economic operation, paid special attention to key quality indicators, improved the risk prevention and control system, and improved the overall governance efficiency of the Group. We strengthened internal coordination, established a procurement platform for bulk raw material, optimized the supply chain management system, and further improved our cost control and procurement pricing capabilities. We established the director-in-charge mechanism for key energy customers, integrated the comprehensive advantages of Shanghai Electric in the whole industrial chain, and laid a solid foundation for the extensive development of services for key customers in all business areas. We continued to promote the optimization of business structure through measures including internal potential tapping, promoting the revitalization of inefficient assets, accelerating the turnover of operational assets, and withdrawing from the operational assets of non-core projects.

The year of 2023 represents the first year for the Group to fully implement the spirit of the 20th National Congress of the Communist Party of China. We will closely focus on the general working tone of "pursuing progress while ensuring stability, adhering to integrity and innovation and unswervingly following the path of high-quality development", seize the opportunities of highend, intelligence and green strategies, focus on the main responsibility and main businesses, maintain firm strategic concentration, gather development consensus, promote transformation and upgrading, lead the high-quality development of the Company with Chinese modernization, and make great efforts to open up a new situation for the fully realisation of the strategic objectives of the "14th Five-Year Plan" of Shanghai Electric.

#### **Leng Weiging**

Chairlady and CEO Shanghai, the PRC 29 March 2023

# **Corporate Profile**

#### **Corporate Information**

Legal name of the Company (Chinese)

上海電氣集團股份有限公司

Abbreviated legal name of the Company (Chinese)

上海電氣

Legal name of the Company (English)

Shanghai Electric Group Company Limited

Abbreviated legal name of the Company (English)

Shanghai Electric

Company's legal representative

Leng Weiqing

Company's authorized representatives

Leng Weiging, Liu Ping

Company's alternative authorized representative

7hou 7hiyan

Joint Company Secretaries

Zhou Zhiyan, Leung Kwan Wa

#### **Contact Person and Contact Details**

Secretary to the Board

Name

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#### **Summary of Basic Information**

Registered address

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Business address

No. 110 Sichuan Middle Road, Huangpu District, Shanghai (zip

code: 200002)

Company website

http://www.shanghai-electric.com

Company email

service@shanghai-electric.com

#### Information Disclosure and Place for Inspection of Annual Report of the Company

| Company's designated newspapers for information disclosure  | China Securities Journal, Shanghai Securities News, Securities<br>Times |
|---|---|
| The Company's annual reports available at   | Office of the Board of the Company                                      |
| Website designated for publishing annual report required by China<br>Securities Regulatory Commission | www.sse.com.cn  |
| Website designated for publishing annual report required by The Stock Exchange of Hong Kong Limited   | www.hkexnews.hk   |

#### **Summary Information of the Company's Shares**

| Class of Shares | Place of Listing of Shares              | Abbreviation of Shares | Stock Code |
|-----------------|---|------------------------|------------|
| A shares        | The Shanghai Stock Exchange             | 上海電氣                   | 601727     |
| H shares        | The Stock Exchange of Hong Kong Limited | SH Electric            | 02727      |

#### **Share Registrar and Transfer Office**

| A Shares  | H Shares  |
|---|---|
| Shanghai Branch of China Securities Depository and Clearing | Computershare Hong Kong Investor Services Limited |
| Corporation Limited   |   |
| Corporation Elimited  |   |

#### **Other Relevant Information**

| Date of incorporation of the Company                                       | 1 March 2004   |
|--|--|
| Place of incorporation of the Company                                      | Shanghai, PRC  |
| Name of domestic auditors appointed by the Company                         | PricewaterhouseCoopers Zhong Tian LLP  |
| Business address of domestic auditors appointed by the Company             | 42nd Floor, Qiantan Center, No. 588 Dongyu Road, Pudong<br>New District, Shanghai, PRC |
| Legal advisers appointed by the Company as to PRC laws                     | Grandall Law Firm (Shanghai)   |
| Legal advisers appointed by the Company as to Hong Kong laws and U.S. laws | Clifford Chance  |
|  |  |

# **Five-year Financial Summary**

Unit: million Currency: RMB

|   | 2018      | 2019      | 2020      | 2021<br>(Restatement) | 2022      |
|---|-----------|-----------|-----------|-----------------------|-----------|
| Revenue and Profit  |           |           |           |                       |           |
| Revenue   | 101,158   | 127,509   | 137,285   | 130,261               | 117,623   |
| Profit /(loss) before tax   | 6,008     | 7,263     | 6,346     | (10,290)              | (1,975)   |
| Tax   | (677)     | (1,279)   | (1,080)   | 50                    | (338)     |
| Profit /(loss) for the year                                       | 5,331     | 5,984     | 5,266     | (10,240)              | (2,313)   |
| Attributable to:  |           |           |           |                       |           |
| Owners of the Company   | 2,980     | 3,720     | 3,758     | (9,988)               | (3,566)   |
| Non-controlling interests   | 2,351     | 2,264     | 1,508     | (252)                 | 1,253     |
| Dividend  | 905       | -         | 1,127     | -                     | -         |
| Earnings per share attributable to ordinary equity holders of the | Company   |           |           |                       |           |
| Basic Profit/(loss) for the year (cents)                          | 20        | 25        | 25        | (64)                  | (23)      |
| Assets and liabilities  |           |           |           |                       |           |
| Non-current assets  | 66,794    | 81,323    | 87,457    | 91,026                | 86,867    |
| Current assets  | 151,728   | 199,201   | 227,946   | 209,776               | 201,154   |
| Current liabilities   | (119,623) | (164,061) | (183,492) | (168,879)             | (163,525) |
| Net current assets  | 32,105    | 35,140    | 44,454    | 40,897                | 37,629    |
| Total assets less current liabilities                             | 98,899    | 116,463   | 131,911   | 131,923               | 124,496   |
| Non-current liabilities   | (25,262)  | (24,873)  | (25,061)  | (33,778)              | (30,301)  |
| Net assets  | 73,637    | 91,589    | 106,849   | 98,144                | 94,194    |
| Equity attributable to owners of the Company                      | 57,290    | 63,346    | 66,401    | 58,134                | 54,862    |
| Non-controlling interests   | 16,347    | 28,243    | 40,448    | 40,010                | 39,332    |

Notes: 1. As approved at 2019 annual general meeting, the Company prepares only one set of financial statements in accordance with the PRC Accounting Standards for Business Enterprises from 2020 onwards. In the above table, the financial summary for the years 2018 and 2019 represents the data in the financial statements prepared in accordance with the Hong Kong Financial Reporting Standards, and the financial summary for the years 2020 to 2022 represents the data in the financial statements prepared in accordance with the PRC Accounting Standards for Business Enterprises.

<sup>2.</sup> The Ministry of Finance promulgated the "Notice on Implementing the Accounting Standards for Business Enterprises and Effectively Completing the 2022 Annual Report (Cai Kuai [2022] No. 32)" (《關於嚴格執行企業會計準則切實做好企業2022年年報工作的通知》(財會[2022]32號)) in 2022, and the "Q&A on the Implementation of Long-term Equity Investment Standards" (《長期股權投資準則實施問答》) in 2023. In accordance with the aforesaid notices, the Company changed its accounting policies and retrospectively adjusted comparative figures of operating revenue, operating costs, selling expenses and investment income in the financial statements of the Company for the year 2022.

# **Key Accounting Data and Financial Indicators**

Unit: '000 Currency: RMB

| Key accounting data and financial indicators  | 2022        | 2021         | Year-on-year increase/<br>decrease (%) |
|---|-------------|--------------|--|
| Total assets  | 288,020,852 | 300,802,190  | (4.25)                                 |
| Net assets attributable to shareholders of the parent company                       | 54,862,313  | 58,134,328   | (5.63)                                 |
| Net assets per share attributable to shareholders of the parent company (RMB/share) | 3.51        | 3.70         | (5.39)                                 |
| Revenue   | 117,623,118 | 130,261,250  | (9.70)                                 |
| Operating profit /(loss)  | (2,024,458) | (10,838,464) | N/A                                    |
| Profit /(loss) before tax   | (1,975,298) | (10,289,639) | N/A                                    |
| Net profit /(loss) attributable to shareholders of the parent company               | (3,566,484) | (9,987,908)  | N/A                                    |
| Basic earnings per share (RMB/share)  | (0.23)      | (0.64)       | N/A                                    |
| Weighted average return on net assets (%)   | (6.31)      | (15.69)      | N/A                                    |
| Net cash flows generated from operating activities                                  | 8,482,815   | (10,554,000) | N/A                                    |
| Net cash flows per share generated from operating activities (RMB/share)            | 0.54        | (0.67)       | N/A                                    |



# **Share Capital Structure**

| As at 31 December 2022 | Number of shares | Approximate percentage of issued share capital |
|------------------------|------------------|--|
| A shares               | 12,655,327,092   | 81.23%   |
| H shares               | 2,924,482,000    | 18.77%   |
| Total                  | 15,579,809,092   | 100.00%  |
|                        |                  |  |

### **Disclosure of Interests**

# Substantial Shareholders' and Other Persons' Interests and Short Positions in Shares and Underlying Shares

The followings are interests and short positions of substantial shareholders as at 31 December 2022 as recorded in the register required to be kept by the Company pursuant to Section 336 of the Securities and Futures Ordinance, Hong Kong ("SFO") and as to the knowledge of the Company:

| Name of Substantial Shareholder                                 | Class of shares | Identity                           | Note | Number of shares | Nature of<br>Interest | Approximate percentage of shareholding in the relevant class of shares | Approximate<br>percentage of<br>shareholding in<br>the total issued<br>share capital of<br>the<br>Company (%) |
|---|-----------------|------------------------------------|------|------------------|-----------------------|--|---|
| State-owned Assets Supervision and Administration Commission of | А               | Interest of controlled corporation | 1    | 8,617,782,662    | Long<br>position      | 68.10  | 55.31   |
| Shanghai Municipal Government                                   | Н               | Interest of controlled corporation | 1    | 313,642,000      | Long<br>position      | 10.72  | 2.01  |
| Shanghai Electric Holding Group Co.,<br>Ltd.                    | А               | Beneficial owner                   | 1    | 7,442,101,913    | Long<br>position      | 58.81  | 47.77   |
|   | Н               | Beneficial owner                   | 1    | 280,708,000      | Long<br>position      | 9.60   | 1.80  |
|   | Н               | Interest of controlled corporation | 1,2  | 32,934,000       | Long<br>position      | 1.13   | 0.21  |
| Shanghai State-owned Capital<br>Investment Co., Ltd.            | А               | Beneficial owner                   | 1    | 785,298,555      | Long<br>position      | 6.21   | 5.04  |
| Shenergy (Group) Company Limited                                | А               | Beneficial owner                   | 1    | 390,382,194      | Long<br>position      | 3.08   | 2.51  |

- Notes: 1. Shanghai Electric Holding Group Co., Ltd. (上海電氣控股集團有限公司)("SEGC", formerly known as "Shanghai Electric (Group) Corporation(上海電氣 (集團) 總公司)", completed the industrial and commercial change registration on 28 January, 2022), Shanghai State-owned Capital Investment Co., Ltd. (上海國有資本投資有限公司) and Shenergy (Group) Company Limited (申能(集團)有限公司) were wholly owned by State-owned Assets Supervision and Administration Commission of Shanghai Municipal Government (上海市國有資產監督管理委員會) and accordingly, their interests in the A shares and H shares of the Company were deemed to be the interests of State-owned Assets Supervision and Administration Commission of Shanghai Municipal Government.
  - 2. Shanghai Electric Holding Group Co., Ltd. (上海電氣控股集團有限公司) through its wholly-owned subsidiary, Shanghai Electric Group Hongkong Company Limited (上海電氣集團香港有限公司), held H shares of the Company.

Save as disclosed above, the Company is not aware of any other person having any interests or short positions in the shares or underlying shares of the Company as at 31 December 2022 required to be recorded in the register kept by the Company pursuant to Section 336 of the SFO.

#### **Disclosure of Interests**

# Directors', Supervisors' and Chief Executives' Interests and Short Positions in Shares, Underlying Shares and Debentures

As at 31 December 2022, none of the directors, supervisors or chief executives of the Company (as defined in the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited (the "Hong Kong Listing Rules")) of the Company had or was deemed to have any interests or short positions in the shares, underlying shares or debentures of the Company or any of its associated corporations (as defined in the SFO), as recorded in the register required to be kept by the Company under Section 352 of the SFO, or as otherwise required to be notified by the directors, supervisors or chief executives to the Company and the Stock Exchange of Hong Kong Limited (the "Stock Exchange") pursuant to the "Model Code for Securities Transactions by Directors of Listed Issuers" set out in Appendix 10 of the Hong Kong Listing Rules. Also, no right to acquire the aforementioned interests had been granted to the directors, supervisors or chief executives of the Company.





Changes in Shareholdings and Remuneration of Directors, Supervisors and Senior **Management** 

| Name           | Position  | Gender | Age | Current term of office<br>commencing on   | Current term of office<br>ending on | Number<br>of shares<br>held at the<br>beginning<br>of the year | Number<br>of shares<br>held at the<br>end<br>of the year | Changes in<br>the number<br>of shares for Reason<br>the year the cha |        |
|----------------|---|--------|-----|---|-------------------------------------|--|--|--|--------|
| Leng Weiqing   | Executive Director, Chairlady of the<br>Board and Chief Executive Officer | Female | 54  | 23 August 2021<br>(Executive Director and<br>Chairlady of the Board)<br>27 August 2021<br>(Chief Executive Officer) | To present (Note 1)                 |  |  |  | 87.135 |
| Liu Ping       | Executive Director and President  | Male   | 52  | 8 November 2021<br>(Executive Director)<br>23 August 2021<br>(President)  | To present (Note 1)                 |  |  |  | 92.240 |
| Zhu Zhaokai    | Executive Director  | Male   | 54  | 18 September 2018   | To present (Note 1)                 |  |  |  | 97.040 |
| Yao Minfang    | Non-executive Director  | Female | 55  | 18 September 2018   | To present (Note 1)                 |  |  |  |        |
| Li An          | Non-executive Director  | Female | 61  | 18 September 2018   | To present (Note 1)                 |  |  |  |        |
| Xi Juntong     | Independent Non-executive Director  | Male   | 59  | 18 September 2018   | To present (Note 1)                 |  |  |  | 25     |
| Xu Jianxin     | Independent Non-executive Director  | Male   | 67  | 14 November 2019  | To present (Note 1)                 |  |  |  | 25     |
| Liu Yunhong    | Independent Non-executive Director  | Male   | 46  | 25 November 2020  | To present (Note 1)                 |  |  |  | 25     |
| Cai Xiaoqing   | Supervisor, Chairman of the<br>Supervisory Committee                      | Male   | 58  | 28 June 2021  | To present (Note 1)                 |  |  |  | 93.055 |
| Han Quanzhi    | Supervisor  | Male   | 58  | 18 September 2018   | To present (Note 1)                 |  |  |  |        |
| Yuan Shengzhou | Supervisor (employee representative)                                      | Male   | 57  | 20 May 2019   | To present (Note 1)                 |  |  |  | 90     |

| Name          | Position  | Gender | Age | Current term of office commencing on | Current term of office<br>ending on | Number<br>of shares<br>held at the<br>beginning<br>of the year | Number<br>of shares<br>held at the<br>end<br>of the year | Changes in<br>the number<br>of shares for<br>the year | Reason for the change | Total remuneration received from the Company during the Reporting Period (RMB in ten thousand) (before tax) |
|---------------|---|--------|-----|--------------------------------------|-------------------------------------|--|--|---|-----------------------|---|
| Dong Jianhua  | Vice president  | Male   | 57  | 18 September 2018                    | To present (Note 1)                 | 594,000  | 0  | -594,000  | Note 2                | 121.473   |
| Chen Ganjin   | Vice president  | Male   | 54  | 18 September 2018                    | To present (Note 1)                 | 594,000  | 0  | -594,000  | Note 2                | 113.837   |
| Gu Zhiqiang   | Vice president  | Male   | 58  | 18 September 2018                    | To present (Note 1)                 | 594,000  | 0  | -594,000  | Note 2                | 113.256   |
| Jin Xiaolong  | Vice president  | Male   | 55  | 18 September 2018                    | To present (Note 1)                 | 594,000  | 0  | -594,000  | Note 2                | 114.418   |
| Yang Hong     | Vice president  | Female | 50  | 30 September2020                     | To present (Note 1)                 | 342,000  | 0  | -342,000  | Note 2                | 113.837   |
| Zhou Zhiyan   | Chief Financial Officer, secretary to the Board               | Male   | 59  | 14 January 2022                      | To present (Note 1)                 |  |  |   |                       | 100   |
| Tong Liping   | Chief Legal Officer   | Female | 51  | 18 September 2018                    | To present (Note 1)                 | 396,000  | 0  | -396,000  | Note 2                | 120   |
| Fu Min        | Chief Auditor   | Female | 50  | 18 April 2022                        | To present (Note 1)                 |  |  |   |                       | 75.818  |
| Gan Pin       | Non-executive Director, Vice Chairman of the Board (resigned) | Male   | 60  | 17 May 2021                          | 27 September 2022                   | 20,000   | 20,000   | 0   |                       | 72.774  |
| Zhang Mingjie | Chief Operating Officer (resigned)<br>(Note 3)                | Male   | 59  | 23 February 2022                     | 29 March 2023                       | 396,000  | 0  | -396,000  | Note 2                | 113.5   |

- Notes: 1. The terms of the fifth session of the Board and the Supervisory Committee of the Company expired on 17 September 2021. As the nomination of candidates and relevant work for the new session of the Board and the Supervisory Committee have not been completed, the election of the members of the Board and the Supervisory Committee will be postponed so as to maintain the continuity and stability of the work of the Board and the Supervisory Committee. The terms of the special committees of the Board and the senior management of the Company will be extended correspondingly. All the members of the fifth session of the Board and the Supervisory Committee and of the senior management of the Company will continue to fulfill their respective obligations and responsibilities in accordance with the relevant laws and regulations and the articles of association of the Company until the completion of the election of the new session of the Board and the Supervisory Committee.
  - 2. The relevant senior management are the participants under the Restricted A Share Incentive Scheme of the Company. On 17 January 2022, the 2022 first extraordinary general meeting, the 2022 first A share class meeting and the 2022 first H share class meeting of the Company considered and approved the Proposal on Terminating the Implementation of the Restricted A Shares Incentive Scheme and Repurchase and Cancellation of Restricted Shares that Have Been Granted But Not Yet Unlocked. The Company terminated the Restricted A Share Incentive Scheme and repurchased and cancelled a total of 126,162,000 restricted shares granted but not yet unlocked held by 2,099 participants. The Company completed the procedures for the repurchase and cancellation of the shares at Shanghai Branch of China Securities Depository and Clearing Corporation Limited for the above restricted shares on 17 March 2022.
  - 3. Mr. Zhang Mingjie served as the chief investment officer of the Company from 18 September 2018. Due to the adjustment of duties, Mr. Zhang Mingjie served as the chief operating officer of the Company from 23 February 2022 and no longer served as the chief investment officer. On 29 March 2023, Mr. Zhang Mingjie resigned as the chief operating officer of the Company due to the reason of age.

#### **Major Work Experience**

#### **Leng Weiging**

Ms. Leng currently serves as the secretary of the Party Committee, an executive Director, the chairlady of the Board, the chief executive officer of the Company, the secretary of the Party Committee and the chairlady of the board of directors of SEGC, the chairlady of the Board of SMEC, the chairlady of the Board of Mitsubishi Electric Shanghai Mechanical & Electrical Elevator Co. Ltd., member of the 14th National Committee of the Chinese People's Political Consultative Conference, a representative to the 15th Shanghai Municipal People's Congress, a representative of the 12th Party Congress of Shanghai. Ms. Leng served as an assistant researcher at the Enterprise Personnel Division of the Organization Department of Shanghai Municipal Party Committee, where she was also an assistant researcher of the Economic Personnel Division. She was a member of the Party Committee of Shanghai Municipal State-owned Assets Supervision and Administration Commission, the deputy head and the head of the Leading Personnel Management Division of Shanghai Municipal State-owned Assets Supervision and Administration Commission. She was the vice president of SEGC and the secretary of the Party Committee of Shanghai Electric Power Generation Group. She was also a member of the Organization Department, head of the Enterprise Personnel Division, and deputy director of the Organization Department of Shanghai Municipal Party Committee. She served as the head of the office at Shanghai Municipal Party Organization Committee. Ms. Leng obtained a bachelor degree in education, an EMBA degree and the qualification of a senior economist.

#### **Liu Ping**

Mr. Liu currently serves as the deputy secretary of the Party Committee, an executive Director and the president of the Company, vice chairman of the board of directors of SEGC, chairman of the board of directors of Shanghai Mechanical & Electrical Industry Co., Ltd.(上海機電股份有限公司) and chairman of the board of directors of Shanghai Prime Machinery Company Limited. Mr. Liu served as the executive vice manager of the Finance Department of Shanghai Textile Holdings (Group) Company, the deputy general manager of Shanghai Dragon Corporation, the deputy general manager of the Commerce Business Department of Shanghai Fosun High Technology (Group) Co., Ltd., the deputy chief accountant of Shanghai Textile Holdings (Group) Company, the general manager of the Assets Operation Department of and the Chief Finance Officer of Shangtex Holding Co., Ltd., the Chief Finance Officer of Shanghai Textile Holdings (Group) Company, the vice president of Shangtex Holding Co., Ltd., a member of the standing committee under and a member of Shanghai Changning District Party Committee, the deputy Changning District chief, the president, the deputy secretary of the Party Committee of and a director of Bright Food (Group) Co., Ltd. Mr. Liu obtained a master's degree of engineering majoring in mechanical manufacturing from Shanghai Jiao Tong University and has the qualification of an engineer.

#### **Zhu Zhaokai**

Mr. Zhu currently serves as the deputy secretary of the Party Committee and an executive Director of the Company and the chairman of labor union of the Company, the executive vice chairman of labor union of Shanghai Mechanical and Electrical Union, a director of SEGC, president of the Party School of SEGC and dean of SEC Li Bin Technician College. Mr. Zhu served as the deputy secretary of the Party Committee and secretary of Commission for Discipline Inspection of the turbine factory of Shanghai Electric Power Generation Equipment Co., Ltd. and Shanghai Turbine Works Co., Ltd. from 2001 to 2009, and the secretary of the Party Committee and an executive director of the turbine factory of Shanghai Electric Power Generation Equipment Co., Ltd. and Shanghai Turbine Works Co., Ltd. from 2009 to 2011. He served as head of the human resources department of SEGC from 2011 to 2018 and the secretary of the Party Committee of Shanghai Electric Power Generation Group from 2013 to 2018. Mr. Zhu graduated from Hefei University of Technology with a bachelor's degree in engineering and from Shanghai Jiao Tong University with a master's degree in business administration. He is a senior economist.

#### **Yao Minfang**

Ms. Yao currently serves as a non-executive Director of the Company. Ms. Yao was the principal and then deputy manager of the investment department of Shenergy Company Limited from 2000 to 2006. She has been the deputy manager, and then the manager of the investment department, a deputy chief engineer, the director of the Technical Innovation Center, the deputy chief economist of Shenergy (Group) Company Limited, a director of Board of Shenergy Company Limited, chairlady of board of directors of Shenneng Yangshan LNG Co., Ltd. from September 2006. Ms. Yao graduated from the dynamics department of the University of Shanghai for Science and Technology with a master's degree and is a senior engineer of professor level.

#### Li An

Ms. Li currently serves as a non-executive Director of the Company, a consultant of Shanghai Municipal Government and a director of Shanghai Pharmaceuticals Holding Co., Ltd. Ms. Li served as the director of the Property Rights Division and the Center of Property Rights of Shanghai Municipal State owned Assets Supervision and Administration Commission from November 2009 to August 2014. She was the vice president of Shanghai Guosheng Group Company Limited from August 2014 to January 2017, and served as the director and vice president of Shanghai Guosheng Group Company Limited from January 2017 to October 2021. She was appointed as a consultant of Shanghai Municipal Government in June 2021. Ms. Li holds a bachelor's degree in Engineering and is an engineer.

#### Xi Juntong

Dr. Xi currently serves as an independent non-executive Director of the Company. He is a professor of Mechanical Manufacture and Automation and at the State Key Laboratory of Mechanical System and Vibration and a doctoral supervisor of Shanghai Jiao Tong University. He is the executive deputy dean of Shanghai Intelligent Manufacturing Institute (上海智能製造研究院), independent director of Shanghai Hi-tech Control System Co., Ltd.(上海海得控制系 統股份有限公司), independent director of Shanghai Friendess Electronics Technology Co., Ltd. And(上海柏楚電子 科技股份有限公司)and independent director of Shang Gong Group Co., Ltd.(上工申貝(集團)股份有限公司), general manager of Shanghai Jiaotong University-Lingang Group Intelligent Manufacturing Innovation Technology Co., Ltd. (上海交大臨港智能製造創新科技有限公司), general manager of Shanghai Smart Manufacturing R&D and Transformation Functional Platform (上海市智能製造研發與轉化功能型平臺). Dr. Xi is primarily engaged in research in the fields of digital manufacturing and intelligent manufacturing technologies. He was honored with 6 awards including the second prize of the National Science and Technology Progress Award and the scientific and technological progress and technological invention awards of Shanghai. His major concurrent academic posts mainly include deputy director of the Special Committee of Manufacturing Automation of Chinese Mechanical Engineering Society, a member of the Special Committee of Additive Manufacturing of Chinese Mechanical Engineering Society, an executive member of China Intelligent Manufacturing Industry Innovation Alliance (中國智能製造產業技術創新聯盟), the vice president of Shanghai Mechanical Engineering Society (上海機械工程學會), and the secretary general of Shanghai Intelligent Manufacturing Industry Innovation Alliance (上海智能製造產業技術創新聯盟).

#### **Xu Jianxin**

Dr. Xu currently serves as an independent non-executive Director of the Company, the senior vice president of Shanghai Purest Investment Management Co., Ltd., an independent director of Shanghai Shimao Co., Ltd. (上海世茂股份有限公司) and an independent director of Shanghai Jin Jiang International Hotels Company Limited (上海錦江國際酒店股份有限公司). From February 1982 to November 1997, Dr. Xu served as a lecturer and associate professor of accounting at Shanghai University of Finance and Economics. From November 1997 to December 2014, he served as the deputy chief accountant, director, chief financial officer, and chief economist of Orient International (Holding) Co., Ltd. Since January 2015, he has served as the senior vice president of Shanghai Purest Investment Management Co., Ltd. Dr. Xu graduated from Shanghai University of Finance and Economics with a doctorate. He is a professor-level senior accountant and a Chinese Certified Public Accountant.

#### Liu Yunhong

Dr. Liu currently serves as an independent non-executive Director of the Company, the deputy head of the Institute of International M&A and Investment of Renmin University of China and the head of Foresea Life Insurance (Shanghai) Research Institute, an independent director of Sinolink Securities Co., Ltd., an independent director of Everbright Securities Co., Ltd., an independent director of Bank of Guiyang Co., Ltd., an independent director of BOCOM International Trust Co., Ltd. (交銀國際信托有限公司), an adjunct professor and tutor of postgraduates of Renmin University of China, Shanghai University of Finance and Economics and East China University of Political Science and Law. Dr. Liu has served as the head of Legal and Compliance Division of Guotai Asset Management Co., Ltd., did postdoctoral research work at the Shanghai Stock Exchange, served as general manager of Investment Banking Department of Aerospace Securities Co., Ltd. and successively served as the general manager of the Investment Banking Department and the assistant to president of Hwabao Securities Co. Ltd. Dr. Liu obtained a doctorate's degree in law from Renmin University of China, and is a post-doctoral fellow in economics and law and a research fellow.

#### **Cai Xiaoqing**

Mr. Cai currently serves as a supervisor and the chairman of the supervisory committee of the Company. Mr. Cai was formerly the assistant engineer, engineer, senior engineer, deputy director of the general department, director, research fellow, deputy head (in-charge) and head of the Shanghai Academy of Spaceflight Technology, 805 Research Institute. He was the deputy director of the Integrated Planning Office, director of Science and Technology Division and Equipment Industry Division of Shanghai Municipal Economic Committee. He also served as the deputy district mayor of Minhang District of Shanghai and the president and the deputy secretary of Party Committee of INESA (Group) Co., Ltd. Mr. Cai has a master degree in engineering, a degree in EMBA and the qualification of research fellow.

#### Han Quanzhi

Mr. Han currently serves as a supervisor of the Company. He has successively served as a salesman and chief salesman of engineering and construction department of Shanghai Hongqiao Economic & Technological Development Zone United Development Co., Ltd., a deputy manager, the assistant to general manager, deputy general manager of the project management department, deputy director and director of general office, director of foreign affairs office, deputy general manager of the real estate branch of Shanghai Hongqiao Economic & Technological Development Zone United Development Co., Ltd., a member of Party Committee and deputy general manager of Shanghai Land Minhong (Group) Co., Ltd. Mr. Han graduated from the Department of Architectural Engineering of Shanghai Institute of Urban Construction, majoring in industrial and civilian construction. Mr. Han is an engineer.

#### Yuan Shengzhou

Mr. Yuan currently serves as an employee representative of the supervisory committee, the executive vice chairman of labor union of the Company and the executive vice chairman of labor union of Shanghai Mechanical and Electrical Union. Mr. Yuan served as the secretary of the Youth League Committee, the director of general office and the deputy secretary of the Party Committee, the secretary of the commission for discipline inspection, the chairman of labor union, the chairman of supervisory committee, the secretary of the Party Committee, and an executive director of Shanghai Institute of Mechanical & Electrical Engineering Co., Ltd., the deputy secretary of the Party Committee and the vice president of Shanghai Electric Environmental Protection Group, and a supervisor of the supervisory committee of SEGC. Mr. Yuan holds a postgraduate degree and a bachelor's degree in engineering and is a senior political affairs specialist.

#### **Dong Jianhua**

Mr. Dong is currently a vice president of the Company, a director of SEGC and the chairman of the board of directors of Shanghai Highly (Group) Co., Ltd, a director of Shanghai Proton and Heavy Ion Center Asset Management Co., Ltd. (上海 質子重離子醫院有限公司), the chairman of the supervisory committee of Shanghai Guosheng Capital Management Co., Ltd. (上海國盛資本管理有限公司), the secretary of the Party Committee of Anxin Trust Co., Ltd. He was formerly the vice president and chief financial officer of SEGC and chairman of the supervisory committee of the Company. Prior to joining SEGC, Mr. Dong was the assistant to the head and the deputy head of Infrastructure Office, the deputy head and head of the Fixed Assets Investment and Audit Office, the head of the Financial Audit Office of Shanghai Municipal Audit Bureau between 1987 and 2008. Mr. Dong has been involved in professional auditing for more than 20 years. Mr. Dong graduated from Shanghai Tongji University with a bachelor's degree in engineering. He also obtained a master's degree in business administration from Shanghai Jiao Tong University. Mr. Dong is a professor-level senior economist.

#### **Chen Ganjin**

Mr. Chen is currently a vice president of the Company, a director of CLP Combined Heavy Gas Turbine Technology Co., Ltd. (中電聯合重型燃氣輪機技術有限公司). He was formerly the chairman of the board of directors and the secretary of the Party Committee of Shanghai Boiler Works, Ltd., the general manager of Shanghai Diesel Engine Co., Ltd., the general manager and the secretary of the Party Committee of Shanghai Rail Traffic Equipment Development Co., Ltd., the president of Shanghai Electric Heavy Industry Group, the chairman of Shanghai Heavy Machinery Plant Co., Ltd., the vice president and chief operation officer of the Company, the secretary of the Party Committee and general manager of Shanghai Zhangjiang (Group) Company Limited and vice chairman of Shanghai Electric Transmission and Distribution Group Co., Ltd. Mr. Chen graduated from Xi'an Jiaotong University with a bachelor's degree in engineering, majoring in thermal energy and power engineering of power stations. Mr. Chen obtained a master's degree in business administration from China Europe International Business School and a master's degree in professional accounting from The Chinese University of Hong Kong. Mr. Chen is a senior engineer.

#### **Gu Zhiqiang**

Mr. Gu is currently a vice president of the Company, the secretary of the Party Committee of Shanghai Electric Environmental Protection Group, the secretary of the Party Committee and chairman of the board of directors of Shanghai Institute of Mechanical & Electrical Engineering Co., Ltd, chairman of the board of directors of Shanghai Electric Kangda Medical Instrument Group Co., Ltd. He served as the assistant to the general manager and deputy general manager of SEC Power Generation Environment Protection Engineering Co., Ltd., representative of SEGC in Europe, head of the environmental protection department of the Company, the chairman and general manager of Shanghai Electric (Anhui) Investment Co., Ltd. Mr. Gu graduated from Shanghai Jiao Tong University with a bachelor's degree in engineering and obtained an EMBA degree from Shanghai National Accounting Institute and Arizona State University, United States of America. Mr. Gu is a professor-level senior engineer.

#### Jin Xiaolong

Mr. Jin is currently a vice president of the Company, the president and the deputy secretary of the Party Committe of Shanghai Electric Power Generation Group, person in charge of power station branch of Shanghai Electric Group Company Limited, chairman of the board of directors of Shanghai Electric Power Generation Equipment Co., Ltd. and the secretary of the Party Committee and the chairman of the board of directors of Shanghai Electric New Energy Development Co., Ltd. He served as operation manager of Maxon Combustion Equipment (Shanghai) Co., Ltd (麥克森燃燒設備(上海)有限公司),the secretary of the Party Committee and deputy general manager of Shanghai Faiverley Transport Co., Ltd., the secretary of the Party Committee and deputy general manager of Lingang Factory of Shanghai Electric Power Generation, the vice president of Shanghai Electric Power Generation Group, the executive director and the general manager of Shanghai Electric Wind Power Equipment Co., Ltd, the vice chairman and general manager of Shanghai Electric Wind Energy Co., Ltd. and Siemens Wind Power Turbines (Shanghai) Co., Ltd. and the secretary of the Party Committee and the chairman of the board of directors of Shanghai Electric Wind Power Group Co., Ltd. Mr. Jin graduated from Harbin Institute of Technology with a bachelor's degree in engineering and obtained a master's degree in business administration from Webster University. Mr. Jin is a professor-level senior economist.

#### **Yang Hong**

Ms. Yang currently serves as a vice president of the Company, head of science and technology management department of the Company, the chairlady of the board of directors of Shanghai Automation Instrumentation Co., Ltd. (上海自動化儀錶有限公司), the dean of the central research institute of the Company, vice chairlady of board of directors of AECC Commercial Aircraft Engine Co., Ltd. (中國航發商用航空發動機有限公司). Ms. Yang used to serve as the chief engineer, the head of technology department, the director of the Design Institute, the secretary of the Party Branch, the general manager and deputy secretary of the Party Committee of the turbine factory of Shanghai Electric Power Generation Equipment Co., Ltd (上海電氣電站設備有限公司上海汽輪機廠) and Shanghai Turbine Works Co., Ltd (上海汽輪機廠有限公司) and the vice president of Shanghai Electric Power Generation Group (上海電氣電站集團) and Shanghai Electric Power Generation Equipment Co., Ltd (上海電氣電站設備有限公司). Ms. Yang graduated from Xi'an Jiaotong University. Ms. Yang holds a master degree in engineering and is a senior engineer at a professor level.

#### **Zhou Zhiyan**

Mr. Zhou currently serves as the chief financial officer, secretary to the Board and joint company secretary of the Company, the chairman of the board of directors of Shanghai Electric Enterprise Service Co., Ltd. Mr. Zhou served as chief financial officer of the mechanical basic parts business department, executive deputy head of the overseas business department, deputy head of the assets and finance department, head of the finance department, head of the financial budget department, deputy chief accountant and deputy chief economist of SEGC, general manager and deputy secretary of the Party Committee of Shanghai Electric Industrial Corporation, head of the investment management department, investment director and chief financial officer of Shanghai Electric Assets Management Company Limited, vice chairman, general manager of Shanghai Prime Machinery Company Limited and deputy secretary of Party Committee and chairman of Shanghai Prime Machinery Company Limited. Mr. Zhou graduated from the School of Accounting of Shanghai Industry and Commerce Institute majoring in finance and accounting and obtained an MBA degree from Shanghai Jiao Tong University. He is a senior accountant.

#### **Tong Liping**

Ms. Tong currently serves as the chief legal officer and the solicitor of the Company. Ms. Tong has long been engaged in in-house legal works and is experienced in managing corporate legal affairs with rich knowledge in relevant laws. She served as the director of the legal and audit office and head of legal department of Shanghai Electric Power Generation Group from 2004 to 2010, director of the legal affairs centre of the Company from 2006 to 2008, and taking up the responsibility of the deputy head and head of the legal department and then the chief legal counsel of the Company since 2008. Ms. Tong graduated from Fudan University with a master's degree in law and is a professor-level senior economist.

#### **Fu Min**

Ms. Fu is currently the chief auditor and the head of the audit and risk control department of the Company. Ms. Fu served as the staff member, deputy principal staff member and principal staff member of the foreign investment application audit division, the assistant to the director, the deputy director and the director of the financial audit division, the director of the regional audit division, the director of the economic responsibility audit division of Shanghai Municipal Audit Bureau and a first-class researcher. Ms. Fu holds a master's degree in business administration from Shanghai University of Finance and Economics and is a senior auditor.

#### **Employments with Shareholder Entities of the Company**

| Name         | Name of shareholder entity                                     | Position in shareholder entity  | Term of office commencing on | Term of office ending on |
|--------------|--|---|------------------------------|--------------------------|
| Leng Weiqing | SEGC   | Secretary of the Party<br>Committee, chairlady of the<br>board of directors | 2021-8                       | to present               |
| Liu Ping     | SEGC   | Vice chairman of the board of directors                                     | 2022-1                       | to present               |
| Zhu Zhaokai  | SEGC   | Director  | 2022-1                       | to present               |
| Dong Jianhua | SEGC   | Director  | 2018-8                       | to present               |
| Dong Jianhua | Shanghai Highly (Group) Co., Ltd.                              | Chairman of the board of directors  | 2017-12                      | 2023-8                   |
| Gu Zhiqiang  | Shanghai Electric Kangda Medical<br>Instrument Group Co., Ltd. | Chairman of the board of directors  | 2019-11                      | to present               |
| Yang Hong    | Shanghai Automation Instrumentation<br>Co., Ltd.               | Chairlady of the board of directors   | 2020-10                      | to present               |
| Yao Minfang  | Shenergy (Group) Company Limited                               | Deputy chief economist  | 2020-3                       | 2023-2                   |
| Yao Minfang  | Shanghai LNG Company Ltd.                                      | Chairlady of the board of directors   | 2020-3                       | 2023-2                   |
| Yao Minfang  | Shenneng Yangshan LNG Co., Ltd.                                | Chairlady of the board of directors   | 2021-12                      | 2023-2                   |



### **Employments with Other Companies or Organizations**

| Name         | Name of company/organization   | Position held                            | Term of office commencing on | Term of office ending on |
|--------------|--|--|------------------------------|--------------------------|
| Leng Weiqing | Mitsubishi Electric Shanghai Mechanical & Electrical<br>Elevator Co. Ltd.  | Chairlady of the board of directors      | 2021-8                       | to present               |
| Li An        | Shanghai Tunnel Engineering Co. Ltd. (上海隧道工程股份有限公司)  | Director                                 | 2015-10                      | 2022-1                   |
| Li An        | Shanghai Pharmaceuticals Holding Co., Ltd.   | Director                                 | 2016-6                       | to present               |
| Li An        | Shanghai Lingang Economic Development (Group)<br>Co., Ltd.   | Director                                 | 2017-3                       | 2022-7                   |
| Xi Juntong   | Professor of Mechanical Manufactu<br>and Automation and at the State K<br>Laboratory of Mechanical System a<br>Vibration and Doctoral Supervisor |  | 2003-4                       | to present               |
| Xi Juntong   | Shanghai Intelligent Manufacturing Institute(上海智能製造研究院)  | Executive deputy dean                    | 2015-12                      | to present               |
| Xi Juntong   | Shanghai Jiaotong University-Lingang Group<br>Intelligent Manufacturing Innovation Technology Co.,<br>Ltd.                                       | General manager                          | 2016-10                      | to present               |
| Xi Juntong   | Shanghai Hi-tech Control System Co., Ltd.  | Independent director                     | 2018-5                       | 2024-6                   |
| Xi Juntong   | Shanghai Friendess Electronics Technology Co., Ltd.  | Independent director                     | 2018-7                       | 2024-6                   |
| Xi Juntong   | Shang Gong Group Co., Ltd.   | Independent director                     | 2020-6                       | 2023-6                   |
| Xi Juntong   | Shanghai Smart Manufacturing R&D and<br>Transformation Functional Platform   | General manager                          | 2020-5                       | to present               |
| Xu Jianxin   | Shanghai Purest Investment Management Co., Ltd.  | Senior vice president                    | 2015-1                       | to present               |
| Xu Jianxin   | Shanghai Shimao Co., Ltd.  | Independent director                     | 2021-6                       | 2024-6                   |
| Xu Jianxin   | QST Corporation Ltd.   | Independent director                     | 2021-6                       | to present               |
| Xu Jianxin   | Shanghai Jin Jiang International Hotels Company<br>Limited   | Independent director                     | 2022-6                       | To present               |
| Liu Yunhong  | the Institute of International M&A and Investment of<br>Renmin University of China   | Deputy head                              | 2016-5                       | to present               |
| Liu Yunhong  | Foresea Life Insurance (Shanghai) Research Institute   | Head                                     | 2019-6                       | to present               |
| Liu Yunhong  | Sinolink Securities Co., Ltd.  | Independent director                     | 2022-6                       | to present               |
| Liu Yunhong  | Everbright Securities Co., Ltd.  | Independent director                     | 2020-12                      | to present               |
| Liu Yunhong  | Bank of Guiyang Co., Ltd.  | Independent director                     | 2018-2                       | to present               |
| Liu Yunhong  | BOCOM International Trust Co., Ltd.  | Independent director                     | 2022-8                       | to present               |
| Dong Jianhua | Shanghai Proton and Heavy Ion Center Asset<br>Management Co., Ltd. (上海質子重離子醫院有限公司)   | Director                                 | 2015-4                       | to present               |
| Dong Jianhua | Shanghai Guosheng Capital Management Co., Ltd. (上<br>海國盛資本管理有限公司)  | Chairman of the Supervisory<br>Committee | 2018-1                       | to present               |
| Dong Jianhua | Anxin Trust Co., Ltd.  | the secretary of the Party Committee     | 2022-10                      | to present               |
| Chen Ganjin  | CLP Combined Heavy Gas Turbine Technology Co., Ltd.<br>(中電聯合重型燃氣輪機技術有限公司)  | Director                                 | 2017-1                       | to present               |
| Yang Hong    | AECC Commercial Aircraft Engine Co., Ltd. (中國航發商用航空發動機有限公司)  | Vice chairlady of board of directors     | 2020-11                      | to present               |



#### Remunerations of Directors, Supervisors and Senior Management

| Procedures for determining the remunerations of Directors, Supervisors and senior management                                       | The remunerations of our Directors and Supervisors (non-employee representatives) are determined in general meeting, while the remunerations of our senior management are determined by the board of directors of the Company.  |
|--|---|
| Basis for determining the remunerations of Directors, Supervisors and senior management  | The remunerations of our Directors and Supervisors (non-employee representatives) are determined based on a number of factors, such as the operating results of the Company, their responsibilities, performance and market conditions. The remunerations of our Supervisors (employee representatives) and Senior Management are determined based on their responsibilities and performance appraisal in respect of the completion of annual operation plan. |
| Remunerations paid to Directors, Supervisors and senior management   | Remunerations were paid to the Directors, Supervisors and senior management of the Company based on their respective entitlement.   |
| Total actual remunerations received<br>by all Directors, Supervisors and senior<br>management up to the end of Reporting<br>Period | RMB15,933.83 thousand   |

179

41,560

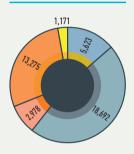
41,739

465

#### **Changes in Directors, Supervisors and Senior Management**

| Name          | Position   | Change    | Reason for the change |
|---------------|--|-----------|-----------------------|
| Zhou Zhiyan   | Chief Financial Officer and Secretary to the Board           | Appointed | Work requirements     |
| Fu Min        | Chief Auditor  | Appointed | Work requirements     |
| Zhang Mingjie | Chief Operating Officer                                      | Appointed | Adjustment of duties  |
| Gan Pin       | Former non-executive Director and Vice Chairman of the Board | Resigned  | Age concern           |
| Zhang Mingjie | Former Chief Investment Officer                              | Resigned  | Adjustment of duties  |

## Statistical Chart of Function



Production personnel

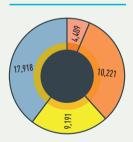
Sales personnel

Technical personnel

Financial personnel

Administration personnel

## Statistical Chart of Education Level



Postgraduate and above

Undergraduate

Tertiary education

Secondary education and below

#### **Employees of the Company and Major Subsidiaries**

Number of current employees of the Company

Number of current employees of the major subsidiaries

Total number of current employees

Number of retired employees for whom the Company and its major subsidiaries are responsible for the retirement benefits

#### Function

| Categories by function   | Number of persons |
|--------------------------|-------------------|
| Production personnel     | 18,692            |
| Sales personnel          | 2,978             |
| Technical personnel      | 13,275            |
| Financial personnel      | 1,171             |
| Administrative personnel | 5,623             |

#### **Education Level**

| Categories by education level | Number of persons |
|-------------------------------|-------------------|
| Postgraduate and above        | 4,409             |
| Undergraduate                 | 17,918            |
| Tertiary education            | 9,191             |
| Secondary education and below | 10,221            |

#### Gender

| Categories by gender | Number of persons |
|----------------------|-------------------|
| Male                 | 32,181            |
| Female               | 9,558             |

#### **Remuneration Policy**

The Company set up a comprehensive system which synchronized the increase of employees' salaries with the improvement in labor productivity; thus, the level of wage increase of the Company and the wages adjustment of employees of various work positions can be determined reasonably. At the same time, while taking into account the internal fairness of the employee's salary income, the Company adheres to the performance orientation by taking the performance target as the foundation, strengthening the rigid assessment, and deducting all the performance salary of the year for those who fail to pass the annual assessment, so as to reasonably widen the salary gap. In the event of receiving party and government disciplinary punishment for violation of discipline and law, a salary recourse and deduction system has been established. Besides, the Company constantly insists on the general requirement of "Dual Inclination, Dual Care" and implements policies that tilted towards scientific and technological staff and the front-line technical workers.

#### **Training Program**

During the Reporting Period, the Company, following the strategy of the Group, adhered to the demandoriented approach and proceeded with the establishment of training system and training base. It emphasized training for core employees, especially for leading cadres and strategically needed talent, and promoted staff training on a full coverage basis, so as to boost the business development of the Group and enhance the value of human capital.

#### **Labor Outsourcing**

Total remuneration paid for labor outsourcing

RMB116 million

#### **Services Contracts with Directors and Supervisors**

None of the Directors and Supervisors of the Company has entered into any service contract with the Company which is not terminable by the Company within one year without payment of compensation (other than statutory compensation).

# Directors' and Supervisors' Interests in Transactions, Arrangements or Contracts of Significance

During the year, none of the Directors, Supervisors or any of their respective associates had a material interest, whether directly or indirectly, in any transaction, arrangement or contract of significance to which the Company, its holding company, or any of its subsidiaries or fellow subsidiaries was a party.



During the Reporting Period, the Company did not have any subsisting contract (except the service contracts entered into with any Directors, Supervisors or full-time employees of the Company) under which any individual or entity undertakes the management and administration of the whole or any substantial part of the business of the Company.

#### **Permitted Indemnity Provision**

The Company has maintained appropriate insurance coverage for Directors, Supervisors and senior management's liabilities in respect of potential legal actions against its Directors, Supervisors and senior management arising out of the business activities of the Company.

#### **Share Incentive Scheme**

On 22 January 2019, the Board considered and approved the relevant resolution in relation to the proposed adoption of Restricted A Share Incentive Scheme ("the Incentive Scheme"). The purpose of the Incentive Scheme was to establish and improve the long-term incentive mechanism of the Company, attract and retain talents, fully motivate the Directors, senior and middle management and key technical (business) personnel of the Company, and align the interests of the shareholders and the Company with those of the core team members of the Company so that all parties would make joint efforts for the Company's long-term development. On 6 May 2019, the resolution in respect of the proposed adoption of the Incentive Scheme was considered and approved at the 2019 first extraordinary general meeting, 2019 first A share class meeting and 2019 first H share class meeting. On 6 May 2019, upon consideration by the Board, the Company approved the grant of 136,500,000 restricted shares to 2,235 participants at the grant price of RMB3.03. As at 20 May 2019, the Company received subscription funds in an aggregate amount of RMB404,741,340.00 paid by 2,194 participants for subscription of 133,578,000 restricted shares. All participants made capital contribution in cash, including RMB133,578,000.00 included in the share capital and RMB271,163,340.00 transferred to the capital reserve. The Company completed the registration of restricted shares under the Incentive Scheme of the Company with Shanghai Branch of China Securities Depository and Clearing Corporation Limited on 21 June 2019.

In accordance with the provisions of the Incentive Scheme, if there is any capitalization issue, bonus issue, dividends distribution, share subdivision, rights issue, additional issue or share consolidation and other matters of the Company affecting the total share capital or the share price of the Company after completion of the registration of the Restricted Shares granted to the Participants, the Company shall make adjustments to the repurchase price of the Restricted Shares yet to be unlocked accordingly. On 29 April 2020, the Board considered and approved relevant resolution. As the Company implemented

the 2018 profit distribution in August 2019, the repurchase price of the Incentive Scheme was adjusted from RMB3.03 per share to RMB2.96854 per share. On 17 December 2021, the Board considered and approved the relevant resolution. As the Company implemented the 2020 profit distribution of the Company in August 2021, the repurchase price of the Incentive Scheme was adjusted from RMB2.96854 per share to RMB2.89676 per share.

On 29 April 2020, the Board considered and approved relevant resolution, pursuant to which, in accordance with the requirements under the Restricted Share Incentive Scheme, the Company intended to repurchase and cancel the 7,416,000 Restricted Shares which had been granted to 95 Participants but not yet unlocked, due to the fact that the personal circumstances of such 95 Participants under the Incentive Scheme had changed and therefore they were no longer within the scope of the incentive. On 29 June 2020, the Resolution on Repurchase and Cancellation of Partial Restricted Shares was considered and approved at the Company's 2019 annual general meeting, 2020 first A share class meeting and 2020 first H share class meeting. The Company completed the procedures for the repurchase and cancellation of the above restricted shares at Shanghai Branch of China Securities Depository and Clearing Corporation Limited on 18 September 2020.

On 17 December 2021, the Board considered and approved the relevant resolution. The Company intended to terminate the Incentive Scheme in accordance with the relevant provisions of the Trial Measures on Implementation of Share Incentive Schemes by State-Owned Listed Companies (Domestic) and other relevant laws and regulations. Pursuant to the relevant requirements of Article 51 of the Administrative Measures on Share Incentives of Listed Companies issued by China Securities Regulatory Commission and the Incentive Scheme, any termination of an incentive scheme by the Company should be subject to consideration and approval at the general meeting, the A share class meeting and the H share class meeting of the Company and the restricted shares that had not yet been unlocked should be repurchased and cancelled. The Company intended to repurchase and cancel all of the 126,162,000 Restricted Shares which was granted to 2,099 Participants but not yet unlocked at a repurchase price of RMB2.89676 per share. The above matters were considered and approved at the 2022 first extraordinary general meeting, the 2022 first A share class meeting and the 2022 first H share class meeting of the Company held on 17 January 2022. The Company completed the procedures for the repurchase and cancellation of the above restricted shares at Shanghai Branch of China Securities Depository and Clearing Corporation Limited on 17 March 2022.

During the Reporting Period, save as disclosed above, there is no existing effective share schemes of the Company.

# **Corporate Governance Report**

The Board of the Company firmly believes that corporate governance is essential to the success of the Company and has adopted various measures to establish a listed corporation with high level of transparency in corporate governance and an excellent performance in operation.

The Company will periodically review and update the existing practices to keep abreast of the latest developments in corporate governance.

## Model Code for Securities Transactions by Directors

The Company has adopted the code provisions regarding the purchase and sale of the Company's shares by the Directors of the Company as set out in the Model Code for Securities Transactions by Directors of Listed Issuers (the "Model Code") in Appendix 10 of the Hong Kong Listing Rules. All Directors and Supervisors of the Company confirmed that they had complied with the requirements contained in the Model Code throughout the year 2022. The Company was not aware of any non-compliance with the Model Code by any of its employees.



#### **Board of Directors**

By the end of the Reporting Period, the Board comprised eight Directors, including three executive Directors, namely Ms. Leng Weiqing, Mr. Liu Ping and Mr. Zhu Zhaokai; two non-executive Directors, namely Ms. Yao Minfang and Ms. Li An; and three independent non-executive Directors, namely, Dr. Xi Juntong, Dr. Xu Jianxin and Dr. Liu Yunhong. Mr. Gan Pin resigned as non-executive Director on 27 September 2022. During the Reporting Period, the number of independent non-executive Directors represented no less than one-third of the total number of Directors.

Members of the Board have different professional backgrounds with expertise in various aspects such as corporate management, technology development, financial management, strategic investment and human resources management. Their biographical particulars are set out in the section headed "Directors, Supervisors, Senior Management and Staff" of this annual report.

The independent non-executive Directors of the Company are aware of the rights and obligations of directors and independent non-executive directors of listed companies. During the Reporting Period, the independent non-executive Directors attended the Board meetings in prudent, responsible, proactive and earnest manner. Fully leveraging on their experience and expertise, they made tremendous efforts in improving corporate governance and facilitating major decision-making process, expressed fair and objective opinions on matters concerning significant events and connected transactions of the Company, enhanced the scientific development and standardization of the Board's decision-making process and safeguarded interests of the Company and its shareholders as a whole effectively.

Each of the independent non-executive Directors has confirmed his independence with the Company as required under Rule 3.13 of the Hong Kong Listing Rules annually. The Company has received the annual confirmations from such Directors and considered them independent in 2022.

Rights and duties of the Board and the management have been clearly specified in the Articles of Association to ensure adequate check and balance for sound corporate governance and internal controls. The Board formulates

#### **Corporate Governance Report**

overall development strategies of the Group, monitors its financial performance and maintains effective supervision over the management. Members of the Board act in an effort to maximize the long-term interests of shareholders and achieve business goals and development direction of the Group amidst the prevailing economic and market conditions. The management is responsible for daily operation and management. The management of the Company, under the leadership of the President, is responsible for implementing various resolutions made by the Board and organizing daily operation and management of the Company.

Every member of the Board has the right to access documents and relevant materials of the Board, to consult the Company Secretary and the Secretary to the Board on regulatory and compliance matters and to seek external professional advice when necessary to ensure independent views and input are available to the board. The Company Secretary and the

Secretary to the Board advise all Directors on the requirements under the Hong Kong Listing Rules and other applicable provisions to ensure the Company's compliance with and maintenance of excellent corporate governance. The Board believe that the implementation of the above mechanisms during the Reporting Period is effective.

Apart from the working relationship in the Company, there was no financial, operational, familial or other material relationship among the Directors, Supervisors and senior management.

The Company attaches great importance to the continuous training of its Directors on various areas. During the Reporting Period, the Company has updated Directors on the latest regulations in aspects such as business, law and finance in order to enhance their professional knowledge on a continuous basis.

#### Attendance record of Directors at Board meetings and general meetings

|                   |  | Attendance at Board meetings                                |                      |  | Attendance at general meetings |         |  |   |
|-------------------|--|---|----------------------|--|--------------------------------|---------|--|---|
| Name of Directors | Independent<br>Non-executive<br>Director | Required attendance<br>in Board meetings<br>during the year | Attendance in person | Attendance via other communication means | Attendance by proxy            | Absence | Absence for two consecutive meetings in person | Attendance record<br>at general<br>meetings |
| Leng Weiqing      | No                                       | 14  | 14                   | 10                                       | 0                              | 0       | No   | 1   |
| Liu Ping          | No                                       | 14  | 14                   | 10                                       | 0                              | 0       | No   | 3   |
| Zhu Zhaokai       | No                                       | 14  | 14                   | 10                                       | 0                              | 0       | No   | 1   |
| Yao Minfang       | No                                       | 14  | 14                   | 11                                       | 0                              | 0       | No   | 4   |
| Li An             | No                                       | 14  | 14                   | 12                                       | 0                              | 0       | No   | 0   |
| Xi Juntong        | Yes                                      | 14  | 14                   | 12                                       | 0                              | 0       | No   | 3   |
| Xu Jianxin        | Yes                                      | 14  | 14                   | 11                                       | 0                              | 0       | No   | 4   |
| Liu Yunhong       | Yes                                      | 14  | 14                   | 11                                       | 0                              | 0       | No   | 3   |
| Gan Pin           | No                                       | 11  | 11                   | 9  | 0                              | 0       | No   | 0   |

| Number of Board meetings convened during the year                | 14 |
|--|----|
| Of which: Number of on-site meetings                             | 1  |
| Number of meetings convened via other communication means        | 10 |
| Number of on-site meetings assisted by other communication means | 3  |

#### **Corporate Governance Functions**

During the Reporting Period, the Board of the Company performed the following functions: to formulate and review the Company's policies and practices on corporate governance and make recommendations; to review and monitor the training and continuous professional development of Directors and senior management; to review and monitor the Company's policies and practices on compliance with legal and regulatory requirements; to develop, review and monitor the ethics and compliance of employees and Directors; and to review the Company's compliance with the code provisions and disclosure in the "Corporate Governance Report".

During the Reporting Period, the Board is of the view that the Company has complied with the requirements of the code contained in Appendix 14 of the Hong Kong Listing Rules (the "Code"), except for the deviation from requirement of C.2.1 of the Code concerning the separation of the roles of the chairman and chief executive officer. Pursuant to code provision C.2.1, roles of the chairman and chief executive officer should be separate and should not be performed by the same individual. The division of responsibilities between the chairman and chief executive officer should be clearly established and set out in writing. During the Reporting Period, the chairman of the Board and chief executive officer of the Company were assumed by one person, who was mainly responsible for the strategic decisions of the Company. The executive director and president of the Company were assumed by another person, who was fully responsible for the daily operation and execution of the Company. The Company considers that the roles and responsibilities of the Board and the management are clear and there is no concentration of management power.

#### **Strategy Committee**

The strategy committee of the Board of the Company (the "Strategy Committee") currently comprises Ms. Leng Weiging, Mr. Liu Ping, Dr. Xi Juntong and Dr. Xu Jianxin, and is chaired by Ms. Leng Weiging.

One meeting was held by the Strategy Committee during the Reporting Period. At the meeting, the Strategy Committee mainly listened to the reports on the implementation of Shanghai Electric "14th Five-Year Plan", the implementation of the new energy business plan, the implementation of the technology development plan and the implementation of the human resources plan, and also discussed the strategic plan of the Company.

# Attendance record of committee members at the meeting of the Strategic Committee during the Reporting Period

| Name of Strategic Committee Member        | Actual attendance/<br>attendance required |
|---|---|
| Leng Weiqing (Chairlady of the Committee) | 1/1                                       |
| Liu Ping                                  |   |
| Xi Juntong                                |   |
| Xu Jianxin                                | 1/1                                       |

## **Corporate Governance Report**

#### **Audit Committee**

The audit committee of the Board of the Company (the "Audit Committee") is mainly responsible for reviewing and overseeing the risk management of the Company, financial reporting procedures and internal control system, reporting the results of such review and making recommendations to the Board, and overseeing as well as assessing the establishment of sound risk management system of the Company and the completeness and effectiveness of its implementation on a regular basis in accordance with the requirements in relation to corporate risk management under Code on Corporate Governance as set out in Appendix 14 of the Hong Kong Listing Rules. The Audit Committee is also responsible for reviewing the quarterly, interim and annual financial statements, connected transactions, the appointment of and remuneration for auditors. The Audit Committee currently comprises Dr. Xu Jianxin, Dr. Xi Juntong, Dr. Liu Yunhong, independent non-executive Directors, and Ms. Yao Minfang, a non-executive Director, and is chaired by Dr. Xu Jianxin, an independent non-executive Director.

Fourteen meetings were held by the Audit Committee during the Reporting Period. At these meetings, the Audit Committee has reviewed and overseen the risk management of the Company, financial reporting procedures and internal control system, reported its results of review and made recommendations to the Board. The Audit Committee has also reviewed the quarterly, interim and annual financial reports of the Company, material connected transactions and continuing connected transactions and the appointment of and remuneration for auditors, discussed the audit plan and progress with auditors and listened to the report on the 2022 internal audit plan of the Company given by the internal audit department.

## Attendance record of committee members at the meetings of the Audit Committee during the Reporting Period

| Name of Audit Committee Member         | Actual attendance/<br>attendance required |
|--|---|
| Xu Jianxin (Chairman of the Committee) | 14/14                                     |
| Xi Juntong                             |   |
| Liu Yunhong                            |   |
| Yao Minfang                            |   |

### **Nomination Committee**

The nomination committee of the Board of the Company (the "Nomination Committee") is mainly responsible for reviewing and making recommendations to the Board and the general meeting of the Company on the selection of candidates as the Directors of the Company, the selection criteria and procedures. The Nomination Committee currently comprises Dr. Xi Juntong, Mr. Zhu Zhaokai and Dr. Xu Jianxin, and is chaired by Dr. Xi Juntong.

The Company has formulated the "Board Diversity Policy of Shanghai Electric Group Company Limited", which includes the requirements of compliance with relevant laws, regulations and the Articles of Association by candidates for Directors of the Company to ensure the effective discussions at the Board and enable the Board to make scientific, prompt and careful decisions. The Nomination Committee will select the candidates for Directors based on objective criteria, which contain certain diversified factors, including but not limited to, gender, age, cultural and education background, locality, professional experience, skills, knowledge and terms of office of the candidates for Directors and other regulatory requirements; the degree of suitability of the professional background and skills of the candidates for Directors with the business features and future development requirements of the Company. As at the end of the Reporting Period, three of the eight members of the Board of the Company were women, accounting for 37.5%, and the gender diversity was well achieved.

No meeting was held by the Nomination Committee during the Reporting Period.





#### **Remuneration Committee**

The remuneration committee of the Board of the Company (the "Remuneration Committee") is mainly responsible for making recommendations to the Board regarding the formulation of a proper and transparent procedure for the overall remuneration policy and structure for Directors and senior management of the Company. The Remuneration Committee currently comprises Dr. Xi Juntong, Dr. Xu Jianxin and Dr. Liu Yunhong, and is chaired by Dr. Xi Juntong.

One meeting was held by the Remuneration Committee during the Reporting Period, at which the issues considered were the remuneration proposal for the Directors, Supervisors and the senior management of the Company. According to clause 11(b) of the Terms of Reference for the Remuneration Committee, the Remuneration Committee has been delegated to determine the specific remuneration packages of all executive Directors and senior management.

## Attendance record of committee members at the meeting of the Remuneration Committee during the Reporting Period

| Name of Remuneration Committee Member  | Actual attendance/<br>attendance required |
|--|---|
| Xi Juntong (Chairman of the Committee) | 1/1                                       |
| Xu Jianxin                             |   |
| Liu Yunhong                            |   |



## **Corporate Governance Report**

## **Directors' and Auditors' Responsibilities for Accounts**

The Directors of the Company acknowledge their responsibilities for the preparation of financial reports for each financial year, which shall give a true and fair view of the financial position, the results and cash flows of the Group for that financial year. In preparing the financial report for the year ended 31 December 2022, the Directors have selected and consistently applied suitable accounting policies, made judgments and estimates that are prudent and reasonable, and have prepared the financial report on a going concern basis. The Directors are responsible for keeping proper accounting records which disclose with reasonable accuracy at any time the financial position of the Group.

#### **Supervisory Committee**

The Supervisory Committee is a standing monitoring agency of the Company responsible for monitoring the Board and its members as well as senior management to avoid abuse of power that may harm the legitimate interests of shareholders, the Company and staff of the Company. The size and composition of the Supervisory Committee of the Company comply with the requirements of the relevant laws and regulations in the PRC.

## Attendance record of committee members at the meetings of the Supervisory Committee during the Reporting Period

| Name of Supervisor                                   | Actual attendance<br>attendance required |
|--|--|
| Cai Xiaoqing (Chairman of the Supervisory Committee) | 10/10                                    |
| Han Quanzhi  | 10/10                                    |
| Yuan Shengzhou                                       | 10/10                                    |

### **Senior Management**

As at the date of this report, the Company has ten senior management members in total, namely Ms. Leng Weiqing, Mr. Liu Ping, Mr. Dong Jianhua, Mr. Chen Ganjin, Mr. Gu Zhiqiang, Mr. Jin Xiaolong, Ms. Yang Hong, Mr. Zhou Zhiyan, Ms. Tong Liping and Ms. Fu Min. The details of their duties, biographical details and remuneration are set out in the section headed "Directors, Supervisors, Senior Management and Staff". Four members of the Company's senior management were women, accounting for 40% of the total number of senior management, and gender diversity has been well achieved.

## **Risk Management and Internal Controls**

According to the related requirements set out in the Corporate Governance Code in Appendix 14 of the Hong Kong Listing Rules, the Company has established comprehensive risk management and internal control systems, including a system with a proper structure and organization and a system with relevant standards and relevant management principles for risk management and internal controls, to continually implement for risk management and internal controls. The Company is of the view that such systems are basically effective and sufficient. The intention of the establishment of such a risk management and internal control system is to enhance the management and operation of the Company as far as scientific approach for decision making proper compliance with governing rules and regulations as well as its effectiveness are concerned. The system should also help to increase the risk control capability and ensure the continuous, stable and healthy development of all kinds of businesses of the Company. However, this is only a reasonable rather than an absolute guarantee against material untruthful representation or losses, as the intention is to manage instead of eliminating the risk of not achieving the business targets.

The Board acknowledges that it has the responsibility to examine the risk management and internal control systems of the Company and through the Audit Committee reviews the effectiveness of such systems at least once every year. The Board of the Company and the Audit Committee oversee and evaluate the completeness and effectiveness in relation to the design and implementation of the risk management and internal control systems, as well as review and approve the mid-to-long-term planning, annual audit plan as well as evaluation report on risk management and internal control evaluation report. The management of the Company is responsible for the establishment and improvement of the risk management and internal control systems of the Company, the review of working plans and annual report on risk management and internal controls. The risk management and internal control department of the Company is responsible for the design and establishment of the risk management and internal control systems, as well as annual organization of risks identification, evaluation and remedial measures and report, so as to promote execution of the internal controls and optimization of the system procedures. The audit department of the Company is responsible for regular evaluations of the effectiveness of risk management and internal controls, as well as the appointment of accounting firms to conduct financial reporting internal control audit, so as to identify potential risks and internal control defects in a timely manner, ensure that the relevant operational departments and subsidiaries implemented rectification measures and the effective operation of the risk management and internal controls system of the Company.

In respect of the identification, assessment, management procedures and business processes that are exposed to possible material risks, the Company has established basically-improved relevant internal control measures and systems and procedures, such as management and internal control on key work flows including the preparation and disclosure of financial reports and processing and announcement of

## **Corporate Governance Report**

inside information. Regular internal control measures were established through specific procedures to prevent risks in key segments and reduce the impacts of risks. In terms of the disclosure of inside information, the Company has established standardized control procedures to collect, organize, validate, review and disclose information. The Company will ensure that the information is kept confidential before it is fully disclosed to the public. For information that is difficult to keep confidential, the Company will disclose it in a timely manner to protect the benefit of investors and stakeholders.

During the Reporting Period, the Company continued to optimize its risk management and internal control systems, and improved and implemented the risk assessment, response and reporting mechanism of the Company. In 2002, first of all, the Company strengthened its risk control organization and established a sound risk prevention and control leadership team and working group to enhance the overall coordination of the Company's risk prevention and control work and to promote various risk prevention and control work in a steady and orderly manner. In addition, the Company insisted on conducting regular risk checks, implementing annual risk evaluation, strengthening prediction and analysis of trend and emerging risks, and formulating countermeasures and prevention and control measures to prevent new risks. Furthermore, the Company attached importance to sumup and reflection on historical risk events, and improved the internal control process by inferring other things from one fact, conducted regular evaluations of the effectiveness of the internal control system, and promoted the publicity and implementation of the Internal Control Manual (《內部控制 手冊》) and the internal control processes in its subsidiaries, thus to ensure the normal operation and development of the Company.

The internal audit department oversees and evaluates the effectiveness of the implementation of the risk management and internal control system, prepares the plan for evaluation work, calls for qualified personnel with professional capability to form the evaluation team and conducts evaluation for the risk management and internal controls of the Company. It makes warnings and rectification suggestions on risks and internal control deficiencies identified, urges for remedial actions to cope with risks and to rectify system for deficiencies

identified, prepares the risk management evaluation report and the internal control evaluation report and submits the reports to the Audit Committee, the Supervisory Committee and the Board of the Company for consideration, so as to enhance the effectiveness of the risk management and internal controls of the Company on an ongoing basis.

The Company appoints accounting firms to conduct financial reporting internal control audit every year, so as to identify internal control deficiencies in a timely manner, urge the relevant operational departments and subsidiaries to implement rectification measures and ensure the effective operation of the internal controls of the Company.

According to the relevant rules, the Company appointed PricewaterhouseCoopers Zhong Tian LLP to conduct an audit on the effectiveness of the internal controls in relation to financial reporting of the Company for 2022, for which an internal control audit report of internal control opinions for the financial report that has maintained effective in all major aspects was issued.

The Company consistently adheres to the principle of honesty and integrity in business operation, adopts a zero-tolerance policy for any violations against business ethics and anticorruption regulations. In order to detect corrupt practices in a timely manner, the Company has established various reporting channels, including telephone reporting and on-site reporting, to obtain clues from internal and external parties.

#### **General Meetings**

The General Meeting is the highest authority of the Company which performs its duties according to laws and makes decisions on major issues of the Company. Annual general meetings or extraordinary general meetings of the Company are direct communication channels between the Board and the shareholders of the Company. Therefore, the Company attaches great importance to general meetings and encourages all shareholders to attend and express their opinions at the meetings.

Shareholders may convene an extraordinary general meeting and make proposals on the meeting in accordance with

Articles 87 and 64 of the Articles of Association, whose latest version was published on the websites of the Company and the Stock Exchange.

#### **Communications with Shareholders**

The Shareholders' Communication Policy sets out, among other things, the Company's means of communication with the Shareholders with the aim of ensuring that both individual and institutional Shareholders are given timely access to accurate, clear and balanced information to enable them to exercise their rights in an informed manner and to engage actively with the Company. The Board has reviewed the implementation of the Shareholders' Communication Policy during the year ended 31 December 2022. Having considered the active engagement by the Company with the Shareholders via the different means in accordance with the Policy, the Board is satisfied that the Shareholders' Communication Policy continues to be effective.

The Company releases its announcements, financial data and other relevant data on its website, which serves as a channel facilitating effective communication with investors. The shareholders may send any enquiry in writing to the Company's principal place of business in Hong Kong. The Company will properly handle all enquiries in time.

### **Company Secretary**

During the Reporting Period, Mr. Zhou Zhiyan and Ms. Leung Kwan Wai acted as joint company secretaries of the Company. Both Mr. Zhou Zhiyan and Ms. Leung Kwan Wai participated in the relevant training during the Reporting Period and the time for training was no less than 15 hours in total. Ms. Leung Kwan Wai's principal contact with the Company is Mr. Zhou Zhiyan.

Ms. Leung Kwan Wai possesses the requisite qualifications of a company secretary as required under Rule 3.28 of the Hong Kong Listing Rules. Mr. Zhou Zhiyan currently does not possess the requisite qualifications set out in Rule 3.28 of the Hong Kong Listing Rules. In relation to the appointment of Mr. Zhou Zhiyan as a joint company secretary of the Company, the Company applied to the Stock Exchange for, and the Stock Exchange granted, a waiver (the "Waiver") from strict

compliance with the requirements under Rules 3.28 and 8.17 of the Hong Kong Listing Rules for a period of three years from the date of Mr. Zhou Zhiyan's appointment as a joint company secretary of the Company (the "Waiver Period") on the conditions that (i) Mr. Zhou Zhiyan must be assisted by Ms. Leung Kwan Wai as a joint company secretary during the Waiver Period in discharging his functions as joint company secretary of the Company; and (ii) the Waiver could be revoked if there are material breaches of the Hong Kong Listing Rules by the Company. The Company published an announcement stating the reasons, details and conditions of the Waiver, and the qualification and experience of both Mr. Zhou Zhiyan and Ms. Leung Kwan Wai. Before the end of the Waiver Period, the Company must demonstrate and seek confirmation from the Stock Exchange that, Mr. Zhou Zhiyan, having had the benefit of Ms. Leung Kwan Wai's assistance during the Waiver Period, has attained the relevant experience and is capable of discharging the functions of company secretary under Rule 3.28 of the Hong Kong Listing Rules such that a further waiver will not be necessary.

## Disclosure of Information and Investor Relations

The Company recognizes the importance of good communications with its investors. The Office of the Board, the department which has duties covering investor relations, has arranged interviews, site visits and roadshows for investors from time to time. The team has also actively attended investors' forums to help investors gain a better understanding of the Company's operating results as well as its strategies and plans for future development. The Company will continue to make great efforts in investor relations work to further enhance its transparency.

#### **Other Matters**

During the Reporting Period, the Company amended once its Articles of Association, and such amendments were approved by way of a special resolution at the 2021 annual general meeting of the Company. For details of the amendments, please refer to the circular of the general meeting dated 7 June 2022, and the announcement on the voting results of the general meeting dated 28 June 2022.

# **Summary of General Meetings**



The Directors present their report and the audited financial statements of the Company and the Group for the year ended 31 December 2022 on page 96 to 106.

#### **Corporate Culture**

The Company has established a corporate culture concept system that includes mission, vision, core values and spiritual spectrum. With "empower global industry, make life smarter" as its mission, the Company are committed to "become a world-class equipment group leading the industrial development".

#### **Principal Activities**

The principal business of the Company focuses on three major segments, energy equipment, industrial equipment and integration services. Details of the principal activities of the major subsidiaries of the Company are set out in note 7 to the financial statements. There were no significant changes in the principal activities of the Company during the year.

The energy equipment segment: design, manufacture and sales of nuclear power equipment, energy storage equipment, wind power equipment, coal-fired power generation and corollary equipment, gas-fired power generation equipment, high-end vessels for chemical industry as well as providing power grid and industrial intelligent power supply system solutions;

The industrial equipment segment: design, manufacture and sales of elevators, large and medium-sized electric motors, intelligent manufacturing equipment, industrial basic parts and construction industrialization equipment;

The integration services segment: providing energy, environmental protection and automation engineering and services, covering traditional and new energy, comprehensive use of solid wastes, sewage treatment, flue gas treatment, rail transit and etc.; providing industrial internet services; providing financial services, covering financing leases, factoring, asset management, insurance brokerage and etc.; providing property management services mainly based on industrial real estate, etc.

#### **Business Review**

During the Reporting Period, the Company achieved the revenue of RMB117,623 million, representing a year-on-year decrease of 9.7%. The net losses attributable to owners of

the Company for 2022 was RMB3,566 million, and net losses attributable to owners of the Company for the corresponding period of last year was RMB9,988 million.

The basic loss per share of the Company for 2022 was RMB0.23 yuan, basic loss per share for the corresponding period of last year was RMB0.64 yuan. The average return on net assets was a loss of 6.31% and last year was a loss of 15.69%. The Board of the Company proposed no final dividend for the year 2022.

During the Reporting Period, the energy equipment segment achieved revenue of RMB56,093 million, representing a year-on-year decrease of 4.52%. The revenue from energy storage business increased over the corresponding period of last year as affected by the continued growth of demand for equipment in the new energy industries, while the revenue from wind power equipment business decreased compared with the corresponding period of last year, which was caused by the peak of wind power installation last year as affected by industry policies. During the Reporting Period, the gross profit ratio of the energy equipment segment reached 18.05%, slight increased over the corresponding period of last year.

The industrial equipment segment achieved revenue of RMB40,533 million, representing a year-on-year decrease of 4.04%, which was mainly attributable to the year-on-year decrease in revenue from elevator business. During the Reporting Period, gross profit ratio of the industrial equipment segment was 15.58%, representing a year-on-year decrease of 0.78 percentage point.

The integration services segment achieved revenue of RMB26,708 million, representing a decrease of 31.16% as compared with the corresponding period of last year, which was mainly due to the decrease of revenue from engineering services. The gross profit ratio of the integration services segment was 8.36%, representing an increase of 2.33 percentage points as compared with the corresponding period of last year, which was mainly caused by the changes in the structure of engineering projects.

Analysis of principal business, assets and liabilities, and operational information by industry, and the Board's discussion and analysis on the future prospect of the Company are set out below

## **Analysis of Principal Business**

#### Analysis of changes of relevant items in the income statement and the statement of cash flows

Unit: 100 million; Currency: RMB

| Items  | For the year ended 31 December 2022 | For the year ended 31<br>December 2021 | Percentage of change (%) |
|--|-------------------------------------|--|--------------------------|
| Operating revenue                                  | 1,169.86                            | 1,295.55                               | (9.70)                   |
| Operating cost                                     | 984.97                              | 1,105.73                               | (10.92)                  |
| Selling and distribution expenses                  | 38.53                               | 46.01                                  | (16.26)                  |
| General and administrative expenses                | 81.68                               | 79.30                                  | 3.00                     |
| Financial expenses                                 | 13.01                               | 11.27                                  | 15.44                    |
| Research and development expenditures              | 50.28                               | 54.06                                  | (6.99)                   |
| Net cash flows generated from operating activities | 84.83                               | (105.54)                               | N/A                      |
| Net cash flows generated from investing activities | (73.17)                             | 58.59                                  | N/A                      |
| Net cash flows generated from financing activities | (12.57)                             | 21.65                                  | N/A                      |

Net cash flows generated from operating activities: mainly due to the significant increase in net cash inflow from procurement and sales of goods and services as compared with the corresponding period of last year.

Net cash flows generated from investing activities: mainly due to the increase in cash paid to acquire investments as compared with the corresponding period of last year.

Net cash flows generated from financing activities: mainly due to the increase in cash repayments of borrowings as compared with the corresponding period of last year.

## **Analysis of Revenue and Costs**

During the Reporting Period, the Company achieved the revenue of RMB117,623 million, representing a year-on-year decrease of 9.7%. The net losses attributable to owners of the Company for 2022 was RMB3,566 million, and net losses attributable to owners of the Company for the corresponding period of last year was RMB9,988 million.

#### Analysis of the principal businesses by segment and geographic location

Unit: 100 million; Currency: RMB

| Principal businesses by segment  |             |               |                            |                           |                                   |                                       |  |  |
|----------------------------------|-------------|---------------|----------------------------|---------------------------|-----------------------------------|---------------------------------------|--|--|
| By segment                       | Revenue Ope | erating costs | Gross profit<br>margin (%) | YoY change in revenue (%) | YoY change in operating costs (%) | YoY change in gross profit margin (%) |  |  |
| Energy equipment                 | 560.93      | 459.71        | 18.05                      | (4.52)                    | (4.74)                            | An increase of 0.18 percentage point  |  |  |
| Industrial equipment             | 405.33      | 342.16        | 15.58                      | (4.04)                    | (3.15)                            | A decrease of 0.78 percentage point   |  |  |
| Integration services             | 267.08      | 244.74        | 8.36                       | (31.16)                   | (32.87)                           | An increase of 2.33 percentage points |  |  |
|                                  |             | Principal     | l businesses by g          | eographic locatior        |                                   |                                       |  |  |
| By geographic location           | Revenue Ope | erating costs | Gross profit<br>margin (%) | YoY change in revenue (%) | YoY change in operating costs (%) | YoY change in gross profit margin (%) |  |  |
| Mainland China                   | 992.04      | 802.88        | 19.07                      | (6.82)                    | (6.28)                            | A decrease of 0.46 percentage point   |  |  |
| Other countries/<br>jurisdiction | 184.19      | 182.09        | 1.14                       | (22.61)                   | (26.90)                           | An increase of 5.79 percentage points |  |  |

#### **Major customers**

The sales revenue from the five largest customers of the Company was RMB7,318 million in aggregate for the Reporting Period, accounting for 6.22% of the total sales revenue. Among the top five customers, the sales of related parties were RMB1,525 million, accounting for 1.30% of the total annual sales.

#### **Major suppliers**

The purchases from the five largest suppliers of the Company amounted to RMB4,616 million in aggregate for the Reporting Period, accounting for 5.13% of the total purchases. Among the top five suppliers, the purchases of related parties were RMB2,278 million, accounting for 2.53% of the total annual purchases.

#### **Analysis of costs**

Unit: 100 million; Currency: RMB

| By segment                 | Cost component                | For the year<br>ended 31<br>December 2022 | Proportion in the total costs (%) | For the year<br>ended 31<br>December 2021 | Proportion in the total costs (%) | Percentage of change (%) |
|----------------------------|-------------------------------|---|-----------------------------------|---|-----------------------------------|--------------------------|
|                            | Raw materials                 | 401.97                                    | 87.44                             | 420.41                                    | 87.12                             | (4.39)                   |
| Energy Equipment           | Labor costs                   | 31.58                                     | 6.87                              | 32.14                                     | 6.66                              | (1.74)                   |
|                            | Other fees                    | 26.16                                     | 5.69                              | 30.01                                     | 6.22                              | (12.83)                  |
|                            | Total                         | 459.71                                    | 100.00                            | 482.56                                    | 100.00                            | (4.74)                   |
|                            | Raw materials                 | 281.60                                    | 82.30                             | 290.05                                    | 82.10                             | (2.91)                   |
| la di istrial Faccione ant | Labor costs                   | 29.08                                     | 8.50                              | 29.32                                     | 8.30                              | (0.82)                   |
| Industrial Equipment       | Other fees                    | 31.48                                     | 9.20                              | 33.92                                     | 9.60                              | (7.19)                   |
|                            | Total                         | 342.16                                    | 100.00                            | 353.29                                    | 100.00                            | (3.15)                   |
|                            | Equipment                     | 158.47                                    | 64.75                             | 234.91                                    | 64.43                             | (32.54)                  |
| Integration Services       | Construction and installation | 49.90                                     | 20.39                             | 72.85                                     | 19.98                             | (31.50)                  |
| J                          | Other fees                    | 36.37                                     | 14.86                             | 56.84                                     | 15.59                             | (36.01)                  |
|                            | Total                         | 244.74                                    | 100.00                            | 364.60                                    | 100.00                            | (32.87)                  |

#### Explanatory note:

During the Reporting Period, the revenue from engineering projects of the Company decreased as compared with the corresponding period of last year, which led to the year-on-year decrease of cost of the integration services segment.

## **R&D Expenditure**

|  | Unit: 100 million; Currency: RMB |
|--|----------------------------------|
| R&D expenditure expensed in the Reporting Period                               | 50.28                            |
| R&D expenditure capitalized in the Reporting Period                            |                                  |
| Total R&D expenditure  | 50.64                            |
| Percentage of total R&D expenditure to operating revenue (%)                   |                                  |
| Percentage of R&D expenditure capitalized (%)                                  |                                  |
|  |                                  |
|  |                                  |
|  |                                  |
| Number of R&D staff  | 3,793                            |
| Percentage of R&D staff to total staff (%)                                     | 9.09                             |
|  |                                  |
|  |                                  |
|  | Number of Persons                |
| R&D Staff Education Level  |                                  |
| Doctor   |                                  |
| Postgraduate   |                                  |
| Undergraduate  |                                  |
| Tertiary education   |                                  |
| Secondary education and below  |                                  |
|  |                                  |
|  |                                  |
| R&D Staff Age Level  | Number of Persons                |
| Below 30 years old (not including 30 years old)                                |                                  |
| 30 years old-40 years old (including 30 years old, not including 40 years old) |                                  |
| 40 years old-50 years old (including 40 years old, not including 50 years old) | 861                              |
| 50 years old-60 years old (including 50 years old, not including 60 years old) | 268                              |
| Above 60 years old   |                                  |
|  |                                  |
|  |                                  |

During the Reporting Period, the technical strength of core industries of Shanghai Electric continued to improve. The research and development of the Company's main business segments are as follows:

## **Energy Equipment**

In the field of gas power, based on the mastery of gas turbine design technology, we have developed intelligent service system for gas turbines. Equipped with functions such as 3D visualisation, information transmission and big data analysis, such system integrates the design mechanism of gas turbines, expert operation and maintenance experience with intelligent algorithms, and provides power plant users with intelligent services such as part-load performance optimisation, monitoring-based intelligent blowing, component maintenance tips and plant-wide revenue assessment and adaptive combustion stability adjustment, which can significantly improve the production and operation economy and operation flexibility of equipment of the power plants. The system has been installed in a number of gas turbine power plants including Beijing Energy Shangzhuang project, Huadian Nanqiao project, Datang Wanning project.

In the field of nuclear power, we have completed the development of the steam turbine and generator for Hualong One's 1,300MW-class nuclear power conventional island, with fully independent intellectual property rights and generator efficiency of 99.04%; completed the development of key equipment such as sodium-air heat exchanger, independent heat exchanger and fuel assembly transfer machine for 600MW sodium-cooled fast

reactors; completed the development of key raw materials and some key components for the main pump of the Guohe series wet winding motor, and achieved a breakthrough in homemade technology.

In the field of coal-fired power, we have developed a new high-efficiency 660MW class ultra-supercritical secondary reheat unit with #0 steam extraction, the first #0 steam extraction system matched with the secondary reheat unit, and the design heat consumption of 7010kJ/kWh under rated working conditions, with all indicators reaching the leading level of the same type of unit in China, and the reheat steam extraction grade is level 11+1, which is the single-axis turbine with the largest number of reheat grades in operation at present, further enhancing the unit's economy. In the field of technology on the comprehensive transformation of coal-fired power, we have made breakthrough in the "three-transformations linkage" technology for coal-fired units and completed the development of the first combined HP-IP casing supercritical turbine product in China (with the temperature of subcritical coal-fired units up to 600°C) in 2022. By now, Shanghai Electric has fully mastered the independent development capability for all main equipment for the parameter upgrading of sub-critical coal-fired generating units.

In the field of energy storage, we have successfully launched 1000V grade 500kW/630kW, 1500V grade 1.25MW/1.5MW/1.725MW PCS device and inverter booster integrated machines. We have completed the development of 100Ah and 200Ah long life lithium-ion battery cells, developed the 4-6P high-rate battery system with self-developed cells to meet the highest 6x scenario demand of UPS scenario at this stage; successfully developed the 125kW/250kWh integrated container-type redox flow battery energy storage system, the 250kW/500kWh container-type energy storage system, and with that, we have completed the manufacture of 1MW/2MWh all-vanadium redox flow battery energy storage equipment, and have a series of container-type redox flow energy storage products with power of 125kW/250kW and capacity of 250~625kWh; developed high-power high-speed monopole flywheel energy storage motor, which has many advantages such as high efficiency, high instantaneous power, fast response speed, long service life and low environmental impact; developed the heat storage and exchange single-tank molten salt heat storage system which is the first of its kind in China and is environmental friendly and pollution-free as compared with natural gas boilers.

In the field of hydrogen energy, Shanghai Electric has independently developed 1500Nm<sup>3</sup>/h alkaline water electrolysis hydrogen production equipment with DC power consumption below 4.2kWh/Nm<sup>3</sup>, which is significantly superior than the national first-class energy efficiency standard for large-scale electrolyzer and has reached the current international leading level.

In the field of wind power, during the Reporting Period, our self-developed S112 blade for the EW8.5-230 wind turbine rolled off the production line successfully, and the unit was installed through the way of hoisting at the offshore wind power project at Bozhong Site B of Shandong Energy.

In the field of automated production lines for new energy vehicle power batteries, we have successfully developed double-layer extrusion coating machine equipment for semi-solid state batteries (positive electrode composite collector coating machine and negative electrode silicon-carbon coated composite coating machine), achieving a head start in the field of semi-solid state battery equipment.

In the field of grid and industrial intelligent power supply system solutions, we have developed a new dual-function motor with interchangeable modes of power generator and condenser to meet the needs of the grid, with the performance index of a fast dynamic response synchronous condenser and a reactive power output range of -150MVar~300MVar. It can switch flexibly between operation modes of power generator and condenser in line with the requirements of grid and give full play to the integrated performance of active power support during high load periods and reactive power support during low load periods, effectively improving system regulation performance and regulation capability. In the UHV field, the Company has successfully developed 1100kV reactors and 1000kV transformers.

### **Industrial Equipment**

In the field of elevator technology, the 10m/s high-speed elevator and the 8m/s double-cabin elevator, both of which have been developed in-house with full intellectual property rights, have been successfully launched into the market and have achieved sales results, with overall performance reaching TUV GOOD level. LNK intelligent elevator digital solution, which integrated 9 categories of digital products with high security, high real-time and high stability characteristics, has been implemented in a number of key projects such as Shanghai Centre through the approach of "elevator equipment" + "digital product service".

In the field of motors, we have developed YX3-355-560 series of high-voltage three-phase asynchronous motors, and the efficiency of the whole series of products has reached the first-class energy efficiency, ranking the first in the same type of products certified by the Ministry of Industry and Information Technology.

In the field of bearings, the Company achieved breakthroughs in the domestically produced metro A-type axlebox bearings and the loading application, fully mastered the independent design and manufacturing technology of metro bearings, and the performance indicators of the bearings reaching the advanced level of similar products in the world. Furthermore, a set of real-time monitoring system of metro axlebox bearing health status was jointly developed to satisfy the the needs of ensuring metro bearing safety, which has, in combination with the cloud transmission technology, achieved remote real-time inspection of the running health status of bearings.

#### **Integration Services**

In the field of industrial internet, we built "Smart OPS Energy Storage Intelligent Operation and Maintenance System", "Intelligent Carbon Brain System of Carbon Asset Management System" and "Feng Yun System" based on our self-developed "SEunicloud" industrial internet platform, which enables intelligent operation and maintenance management of various power plants such as energy storage plants, coal-fired power plants, gas-fired power plants and wind farms.

In the field of intelligent transport, we developed the electronic interlocking DDOC, the basic and core system for rail signal systems, which applies a number of mainstream technologies, including modern electronic information technology and reliability redundancy technology, to achieve an optimized signal control system with the highest safety integrity level of SIL4.

In the field of solid waste treatment, the Company developed an advanced thermal conversion system for organic solid waste, targeting a wide range of difficult-to-treat solid and hazardous waste under small to medium scale, to efficiently recycle chemical energy from solid raw materials and achieve high level of energy utilisation.

In the field of flue gas treatment, the Company developed technology and equipment of catalytic ceramic fibre filter tube for ultra-low flue-and-gas emission integration, which can be widely used in industries such as waste incineration, sintering machines, non-ferrous metal smelting, coking furnaces, glass kilns, hazardous waste incineration and biomass power plants. At present, the core equipment has already been developed for market-oriented project applications.

## **Analysis of Assets and Liabilities**

Unit: 100 million; Currency: RMB

| ltems                 | By the end of<br>the current<br>period | Proportion to<br>total assets by<br>the end of the<br>current period<br>(%) | By the end of<br>the preceding<br>period | Proportion to<br>total assets<br>by the end of<br>the preceding<br>period (%) | Percentage<br>of change<br>in amount<br>compared<br>with the end of<br>the preceding<br>period (%) |
|-----------------------|--|---|--|---|--|
| Accounts receivable   | 382.80                                 | 13.29   | 334.29                                   | 11.11   | 14.51  |
| Inventories           | 308.72                                 | 10.72   | 328.79                                   | 10.93   | (6.10)   |
| Short-term borrowings | 86.61                                  | 3.01  | 118.36                                   | 3.93  | (26.82)  |
| Long-term borrowings  | 216.48                                 | 7.52  | 238.45                                   | 7.93  | (9.21)   |
| Notes payable         | 160.70                                 | 5.58  | 165.79                                   | 5.51  | (3.07)   |
| Accounts payable      | 573.97                                 | 19.93   | 613.04                                   | 20.38   | (6.37)   |
| Contract liabilities  | 387.43                                 | 13.45   | 391.60                                   | 13.02   | (1.06)   |



## **Analysis of Operational Information by Industry**

Shanghai Electric is the world's leading provider of industrial grade green intelligent system solutions. Information on the industries in which our main businesses operate is set out below:

## **Energy Equipment**

In terms of nuclear energy, the domestic nuclear power industry is ushering into an important period with strategic opportunities alongside with the strategic goal on peak carbon dioxide emissions and carbon neutrality. The government work report issued at the beginning of 2021 put forward that the government shall "take active and well-ordered steps to develop nuclear energy on the basis of ensuring its safe use", which embodies a great prospect for the industry. In March 2022, the National Development and Reform Commission and the National Energy Administration announced the 14th Five-Year Plan for Modern Energy Systems (《「十四五」現代能源體系規劃》), which states that "on the premise of securing safety, we will actively and orderly promote the construction of coastal nuclear power projects, by maintaining a steady pace of construction and properly allocate additional coastal nuclear power projects, conduct integrated nuclear energy demonstration projects, actively promote the demonstration projects of advanced reactor types such as high-temperature gas-cooled reactors, fast reactors, modular small reactors and offshore floating reactors, and promote the integrated use of nuclear energy in areas such as clean heating, industrial heating and seawater desalination". Therefore, during the period of 14th Five-Year Plan, the positioning of nuclear energy in China's low carbon clean energy system will be clearer, the function will be more prominent. It is expected that 6-8 units of nuclear energy will be constructed on a steady and ongoing basis every year.

In terms of wind power, the National Development and Reform Commission and the National Energy Administration issued the Implementation Plan for Promoting High-Quality Development of New Energy in the New Era (《關於促進新時代新能源高質量發展的實施方案》) in May 2022, proposing the goal of reaching a total installed capacity of over 1.2 billion kW of wind power and solar power by 2030. According to the statistics of the National Energy Administration, an additional capacity of 37.63 million kW of wind power was installed and on-grid nationwide in 2022. At present, the major wind turbine manufacturers have developed platform production capabilities with a variety of large megawatt models, and the overall competition for wind power will become more intense in the future.

In terms of thermal power, in the background of the strategic goals of peak carbon dioxide emissions and carbon neutrality, China has been implementing a comprehensive "three reforms linkages" (三 改聯動) plan of coal-fired power generation stations, which includes energy-saving and carbon-reducing transformation, flexibility transformation and heating supply transformation. According to the Implementation Plan of Transformation and Upgrading of National Coal-fired Power Generating Units (《全國煤電機組改造升級實施方案》), during the "14th Five-Year Plan" period, the scale of energy-saving and carbon-reducing transformation of coal-fired power unit will be no less than 350 million kW, the scale of heating supply transformation of coal-fired power unit will strive to reach 50 million kW, while the scale of flexibility transformation of coal-fired power unit will reach 200 million kW. In September 2022, the Ministry of Industry and Information Technology, the Ministry of Finance, the

Ministry of Commerce, the State-owned Assets Supervision and Administration of the State Council and the General Administration of Market Supervision jointly promulgated the Action Plan on Accelerating the Innovative Development of Green and Low-Carbon Power Equipment (《加快電力裝備綠色低碳創新發展行動計劃》), which requires to accelerate construction of an equipment supply system to support clean energy production and green energy consumption, to promote the high-quality development of power equipment, thus helping to achieve the goal of peak carbon dioxide emissions. Shanghai Electric will develop products featuring characteristics required for future overall positioning of thermal power by strengthening the analysis of electric power industry and customer demand. We will also give full play to the leading role in technology, improve product quality and continuously launch green, efficient and clean thermal power equipment with "high performance parameters, high reliability, high stability, low energy consumption, low emission, and low pollution".

In terms of power grid, under the influence of 5G, Internet of Things and other advanced technologies, China's power industry has come into a new era of transformation and upgrading. The vigorous promotion of energy Internet in the future will also be helpful to the continuity of power grid investment. With the commencement of construction of major projects such as West-to-East Power Transmission, North-South Mutual Power Supply, Cross-regional Networking and Smart Grid, national adjustment to the energy structure of the power industry, and the new policies of new urbanization construction, investments in rail transit, grid connection of new energy and other fields during the 14th Five-Year Plan period, the power transmission and distribution equipment industry will embrace new development opportunities.

## **Industrial Equipment**

There are more than 9 million elevators in use in China currently, of which the proportion of old elevators with an age over 15 years has been increasing. Due to the influence of the real estate market, the growth rate of demand for complete machine of elevator will slow down in the future, but the growth rate of elevator for old building renewal and installation, household elevator and other businesses will accelerate, and the elevator industry will still maintain a trend of steady growth in general. At present, there are approximately 700 complete machine manufacturers in the elevator industry with an annual production capacity of over 2 million units. It is expected that in the future, the competition in the elevator industry will remain fierce. With the expanding trend of overcapacity in the industry, the competition in the industry will show the trend of integration towards large companies.

## **Integration Services**

Focusing on the national "Belt and Road" Initiative, we regard more than 50 countries and regions involved in the "Belt and Road" Initiative as key markets of engineering projects. We have sped up the construction of sales and project supporting outlets around the global market. At present, we have over twenty overseas branches in U.K., Japan, Australia, South Africa, Mexico and Panama, etc., and we will keep actively promoting construction of overseas outlets to achieve multi-regional sales and projects supporting capacity. We are exploring businesses of both centralized and distributed new energy simultaneously under the guidance of new energy resource development, and actively promote the integration of industry and finance as well.

## **Analysis on Investments**

## Equity interests in other listed companies held by the Company

Unit: '000; Currency: RMB

| Stock code | Stock abbreviation                      | Initial<br>investment<br>amount | Source of funds     | Carrying<br>amount<br>as at the<br>beginning of<br>the period | Gain or loss from<br>the change of fair<br>value during the<br>period | Carrying<br>amount as at<br>the end of the<br>period | Classification in accounts         |
|------------|---|---------------------------------|---------------------|---|---|--|------------------------------------|
| 600642     | Shenergy                                | 2,800                           | Own funds           |   | (5,076)   | 14,866   | Other non-current financial assets |
| 600633     | Zhejiang Daily Digital Culture          |                                 | Own funds           | 38,609  | (2,717)   |  | Other non-current financial assets |
| 000501     | Wu Han Department Store Group Co., Ltd. |                                 | Own funds           |   | 134   |  | Other non-current financial assets |
| 600665     | Tande Co., Ltd.                         | 1,400                           | Own funds           |   | 467   |  | Other non-current financial assets |
| 601229     | Bank of Shanghai                        |                                 | Own funds           |   | (5,925)   |  | Other non-current financial assets |
| 00020      | SenseTime -w                            |                                 | Own funds           |   | (103,409)   |  | Other non-current financial assets |
| 09863      | LeapMotor                               |                                 | Own funds           |   | (270,950)   | 935,006  | Other non-current financial assets |
| 600515     | Hainan Airport                          |                                 | Debt to equity swap |   | 917   |  | Trading financial assets           |
| Total      |   | 852,985                         |                     | 1,600,830   | (386,559)   | 1,309,371  |                                    |



## **Disposal of Material Assets and Equity Interests**

On 20 June 2022, the Board considered and approved the relevant proposal, agreeing to transfer 132,458,814 shares of Suzhou Thvow Technology Co., Ltd. (蘇州天沃科技股份有限公司) ("Thvow Technology") held by the Company to SEGC by way of a non-public agreement for a price of RMB4.26 per share at a total consideration of RMB564,274,547.64. On 20 June 2022, the Company entered into the Share Transfer Agreement with SEGC with conditions to be effective regarding the transaction. On 22 July 2022, the general meeting of the Company approved the aforesaid proposal. As at the end of the Reporting Period, the transaction has been implemented and completed.

# The Board's Discussion and Analysis on the Future Prospect of the Company

## Industry Competition Landscape and Development Trend

According to the forecast of the China Electricity Council, the national electricity supply and demand for 2023 are expected to be as follows:

### Electricity Consumption Forecast

The macro economy and climate are important factors influencing the growth of electricity consumption demand. The national economy is expected to recover overall in 2023, boosting the growth rate of electricity consumption demand compared to 2022. Under normal weather conditions, the nation's overall social electricity consumption is expected to be 9.15 trillion kWh in 2023, an increase of approximately 6% compared to that of 2022.

#### Electricity Supply Forecast

Driven by the rapid development of new energy power generation, it is expected that the total installed capacity of new power generation and non-fossil energy generation will reach a further record high in 2023. It is expected that the total installed capacity of new power generation will reach approximately 250 million kW in 2023, including an additional 180 million kW of non-fossil power generation installed capacity. By the end of 2023, the national installed power generation capacity is expected to be approximately 2.81 billion kW, of which 1.48 billion kW will be generated by non-fossil energy sources, accounting for 52.5% of the total installed capacity. The installed capacity of hydropower will be 420 million kW, with on-grid wind power of 430 million kW, on-grid solar power of 490 million kW, nuclear power of 58.46 million kW and biomass power of around 45 million kW, and the installed capacity of solar power and wind power will exceed that of hydropower for the first time in 2023.

### Forecast of Electricity Supply and Demand

The overlapping of various factors in power supply and demand has brought uncertainty to the power supply and demand environment. On the supply side, there are uncertainties in terms of precipitation, wind and solar resources, fuel supply and so on. In addition, the continuous losses of coal-fired power enterprises have brought about a shortage of investment in technical reform and maintenance, which has led to an increase in potential risks

of equipment, all of which have increased the uncertainties in electricity production and supply. As for electricity consumption, there is uncertainty in terms of macroeconomic growth, foreign trade exports and extreme weather conditions.

Based on electricity demand forecasts and taking into account new installations, cross-provincial and cross-regional power exchanges, power generation output and reasonable reserves, the national electricity supply and demand are expected to be tightly balanced in 2023, with some regions experiencing tight supply and demand during peak periods. During the peak summer season, power supply and demand in Eastern, Central and Southern China will be tight; power supply and demand in Northern, Northeastern and Northwestern China will be basically balanced. During the peak winter season, electricity supply and demand in Eastern, Central, Southern and Northwestern China were on the tight side; electricity supply and demand in Northeastern China were basically balanced.

## **Development Strategy of the Company**

Shanghai Electric will follow the underlying principle of "pursuing progress while ensuring stability, adhering to integrity and innovation and unswervingly following the path of high-quality development", implement the development path of "driven by science and technology and carrying out transformation and upgrading" and create a development situation with "openness, coordination and win-win cooperation". The Company will focus on promoting the linkage of "smart energy and intelligent manufacturing", the two-wheel drivers of "industrial intelligentization and service industrialization" and the interaction of "energy internet and industrial internet", speed up the low-carbon and digital transformation of industries, drive the cultivation and development of new driving forces with technology innovation and unswervingly promote the Group to achieve high-quality development.

The Company will focus on the main path of high-quality development of main businesses with the improvement of operation quality and industrial competitiveness as the core target, namely, pursuing progress while ensuring stability in the scale of main businesses, continuously improving the return rate of net assets of main businesses, increasing the proportion of the equipment and service business, expanding the proportion of strategic emerging industries, improving the per capita efficiency and optimizing the asset structure.

To enhance the industrial competitiveness and optimize the industrial structure, the Company will focus on the innovation and transformation of existing industries and the cultivation of



strategic emerging industries. There are three paths for the innovation and transformation of existing industries, namely, improving the capabilities on systematic solutions, building new driving forces relying on the first echelon businesses. The Company will attach great importance to the cultivation of strategic emerging industries such as new energy equipment, manufacturing. Under the background of "carbon peaking and carbon neutrality" strategy, the Group will give full play to its advantages in efficient and clean energy equipment, vigorously layout the core equipment industry of "wind power, solar power, energy storage, hydrogen power". The Company will promote resource development and coordinate with its excellent equipment manufacturing, and help to realize the optimal combination of traditional energy and new energy by relying on technological innovation and institutional innovation, so as to contribute to the construction of a new power system with new energy as the main body. At the

same time, in order to implement the "manufacturing power" strategy, we need to vigorously develop the automation equipment and industrial software industry, and continuously improve the intelligent level of equipment manufacturing with digital empowerment.

In order to effectively promote high-quality development, the Group will build a scientific, efficient and powerful scientific and technological innovation system, an industrial system with innovation leading and coordinated development, an organizational system with orderly management and control, efficient and coordinated development, a corporate governance system with effective checks and balances, and a comprehensive, systematic, scientific and reasonable performance evaluation system from the aspects of scientific and technological innovation, industrial development, organization and management, corporate governance and talent construction, and build a strategic support system for human resources.

#### **Operation Plans**

In 2023, with the theme of "Science and Technology Innovation Year", we will firmly grasp the underlying principle of "pursuing progress while ensuring stability, adhering to integrity and innovation and unswervingly following the path of high-quality development". We will strive to improve the industrial development ability, overall profitability, reform and innovation ability, scientific and technological innovation ability and sustainable development ability, firmly promote the comprehensive implementation of the "14th Five-Year Plan" strategy of Shanghai Electric, fully promote high-quality development. The Company will focus on the following work:

## Increase Investment in Science and Technology and Improve the Capability of Scientific and Technological Innovation

We will adhere to the path of technological innovation enabling industrial development, accelerate the construction of an open and coordinated independent innovation system, and further focus on technological source innovation, technological system innovation and technological mechanism innovation. In 2023, the R&D investment rate of the Company will not be less than 4% and the Company will further increase the R&D investment in the field of offshore floating wind turbines, hydrogen energy equipment, new energy storage and other new track fields, striving to achieve key technical breakthroughs. We will adhere to independent innovation, follow the guidance of national strategic objectives, consolidate the core functions of the Group's major equipment development, and carry out key technical breakthroughs in many fields, such as advanced energy equipment, key basic materials, and industrial machine. We will adhere to open cooperation, build a coordinated operation mechanism for tackling key problems, carry out collaborative innovation and joint innovation with upstream and downstream enterprises along the industrial chain, industry-university-research institutions and ecosystem partners, and form a joint force for collaborative development. We will focus on promoting the first set of demonstration projects and comprehensive solutions for major projects through the joint innovation with key customers.

## Promote the Industrial Layout of the New Track Around the Industrial Development Strategy

The "14th Five-Year Plan" strategy of Shanghai Electric has defined the development strategy of focusing

on cultivating new energy equipment, intelligent manufacturing automation equipment and software and other strategic new industries. In the field of new energy, we will strengthen the top-level design, further form the development strategy of Shanghai Electric's new energy industry, make multi-point layout in the multi-energy complementation of "wind power, photovoltaic, energy storage and hydrogen energy" as well as the integrated business of "source-network-load-storage-hydrogen", promote the application of the first set of new energy equipment, integrate into the new energy business model, and improve the industrial competitiveness and industrial scale as soon as possible. In the fields of intelligent equipment, intelligent hardware and industrial software, we will increase investment, improve the level of intelligent manufacturing, and promote the digital transformation of enterprises to improve production efficiency and market competitiveness.

## Focus on the Main Responsibility and Main Businesses and Promote Industrial Transformation and Upgrading

In our traditional advantage areas, we will focus on our main responsibility and main businesses, promote the improvement of industry quality and efficiency, achieve transformation and upgrading, and promote new development momentum through technological progress, structural optimization and intensified efforts in the layout of new businesses. We will accelerate the digital transformation, focus on the intelligent equipment production line business and manufacturing intelligent transformation, intelligentize and upgrade the old equipment, build a number of benchmark digital workshops and intelligent factories, and form a number of digital transformation solutions. We will accelerate the service industrialization and expand the service business of manufacturing enterprises, including providing R&D, design, transformation of scientific and technological achievements, and intellectual property applications for the industrial chain. We will accelerate the forward-looking layout of future industries, focus on the cultivation of new businesses and new products, and form business support for industrial transformation and upgrading.

## Coordinate Internal and External Resources to Create Energy Integration Advantages

We will seize the development opportunities of high-end, intelligent and green manufacturing industry, integrate the

technical strength and practical experience of traditional energy, new energy, intelligent manufacturing, industrial Internet and other fields, coordinate the industrial chain resources of design, research and development, manufacturing, engineering, investment and other aspects, form synergy and integration advantages, improve the competitiveness of "new energy+" system solutions, and actively develop the comprehensive energy solutions under multiple application scenarios to form our new core competitiveness. We will gradually realize the transformation from "energy expert" to "energy administrator" by building energy integration advantages and creating new industrial clusters, and provide customers with life cycle services for energy in line with the "carbon peaking and carbon neutrality" background.

## Innovate the Mechanism and System to Stimulate New Drivers and New Vitality

We always adhere to the principle that "talent is the primary resource", and high-quality development can only be achieved with a strong talent team. We will strengthen internal training and external introduction, and intensify efforts in the training and introduction of top technology leaders; improve the talent evaluation system, optimize the salary system, and promote the solid implementation of more innovative measures of market-oriented mechanism with tangible results; further transmit pressure and motivation, improve team capacity and market competitiveness, and create and stimulate endogenous power and innovation ecology for innovation.

#### **Potential Risks**

#### Market Risks

The overall growth rate of the Chinese economy is slowing down. Equipment manufacturing industry is highly correlated with national economic growth. Changes in macro economy, national policy amendment, infrastructure construction investment scale, urbanization progress and cyclical fluctuations in industry development may bring about impacts to the sustainable development of the Company. Meanwhile, the energy industry is at the critical point of the new and old system, and in the field of new energy such as wind power, market competition is everywhere and is becoming increasingly fierce, which brings the Company new opportunities and challenges.

In this regard, the Company will actively participate in the

national energy transformation strategy of "building new power system with new energy as the main body" to achieve the transformation and upgrading of the manufacturing industry and improve the modernization level of energy industry. The Company will continue to pay attention to and regularly analyze the possible impact of global and domestic macroeconomic trends on the Company so as to develop responsive measures in a timely manner. Meanwhile, the Company will timely adjust management measures to raise its management efficiency, and continuously improve core competitiveness and actively develop its business model in an innovative manner to address all challenges from changes in the markets.

#### Raw Material Prices Fluctuation Risks

The procurement cost of the Company's principal businesses has increased as a result of the rising price of bulk materials. Meanwhile, due to long cycle of some orders undertaken by the Company, the sharp fluctuations of raw material prices have greater impacts on the profitability of the Company.

In this regard, the Company will strengthen the monitoring and management of the quality of economic operation, pay close attention to changes in the operation quality, business structure and profitability of each business segment of the Group, continue to optimize the supply chain management system, further improve our cost control and pricing capabilities of purchase to actively control the risks on the Company from the fluctuations of raw material prices.

#### Exchange Rate Fluctuation Risks

The Company's businesses in power plant equipment, power plant engineering and power transmission and distribution engineering involve export business and their contract amounts are large and usually denominated in US dollars. In the process of production, the Company needs to purchase imported equipment and components and the contracts are also denominated in major foreign currencies, such as US dollars. As the international trade situation has become increasingly severe and the exchange rate of RMB is relatively volatile, the Company's export business may be exposed to the risk of profit and loss fluctuations due to factors such as changes in the exchange rate and capital repatriation.

In this regard, the Company will utilize more hedging instruments, improve the hedging mechanism on the



## **Source of Funding and Indebtedness**

As at 31 December 2022, the Group had an aggregate amount of bank and other borrowings and bonds of RMB39,056 million (2021: RMB44,686 million), representing a decrease of RMB5,630 million as compared with that of the beginning of the year. Borrowings and bonds repayable by the Group within one year amounted to RMB16,660 million, representing a decrease of RMB1,690 million as compared with that of the beginning of the year. Borrowings and bonds repayable after one year amounted to RMB22,396 million, representing a decrease of RMB3,939 million as compared with that of the beginning of the year. As at 31 December 2022, among the Group's bank and other borrowings:

#### (1) Unsecured bank borrowings

borrowings denominated in US dollars amounted to USD368,000 thousand in total (2021: USD295,600 thousand), equivalent to RMB2,562,973 thousand (2021: RMB1,884,659 thousand);

borrowings denominated in Euros amounted to EUR431,090 thousand in total (2021: EUR546,064 thousand), equivalent to RMB3,199,941 thousand (2021: RMB3,942,417 thousand);

borrowings denominated in Hong Kong dollars amounted to HKD525,018 thousand in total (2021: HKD548,501 thousand), equivalent to RMB468,983 thousand (2021: RMB448,454 thousand).

#### (2) Secured bank borrowings

borrowings denominated in US dollars amounted to USD4,502 thousand in total (2021: USD4,502 thousand), equivalent to RMB31,355 thousand (2021: RMB28,703 thousand);

borrowings denominated in Euros amounted to EUR5,180 thousand in total (2021: EUR5,703 thousand), equivalent to RMB38,451 thousand (2021: RMB41,171 thousand).

#### (3) Guaranteed bank borrowings

borrowings denominated in US dollars amounted to USD142,961 thousand in total (2021: USD167,835 thousand), equivalent to RMB995,667 thousand (2021: RMB1,070,064 thousand);

borrowings denominated in Euros amounted to EUR97,500 thousand in total (2021: EUR8,000 thousand), equivalent to RMB723,723 thousand (2021: RMB57,758 thousand).

All other unsecured bank borrowings are denominated in RMB.

As at 31 December 2022, gearing ratio of the Group, which

represents the ratio of the sum of interest-bearing bank borrowings and other borrowings and bonds to the sum of total equity of the shareholders plus interest-bearing bank borrowings and other borrowings and bonds, was 33.08%, representing a decrease of 1.29 percentage points as compared with 34.37% at the beginning of the year.

### **Pledge Assets**

As at 31 December 2022, the Group's bank deposits amounted to RMB927 million (2021: RMB1,402 million), receivable financing with a carrying amount of RMB583 million (2021: RMB123 million), notes receivable with a carrying amount of RMB155 million (2021: RM370 million) and certain property and equipment with a carrying amount of RMB1,975 million (2021: RMB2,095 million) were secured to banks to obtain bank borrowings or credit facilities. Part of the Group's bank borrowings was secured by the Group's long-term receivables, with a carrying amount of RMB1,801 million (2021: RMB2,221 million).

#### **Events After the Date of Financial Statements**

On 29 March 2022, the proposal for profit distribution for 2022 that no dividend will be distributed was considered and approved at the seventy-eighth meeting of the fifth session of the Board and is subject to consideration and approved at the general meeting of the Company.

### **Contingent Liabilities**

Please refer to note 9 to the financial statements for details.

### **Capital Commitments**

Please refer to note 10 to the financial statements for details.

## Use of Proceeds from Financing Activities and Capital Utilization Plan

On 7 November 2017, the Company completed the issue of A shares with an aggregate amount of RMB3 billion to eight specific investors including SEGC (the controlling shareholder of the Company) by way of non-public issuance. Proceeds from the non-public issuance were originally intended to be used to finance the projects including the Emerging Industrial Park Development Project at Gonghe New Road, the Innovative Industry Park Reformation Project at Beinei Road, the



Technology Innovative Park Reformation Project at Jinshajiang Branch Road, and the Industrial Research, Development and Design and High-end Equipment Manufacturing Base Project at Jungong Road. According to the requirements such as adjustments by government authorities to the planning of the relevant areas where the proceeds-funded projects are located, in light of the Company's business development and the change in market conditions and on the principles of satisfying the requirements for use of raised proceeds and reducing the risks associated with the implementation of proceeds-funded projects, as considered and approved at the second meeting of the fifth session of the Board and approved at the 2018 third extraordinary general meeting, 2018 first A share class meeting and 2018 first H share class meeting, the proceeds would not be used to finance the Emerging Industrial Park Development Project at Gonghe New Road, the Technology Innovative Park Reformation Project at Jinshajiang Branch Road and the Industrial Research, Development and Design and High-end Equipment Manufacturing Base Project at Jungong Road. After consideration and approval of the fourth meeting of the fifth session of the Board and the approval of the 2019 first extraordinary general meeting, 2019 first A share class meeting and 2019 first H share class meeting, the Company applied part of the proceeds towards the completed acquisitions of the 100% equity interests in Wujiang Taihu Industrial Wastes Treatment Company Limited (吳江市太湖工業廢棄物處理 有限公司) and the 100% equity interests in Ningbo Hi-Firm Environmental Protection Company Limited (寧波海鋒環保 有限公司). After consideration and approval of the twentieth meeting of the fifth session of the Board and the approval of the 2019 second extraordinary general meeting, 2019 second A share class meeting and 2019 second H share class meeting, the Company adjusted the amount of raised funds used in the Innovative Industry Park Reformation Project at Beinei Road and used part of the raised funds in the project of Shanghai Electric Nantong Central Research Institute, and the remaining raised funds were used in permanent replenishment of working capital.

## Overall Use of Proceeds Raised from the Placement of A Shares

Unit: 100 million Currency: RMB

| Total amount of proceeds  | 30.00           | Total proceeds invested during the year | 0.22  |
|---|-----------------|---|-------|
| Total proceeds used for other purposes instead of the scheduled one(s) Percentage of total proceeds used for other purposes instead of the scheduled one(s) | 27.09<br>90.30% | Total cumulative proceeds invested      | 27.42 |

| Projects with investment commitment   | Project<br>changed or<br>not (including<br>those with<br>partial<br>changes, if any) | amount of<br>proceeds<br>with<br>investment | Total<br>investment<br>after<br>adjustment | Amount<br>invested<br>during the year | Cumulative<br>amount invested<br>as at the end of<br>the<br>Reporting Period | Date of<br>achieving<br>the project's<br>designed<br>serviceable<br>condition | Benefits<br>generated<br>during the<br>year | Achieved the estimated goal or not |
|---|--|---|--|---------------------------------------|--|---|---|------------------------------------|
| Emerging Industrial Park Development<br>Project at Gonghe Xin Road  | Yes  | 10.55                                       | -  | -                                     | -  | -   | N/A   | N/A                                |
| Innovative Industry Park Reformation<br>Project at Beinei Road  | Yes  | 2.26  | 0.66                                       | 0.14                                  | 0.30   | 2022  | N/A   | N/A                                |
| Technology Innovative Park Reformation<br>Project at Jinshajiang Branch Road  | Yes  | 3.28  | -  | -                                     | -  | -   | N/A   | N/A                                |
| Industrial Research, Development<br>and Design and High-end Equipment<br>Manufacturing Base Construction Project<br>at Jungong Road | Yes  | 11.66                                       | -  | -                                     | -  | -   | N/A   | N/A                                |
| Tax, surcharges and other expenses in relation to the restructuring   | No   | 2.25  | 2.10                                       | -                                     | 2.10   | 2018  | N/A   | N/A                                |
| Acquisition of 100% equity interests in<br>Wujiang Taihu Industrial Wastes Treatment<br>Company Limited                             | Yes  | -   | 3.42                                       | -                                     | 3.42   | 2019  | N/A   | N/A                                |
| Acquisition of 100% equity interests in<br>Ningbo Hi-Firm Environmental Protection<br>Company Limited                               | Yes  | -   | 7.56                                       | -                                     | 7.56   | 2019  | N/A   | N/A                                |
| Shanghai Electric Nantong Central<br>Research Institute Project   | Yes  | -   | 7.26                                       | 0.08                                  | 5.19   | 2022  | N/A   | N/A                                |
| Permanent replenishment of working capital  | Yes  | -   | 8.85                                       | -                                     | 8.85   | 2019  | N/A   | N/A                                |
| Total   |  | 30.00                                       | 29.85                                      | 0.22                                  | 27.42  |   |   |                                    |

As considered and approved at the second meeting of the fifth session of the Board of the Company held on 22 October 2018, the 2018 third extraordinary general meeting, 2018 first A share class meeting and 2018 first H share class meeting held on 10 December 2018, Shanghai Electric would no longer use any of the proceeds of RMB2,554 million to finance the Emerging Industrial Park Development Project at Gonghe New Road, the Technology Innovation Park Reformation Project at Jinshajiang Branch Road and the Industrial Research, Development and Design and Highend Equipment Manufacturing Base Project at Jungong Road, including proceeds of RMB2,549 million and interest income on the proceeds of RMB5 million.

As considered and approved at the fourth meeting of the fifth session of the Board of the Company held on 16 November 2018, the 2019 first extraordinary general meeting, 2019 first A share class meeting and 2019 first H share class meeting held on 6 May 2019, the Company proposed to use RMB342 million out of the proceeds to acquire the 100% equity interests of Wujiang Taihu Industrial Wastes Treatment Company Limited (吳江市太湖工業廢棄物處理有限公司) through its wholly-owned subsidiary Shanghai Electric Investment Company Limited ("SEI") from Orient Landscape Group Environmental Protection Limited Company (東方園林集團環保有限公司) ("Orient Landscape") and Taizhou Zongze Equity Investment Management LP (台州宗澤股權投資管理合夥企業(有限合夥)) ("Taizhou Zongze"), and use RMB756 million out of the proceeds to acquire the 100% equity interests of Ningbo Hi-Firm Environmental Protection Company Limited (寧波海鋒環保有限公司) from Orient Landscape and Taizhou Zongze. The Company had completed the abovementioned acquisitions through its wholly-owned subsidiary SEI and supplemented the self-owned funds early invested with the proceeds.

Changes in proceeds-funded project

As considered and approved at the twentieth meeting of the fifth session of the Board of the Company on 27 September 2019, and as considered and approved at the 2019 second extraordinary general meeting, 2019 second A share class meeting and the 2019 second H share class meeting on 14 November 2019, the Company proposed to change the amount of total investment and implementation mode of as well as the amount of proceeds earmarked for the Innovative Industry Park Reformation Project at Beinei Road. The total investment would be adjusted to RMB130 million; a project company would be jointly established by Shanghai Electric Group Property Company Limited (上海電氣集團置業有限公司) ("SEC Property") and Shanghai Yuanying Investment Management Co., Ltd. (上海元盈投資管理有限公司), a controlled subsidiary of Shanghai Guorun Investment and Development Company Limited (上海國潤投資發展有限公司) to function as the implementation entity. The project company has a registered capital of RMB20 million, and is owned as to 60% by SEC Property through its contribution of self-financed funds in the amount of RMB12 million. Proceeds earmarked for the project was reduced from RMB226 million to RMB66 million, which would be provided to SEC Property by the Company through capital contribution, and in turn allocated to the project company by SEC Property by way of entrusted bank loans at an interest of 8% per annum for construction of Innovative Industry Park Reformation Project at Beinei Road. In addition, upon intensive research and deliberation, the Company proposed to appropriate RMB726 million from the RMB1,451 million previously set apart for proceeds-funded projects yet pending for confirmation to invest in the Shanghai Electric Nantong Central Research Institute Project, and use the remaining proceeds of RMB891 million (such funds comprise proceeds of RMB885 million and interest income therefrom of RMB6 million) to replenish working capital permanently.

Upfront investment in the project to be invested through fund raising and replacement of such investment with the proceeds

On 17 April 2018, the Proposal in Relation to the Replacement of the Self-Pooled Upfront Investment in Projects to be Invested Through Fund Raising with the Proceeds was considered and approved at the sixty-fourth meeting of the fourth session of the Board of the Company, which proposed to replace the self-pooled upfront investment in projects to be invested through fund raising with RMB88 million out of the proceeds.

PricewaterhouseCoopers Zhong Tian LLP reviewed the upfront investment in relation to the fund raising through non-public issuance of A shares, and issued the PricewaterhouseCoopers Zhong Tian Te Shen Zi(2018) No.1870 document, i.e., the Report and Verification Report on Upfront Investment with Self-pooled Funds in the Project to be Invested Through Funds Raising. Guotai Junan Securities Co., Ltd. also expressed opinions on the Company's replacement of the self-pooled upfront investment in projects to be invested through fund raising with the proceeds.

Provisional replenishment of working capital with the idle proceeds from fund raising On 22 January 2018, the Proposal in Relation to the Company's Provisional Replenishment of Working Capital with Certain Idle Proceeds from Fund Raising was considered and approved at fifty-ninth meeting of the fourth session of the Board of the Company. It was approved that idle proceeds totaling not more than RMB2 billion would be used to replenish working capital on the condition that funding needs of the projects to be invested through fund raising can be assured and on a provisional basis. The Company utilized the aforesaid proceeds to replenish working capital on 23 January 2018. The Company returned all the above-mentioned proceeds totaling RMB2 billion for the replenishment of working capital to the special account for proceeds on 14 January 2019.

On 18 January 2019, the Proposal in Relation to the Company's Provisional Replenishment of Working Capital with Certain Idle Proceeds from Fund Raising was considered and approved at the sixth meeting of the fifth session of the Board of the Company. It was approved that idle proceeds totaling not more than RMB2.5 billion would be used to replenish working capital on the condition that funding needs of the projects to be invested through fund raising can be assured and on a provisional basis. The Company utilized the aforesaid proceeds to replenish working capital on 21 January 2019 and returned all the above-mentioned proceeds on 9 November 2019.

Reasons for not meeting the schedule

Advance has been made in the application for approval of the project positioning of the Innovative Industry Park Reformation Project at Beinei Road as per requirements under the "50 Guidelines for Cultural and Creative Industries" of Shanghai. Approval from relevant government departments has been obtained for the project positioning, and meeting minutes have been issued. It was originally planned to complete the construction of the project by the end of 2021. Affected by the external environment, and in order to meet the needs of contracted customers for supporting facilities such as water, electricity and gas, the project adjusted the layout plan of certain pipelines and adjusted the construction arrangement, resulting in the failure to complete the construction of the project by the end of 2021. The construction of the project was completed in late 2022 and the project reached its designed serviceable condition. Due to the need to settle the various subcontracts of the project and the impact of the quality guarantee clause in the contracts, the proceeds were not fully utilised by the end of the Reporting Period.

Shanghai Electric Nantong Central Research Institute Project was originally scheduled to be completed by the end of June 2021. Affected by the logistics and supply chain issues in Nantong, the construction of the project was delayed, resulting in the failure in the completion of the project by the end of June 2021. The completion and filing and other relevant procedures for the project were completed in late 2022 and the project reached its designed serviceable condition. Due to the need to settle the various subcontracts of the project and the impact of the quality guarantee clause in the contracts, the proceeds were not fully utilised by the end of the Reporting Period.



## Proposals for Profit Distribution or Transfer of Capital Reserves to Share Capital

As audited by PricewaterhouseCoopers Zhong Tian LLP, the net losses of the Company for 2022 as shown on the financial statements of the Company (not consolidated) prepared in accordance with the PRC GAAP was RMB3,131,640 thousand. The undistributed profits and the dividends payable on ordinary shares amounted to RMB1,905,104 thousand and RMB0 thousand at the beginning of 2022, respectively, and the distributable profits at the end of 2022 amounted to RMB -1,226,536 thousand.

Upon consideration by the Board of the Company, the proposed profit distribution plan for 2022 of the Company is no distribution of profit or conversion of capital reserves into share capital for the year 2022, which is subject to approval at the annual general meeting of the Company.

#### **Final Dividend**

The Board resolved that no final dividend will be distributed for the year ended 31 December 2022, which is subject to approval at the annual general meeting of the Company.

## **Closure of Register of Members**

The Company will notify its shareholders on a later date about the date of the annual general meeting for the year ended 31 December 2022 as well as the corresponding arrangements for suspension of share transfer registration.

### **Contract of Significance**

During the Reporting Period, save as disclosed in this report, neither the Company nor any of its subsidiaries had any contract of significance with its controlling shareholder or its subsidiaries, nor any contract of significance for the provision of services to the Company or any of its subsidiaries by a controlling shareholder or any of its subsidiaries (as defined in Appendix 16 of the Hong Kong Listing Rules).

## **Equity-linked Agreement**

During the Reporting Period, no equity-linked agreements were entered into by the Company or subsisted during or at the end of the year that will or may result in the Company issuing shares, or requiring the Company to enter into any agreement that will or may result in the Company issuing shares.

#### **Donations**

The Group has earnestly performed its social responsibility. The total expenses of the Group for public welfare projects, charity donations, poverty alleviation donations and education sponsorship in 2022 amounted to RMB1.387 million approximately.

## Compliance with Relevant Laws and Regulations

On 5 July 2021, the Company received an investigation notice (Hu Zheng Diao Cha Zi No. 2021-1-028) from the China Securities Regulatory Commission (the "CSRC"). As the Company was suspected to breach the relevant laws and regulations on information disclosure, the CSRC decided to initiate investigation proceedings against the Company in accordance with the Securities Law of the People's Republic of China (the "Securities Law"). In December 2022, the Company received the "Decision of Administrative Penalties" (Hu [2022] No. 29, Hu [2022] No. 31)(《行政處罰決定書》(滬[2022]29號、滬[2022]31號)) from the China Securities Regulatory Commission Shanghai Bureau (the "Bureau"). Regarding to the failure of Shanghai Electric to disclose relevant significant events in a timely manner, pursuant to the Article 197(1) of the Securities Law, the Bureau decided to issue a warning and impose a fine of RMB 2 million to the Company; regarding to the misrepresentation in the 2020 Annual Report of Shanghai Electric, pursuant to the Article 197 (2) of the Securities Law, the Bureau decided to order to correct, issue a warning and impose a fine of RMB 3 million to the Company. Regarding the misrepresentation in 2020 annual report of Shanghai Electric, in accordance with the provision of Article 197 (2) of the Securities Law, the Bureau decided to issue



a warning and impose a fine of RMB 0.5 million to Chen Ganjin, the vice president of the Company.

In January 2023, the Company received the "Decision on Disciplinary Action against Shanghai Electric Group Company Limited and Relevant Responsible Persons" ([2023] No. 3) issued by the Shanghai Stock Exchange, which publicly condemned the Company and Chen Ganjin, the vice president of the Company, and required the Company and its directors, supervisors, and senior management to take effective measures to rectify relevant violations and submit a rectification report to the Shanghai Stock Exchange. As of the issuance date of this report, the Company has completed rectification and submitted the rectification report.

Save as the above matters, as a public company listed in both Mainland China and Hong Kong, the Company has formulated and continuously improved various rules and regulations in strict compliance with the requirements of relevant laws and regulations and normative documents of China and Hong Kong, including the Company Law of the People's Republic of China, the Code of Corporate Governance for Listed Companies in China, the Corporate Governance Code set out in Appendix 14 of the Hong Kong Listing Rules as well as the provisions of the Articles of Association of the Company, to regulate the operations of the Company. The Company is committed to maintaining and improving the Company's good image in the market.

## **Environmental Policy and Performance of the Company**

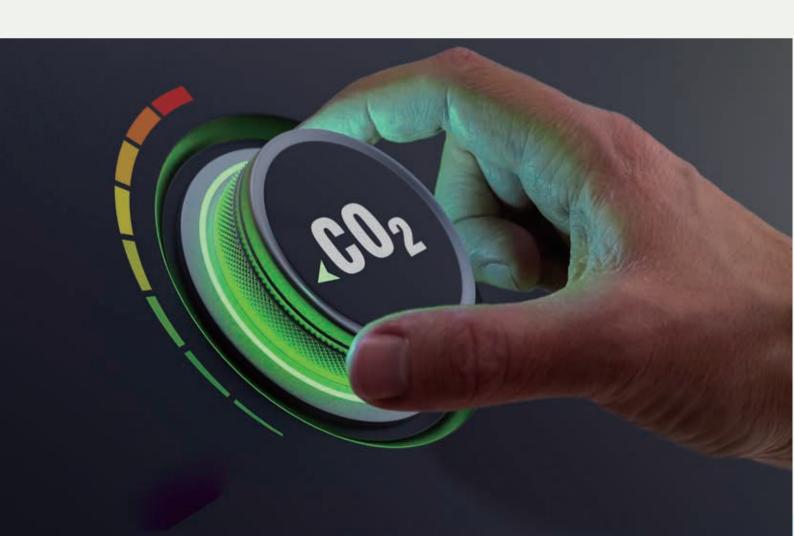
The Company insists on taking sustainable development as a key point in its strategic development, and endeavors to develop circular economy, improve resource utilization efficiency and build up an eco-friendly manufacturing system in pursuit of green development.

The Company has a production safety and environmental protection committee ("the Committee"). The Committee is chaired by the President of the Company and is responsible for the management and operation of the production safety and environmental protection systems of the Group. The Committee members comprise the main responsible persons of the Group's major business divisions and production subsidiaries.

During the Reporting Period, the Company advocated energy conservation and consumption reduction, and reduced pollution to the environment arising from each stage of production process and activities through technological innovation. In addition, the Company provided its suppliers and customers with solutions on factory energy conservation, building energy conservation and air-conditioning energy conservation so as to make its humble contribution in promoting the completion of an efficient, visible and sustainable target for energy conservation for the society. In recent years, on the one hand, the Company has been actively promoting high-end technology and making efforts in developing clean

energy and green technology, trying to deepen its cultivation in technology fields for high efficiency and clean energy, as well as ultra-low emission and near zero emission, and to build up an industrial base; and on the other hand, the Company has been actively developing the environment protection business with a focus on environment protection facilities, integrated treatment of pollutants, and comprehensive utilization of resources. So far, the Company has built up its capability in general contracting in respect of power plant environmental facilities, solid waste treatment, sewage treatment, biomass power generation, and environment protection engineering projects.

During the Reporting Period, the Company has complied with the "Comply or Explain" provision under the Environmental, Social and Governance Reporting Guide as set out in Appendix 27 of the Hong Kong Listing Rules. The Company will separately prepare the environmental, social and governance report for 2022, which will be separately published by the end of April 2023.



## Purchase, Redemption or Sale of Listed Securities of the Company

On 17 January 2022, the resolution in relation to the termination of implementation of the Restricted A Share Incentive Scheme of the Company and the repurchase and cancellation of the restricted shares granted but not yet unlocked was considered and approved at the 2022 first extraordinary general meeting, the 2022 first A share class meeting and the 2022 first H Share Class Meeting of the Company. The Company terminated the Restricted A Share Incentive Scheme and repurchased and cancelled a total of 126,162,000 restricted shares granted but not yet unlocked held by 2,099 participants. The Company completed the procedures for the repurchase and cancellation of the shares at Shanghai Branch of China Securities Depository and Clearing Corporation Limited for the above restricted shares on 17 March 2022.

#### Reserves

Details of the movements in the reserves of the Company and the Group during the year were set out in note 4(51), 4(52), 4(53) to the financial statements and the consolidated statement of changes in equity.

### **Property, Plant and Equipment**

Details of the movements in the property, plant and equipment of the Company and the Group during the year were set out in note 4(22) to the financial statements.

## Directors' Rights to Acquire Shares and Debentures

At no time during the year were rights to acquire

benefits by means of an acquisition of shares or debentures of the Company granted to any Directors or their respective spouse or minor children; or was the Company, its holding company, or any of its subsidiaries or fellow subsidiaries a party to any arrangement to enable the Directors to acquire such rights in any other body corporate.

## **Sufficiency of Public Float**

Based on publicly available information and to the best knowledge of the Directors, the Board confirms that the Company has maintained sufficient public float as at the latest practicable date prior to the issue of this report.

## **Pre-emptive Rights Arrangement**

Under the requirements of the PRC laws and the Articles of Association, the Company's shareholders have no preemptive rights.

## **Tax Relief and Exemption**

The Board are not aware of any tax relief and exemption available to the Shareholders by reason of their holding of the Company's securities.

#### **Leng Weiging**

Chairlady and CEO

# **Significant Events**

The disclosure of the following matter will not, in the Directors' opinion, be harmful to the business of the Company.

# **Connected Transactions and Continuing Connected Transactions**

According to the requirements of the Hong Kong Listing Rules, the connected transactions and continuing connected transactions between the Company and its subsidiaries (the "Group") and their connected persons for the year ended 31 December 2022 are disclosed in detail as follows:

#### **Connected Transactions**

## Disposal of 15.24% Shares in Thyow Technology

In the past two years, due to the impact of rising procurement and construction costs and other factors, Thyow Technology, a controlled subsidiary of the Company, was facing difficulties in operation. In order to improve the sustainable operation capability and profitability of Thyow Technology, the Company originally intended to improve the asset quality of Thvow Technology by injecting 100% equity interest in Shanghai Boiler Works Co. Ltd. (上海鍋爐廠有限公司) into Thyow Technology. On 10 February 2022, the Board considered and approved the relevant resolution, pursuant to which Thvow Technology intended to issue shares to the Company to purchase 100% equity of Shanghai Boiler Works Co. Ltd. (上 海鍋爐廠有限公司) held by the Company, and to raise supporting funds through the non-public issuance of shares to Shanghai Lixin Industrial Co., Ltd. (上海立昕實業有限公司), a consolidated 100% owned subsidiary of SEGC, the controlling shareholder of the Company. However, due to the recent changes in the external market environment, it was highly uncertain to continue to promote the above transaction. After prudent research and analysis and negotiation between the parties to the Transaction, the Company proposed to terminate the asset reorganisation. As the indirect controlling shareholder of Thvow Technology, and to further support the development of Thyow Technology by relying on the resources of SEGC, SEGC planned to acquire the Company's shares in Thyow Technology after due negotiation between the parties.

On 20 June 2022, the Board agreed to terminate the issuance of shares by Thvow Technology to purchase 100% equity of Shanghai Boiler Works Co. Ltd. (上海鍋爐廠有限公司) and to raise supporting funds from the connected parties, and

approved the Company to transfer 132,458,814 shares it held in Thvow Technology to SEGC by way of non-public agreement transfer, at a consideration of RMB4.26 per share, totaling RMB564,274,547.64 (the "Transaction"). On 20 June 2022, the Company and SEGC entered into the Share Transfer Agreement with conditions precedent regarding the Transaction. The Transaction was approved at the EGM of the Company held on 22 July 2022. On 5 December 2022, the Company received the confirmation letter for securities transfer and registration issued by China Securities Depository and Clearing Corporation Limited. The securities transfer and registration procedures of share transfer involved in the Transaction have been completed. As at the end of the Reporting Period, the Company does not hold any equity interest in Thyow Technology, and only holds the voting rights of 131,290,074 shares of Thvow Technology through voting right proxy.



### **Continuing Connected Transactions**

## Continuing Connected Transactions with SEGC

#### Framework sales agreement

The Company entered into framework sales agreement with SEGC on 29 October 2019, pursuant to which the Group agrees to provide electrical engineering products, electrical equipment, and other related services to SEGC and its subsidiaries and associates (the "Parent Group"). Pursuant to the agreement, the annual cap of the relevant sales for the years ended 31 December 2020, 2021 and 2022 is RMB700,000,000, RMB700,000,000 and RMB700,000,000.

The above framework sales agreement was entered into in the ordinary course of business of the Group and is on normal commercial terms. The pricing basis shall be:

 where there is government (including local government) prescribed price, such price shall apply; where there is no such government prescribed price,

- the price shall fall within the band of government guidance price; where there is no such government guidance price,
- the market price shall apply; where there is no market price for a particular service,
- the price as agreed among both parties shall apply.

The term of the framework sales agreement is three years, renewable at the option of the Company for another term of three years by giving three months' notice prior to the expiry of the term and may be terminated by either party to the agreement by giving three months' notice.

The actual sales to the Parent Group for the year ended 31 December 2022 was RMB 293.92 million.

On 19 October 2022, the Company entered into framework sales agreement with SEGC which was approved by the general meeting of the Company. The annual cap of the relevant sales between the Group and the Parent Group for the years ended 31 December 2023, 2024 and 2025 is RMB700,000,000, RMB700,000,000 and RMB700,000,000.



#### **Significant Events**

#### Framework purchase agreement

The Company entered into framework purchase agreement with SEGC on 29 October 2019, pursuant to which the Group agrees to purchase certain component parts, such as turbine blades, coupling, AC motor and emergency trip control cabinet, automatic instrument equipment, other mechanical equipment and raw materials (including copper wires and insulation materials) from the Parent Group. Pursuant to the agreement, the annual cap of the relevant purchases for the years ended 31 December 2020, 2021 and 2022 is RMB500,000,000, RMB500,000,000 and RMB500,000,000.

The above framework purchase agreement was entered into in the ordinary course of business of the Group and is on normal commercial terms. The pricing basis shall be:

- where there is government (including local government)
   prescribed price, such price shall apply; where there is no such government prescribed price,
- the price shall fall within the band of government guidance price; where there is no such government guidance price,
- the market price shall apply; where there is no market price for a particular service,
- the price as agreed among both parties shall apply.

The term of the framework purchase agreement is three years, renewable at the option of the Company for another term of three years by giving three months' notice prior to the expiry of the term and may be terminated by either party to the agreement by giving three months' notice.

The actual purchase from the Parent Group for the year ended 31 December 2022 was RMB228.69 million.

On 19 October 2022, the Company entered into framework purchase agreement with SEGC which was approved by the general meeting of the Company. The annual cap of the relevant purchase between the Group and the Parent Group for the years ended 31 December 2023, 2024 and 2025 is RMB500,000,000, RMB500,000,000 and RMB500,000,000.

#### Framework comprehensive services agreement

The Company entered into framework comprehensive services agreement with SEGC on 29 October 2019, pursuant to which

the Group agrees to provide the Parent Group with certain services including but not limited to informationization, professional consultation and entrusted management. Pursuant to the agreement, the annual cap of the relevant comprehensive services for the years ended 31December 2020, 2021 and 2022 is RMB200,000,000, 200,000,000 and 200,000,000.

The framework comprehensive services agreement was entered into in the ordinary course of business of the Group and is on normal commercial terms. The pricing basis shall be:

- where there is government (including local government) prescribed price, such price shall apply; where there is no such government prescribed price,
- the price shall fall within the band of government guidance price; where there is no such government guidance price,
- the market price shall apply; where there is no market price for a particular service,
- the price as agreed among both parties shall apply.

The term of the framework comprehensive services agreement is three years, renewable at the option of the Company for another term of three years by giving three months' notice prior to the expiry of the term and may be terminated by either party to the agreement by giving three months' notice.

The actual comprehensive services for the Parent Group for the year ended 31 December 2022 was RMB180.77 million.

On 19 October 2022, the Company entered into Provision of Comprehensive Services Framework Agreement and Acceptance of Comprehensive Services Framework Agreement with SEGC which was approved by the general meeting of the Company. The annual cap of comprehensive services provided by the Group to Parent Group for the years ended 31 December 2023, 2024 and 2025 is RMB400,000,000, RMB400,000,000 and RMB400,000,000, and the annual cap of comprehensive services accepted by the Group from the Parent Group for the year ended 31 December 2023, 2024 and 2025 is RMB200,000,000, RMB200,000,000 and RMB200,000,000.

#### Framework financial services agreement

On 29 October 2019, Shanghai Electric Group Finance Company Limited ("Finance Company"), a subsidiary of the Company, entered into various financial services agreements with SEGC, pursuant to which Finance Company provides deposit and loan services to the Parent Group.

These framework financial services agreements were entered into in the ordinary course of business of the Group and are on normal commercial terms. The term of the framework financial services agreements is three years, renewable at the option of the Company for another term of three years by giving three months' notice prior to the expiry of the term and may be terminated by either party to the agreement by giving three months' notice.

The details of individual framework financial service agreement are as follows:

#### Framework deposit agreement

On 29 October 2019, Finance Company entered into a framework deposit agreement with SEGC in relation to the deposit services for the Parent Group provided by Finance Company. Pursuant to the agreement, for the years ended 31 December 2020, 2021 and 2022, the approved annual cap, representing the maximum daily balance of funds (including interests) that may be deposited, is RMB7,500,000,000, RMB7,500,000,000 and RMB7,500,000,000. On 19 October 2022, the Board of the Company proposed to revise the annual cap for maximum daily balance of relevant deposit services for the year ended 31 December 2022 to be RMB11,500,000,000, which took effect from the approval of general meeting of the Company dated 2 December 2022.

The interest rates offered by Finance Company for the deposits placed by the Parent Group shall be:

- subject to the relevant guidelines and regulations of the People's Bank of China ("PBOC"); and
- with reference to the relevant savings rates set by PBOC from time to time and are in line with the market rates.

The actual daily balance of funds from the Parent Group for the year ended 31 December 2022 did not exceed the approved annual cap of RMB11,500,000,000. Besides, the Parent Group received interest income of RMB74.72 million for the deposits from Finance Company for the year ended 31 December 2022.

#### Framework loan agreement

On 29 October 2019, Finance Company entered into a

framework loan agreement with SEGC in relation to the loan and bill discounting services provided by Finance Company and the payment shall be in accordance with the face amount of the instrument. Pursuant to the agreement, for the years ended 31 December 2020, 2021 and 2022, the approved annual cap, representing the maximum daily balance of loans that may be extended and discounted bills that may be purchased (including interests), is RMB7,500,000,000, RMB7,500,000,000 and RMB7,500,000,000. On 19 October 2022, the Board of the Company proposed to revise the annual cap for maximum daily balance of relevant loan and bill discounting services for the year ended 31 December 2022 to be RMB11,500,000,000, which took effect from the approval of general meeting of the Company dated 2 December 2022.

The interest rates offered by Finance Company for all loan services and purchases of discounted bills provided to the Parent Group shall be:

- subject to the relevant guidelines and regulations of the PBOC; and
- with reference to the relevant rates set by PBOC from time to time and are in line with the market rates.

The actual daily balance of outstanding loans and discounted bills from the Parent Group (including interests) in the year ended 31 December 2022 did not exceed the approved annual cap of RMB11,500,000,000. Besides, the Parent Group paid interest of RMB137.25 million, which was derived from loans and discounted bills, to Finance Company for the year ended 31 December 2022.

On 19 October 2022, Finance Company entered into Financial Services Framework Agreement with SEGC which was approved by the general meeting of the Company. Pursuant to the agreement, Finance Company will provide financial services including deposit services, loan and bill discounting services and intermediary business services to the Parent Group. The annual cap of maximum daily balance of deposit services of Parent Group for the year ended 31 December 2023, 2024 and 2025 is RMB15,000,000,000, RMB15,000,000,000 and RMB15,000,000,000, the annual cap of maximum daily balance of loan and bill services of the Parent Group for the year ended 31 December 2023, 2024 and 2025 is RMB15,000,000,000, RMB15,000,000,000 and RMB15,000,000,000, and the annual cap of intermediary business services of the Parent Group for the year ended 31 December 2023, 2024 and 2025 is RMB20,000,000, RMB20,000,000 and RMB20,000,000.

#### **Significant Events**



#### Continuina Connected Transactions with Siemens

On 23 January 2009, the Company entered into a framework purchase and sales agreement with Siemens Aktiengesellschaft ("Siemens", who indirectly owns more than 10% of the registered capital in certain subsidiaries of the Company), pursuant to which the Group would purchase certain power generation, distribution and transmission related electrical and mechanical components from Siemens and its subsidiaries and associates ("Siemens Group") to be used in various projects and products of the Group, and the Group would sell certain power generation equipment and related components to Siemens Group

The above framework purchase and sales agreement expired on 23 January 2012. In October 2011, the Company applied to the Stock Exchange for the waiver from strict compliance with Rule 14A.35 (1) of the Hong Kong Listing Rules, in accordance with which, the Company would be required to enter into a written agreement with Siemens in respect of the renewal continuing connected transactions. The waiver

was conditionally granted by the Stock Exchange on 4 November 2011, subject to and on the waiver conditions. On 8 December 2011, the Board of directors approved the waiver of written framework agreement and the renewal continuing connected transactions. On 29 May 2012, the independent shareholders of the Company approved the waiver of written framework agreement and the renewal continuing connected transactions.

In January 2015, the Company applied for exemption in strictly following the Hong Kong Listing Rules 14A.35(1) which provides that the Company shall enter into a framework agreement with Siemens on renewal continuing connected transactions. The waiver was conditionally granted by the Stock Exchange on 10 February 2015, subject to and on the waiver conditions, and the framework agreement and the updated annual caps of continuing connected transactions were approved by the Board.

In August 2017, the Company applied for exemption in strictly following the Hong Kong Listing Rules 14A.34 and 14A.51

which provides that the Company shall enter into a framework agreement with Siemens on renewal continuing connected transactions. The waiver was conditionally granted by the Stock Exchange on 14 September 2017 subject to and on the waiver conditions, and the framework agreement and the updated annual caps of continuing connected transactions were approved by the Board.

The Company will continuously enter into written agreement for updated continuing connected transactions and the cap of the updated continuing connected transactions will be priced according to the following pricing strategy now and in the future:

in respect of the purchase transactions where the components and/or technologies are generally transmission and distribution equipment), market price, which is determined by reference to the prevailing market rates for similar or the same components and/or technologies available on an arm's length basis from independent third parties, shall be considered for the consideration of the continuing connected transactions to be determined. The marketing departments of the relevant subsidiaries of the Company have been obtaining and will continue to obtain price quotations from suppliers in the market (including both independent suppliers and Siemens) once customers and will choose the supplier who provides the most favourable terms (especially the lowest price per unit of the same quality). The marketing department of the relevant subsidiaries will compare the price quotations from Siemens with at least two price quotations from independent suppliers before making the commercial decision. The internal control department of the relevant subsidiaries has conducted and will continue to conduct annual review to make sure the abovementioned procedure has been complied with throughout the year. During the past three years, the Company has purchased the same products provided by the Siemens Group from more than two independent suppliers every year and expects to stick to such practice if there is no material change to the current market conditions. With the access to the independent suppliers in the market from time to time, the Company has the opportunity to learn the market conditions on a timely basis and make an informed commercial decision; and

in respect of the purchase transactions where the components and/or technologies can only be provided by the Siemens Group due to its unique technology (mainly used in power equipment) while similar components and/or technologies provided by other suppliers currently do not match well with the Company's certain power equipment which renders the contemporaneous quotations from independent third parties not available, the Group may refer to (i) prices of relevant transactions for the last year, (ii) market trend of the prices for similar components and/or technologies domestically and internationally, which has been and will be assessed by the marketing department of the relevant subsidiaries based on the public information in the fourth quarter of every year and (iii) business plan of the Group, and negotiate with the Siemens Group in good faith. With the historical purchase price as a benchmark price and the roughly estimated percentage of the increase or decrease of the market prices for similar components and/or technologies domestically and internationally, the Company should be able to assess the fairness and reasonableness of price quotations from the Siemens Group and make an informed commercial decision based on the market information to the largest extent possible.

On 6 October 2020, the Company applied to the Stock Exchange for the waiver from strict compliance with Rule 14A.34 and Rule 14A.51 of the Hong Kong Listing Rules, in accordance with which, the Company would be required to enter into a written framework agreement with Siemens in respect of the continuing connected transactions. The waiver was conditionally granted by the Stock Exchange on 15 October 2020, subject to the fulfilment and achievement of the waiver conditions by the Company. On 15 October 2020, the Board of the Company approved the annual caps of the continuing connected transactions between the Company and the Siemens Group for the three years ending 31 December 2023. The approved annual caps of the relevant purchases for the three years ended 31 December 2023 are RMB 4,000,000,000, RMB 3,500,000,000 and RMB 3,000,000,000 and the approved annual cap of the relevant sales for the three years ended 31 December 2023 is RMB 300,000,000, RMB 300.000,000 and RMB 300.000.000.

For the year ended 31 December 2022, the actual purchases from the Siemens Group by the Group were RMB300.49 million and the sales of the Group to the Siemens Group is RMB123.83 million

#### **Significant Events**

## Framework Purchase Agreement with Mitsubishi Electric

Mitsubishi Electric Corporation ("Mitsubishi Electric") holds more than 10% of the equity interest in Shanghai Mitsubishi Elevator Co., Ltd. ("SMEC"), a subsidiary of the Company. Mitsubishi Electric Shanghai Mechanical & Electrical Elevator Co., Ltd. ("MESMEE") is held as to 40% by Shanghai Mechanical & Electrical Industry Co., Ltd., a 48.81% owned subsidiary of the Company, 40% by Mitsubishi Electric and 20% by Mitsubishi Electric Building Techno-service Co., Ltd., a wholly-owned subsidiary of Mitsubishi Electric.

Pursuant to the agreement, the annual cap of the purchases for the years ended 31 December 2020, 2021 and 2022 are all RMB3,500,000,000. The price of products to be purchased from MESMEE is determined principally at arm's length by commercial negotiations in accordance with general principles of fairness and reasonableness with reference to the market price. The term of the framework purchase agreement is three years commencing on 1 January 2020, renewable at the option of the Company by giving three months' notice prior to the expiry of the agreement.

The actual purchases from MESMEE by the Group for the year ended 31 December 2022 were RMB2,204.82 million.

On 19 October 2022, SMEC entered into purchase framework agreement with MESMEE which was approved by the general meeting of the Company. The annual cap of the relevant purchase between SMEC and MESMEE for the years ended 31 December 2023, 2024 and 2025 is RMB3,000,000,000, RMB3,000,000,000, and RMB3,000,000,000.

#### Framework Sales Agreement with SMEPC

State Grid Shanghai Municipal Electric Power Company ("SMEPC") hold more than 10% equity interest of Shanghai Electric Transmission and Distribution Group Co., Ltd., a subsidiary of the Company, and purchases transmission and distribution products from the Group since 2012.

As the Company devotes to increase sales and profits of transmission and distribution products, the company anticipated that the Group would continuously trade with SMEPC Group over the next couple of years. Therefore, in

February 2015, the Company applied to the Stock Exchange for the waiver from strict compliance with Rule 14A.34 and Rule 14A.51 of the Hong Kong Listing Rules, in accordance with which, the Company would be required to enter into a written framework agreement for continuing connected transactions. The waiver was conditionally granted by the Stock Exchange on 22 April 2015 subject to and on the waiver conditions. On 24 April 2015, the Board of the Company approved the waiver of entering into framework agreement and the annual caps of continuing connected transactions.

In July 2017, the Company applied to the Stock Exchange for the waiver from strict compliance with Rule 14A.34 and Rule 14A.51 of the Hong Kong Listing Rules, in accordance with which, the Company would be required to enter into a written framework agreement for continuing connected transactions. The waiver was conditionally granted by the Stock Exchange on 9 August 2017 subject to and on the waiver conditions. On 30 October 2017, the Board of the Company approved the waiver of entering into framework agreement and the annual caps of continuing connected transactions. On 29 April 2019, the Board of the Company suggested to revise the annual caps of continuing connected transactions.

As the Company needs to take part in open, strict and independent bidding process in order to obtain the orders and enter into each of the Continuing Connected Transactions, the Company will adopt the following methods and procedures to ensure that the bidding price is fair and reasonable:

- the sales department of the relevant subsidiary of the Group will collect all winning prices of the target product (including prices of other bid winners) in the preceding year and calculate an average winning price;
- the financial department of the relevant subsidiary of the Group will use such average winning price to calculate the profit margin based on its own costs;
- the sales department of the relevant subsidiary of the Group will propose a bidding price which represents a profit margin ranging from 5% to 10% upwards or downwards from the base margin based on the competition status for a particular bidding; and
- the management (refers to the senior general manager responsible for daily operations, usually composed of the general manager, the deputy

general manager in charge of sales, the person in charge of finance and the person in charge of the sales department, etc.) of the related subsidiaries of the Group will review and decide whether or not to approve such bidding price according to market conditions.

On 6 October 2020, the Company applied to the Stock Exchange for the waiver from strict compliance with Rule 14A.34 and Rule 14A.51 of the Hong Kong Listing Rules, in accordance with which, the Company would be required to enter into a written framework agreement with SMEPC in respect of the continuing connected transactions. The waiver has been conditionally granted by the Stock Exchange on 15 October 2020 subject to and on the waiver conditions. On 15 October 2020, the Board of the Company approved the waiver of entering into framework agreement and annual caps of the continuing connected transactions between the Company and the SMEPC Group for the three years ending 31 December 2023. The approved annual caps of the relevant sales for the three years ended 31 December 2023 are RMB 6,000,000,000, RMB 6,200,000,000 and RMB 6,500,000,000.

The sales of the Group to the SMEPC Group is RMB3,927.28 million for the year ended 31 December 2022.

### **Significant Related Party Transactions**

The Company confirms that it has complied with the requirements in accordance with Chapter 14A of the Hong Kong Listing Rules in respect of the above connected transactions. Save as disclosed above, significant related party transactions which do not constitute the connected transactions under the Hong Kong Listing Rules during the year have been disclosed in note 8 to the annual financial statements prepared in accordance with the PRC Accounting Standard for Business Enterprises.

### **Other Major Events**

### Litigations in Relation to SECT

Shanghai Electric Communication Technology Co., Ltd. ("SECT"), a controlled subsidiary of the Company, filed petitions to the court in 2021, to request Beijing Capital Group Co., Ltd (北京首都創業集團有限公司) ("Capital Company") and Beijing

Capital Group Company Limited Trading Branch (北京首都 創業集團有限公司貿易分公司) ("Capital Trading") to settle the payment for goods in a total amount of approximately RMB1,193 million and the damages for breach of contract. In July 2022, SECT received the civil ruling issued by Shanghai No. 2 Intermediate People's Court (上海市第二中級人民法院) on the cases of SECT suing Capital Company and Capital Trading. The court held that after review, the facts involved in these cases were related to the contract fraud cases of Capital Company, which were filed and investigated by the Beijing Municipal Public Security Bureau. The court also held that the trial results of these cases must be based on the trial results of the contract fraud cases, and ruled that the cases be stayed.

SECT filed petitions to the court in 2021, to request Harbin Industrial Investment Group Co., Ltd. (哈爾濱工業投資集團有限公司) ("Harbin Industrial Investment") to settle the payment for goods in a total amount of approximately RMB392,973.5 thousand and the damages for breach of contract. In December 2021, SECT received the first - instance judgment regarding the cases of SECT suing Harbin Industrial Investment. In July 2022, SECT received the notice of response and the civil ruling issued by Shanghai Higher People's Court (上海市高級人民法院). The court held that after review, the cases should be based on the outcomes of other civil and commercial cases involving Sui Tianli and others and thus the appeal cases of Harbin Industrial Investment were ruled to be stayed by the court.

SECT filed petitions to the court in 2021, to request Fortune Industrial Corp. (富申實業公司) ("Fortune Industrial") to settle the payment for goods in a total amount of approximately RMB787,956.2 thousand and the damages for breach of contract. In November 2021, Fortune Industrial sued SECT for the return of the advance and payments for goods in a total amount of approximately RMB97,741.8 thousand. During the period from May to June 2022, Shanghai Yangpu District People's Court (上海市楊浦區人民法院) ruled that the cases regarding SECT suing Fortune Industrial were stayed. In July 2022, SECT received the civil ruling issued by Shanghai Yangpu District People's Court (上海市楊浦區人民法院) on the cases of Fortune Industrial suing SECT. The court held that after review, the cases should be based on the outcomes of other cases, which had not been concluded yet, and ruled that the cases are stayed.

#### **Significant Events**

SECT filed petitions to the court in 2021, to request Nanjing Changjiang Electronics Group Co., Ltd. (南京長江電子信息產業集團有限公司) ("Nanjing Changjiang") to settle the payment for goods in a total amount of approximately RMB2,089,000.8 thousand and the damages for breach of contract. During the period from May to June 2022, Shanghai Yangpu District People's Court (上海市楊浦區人民法院) ruled that the cases regarding SECT suing Nanjing Changjiang were stayed.

Jiangsu Zhongli Group Co., Ltd. (江蘇中利集團股份有限 公司) ("Jiangsu Zhongli") brought a claim against SECT to request payment for goods, the corresponding interest and attorney's fee for litigation in a total amount of approximately RMB545,075.7 thousand in 2021. In July 2022, SECT received notice of response, civil complaint and civil ruling and other materials from Shanghai Yangpu District People's Court (上海 市楊浦區人民法院). Jiangsu Zhongli applied for withdrawal of the lawsuits and re-litigated against SECT for payment for goods, the corresponding interest and attorney's fee for litigation in a total amount of approximately RMB544,348 thousand. Shanghai Yangpu District People's Court (上海市楊 浦區人民法院), after consideration and review, held that as the cases had to be based on the outcomes of other case, and as the other case had not yet been concluded, the cases met the circumstances for statutory stay of litigation and ruled that the cases were stayed.

## Material Litigations and Arbitrations in Relation to the Sasan Project in India

In June 2008, the Company and Reliance Infra Projects (UK) Limited (the "Reliance UK"), entered into the Equipment Supply and Service Contract (the "Contract") with a contracted amount of USD1,311,000,000, pursuant to which, the Company (as the supplier) shall provide major equipment and relevant services for the project of Sasan 6\*600MW Ultra Large Supercritical Coalfired Power Station in India, Reliance Infrastructure Limited (the "Reliance") issued the letter of guarantee for the payment obligations of Reliance UK under the Contract, and Sasan Power Limited (the "Sasan Power") owned and operated the power station. Since Reliance UK still failed to pay for the equipment purchased and other relevant payables to the Company after the project commenced commercial operation for several years, the Company filed to the Singapore International Arbitration Centre for arbitration in December 2019, requiring Reliance to pay for equipment purchased and other relevant payables in the amount of at least USD135,320,728.42 to the Company as agreed in the letter of guarantee issued by Reliance for Reliance UK (the "First Arbitration").

In August 2021, the Company received a complaint filed and sent by Sasan Power in the Bombay High Court of India. According to the complaint, Sasan Power sued Reliance, Reliance UK and the Company, requesting that the three respondents bear joint liability and compensate it for losses of 24,511,908,372 rupees (approximately RMB2.133 billion) (the "First Litigation"). In December 2021, the Company received a notice of acceptance for an arbitration brought by Reliance UK against the Company issued by the Singapore International Arbitration Center, pursuant to which Reliance UK request the Company to compensate for its losses of approximately USD388.75 million related to the contract. Reliance UK also believed that the letter of performance quarantee was unreasonably released and request the Company to issue a letter of performance guarantee in the amount of approximately USD120.175 million to guarantee its claims (the "Second Arbitration").

In July 2022, the Company's attorneys were informed through public information that the First Litigation has been disposed by the Bombay High Court of India on the grounds that the plaintiff did not meet the requirements for filing a complaint and failed to amend the complaint within the prescribed time.

In December 2022, the Company received the award issued by Singapore International Arbitration Centre for the First Arbitration, which orders Reliance to pay the Company the sum of USD146,309,239.27.

## Gratuitous Transfer of Part of the Company's Shares by Controlling Shareholder

On 15 November 2021, SEGC entered into the Agreement on the Gratuitous Transfer of 5% shares of Shanghai Electric Group Company Limited from SEGC to Shanghai State-owned Capital Investment Co., Ltd. with Shanghai State-owned Capital Investment Co., Ltd., a wholly-owned subsidiary of Shanghai State-owned Assets Supervision and Administration Commission, to gratuitously transfer 785,298,555 A Shares (representing 5.04% of the Company's total share capital of 15,579,809,092 shares as at the end of the Reporting Period) to Shanghai State-owned Capital Investment Co., Ltd. The share transfer registration of the Gratuitous Transfer of the Shares was completed on 11 July 2022.

## Pledge of Shares of the Company by Controlling Shareholder

SEGC completed the offering of 2020 Non-Public Issuance

of Exchangeable Corporate Bonds (Phase I) (the "20 Electric EB") using the A shares of the Company held by SEGC and its yields as the exchange objects on 3 February 2020, and completed registration procedures for the share pledge of 1,120,000,000 A shares of the Company on 15 January 2020. SEGC completed the offering of 2021 Non-Public Issuance of Exchangeable Corporate Bonds (Phase I) using the A shares of the Company held by SEGC and its yields as the exchange objects on 23 March 2021, and completed registration procedures for the share pledge of 254,545,455 A shares of the Company on 15 March 2021. In accordance with the maintenance guarantee ratio and additional guarantee mechanism set out in the "2021 Non-Public Issuance of Exchangeable Corporate Bonds by Shanghai Electric (Group) Corporation (Phase I) Offering Memorandum (for eligible investors)", SEGC completed registration procedures for the supplemental share pledge of 30,000,000 A shares of the Company on 17 August 2021.

20 Electric EB was delisted on 3 February 2023 and had been exchanged for a total of 435,478,937 shares of the Company. SEGC completed the pledge release procedures for the 684,521,063 tradable shares of the Company in the "Shanghai Electric (Group) Corporation - Shanghai Electric (Group) Corporation 2020 Non-Public Offering of Exchangeable Corporate Bonds (Phase 1) Designated Shares Pledge Account" on 7 February 2023 at China Securities Depository and Clearing Corporation Limited. After the pledge release, the number of the remaining pledged shares of SEGC was 284,545,455 shares.

# Material Events After the Reporting Period

## Disposal of 100% Equity Interest in Xinji Company

On 14 March 2023, the Board considered and approved the relevant resolution, pursuant to which, the Company was granted approval to transfer the 100% equity interest it held in Shanghai Xinji Machine Tool Co., Ltd.("Xinji Company") to SEGC, at a consideration of the appraisal value of the total shareholders' equity in Xinji Company of RMB686,915,804.11, which is subject to the final equity valuation result filed with state-owned assets authorities.

## Proposed Acquisition of Partial Equity Interests in Subsidiaries

On 29 March 2023, the Board considered and approved the relevant resolution, pursuant to which, the Company proposed to enter into the Agreements on Equity Transfer with ICBC Financial Assets Investment Co., Ltd., BOCOM Financial Asset Investment Company Limited and BOC Financial Asset Investment Co., Ltd. to acquire the 48.18% equity interests in Shanghai Electric Industrial Investment Co., Ltd., 39.42% equity interests in Shanghai Electric Group Shanghai Machinery Co., Ltd., 48.88% equity interests in Shanghai Institute of Mechanical & Electrical Engineering Co., Ltd. and 42.20% equity interests in Shanghai Electric Nuclear Power Equipment Corporation Ltd. The total equity transfer price is RMB 10.004 billion.



### **Significant Events**

### **Appointment, Removal and Remuneration of Auditors**

Unit: million; Currency: RMB

#### **Currently appointed**

Name of the PRC auditor

Remuneration of the PRC auditor

PricewaterhouseCoopers Zhong Tian LLP

24.04

Number of years audited by the PRC auditor

9

|                                      |                                       | Remuneration |
|--------------------------------------|---------------------------------------|--------------|
| Auditor for Internal controls review | PricewaterhouseCoopers Zhong Tian LLP | 2.48         |

### **AUDITOR'S REPORT**

### To the Shareholders of Shanghai Electric Group Co., Ltd.,

#### **OPINION**

#### What we have audited

We have audited the accompanying financial statements of Shanghai Electric Group Co., Ltd. (hereinafter "Shanghai Electric Group"), which comprise:

- the consolidated and company balance sheets as at 31 December 2022;
- the consolidated and company income statements for the year then ended;
- the consolidated and company cash flow statements for the year then ended;
- the consolidated and company statements of changes in shareholders' equity for the year then ended; and
- notes to the financial statements.

#### Our opinion

In our opinion, the accompanying financial statements present fairly, in all material respects, the consolidated and company's financial position of Shanghai Electric Group as at 31 December 2022, and their financial performance and cash flows for the year then ended in accordance with the requirements of Accounting Standards for Business Enterprises ("CASs").

#### **BASIS FOR OPINION**

We conducted our audit in accordance with China Standards on Auditing ("CSAs"). Our statement under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

We are independent of Shanghai Electric Group in accordance with the Code of Ethics for Professional Accountants of the Chinese Institute of Certified Public Accountants ("CICPA code"), and we have fulfilled our other ethical responsibilities in accordance with CICPA code.

#### **KEY AUDIT MATTERS**

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters. Key audit matters identified in our audit are summarised as follows:

- Revenue recognition relating to sales of goods, construction services and provision for onerous contracts
- Impairment provision of trade acceptance notes receivable, accounts receivable, contract assets, finance lease receivables and loans and advances
- Impairment assessment on goodwill

#### **Key Audit Matters**

# Revenue recognition relating to sales of goods, construction services and provision for onerous contracts

Referring to Note 2(22), Note 2(23), Note 2(32) (b), Note 4(42)(b) and Note 4(55) to the financial statements.

In 2022, Shanghai Electric Group's consolidated total revenue was RMB117,623,118 thousand, of which approximately 73% was resulted from sales of goods and approximately 15% was resulted from construction services. In 2022, the amount of provision for onerous contracts charged to the consolidated income statement was RMB1,783,519 thousand.

When the customers gain control over the relevant goods or services, Shanghai Electric Group recognises revenue in accordance with the amount of consideration which Shanghai Electric Group expects to be entitled to receive. Factors such as commodity prices and industry competition can have a significant impact on the gross profit of related contracts.

#### How our audit addressed the Key Audit Matter

For sales of goods, we obtained an understanding, evaluated the design and tested the operating effectiveness of the key controls in respect of management's sales transactions from order approval to sales recording, as well as cash collection of accounts receivable.

We discussed with management and understood the revenue recognition policy for sales of goods of Shanghai Electric Group. By inspecting sales contracts on a sample basis, we analysed and evaluated whether the point of time when control transfers was consistent with the relevant accounting policies disclosed in the notes to the consolidated financial statements.

#### How our audit addressed the Key Audit Matter

# Revenue recognition relating to sales of goods, construction services and provision for onerous contracts (Continued)

We focused on revenue recognition relating to sales of goods, construction services and provision for onerous contracts and identified these as key audit matters based on the following reasons.

The focus on the revenue from sales of goods is due to its huge volume, large number of customers involved with goods distributed to many different areas. The amount of sales of goods recognised has a significant impact on the financial statements. Therefore, we need to deploy significant audit resources to execute the necessary audit procedures.

The focus on the revenue relating to construction services and provision for onerous contracts is due to the significant estimations and judgements involved. Shanghai Electric Group adopted the percentage of completion method to account for the revenue relating to construction services. Except for the revenues of a portion of contracts that were recorded by reference to the proportion of completed certified value to total contract value as the basis to estimate the progress, the revenues for the majority of contracts were recognised by reference to the proportion of costs incurred to date to the estimated total costs of the relevant contracts.

Furthermore, we tested revenue from sales of goods on a sample basis by performing the following procedures:

- examined the relevant supporting documents, including customer orders, sales contracts, goods delivery notes, customers' acceptance notes, invoices, etc.;
- tested sales transactions recorded before and after the balance sheet date by tracing to the supporting documents including the relevant customers' acceptance notes, etc. to assess whether revenue was recognised in the correct reporting periods.

For revenue relating to construction services and provision for onerous contracts, we obtained an understanding of management's internal control and assessment process of recording contract revenue, contract costs and the estimated unavoidable cost of the onerous contracts. We assessed the inherent risk of material misstatement by considering the degree of estimation uncertainty and the level of other inherent risk factors (such as their complexity, subjectivity, variability and sensitivity to management bias), and tested the operating effectiveness of key controls, including the controls related to record of the actual cost incurred and estimation of the total contract costs.

We compared the actual total costs of completed projects to management's prior estimation of projected total contract costs on a sample basis to assess management's historical estimation accuracy.

# Revenue recognition relating to sales of goods, construction services and provision for onerous contracts (Continued)

Meanwhile, management of Shanghai Electric Group assessed whether the unavoidable contracts costs to fulfil contractual obligations exceeded the economic benefits expected to be received at balance sheet date, and set aside the provision for the onerous contracts based on the estimated least net cost of exiting from the contracts. We focused on revenue recognition relating to construction services and provision for onerous contracts due to the significant estimations and judgements involved in the estimation of the total contract costs, including existing or potential unpredictable expenditures to be incurred before completion or delivery. The estimations are subject to high degree of uncertainty and subjectivity.

#### How our audit addressed the Key Audit Matter

We obtained the analyses on revenue and cost relating to construction services calculated by managements and agreed the total amount to the sales and operating cost ledgers. Meanwhile, we obtained the schedule of onerous contracts prepared by management and checked the mathematical accuracy of the calculation of the analyses on revenue and cost relating to construction services and the schedule of onerous contracts.

For the revenue of construction services recognised by reference to the proportion of completed certified value to total contract amount, we tested the completed certified value on a sample basis by performing the following procedures:

- obtained the certified value confirmed by the customers, the certifiers and Shanghai Electric Group; and
- sent the confirmations to the customers to verify the completed certified value.

For the revenue of construction services recognised by reference to the proportion of costs incurred to date to the estimated total costs of the relevant contracts, we tested the costs incurred on a sample basis by performing the following procedures:

- examined the supporting documents, including the contracts, invoices, equipment acceptance documents, progress confirmation slips, etc.; and
- tested the actual costs incurred before and after the balance sheet date by tracing to the supporting documents, including the equipment acceptance documents, progress confirmation slips, etc., to assess whether the actual costs incurred were recognised in the correct reporting periods.

#### How our audit addressed the Key Audit Matter

Revenue recognition relating to sales of goods, construction services and provision for onerous contracts (Continued)

Furthermore, for the revenue of construction services recognised by reference to the proportion of costs incurred to date to the estimated total costs of the relevant contracts together with the onerous contracts asserted by management, we tested the estimated total costs of such contracts on a sample basis by performing the following procedures:

- checked the components of the estimated total costs to the supporting documents, including purchase contracts, to identify any missing cost components;
- assessed the reasonableness of the estimated total costs through discussions with the project engineers and lawyers and reviewed the supporting documents;
- assessed the reasonableness of the estimated total contract cost by comparing the estimated total contract cost with the actual total costs for similar completed projects.

We recalculated the percentage of completion and the estimated gross profit recognised in the current period to assess the accuracy of revenue recognition relating to construction services.

Based on the above, we considered that management's estimations and judgements applied in the revenue recognition relating to sales of goods, construction services and provision for onerous contracts were supported by the evidences obtained and procedures performed.

#### How our audit addressed the Key Audit Matter

Impairment provision of trade acceptance notes receivable, accounts receivable, contract assets, finance lease receivables and loans and advances

Referring to Note 2(9), Note 2(32)(a), Note 4(5), Note 4(6), Note 4(12), Note 4(14), Note 4(15)(a), Note 4(17)(a), Note 4(29) and Note 13(2) to the financial statements

As at 31 December 2022, the net carrying amount of Shanghai Electric Group's trade acceptance notes receivable was RMB2,506,634 thousand, after netting off the accumulated provision for impairment of RMB1,111,947 thousand. Accounts receivable as at the same date amounted to RMB38,279,969 thousand, after netting off the accumulated provision for impairment of RMB17,195,975 thousand. Contract assets as at the same date amounted to RMB34,848,049 thousand, after netting off the accumulated provision for impairment of RMB1,464,194 thousand.

We obtained an understanding of management's internal control and assessment process in relation to the impairment provision of trade acceptance notes receivable, accounts receivable, contract assets, finance lease receivables, and loans and advances. We assessed the inherent risk of material misstatement by considering the degree of estimation uncertainty and the level of other inherent risk factors (such as their complexity, subjectivity, variability and sensitivity to management bias), and tested the operating effectiveness of key controls.

By comparing the actual write-offs or losses of trade acceptance notes receivable, accounts receivable, contract assets and finance lease receivables with the provision for bad debts accrued in previous years, we evaluated the reliability of management's policies and historical judgements adopted in estimating the provision for bad debts and impairment.

We performed the following procedures on assessing expected credit loss ( "ECL" ) of trade acceptance notes receivable, accounts receivable and contract assets:

- for trade acceptance notes receivable, accounts receivable and contract assets with significantly different credit risk characteristics and occurrence of credit impairment, we performed the following procedures:
  - evaluated the criteria and rationality of management's judgement that trade acceptance notes receivable, accounts receivable and contract assets are featured with significantly different credit risk characteristics;
  - obtained the expected cash flow distribution prepared by management based on operating model for contract counterparties under different situations, and examined the accuracy of the classification of these counterparties on a sample basis;

#### How our audit addressed the Key Audit Matter

Impairment provision of trade acceptance notes receivable, accounts receivable, contract assets, finance lease receivables and loans and advances(Continued)

Shanghai Electric Group provided for impairment of trade acceptance notes receivable, accounts receivable and contract assets based on the ECL during lifetime.

For trade acceptance notes receivable, accounts receivable and contract assets with significantly different credit risk characteristics and occurrence of credit impairment, management of Shanghai Electric Group evaluated the distribution of expected cash flows under multiple scenarios based on historical credit loss experience, operating model, current situations and forecasts of future conditions of contract counterparties under different situations, taking into account the professional legal advice from external lawyers and the asset preservation related to the litigation, and made corresponding provision for ECL according to ECL rate and the related probability weight under different scenarios.

For the trade acceptance notes receivable, accounts receivable and contract assets without occurrence of credit impairment or the ECL cannot be estimated for an individual financial asset at a reasonable cost, Shanghai Electric Group grouped accounts receivable in accordance with credit risk characteristics and measured the ECL based on groups. For the trade acceptance notes receivable, accounts receivable and contract assets in groups, Shanghai Electric Group made reference to the historical experience of credit losses, combining with the current situation and forecast of economic situation in the future, and prepared the model which refers to the days overdue and rate of the ECL during lifetime in order to measure the ECL.

- evaluated the rationality of management's assumptions of expected cash flow distribution based on operating model, and ECL rate and related probability weight under different scenarios according to historical credit loss experience of contract counterparties, statistics from third parties, open market disclosures, the latest developments in litigations provided by external lawyers and the asset preservation related to the litigation, etc.;
- evaluated the results of management's sensitivity analysis using reasonably possible changes of the relevant key parameters;
- recalculated the ECLs after adjusting the historical rates of default loss using forward looking factors.
- For the model used by management to calculate ECLs in groups, we performed the following procedures:
  - Evaluated the reasonableness of commercial acceptance bill receivable, account receivable and contract asset portfolio division and the measurement method of the expected credit loss model;
  - tested on a sample basis the accuracy of the historical credit default data used in the model to assess the rate of historical default loss:
  - reviewed the appropriateness of the economic indicators, economic scenarios and weights selected by management by assessing the historical correlation between asset portfolios and economic indicators, and verified the economic indicators adopted in the model against external data;
  - evaluated the results of management's sensitivity analysis of the forward-looking factors using reasonably possible changes of the relevant key parameters;

advances(Continued)

# Impairment provision of trade acceptance notes receivable, accounts receivable, contract assets, finance lease receivables and loans and

As at 31 December 2022, the net carrying amounts of Shanghai Electric Group's loans and advances and finance lease receivables were RMB6,383,634 thousand and RMB4,095,306 thousand, respectively, after netting off accumulated provision for impairment of RMB485,193 thousand and RMB1,371,524 thousand, respectively.

Shanghai Electric Group used a three-stage impairment model to calculate ECL by assessing if the credit risk has significantly increased since initial recognition for finance lease receivables and loans and advances. For the finance lease receivables and loans and advances with occurrence of credit impairment, and other finance lease receivables and loans and advances subject to separate assessment for impairment provision, ECL was separately determined and provision for bad debts was accrued individually. For the finance lease receivables and loans and advances without occurrence of credit impairment or the ECL cannot be estimated for an individual financial asset at a reasonable cost, Shanghai Electric Group grouped finance lease receivables and loans and advances in accordance with credit risk characteristics and measured the ECL based on groups.

#### How our audit addressed the Key Audit Matter

- tested the accuracy of the ageing of trade acceptance notes receivable, accounts receivable and contract assets on a sample basis;
- recalculated the ECLs after adjusting the historical rates of default loss using forward looking factors.

We performed the following procedures on impairment provision of finance lease receivables and loans and advances:

- evaluated the appropriateness of the calculation methods adopted in the models used to arrive at ECLs, as well as evaluating the reasonableness of the grouping of assets, selection of the models, and the key parameters involved in the significant estimations and judgements;
- based on the financial and non-financial information of the lessees and borrowers and other external evidence and considerations, assessed on a sample basis the reasonableness of the classification of the three stages adopted in the model;
- inspected on a sample basis the accuracy and completeness of the critical data used in the model to calculate the ECL, including the historical data and the current data used. For the finance lease receivables and loans and advances classified in Stage 3 that are subject to separate impairment assessment, used sampling techniques to inspect and assess the reasonableness of the discounted cash flow models used by management;
- reviewed the appropriateness of the economic indicators, economic scenarios and weights selected by management by assessing the historical correlation between asset portfolios and economic indicators, and verified the economic indicators adopted in the model against external data;
- evaluated the results of management's sensitivity analysis of the forward-looking factors using reasonably possible changes of the relevant key parameters.

#### How our audit addressed the Key Audit Matter

Impairment provision of trade acceptance notes receivable, accounts receivable, contract assets, finance lease receivables and loans and advances(Continued)

The major management judgements and assumptions adopted in the measurement of ECL mainly include:

- selecting appropriate models to measure ECL and grouping businesses with similar credit risk characteristics into one separate portfolios;
- (2) establishing criteria for significant increase of credit risk and occurrence of default credit impairment;
- (3) selecting appropriate economic indices, economic scenarios and the weights used in forward-looking parameters, as well as establishing future cash flow forecasts for separate assessments of the finance lease receivables and loans and advances at the third stage.

We considered impairment provision of trade acceptance notes receivable, accounts receivable, contract assets, finance lease receivables and loans and advances as a key audit matter since the estimations of impairment provision are subject to high degree of uncertainty and subjectivity. Shanghai Electric Group's measurement of ECL based on separate assessment involved significant managerial judgements and assumptions, and Shanghai Electric Group's measurement of ECLs based on groups involved both complex models and significant managerial judgements and assumptions.

Based on the above, we considered that management's judgements applied in the impairment provision assessment of trade acceptance notes receivable, accounts receivable, contract assets, finance lease receivables and loans and advances were supported by the evidences obtained and procedures performed.

#### How our audit addressed the Key Audit Matter

#### Impairment assessment on goodwill

Referring to Note 2(19), Note 2(32)(b) and Note 4(26) to the financial statements.

As at 31 December 2022, the net carrying amount of Shanghai Electric Group's goodwill was RMB3,288,723 thousand, after netting off impairment for goodwill of RMB1,939,555 thousand. In 2022, the amount of goodwill impairment made by Shanghai Electric Group was RMB411,487 thousand.

Shanghai Electric Group recognised the corresponding impairment based on the excess of the carrying amount over the recoverable amount of the assets group or the portfolio of the assets group. The recoverable amount is determined by the higher of the fair value less cost of disposal of the asset group or the portfolio of the assets group and its value-in-use calculated based on the present value of expected future cash flows.

The key assumptions adopted in the calculation of the present value of the expected future cash flows include:

- growth rates in the forecast period
- growth rates in the stable period
- gross margin rate
- discount rate

We obtained an understanding of management's internal control and assessment process in relation to the impairment provision of goodwill. We assessed the inherent risk of material misstatement by considering the degree of estimation uncertainty and the level of other inherent risk factors (such as their complexity, subjectivity, variability and sensitivity to management bias), and tested the operating effectiveness of key controls.

For the value-in-use calculations using present value of expected future cash flows, we conducted the following procedures:

- compared and analysed the actual financial results of the relevant asset groups during the current year against the respective forecasts in previous year to evaluate the reliability of management's historical prediction of future cash flows.
- obtained management's calculation schedules of goodwill impairment and evaluated the appropriateness of the valuation methods used by management in estimating the recoverable amount by reference to the industry practice.
- compared the key parameters and input data used in the cash flow forecasts against the historical figures and approved budgets, etc.

#### How our audit addressed the Key Audit Matter

### Impairment assessment on goodwill (Continued)

In 2022, management used the market approach to determine the fair value less cost of disposal of an asset group. The methods adopted were the stock price of listed companies or the ratio of enterprise-value-to-EBITDA after necessary adjustments, in which the key assumptions involved mainly included the share price of the listed company, the ratio of enterprise-value-to-EBITDA, the controlling interest premium, and the discount for lack of marketability, etc.

We identified goodwill impairment assessment as a key audit matter since the balance of goodwill was significant, the estimation of goodwill impairment was subject to significant uncertainty and subjectivity, and testing of goodwill impairment involved significant management judgements.

- meanwhile, we evaluated management's key assumptions by implementing the following procedures:
  - compared the growth rates in the forecast period with the company's historical growth rates, relevant business plans and industry historical data;
  - compared the growth rates in the stable period with the economic data we obtained;
  - compared the projected gross margin rate with past performance, taking into consideration of market trends;
  - for the discount rate used in the model, we estimated an acceptable range independently by considering external data sources (including the market risk-free rate and the debt to asset ratio) and geographical factors, and compared that with the discount rate used in the cash flow model:
  - reviewed the appropriateness of the above key assumption parameters with reference to market information and industry parameters.
- in response to the sensitivity analysis prepared by management, we
  focused on and assessed the extent and likelihood of impairment
  due to the reasonably possible changes in key assumptions that
  have significant impacts on the present value of expected future
  cash flows.

#### How our audit addressed the Key Audit Matter

## Impairment assessment on goodwill (Continued)

tested the accuracy of the calculation of the net present value of future cash flows.

For the fair value less cost of disposal of the asset group or the portfolio of the asset group, we conducted the following procedures:

- obtained management's calculation schedules of goodwill impairment and evaluated the appropriateness of the valuation methods used by management in estimating the recoverable amount by reference to the industry practice;
- evaluated the appropriateness of the selected controlling interest premium, discount for lack of marketability or market multiplier by assessing the industry, capital structure, and operating scale of enterprises;
- tested the accuracy of the calculation of fair value less cost of disposal.

Based on the above, we considered that management's judgements applied in impairment assessment of goodwill were supported by evidences obtained and procedures performed.

#### OTHER INFORMATION

Management of Shanghai Electric Group is responsible for other information. The other information comprises all the information included in 2022 annual report of Shanghai Electric Group other than the financial statements and our auditor's report thereon.

Our audit opinion on financial statements does not cover other information and we do not express any form of assurance conclusion thereon.

In conjunction with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

# RESPONSIBILITIES OF MANAGEMENT AND THOSE CHARGED WITH GOVERNANCE FOR THE FINANCIAL STATEMENTS

Management of Shanghai Electric Group is responsible for the preparation and fair presentation of these financial statements in accordance with CASs, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatements, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Shanghai Electric Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intend to liquidate Shanghai Electric Group or to cease operations, or have no realistic alternative but to do so.

Those charged with governance are responsible for overseeing Shanghai Electric Group's financial reporting process.

#### **AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF THE FINANCIAL STATEMENTS**

Our objectives are to obtain reasonable assurance about whether these financial statements are free from material misstatements, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with CSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with CSAs, we exercise professional judgement and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is enough and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether material uncertainty exists related to events or conditions that may cast significant doubt on Shanghai Electric Group 's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in these financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause Shanghai Electric Group to cease to continue as a going concern.
- Evaluate the overall presentation (including the disclosures), structure and content of the financial statements, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain enough appropriate audit evidence regarding the financial information of the entities or business activities within Shanghai Electric Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

# AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF THE FINANCIAL STATEMENTS (CONT'D)

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

| PricewaterhouseCoopers Zhong Tian LLP                     | Signing CPA | Yang Xudong<br>(Engagement Partner) |
|---|-------------|-------------------------------------|
| Shanghai, the People's Republic of China<br>29 March 2023 | Signing CPA | — Dai Zhenghua                      |

## **CONSOLIDATED BALANCE SHEET**

### AS AT 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

| ASSETS   | Note  | 31 December 2022<br>Consolidated | 31 December 2021<br>Consolidated |
|--|-------|----------------------------------|----------------------------------|
| Current assets   |       |                                  |                                  |
| Cash at bank and on hand                               | 4(1)  | 26,344,500                       | 25,359,181                       |
| Clearing settlement funds                              |       | 24,317                           | 25,214                           |
| Placements with banks and other financial institutions | 4(2)  | 24,613,553                       | 28,992,175                       |
| Financial assets held for trading                      | 4(3)  | 7,657,438                        | 7,603,097                        |
| Derivative financial assets                            | 4(4)  | 55,890                           | 44,101                           |
| Notes receivable                                       | 4(5)  | 6,257,285                        | 7,811,332                        |
| Accounts receivable                                    | 4(6)  | 38,279,969                       | 33,429,218                       |
| Receivables financing                                  | 4(7)  | 2,105,589                        | 1,145,493                        |
| Prepayments  | 4(8)  | 10,276,967                       | 13,424,089                       |
| Other receivables                                      | 4(9)  | 6,156,517                        | 8,710,708                        |
| Financial assets purchased under resale agreements     | 4(10) | 1,131,206                        | 188,202                          |
| Inventories  | 4(11) | 30,871,914                       | 32,879,469                       |
| Contract assets  | 4(12) | 21,801,813                       | 31,193,824                       |
| Assets held for sale                                   |       | -                                | 43,708                           |
| Current portion of non-current assets                  | 4(13) | 2,857,670                        | 2,820,830                        |
| Other current assets                                   | 4(14) | 22,719,005                       | 16,105,203                       |
| Total current assets                                   |       | 201,153,633                      | 209,775,844                      |
| Non-current assets                                     |       |                                  |                                  |
| Loans and advances                                     | 4(15) | 1,590,952                        | 2,138,138                        |
| Debt investments                                       | 4(16) | 152,863                          | -                                |
| Other debt investments                                 | 4(17) | -                                | 81,874                           |
| Long-term receivables                                  | 4(18) | 3,328,725                        | 4,258,199                        |
| Long-term equity investments                           | 4(19) | 11,183,753                       | 11,401,990                       |
| Other non-current financial assets                     | 4(20) | 7,268,463                        | 6,966,597                        |
| Investment properties                                  | 4(21) | 660,172                          | 822,975                          |
| Fixed assets   | 4(22) | 20,282,308                       | 19,889,387                       |
| Construction in progress                               | 4(23) | 3,427,951                        | 5,024,094                        |
| Right-of-use assets                                    | 4(24) | 1,402,169                        | 1,441,832                        |
| Intangible assets                                      | 4(25) | 12,582,986                       | 12,956,893                       |
| Development expenditures                               | 4(25) | 35,818                           | 40,636                           |
| Goodwill   | 4(26) | 3,288,723                        | 3,954,704                        |
| Long-term prepaid expenses                             | 4(27) | 555,484                          | 608,848                          |
| Deferred tax assets                                    | 4(28) | 7,733,152                        | 8,078,305                        |
| Other non-current assets                               | 4(29) | 13,373,700                       | 13,361,874                       |
| Total non-current assets                               |       | 86,867,219                       | 91,026,346                       |
| TOTAL ASSETS   |       | 288,020,852                      | 300,802,190                      |

## **CONSOLIDATED BALANCE SHEET (CONT'D)**

### AS AT 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

| LIABILITIES AND SHAREHOLDERS' EQUITY                            | Note  | 31 December 2022<br>Consolidated | 31 December 2021<br>Consolidated |
|---|-------|----------------------------------|----------------------------------|
| Current liabilities   |       |                                  |                                  |
| Short-term borrowings   | 4(31) | 8,660,895                        | 11,836,366                       |
| Financial liabilities held for trading                          | 4(32) | 32,017                           | 28,569                           |
| Derivative financial liabilities                                | 4(4)  | 10,450                           | 9,625                            |
| Notes payable   | 4(33) | 16,069,558                       | 16,578,854                       |
| Accounts payable  | 4(34) | 57,396,886                       | 61,303,577                       |
| Advances from customers   | 4(35) | 786,313                          | 738,047                          |
| Contract liabilities  | 4(36) | 38,742,797                       | 39,160,400                       |
| Deposits from customers, banks and other financial institutions | 4(37) | 6,076,565                        | 5,198,722                        |
| Employee benefits payable                                       | 4(38) | 4,958,030                        | 4,358,557                        |
| Taxes payable   | 4(39) | 2,030,487                        | 2,180,202                        |
| Other payables  | 4(40) | 7,859,473                        | 8,602,557                        |
| Liabilities held for sale                                       | 1(10) |                                  | 35,568                           |
| Current portion of non-current liabilities                      | 4(41) | 9,120,361                        | 8,274,340                        |
| Other current liabilities                                       | 4(42) | 11,781,611                       | 10,573,957                       |
| Total current liabilities                                       | 4(42) | 163,525,443                      |                                  |
| Total current habilities  |       | 103,323,443                      | 168,879,341                      |
| Non-current liabilities   |       |                                  |                                  |
| Long-term borrowings  | 4(43) | 21,647,690                       | 23,845,417                       |
| Bonds payable   | 4(44) | 748,697                          | 2,490,445                        |
| Lease liabilities   | 4(45) | 1,077,425                        | 1,027,996                        |
| Long-term payables  | 4(46) | 562,855                          | 583,015                          |
| Deferred income   | 4(47) | 1,491,212                        | 1,651,556                        |
| Long-term employee benefits payable                             | 4(48) | 175,854                          | 224,673                          |
| Provisions  | 4(42) | 3,592,976                        | 2,912,930                        |
| Deferred tax liabilities  | 4(28) | 836,321                          | 775,648                          |
| Other non-current liabilities                                   | 4(49) | 168,212                          | 266,816                          |
| Total non-current liabilities                                   |       | 30,301,242                       | 33,778,496                       |
| Total liabilities   |       | 193,826,685                      | 202,657,837                      |
| Shareholders' equity  |       |                                  |                                  |
| Share capital   | 4(50) | 15,579,809                       | 15,705,971                       |
| Less: Treasury stocks   | 4(51) | -                                | (382,271)                        |
| Capital surplus   | 4(51) | 21,837,822                       | 22,045,560                       |
| Other comprehensive income                                      | 4(52) | (24,891)                         | (509,829)                        |
| Special reserve   | .(32) | 143,786                          | 149,948                          |
| Surplus reserve   | 4(53) | 5,906,524                        | 5,906,524                        |
| Retained earnings   | 4(54) | 11,419,263                       | 15,218,425                       |
| Total equity attributable to shareholders of the parent company | 1(51) | 54,862,313                       | 58,134,328                       |
| Minority interests  |       | 39,331,854                       | 40,010,025                       |
| Total shareholders' equity                                      |       | 94,194,167                       | 98,144,353                       |
|   |       |                                  |                                  |
| TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY                      |       | 288,020,852                      | 300,802,190                      |

The accompanying notes form an integral part of these financial statements.

Legal representative: Principal in charge of accounting:

Leng Weiqing Zhou Zhiyan

Head of accounting department:

Si Wenpei

## **COMPANY BALANCE SHEET**

### AS AT 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

| ASSETS                                | Note  | 31 December 2022<br>Company | 31 December 2021<br>Company |
|---------------------------------------|-------|-----------------------------|-----------------------------|
| Current assets                        |       |                             |                             |
| Cash at bank and on hand              |       | 27,039,710                  | 26,305,420                  |
| Notes receivable                      | 16(1) | 399,329                     | 282,047                     |
| Accounts receivable                   | 16(2) | 10,193,882                  | 8,591,815                   |
| Prepayments                           |       | 12,345,129                  | 15,106,847                  |
| Other receivables                     | 16(3) | 5,557,032                   | 6,372,623                   |
| Inventories                           |       | 130,080                     | 101,012                     |
| Contract assets                       |       | 4,031,958                   | 5,100,413                   |
| Current portion of non-current assets |       | 269,000                     | 99,000                      |
| Other current assets                  |       | 3,116,576                   | 2,879,765                   |
| Total current assets                  |       | 63,082,696                  | 64,838,942                  |
| Non-current assets                    |       |                             |                             |
| Long-term receivables                 |       | 5,462,259                   | 5,391,559                   |
| Long-term equity investments          | 16(4) | 48,075,790                  | 49,197,100                  |
| Other non-current financial assets    |       | 1,787,054                   | 1,782,459                   |
| Investment properties                 |       | 115,261                     | 124,259                     |
| Fixed assets                          |       | 1,542,295                   | 1,623,292                   |
| Construction in progress              |       | 51,153                      | 93,165                      |
| Right-of-use assets                   |       | 39,859                      | 75,483                      |
| Intangible assets                     |       | 2,377,271                   | 2,702,944                   |
| Long-term prepaid expenses            |       | 23,041                      | 33,484                      |
| Deferred tax assets                   |       | 2,309,575                   | 2,275,432                   |
| Other non-current assets              |       | 5,817,118                   | 5,176,679                   |
| Total non-current assets              |       | 67,600,676                  | 68,475,856                  |
| TOTAL ASSETS                          |       | 130,683,372                 | 133,314,798                 |

## **COMPANY BALANCE SHEET (CONT'D)**

#### AS AT 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

| LIABILITIES AND SHAREHOLDERS' EQUITY       | Note  | 31 December 2022<br>Company | 31 December 2021<br>Company |
|--|-------|-----------------------------|-----------------------------|
| Current liabilities                        |       |                             |                             |
| Short-term borrowings                      |       | 5,811,000                   | 4,223,947                   |
| Notes payable                              |       | 4,410,137                   | 4,146,970                   |
| Accounts payable                           |       | 24,289,333                  | 24,804,824                  |
| Contract liabilities                       |       | 11,573,885                  | 10,782,644                  |
| Employee benefits payable                  |       | 1,097,799                   | 709,834                     |
| Taxes payable                              |       | 42,351                      | 123,607                     |
| Other payables                             |       | 2,723,703                   | 3,307,858                   |
| Current portion of non-current liabilities |       | 6,098,445                   | 896,817                     |
| Other current liabilities                  |       | 1,416,490                   | 1,662,191                   |
| Total current liabilities                  |       | 57,463,143                  | 50,658,692                  |
| Non-current liabilities                    |       |                             |                             |
| Long-term borrowings                       |       | 17,963,957                  | 21,828,309                  |
| Bonds payable                              |       | -                           | 2,490,445                   |
| Lease liabilities                          |       | 15,528                      | 35,328                      |
| Long-term payables                         |       | 17,537,377                  | 17,539,608                  |
| Other non-current liabilities              |       | 148,060                     | 107,745                     |
| Total non-current liabilities              |       | 35,664,922                  | 42,001,435                  |
| Total liabilities                          |       | 93,128,065                  | 92,660,127                  |
| Shareholders' equity                       |       |                             |                             |
| Share capital                              |       | 15,579,809                  | 15,705,971                  |
| Less: Treasury stocks                      |       | -                           | (382,271)                   |
| Capital surplus                            | 16(5) | 20,592,836                  | 20,816,669                  |
| Other comprehensive income                 | 16(6) | (30,627)                    | (30,627)                    |
| Surplus reserve                            | 16(7) | 2,639,825                   | 2,639,825                   |
| Retained earnings                          | 16(8) | (1,226,536)                 | 1,905,104                   |
| Total shareholders' equity                 |       | 37,555,307                  | 40,654,671                  |
| TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY |       | 130,683,372                 | 133,314,798                 |

The accompanying notes form an integral part of these financial statements.

Legal representative: Principal in charge of accounting: Head of accounting department:

Leng Weiqing Zhou Zhiyan Si Wenpei

## **CONSOLIDATED AND COMPANY INCOME STATEMENTS**

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

|  |              | For the year<br>ended 31<br>December 2022 | For the year<br>ended 31<br>December 2021 | For the year<br>ended 31<br>December 2022 | For the year<br>ended 31<br>December 2021 |
|--|--------------|---|---|---|---|
| Item   | Note         | Consolidated                              | Consolidated                              | Company                                   | Company                                   |
|  |              |   | (Restated, Note                           | - Company                                 |   |
|  |              |   | 2(33))                                    |   |   |
| Total revenue  | -            | 117,623,118                               | 130,261,250                               | 21,242,991                                | 18,291,990                                |
| Including: Revenue   | 4(55), 16(9) | 116,985,807                               | 129,554,848                               | 21,242,991                                | 18,291,990                                |
| Interest income  |              | 636,982                                   | 704,552                                   | -   | -   |
| Fee and commission income                                      |              | 329                                       | 1,850                                     | -   | -   |
| Total operating costs  |              | (117,467,341)                             | (130,304,620)                             | (25,180,992)                              | (23,303,537)                              |
| Including: Operating cost                                      | 4(55), 16(9) | (98,496,897)                              | (110,572,826)                             | (21,426,401)                              | (19,739,294)                              |
| Interest costs   |              | (87,168)                                  | (103,242)                                 | -   | <u>-</u>                                  |
| Fee and commission expenses                                    |              | (754)                                     | (917)                                     | -   | -   |
| Taxes and surcharges   | 4(56)        | (531,757)                                 | (562,868)                                 | (31,936)                                  | (38,313)                                  |
| Selling and distribution expenses                              | 4(57)        | (3,853,301)                               | (4,601,099)                               | (307,776)                                 | (313,560)                                 |
| General and administrative expenses                            | 4(58)        | (8,167,949)                               | (7,930,489)                               | (1,647,316)                               | (1,607,419)                               |
| Research and development expenses                              | 4(59)        | (5,028,466)                               | (5,405,769)                               | (213,561)                                 | (234,709)                                 |
| Financial expenses - net                                       | 4(60)        | (1,301,049)                               | (1,127,410)                               | (1,554,002)                               | (1,370,242)                               |
| Including: Interest expenses                                   | (**,         | (1,757,576)                               | (1,161,087)                               | (1,895,424)                               | (1,488,718)                               |
| Interest income  |              | 504,533                                   | 316,627                                   | 348,064                                   | 189,596                                   |
| Add: Other income  | 4(64)        | 1,077,991                                 | 996,998                                   | 38,650                                    | 53,824                                    |
| Investment income  | 4(65),       |   |   |   |   |
|  | 16(10)       | 1,113,637                                 | 1,830,299                                 | 1,620,186                                 | 3,626,578                                 |
| Including: Share of profit of associates<br>and joint ventures |              | 858,533                                   | 211,000                                   | 627,482                                   | (610,422)                                 |
| Losses arising from derecognition of financial                 |              |   |   |   |   |
| assets measured at<br>amortised cost                           |              | (8,992)                                   | (16,108)                                  | _   | _   |
| Exchange gains   | L            | 21,394                                    | 991                                       |   |   |
| (Losses)/Gains on changes in fair<br>value                     | 4(66)        | (715,315)                                 | 1,705,848                                 | (154,427)                                 | 391,190                                   |
| Asset impairment losses  | 4(62)        | (2,144,917)                               | (4,525,332)                               | (1,007,068)                               | (189,595)                                 |
| Credit impairment losses                                       | 4(63)        | (2,093,465)                               | (10,986,962)                              | (242,086)                                 | (9,548,221)                               |
| Gains/(Losses) on disposal of assets                           | 4(67)        | 560,440                                   | 183,064                                   | 515,573                                   | (148)                                     |
| Operating loss   |              | (2,024,458)                               | (10,838,464)                              | (3,167,173)                               | (10,677,919)                              |
| Add: Non-operating income                                      | 4(68)        | 223,041                                   | 641,169                                   | 1,810                                     | 96,855                                    |
| Less: Non-operating expenses                                   | 4(69)        | (173,881)                                 | (92,344)                                  | (5,600)                                   | (780)                                     |
| Total loss   |              | (1,975,298)                               | (10,289,639)                              | (3,170,963)                               | (10,581,844)                              |
| Less: Income tax expenses                                      | 4(70)        | (337,708)                                 | 49,508                                    | 39,323                                    | 820,315                                   |
| Net loss   | _            | (2,313,006)                               | (10,240,131)                              | (3,131,640)                               | (9,761,529)                               |
| Attributable to shareholders of the parent                     |              | (3,566,484)                               | (9,987,908)                               |   |   |
| company<br>Minority interests                                  |              | 1,253,478                                 | (252,223)                                 |   |   |
| ,  | _            | , ,                                       | ( : ,,                                    |   |   |

## CONSOLIDATED AND COMPANY INCOME STATEMENTS (CONT'D)

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

|  |           | For the year<br>ended 31<br>December 2022 | For the year<br>ended 31<br>December 2021 | For the year<br>ended 31<br>December 2022 | For the year<br>ended 31<br>December 2021 |
|--|-----------|---|---|---|---|
| Item   | Note      | Consolidated                              | Consolidated                              | Company                                   | Company                                   |
|  |           |   | (Restated, Note 2(33))                    |   |   |
| Other comprehensive income, net of tax   |           | 489,995                                   | (211,215)                                 | -   | -   |
| Attributable to shareholders of the parent company                                       |           | 484,938                                   | (199,970)                                 | -   | -   |
| Other comprehensive income that will not be subsequently reclassified to profit or loss  |           | 22,390                                    | 766                                       | -   | -   |
| Changes arising from remeasurement of net liability or net asset of defined benefit plan |           | 22,390                                    | 766                                       | -   | -   |
| Other comprehensive income that will be subsequently reclassified to profit or loss      |           | 462,548                                   | (200,736)                                 | -   | -   |
| Changes in fair value of other debt investments  |           | (10,419)                                  | (25,655)                                  | -   | -   |
| Provision for credit impairment of other debt investments and receivables financing      |           | (15,981)                                  | 23,593                                    | -   | -   |
| Effective portion of gains or losses on hedging instruments in a cash flow hedge         |           | 1,821                                     | -   | -   | -   |
| Differences on translation of foreign currency financial statements                      | l         | 487,127                                   | (198,674)                                 | -   | _   |
| Attributable to minority shareholders  |           | 5,057                                     | (11,245)                                  | -   | -   |
| Total comprehensive income   | -         | (1,823,011)                               | (10,451,346)                              | (3,131,640)                               | (9,761,529)                               |
| Attributable to shareholders of the parent company                                       |           | (3,081,546)                               | (10,187,878)                              |   |   |
| Attributable to minority shareholders  | -         | 1,258,535                                 | (263,468)                                 |   |   |
| Earnings per share   |           |   |   |   |   |
| Basic earnings per share (RMB Yuan)  | 4(71)     | RMB(0.23)                                 | RMB(0.64)                                 |   |   |
| Diluted earnings per share (RMB Yuan)  | 4(71)     | RMB(0.23)                                 | RMB(0.64)                                 |   |   |
| The accompanying notes form an integral part of th                                       | ese finar | ncial statements.                         |   |   |   |

Legal representative: Principal in charge of accounting: Head of accounting department:

Leng Weiqing Zhou Zhiyan Si Wenpei

## **CONSOLIDATED AND COMPANY CASH FLOW STATEMENTS**

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

| lt   |       |                    | For the year<br>ended 31<br>December 2021 | For the year<br>ended 31<br>December 2022 |                         |
|--|-------|--------------------|---|---|-------------------------|
| Item   | Note  | Consolidated       | Consolidated                              | Company                                   | Company                 |
| Cash flows from/(used in) operating activities   |       |                    |   |   |                         |
| Cash received from sales of goods or rendering of services   |       | 117,510,597        | 135,776,016                               | 23,549,604                                | 23,213,824              |
| Refund of taxes and surcharges   |       | 1,563,829          | 751,816                                   | 83,461                                    | 333,646                 |
| Cash received relating to other operating activities   | 4(72) | 9,810,329          | 6,321,157                                 | 456,300                                   | 509,696                 |
| Sub-total of cash inflows  |       | 128,884,755        | 142,848,989                               | 24,089,365                                | 24,057,166              |
| Cash paid for goods and services   |       | 93,675,145         | 120,831,688                               | 22,207,465                                | 27,258,609              |
| Cash paid to and on behalf of employees  |       | 12,032,673         | 12,356,631                                | 576,671                                   | 712,377                 |
| Payments of taxes and surcharges   |       | 4,498,553          | 5,380,559                                 | 91,701                                    | 471,666                 |
| Cash paid relating to other operating activities   | 4(72) | 10,195,569         | 14,834,111                                | 2,209,044                                 | 3,570,765               |
| Sub-total of cash outflows   |       | 120,401,940        | 153,402,989                               | 25,084,881                                | 32,013,417              |
| Net cash flows from/(used in) operating activities   | 4(73) | 8,482,815          | (10,554,000)                              | (995,516)                                 | (7,956,251)             |
| Cash flows (used in)/from investing activities   |       |                    |   |   |                         |
| Cash received from disposal of investments   |       | 11,885,630         | 15,818,311                                | 2,874,143                                 | 3,057,078               |
| Cash received from returns on investments<br>Net cash received from disposal of fixed assets,                    |       | 1,245,244          | 2,987,686                                 | 1,754,091                                 | 3,191,641               |
| intangible assets and other long-term assets<br>Net cash received from disposal of subsidiaries and              | . ()  | 503,054            | 1,477,775                                 | 220,413                                   | 405,584                 |
| other business units   | 4(73) | 195,679            | 1,999,854                                 | -   | -                       |
| Cash received relating to other investing activities   | 4(72) | 3,763,013          | 3,294,045                                 | 1,535,000                                 | 4,838,301               |
| Sub-total of cash inflows  |       | 17,592,620         | 25,577,671                                | 6,383,647                                 | 11,492,604              |
| Cash paid to acquire fixed assets, intangible assets and other long-term assets                                  |       | 4,045,088          | 4,308,930                                 | 64,289                                    | 262,731                 |
| Cash paid to acquire investments   |       | 20,848,343         | 15,059,277                                | 484,929                                   | 2,081,090               |
| Net cash paid to acquire subsidiaries and other business units   | 4(73) | 15,719             | 68,140                                    | -   | -,,                     |
| Cash paid relating to other investing activities   | 4(72) | -                  | 282,257                                   | 5,824,700                                 | 7,606,283               |
| Sub-total of cash outflows   |       | 24,909,150         | 19,718,604                                | 6,373,918                                 | 9,950,104               |
| Net cash flows (used in)/from investing activities   |       | (7,316,530)        | 5,859,067                                 | 9,729                                     | 1,542,500               |
| Cash flows (used in)/from financing activities   |       |                    |   |   |                         |
| Cash received from capital contributions<br>Including: Cash received by subsidiaries from                        |       | 154,943            | 3,350,092                                 | -   | -                       |
| capital contributions by minority shareholders   |       | 154,943            | 3,350,092                                 | -   | -                       |
| Cash received from borrowings  |       | 28,041,765         | 25,756,943                                | 20,463,917                                | 17,522,620              |
| Cash received from bonds   |       | 3,750,000          | 1,500,000                                 | -   | 1,500,000               |
| Cash received relating to other financing activities   | 4(72) | <u> </u>           | 318,803                                   | <u>-</u>                                  | -                       |
| Sub-total of cash inflows  |       | 31,946,708         | 30,925,838                                | 20,463,917                                | 19,022,620              |
| Cash repayments of borrowings  |       | 25,606,271         | 19,374,930                                | 19,932,907                                | 13,763,756              |
| Cash repayments of bonds   |       | 3,000,000          | 2,842,153                                 | -   | 2,842,153               |
| Cash payments for distribution of dividends, profits or interest expenses  |       | 3,207,796          | 4,396,015                                 | 1,956,335                                 | 2,825,195               |
| Including: Cash payments for dividends or profits  |       | 1 660 100          | 1 500 050                                 |   |                         |
| to minority shareholders by subsidiaries   | 4/72) | 1,668,109          | 1,588,959                                 | 14,877                                    |                         |
| Cash paid relating to other financing activities   | 4(72) | 1,389,609          | 2,147,808                                 |   | 50,404                  |
| Sub-total of cash outflows  Net cash flows (used in)/from financing activities                                   |       | 33,203,676         | 28,760,906                                | 21,904,119                                | 19,481,508              |
| Effect of foreign exchange rate changes on   |       | (1,256,968)        | 2,164,932                                 | (1,440,202)                               | (458,888)               |
| cash and cash equivalents  |       | 294,462<br>203,779 | (143,585)<br>(2,673,586)                  | 87,549<br>(2,720,710)                     | (31,125)<br>(6,903,764) |
| Net increase/(decrease) in cash and cash equivalents Add: Cash and cash equivalents at the beginning of the year |       | 43,581,329         | 46,254,915                                | 19,655,420                                | 26,559,184              |
| Cash and cash equivalents at the end of the year   | 4(73) | 43,785,108         | 43,581,329                                | 16,934,710                                | 19,655,420              |

The accompanying notes form an integral part of these financial statements. Principal in charge of accounting: Legal representative: Leng Weiging Zhou Zhiyan

Head of accounting department: Si Wenpei

## **CONSOLIDATED STATEMENT OF CHANGES IN SHAREHOLDERS' EQUITY**

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

|  | _     | Attributable to shareholders of the parent company |                    |                   |                            |                    |                    |                      |               |                    |                                  |
|--|-------|--|--------------------|-------------------|----------------------------|--------------------|--------------------|----------------------|---------------|--------------------|----------------------------------|
| ltem   | Note  | Share<br>capital                                   | Capital<br>surplus | Treasury<br>stock | Other comprehensive income | Special<br>reserve | Surplus<br>reserve | Retained<br>earnings | Sub-<br>total | Minority interests | Total<br>shareholders'<br>equity |
| Balance at 31 December 2020                                | -     | 15,181,353   | 19,338,140         | (382,271)         | (130,122)                  | 138,313            | 5,906,524          | 26,348,897           | 66,400,834    | 40,448,508         | 106,849,342                      |
| Movements for the year ended 31 December 2021              |       |  |                    |                   |                            |                    |                    |                      |               |                    |                                  |
| Total comprehensive income                                 |       |  |                    |                   |                            |                    |                    |                      |               |                    |                                  |
| Net loss   |       | -  | -                  | -                 | -                          | -                  | -                  | (9,987,908)          | (9,987,908)   | (252,223)          | (10,240,131)                     |
| Other comprehensive income                                 |       | -  | -                  | -                 | (199,970)                  | -                  | =                  | -                    | (199,970)     | (11,245)           | (211,215)                        |
| Total comprehensive income for the year                    | =     | -  | -                  | -                 | (199,970)                  | -                  | -                  | (9,987,908)          | (10,187,878)  | (263,468)          | (10,451,346)                     |
| Capital contribution and withdrawal by shareholders        |       |  |                    |                   |                            |                    |                    |                      |               |                    |                                  |
| Equity component of convertible bonds                      | 4(44) | 524,618  | 2,166,673          | -                 | -                          | -                  | -                  | -                    | 2,691,291     | -                  | 2,691,291                        |
| Injection of capital from minority shareholders            | 4(51) | -  | (44,868)           | -                 | -                          | -                  | -                  | -                    | (44,868)      | 3,413,944          | 3,369,076                        |
| Addition of subsidiaries                                   | 5     | -  | -                  | -                 | -                          | -                  | -                  | -                    | -             | 86,270             | 86,270                           |
| Disposal of subsidiaries                                   | 5     | -  | -                  | -                 | -                          | -                  | -                  | -                    | -             | (224,891)          | (224,891)                        |
| Capital withdrawal by minority shareholders                | 4(51) | -  | 591,121            | -                 | -                          | -                  | -                  | -                    | 591,121       | (1,525,976)        | (934,855)                        |
| Share-based payments included in owners' equity            | 4(51) | -  | (5,506)            | -                 | -                          | -                  | -                  | -                    | (5,506)       | -                  | (5,506)                          |
| Others   | 4(52) | -  | -                  | -                 | (179,737)                  | -                  | -                  | -                    | (179,737)     | 65,094             | (114,643)                        |
| Profit distribution  |       |  |                    |                   |                            |                    |                    |                      |               |                    |                                  |
| Appropriation to surplus reserve                           | 4(53) | -  | -                  | -                 | -                          | -                  | -                  | -                    | -             | -                  | -                                |
| Appropriation to general risk reserve                      | 4(53) | -  | -                  | -                 | -                          | -                  | -                  | -                    | -             | -                  | -                                |
| Distribution to shareholders                               | 4(54) | -  | -                  | -                 | -                          | -                  | -                  | (1,127,375)          | (1,127,375)   | -                  | (1,127,375)                      |
| Distribution to minority shareholders of subsidiaries      |       | -  | -                  | -                 | -                          | -                  | -                  | -                    | -             | (1,947,376)        | (1,947,376)                      |
| Appropriation to staff and workers' bonus and welfare fund | 4(54) | -  | -                  | -                 | -                          | -                  | -                  | (15,189)             | (15,189)      | (39,528)           | (54,717)                         |
| Special reserve  |       |  |                    |                   |                            |                    |                    |                      |               |                    |                                  |
| Appropriation in the current year                          |       | -  | -                  | -                 | -                          | 82,932             | -                  | -                    | 82,932        | 32,920             | 115,852                          |
| Use in the current year                                    | 4(54) | -  | -                  | -                 | -                          | (71,297)           | -                  | -                    | (71,297)      | (35,472)           | (106,769)                        |
| Balance at 31 December 2021                                | -     | 15,705,971   | 22,045,560         | (382,271)         | (509,829)                  | 149,948            | 5,906,524          | 15,218,425           | 58,134,328    | 40,010,025         | 98,144,353                       |

## CONSOLIDATED STATEMENT OF CHANGES IN SHAREHOLDERS' EQUITY (CONT'D)

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

|   |       | Attributable to shareholders of the parent company |                    |                   |                            |                 |           |                   |               |                    |                                  |
|---|-------|--|--------------------|-------------------|----------------------------|-----------------|-----------|-------------------|---------------|--------------------|----------------------------------|
| Item  | Note  | Share<br>capital                                   | Capital<br>surplus | Treasury<br>stock | Other comprehensive income | Special reserve | •         | Retained earnings | Sub-<br>total | Minority interests | Total<br>shareholders'<br>equity |
| Telli .   | Hote  | capital  | Surpius            | Stock             | meonie                     | TESETTE         | TESETVE   | carrings          | totai         | interests          | cquity                           |
| Balance at 31 December 2021                                       |       | 15,705,971   | 22,045,560         | (382,271)         | (509,829)                  | 149,948         | 5,906,524 | 15,218,425        | 58,134,328    | 40,010,025         | 98,144,353                       |
| Movements for the year ended 31 December 2022                     |       |  |                    |                   |                            |                 |           |                   |               |                    |                                  |
| Total comprehensive income  |       |  |                    |                   |                            |                 |           |                   |               |                    |                                  |
| Net loss  |       | -  | -                  | -                 | -                          | -               | -         | (3,566,484)       | (3,566,484)   | 1,253,478          | (2,313,006)                      |
| Other comprehensive income  |       | -  | -                  | -                 | 484,938                    | -               | -         | -                 | 484,938       | 5,057              | 489,995                          |
| Total comprehensive income for the year                           |       | -  | -                  | -                 | 484,938                    | -               | -         | (3,566,484)       | (3,081,546)   | 1,258,535          | (1,823,011)                      |
| Capital contribution and withdrawal by shareholders               |       |  |                    |                   |                            |                 |           |                   |               |                    |                                  |
| Injection of capital from minority shareholders                   | 4(51) | -  | 16,095             | -                 | -                          | -               | -         | -                 | 16,095        | 84,223             | 100,318                          |
| Addition of subsidiaries  | 5     | -  | -                  | -                 | -                          | -               | -         | -                 | -             | 84,241             | 84,241                           |
| Repurchase and cancellation of shares under equity incentive plan | 4(51) | (126,162)  | (256,109)          | 382,271           | -                          | -               | -         | -                 | -             | -                  | -                                |
| Disposal of subsidiaries  | 5     | -  | -                  | -                 | -                          | -               | -         | -                 | =             | (423,873)          | (423,873)                        |
| Share-based payments included in owners' equity                   | 4(51) | -  | 32,276             | -                 | -                          | -               | -         | -                 | 32,276        | -                  | 32,276                           |
| Others  |       | -  |                    | -                 | -                          | -               | -         | -                 | -             | 29                 | 29                               |
| Profit distribution   |       |  |                    |                   |                            |                 |           |                   |               |                    |                                  |
| Appropriation to surplus reserve                                  | 4(53) | -  | -                  | -                 | -                          | -               | -         | -                 | -             | -                  | -                                |
| Appropriation to general risk reserve                             | 4(53) | -  | -                  | -                 | -                          | -               | -         | -                 | -             | -                  | -                                |
| Distribution to shareholders                                      |       | -  | -                  | -                 | -                          | -               | -         | -                 | -             | -                  | -                                |
| Distribution to minority shareholders of subsidiaries             | 4(54) | -  | -                  | -                 | -                          | -               | -         | (209,305)         | (209,305)     | (1,615,868)        | (1,825,173)                      |
| Appropriation to staff and workers' bonus and welfare fund        | 4(54) | -  | -                  | -                 | -                          | -               | -         | (23,373)          | (23,373)      | (65,866)           | (89,239)                         |
| Special reserve   |       |  |                    |                   |                            |                 |           |                   |               |                    |                                  |
| Increase in the current year                                      |       | -  | -                  | -                 | -                          | 75,606          | -         | -                 | 75,606        | 39,719             | 115,325                          |
| Use in the current year   |       | -  | -                  |                   |                            | (81,768)        | -         |                   | (81,768)      | (39,311)           | (121,079)                        |
| Balance at 31 December 2022                                       |       | 15,579,809   | 21,837,822         | -                 | (24,891)                   | 143,786         | 5,906,524 | 11,628,568        | 54,815,893    | 39,378,274         | 94,194,167                       |

The accompanying notes form an integral part of these financial statements.

Legal representative: Principal in charge of accounting: Leng Weiqing

Zhou Zhiyan

Si Wenpei

Head of accounting department:

## **COMPANY STATEMENT OF CHANGES IN SHAREHOLDERS' EQUITY**

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

| Item  | Note         | Share<br>capital | Capital<br>surplus | Treasury o | Other comprehensive income | Surplus<br>reserve | Retained<br>earnings | Tota<br>shareholders<br>equity |
|---|--------------|------------------|--------------------|------------|----------------------------|--------------------|----------------------|--------------------------------|
| Balance at 31 December 2020                                       |              | 15,181,353       | 18,655,502         | (382,271)  | 249,980                    | 2,639,825          | 12,794,008           | 49,138,397                     |
| Movements for the year ended 31 December 2021                     |              |                  |                    |            |                            |                    |                      |                                |
| Total comprehensive income  |              |                  |                    |            |                            |                    |                      |                                |
| Net loss  |              | -                | -                  | -          | -                          | =                  | (9,761,529)          | (9,761,529)                    |
| Other comprehensive income  | 16(7)        | -                | -                  | -          | -                          | -                  | -                    | -                              |
| Total comprehensive income for the year                           | . 5(, )      | -                | -                  | -          | -                          | -                  | (9,761,529)          | (9,761,529)                    |
| Equity component of convertible bonds                             | 4(44), 16(6) | 524,618          | 2,166,673          | -          | -                          | -                  | -                    | 2,691,291                      |
| Share-based payments included in owners' equity                   | 4(51), 16(6) | -                | (5,506)            | -          | -                          | -                  | -                    | (5,506)                        |
| Repurchase and cancellation of shares under equity incentive plan | 16(7)        | -                | -                  | -          | (280,607)                  | -                  | -                    | (280,607)                      |
| Profit distribution   |              |                  |                    |            |                            |                    |                      |                                |
| Distribution to shareholders                                      | 4(54), 16(9) | =                | -                  | -          | -                          | -                  | (1,127,375)          | (1,127,375)                    |
| Balance at 31 December 2021                                       |              | 15,705,971       | 20,816,669         | (382,271)  | (30,627)                   | 2,639,825          | 1,905,104            | 40,654,671                     |

The accompanying notes form an integral part of these financial statements.

Legal representative: Principal in charge of accounting: Head of accounting department:

Leng Weiqing Zhou Zhiyan Si Wenpei

## COMPANY STATEMENT OF CHANGES IN SHAREHOLDERS' EQUITY (CONT'D)

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

| lann  |              | -          | Other      |                        |          |           |             |               |  |
|---|--------------|------------|------------|------------------------|----------|-----------|-------------|---------------|--|
|   | Nata         | Share      | Capital    | Treasury comprehensive |          | Surplus   |             | shareholders' |  |
| Item  | Note         | capital    | surplus    | stock                  | income   | reserve   | earnings    | equity        |  |
| Balance at 31 December 2021                                       |              | 15,705,971 | 20,816,669 | (382,271)              | (30,627) | 2,639,825 | 1,905,104   | 40,654,671    |  |
| Movements for the year ended 31 December 2022                     |              |            |            |                        |          |           |             |               |  |
| Total comprehensive income  |              |            |            |                        |          |           |             |               |  |
| Net loss  |              | -          | -          | -                      | -        | -         | (3,131,640) | (3,131,640)   |  |
| Other comprehensive income  | 16(7)        | -          | -          | -                      | -        | -         | -           | _             |  |
| Total comprehensive income for the year                           |              | -          | -          | -                      | -        | -         | (3,131,640) | (3,131,640)   |  |
| Share-based payments included in owners' equity                   | 4(51), 16(6) | -          | 32,276     | -                      | -        | -         | -           | 32,276        |  |
| Repurchase and cancellation of shares under equity incentive plan | 16(7)        | (126,162)  | (256,109)  | 382,271                | -        |           | -           | -             |  |
|   |              |            |            |                        |          |           |             |               |  |
| Balance at 31 December 2022                                       |              | 15,579,809 | 20,592,836 | -                      | (30,627) | 2,639,825 | (1,226,536) | 37,555,307    |  |

Legal representative: Leng Weiqing Principal in charge of accounting:

Zhou Zhiyan

Head of accounting department:

Si Wenpei

### NOTES TO THE FINANCIAL STATEMENTS

#### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 1 GENERAL INFORMATION

Shanghai Electric Group Co., Ltd. ("the Company"), formerly Shanghai Electric (Group) Company Limited ("Electric Limited"), is a joint venture co-funded by Shanghai Electric Holdings Group Co., Ltd. (formerly Shanghai Electric (Group) Corporation, hereinafter "Electric Holdings"), Guangdong Zhujiang Investment Co., Ltd., Fuxi Investment Holding Co., Ltd. ("Fuxi Investment"), Shenergy (Group) Co., Ltd ("Shenergy Group"), Shanghai Baosteel Group Corporation ("Baosteel Group") and Shantou Mingguang Investment Co., Ltd. on 1 March 2004 upon the approval of the State-owned Assets Supervision and Administration Commission of Shanghai Municipal Government (Hu Guo Zi Wei Chong [2004] No. 79). The original registered capital of the Company was RMB9,010,950 thousand, including capital contribution by Electric Holdings with its equity and fixed assets in 17 companies at the considerations of RMB6,257,765 thousand and RMB3,185 thousand respectively, accounting for 69.48% of shareholding, and cash contribution of RMB2,750,000 thousand by other shareholders, accounting for 30.52% of shareholding.

Electric Holdings entered into a share transfer agreement with Fuxi Investment on 19 August 2004 to transfer 4.99% of its equity in the Company to Fuxi Investment; and entered into another share transfer agreement with Baosteel Group on 27 August 2004 to acquire 4.99% of the equity in the Company held by Baosteel Group. Upon completion of the transfers, Electric Holdings held 69.48% of the equity in the Company.

On 8 September 2004, pursuant to the resolution at the 5th shareholders' meeting, and upon the approval of the Shanghai Municipal People's Government in the Reply on Approving the Setting Up of Shanghai Electric Group Co., Ltd. (Hu Fu Fa Gai Shen [2004] No. 008) dated 28 September 2004, Electric Limited was changed into a stock limited liability company. After the change, the share capital was RMB9,189,000 thousand.

On 24 March 2005, pursuant to the resolution at the 4th session of the 1st Board of Director, and as approved by China Securities Regulatory Commission ("CSRC") in Zheng Jian Guo He Zi [2005] No. 6 dated 26 January 2005, the Company issued overseas listed foreign shares with a par value of RMB1 per share in Hong Kong, with an issuing size of 2,702,648 thousand shares. Meanwhile, Electric Holdings and Shenergy Group reduced their state-owned shares by selling 270,264 thousand shares. The issue price of the public offering was HKD1.70 per share. After the issue, the share capital of the Company increased to RMB11,891,648 thousand.

On 12 November 2008, pursuant to the resolution at the shareholders' meeting, the Company issued 616,039 thousand RMB-dominated ordinary shares with a par value of RMB1 per share publicly to all shareholders of Shanghai Electric Power T&D Co., Ltd. excluding the Company to merge with Shanghai Electric Power T&D Co., Ltd., upon the approval of CSRC in the Reply on Approving the Merger of Shanghai Electric Group Co., Ltd. with Shanghai Electric Power T&D Co., Ltd. (Zheng Jian Xu Ke [2008] No. 1262) and the Reply on Approving the Initial Public Offering of Shanghai Electric Group Co., Ltd. (Zheng Jian Xu Ke [2008] No. 1233). After this issue, the share capital of the Company increased to 12,507,687 thousand shares.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 1 GENERAL INFORMATION (CONT'D)

On 13 May 2010, pursuant to the resolution at the shareholders' meeting, the Company issued 315,940 thousand RMB-dominated ordinary shares with a par value of RMB1 per share privately, with an issue price of RMB7.03 per share, upon the approval of CSRC in the Reply on Approving the Non-public Offering of Shanghai Electric Group Co., Ltd. (Zheng Jian Xu Ke [2010] No. 497). After this non-public issue, the share capital of the Company increased to 12,823,627 thousand shares.

On 18 January 2016, pursuant to the resolutions at the 1st interim shareholders' meeting in 2016, the 1st A-share shareholders' meeting in 2016 and the 1st H-share shareholders' meeting in 2016, the Company issued 606,843 thousand RMB-dominated ordinary shares with a par value of RMB1 per share and an issue price of RMB10.41 per share to Electric Holdings, upon the approval of CSRC in the Reply on Approving Shanghai Electric Group Co., Ltd. for Issuing Shares to Shanghai Electric (Group) Corporation to Purchase Assets and Raise Matching Fund (Zheng Jian Xu Ke [2016] No. 905) in order to make up the difference in the equity replacement where the Company replaces at a transaction consideration of RMB1 of its 100% equity in Shanghai Heavy Machinery Plant Co., Ltd. (SHMP) with Electric Holdings' several items of equities, including 100% equity in Shanghai Electric Industrial Co., Ltd. (Electric Industrial) and Shanghai Blower Works Co., Ltd. (SBW), 61% equity in Shanghai Denso Fuel Injection Co., Ltd. (Shanghai Denso) and 14.79% in Shanghai Rail Traffic Equipment Development Co., Ltd. (SRTED), and to acquire the land use rights of 14 parcels of land owned by Electric Holdings and the ancillary buildings and other assets therein. In 2016, the Company completed the non-public issue of 606,843 thousand RMB-dominated ordinary shares.

In 2017, as approved by the 37th and 42nd meetings of the 4th Board of Directors, the 1st interim shareholders' meeting in 2017, the 1st A share shareholders' meeting in 2017 and the 1st H share shareholders' meeting in 2017, the Company planned to issue 877,918 thousand RMB-dominated ordinary shares to Electric Holdings with an issue price of RMB7.55 per share in order to acquire 47.18% domestic shares of Shanghai Prime Machinery Company Limited (PMC), 50.10% equity in Thales SEC Transportation System Limited Company ("Thales SEC") (formerly Thales Saic Transportation System Limited Company), 100% equity in Shanghai Electric Group Asset Management Co., Ltd. ("Electric Asset Management"), the land use rights of 26 parcels of land owned by Electric Holdings and the ancillary buildings and other assets therein (hereinafter "Issuance of Shares to Purchase Assets"). Later, the Company received the approval of the issuance of 877,918 thousand shares to Electric Holdings from CSRC in Reply on Approving Shanghai Electric Group Co., Ltd. for Issuing Shares to Shanghai Electric (Group) Corporation to Purchase Assets and Raise Matching Funds (Zheng Jian Xu Ke [2017] No. 1390) dated 31 July 2017. In 2017, the Company completed the non-public issue of 877,918 thousand RMB-dominated ordinary shares.

In 2017, as approved by the 37th and 42nd meetings of the 4th Board of Directors of the Company, the 1st interim shareholders' meeting in 2017, the 1st A share shareholders' meeting in 2017 and the 1st H share shareholders' meeting in 2017, the Company issued non-public offering shares to no more than 10 specific investors including Electric Holdings and Shanghai Guosheng Group Investment Co., Ltd. to raise matching fund not exceeding RMB3 billion.

# 1 GENERAL INFORMATION (CONT'D)

On 31 July 2017, the Company received approval of non-public offering of shares to raise matching fund not exceeding RMB3 billion by CSRC in the Reply on Approving Shanghai Electric Group Co., Ltd. for Issuing Shares to Shanghai Electric (Group) Corporation to Purchase Assets and Raise Matching Fund (Zheng Jian Xu Ke [2017] No. 1390). As at 20 October 2017, the Company completed the issuance of 416,089 thousand RMB-dominated ordinary shares with an issue price of RMB7.21 per share.

On 16 February 2015, the Company issued 6 million of A-share convertible bonds ("Electric Convertible Bonds", code: 113008) with a par value of RMB100 per bond and the total amount was RMB6 billion. Such convertible bonds can be converted into the Company's A shares at a price of RMB10.72 per share from 3 August 2015. Such bond interest is calculated annually by single interest method and the principal is repaid in a lump sum upon maturity. As of the maturity date of the convertible bonds, the accumulative number of shares formed by the conversion was 903,762 thousand shares, and the company's shares increased accordingly to 15,705,971 thousand shares.

On 29 April 2019, the Company received approval of the equity incentive plan by the State-owned Assets Supervision and Administration Commission of Shanghai Municipal Government in the Reply on Approving Shanghai Electric Group Co., Ltd. for Implementing the Restricted Shares Incentive Plan (Hu Guo Zi Wei Fen Pei [2019] No. 80). On 6 May 2019, as approved by the Company's 13th of the 5th Session of the Board of Directors of the Company, the 1st interim shareholders' meeting in 2019, the 1st A share shareholders' meeting in 2019, and the 1st H share shareholders' meeting in 2019, the Company granted 133,578 thousand shares with the granting price of RMB3.03 per share.

On 29 June 2020, pursuant to the resolutions at 2019 annual shareholders' meeting, the 1st A-share shareholders' meeting in 2020 and the 1st H-share shareholders' meeting in 2020, the Company repurchased and cancelled the restricted A shares that had been granted to 95 recipients (who were no longer qualified as participants in the incentive scheme) but not yet unlocked on 18 September 2020. The total number of restricted shares repurchased and cancelled was 7,416 thousand. After completion of the repurchase and cancellation, the number of remaining restricted shares under the incentive scheme of all participants totalled 126,162 thousand.

On 29 June 2020, pursuant to the resolutions at 2019 annual shareholders' meeting, the 1st A-share shareholders' meeting in 2020 and the 1st H-share shareholders' meeting in 2020, from 10 September 2020 to 30 October 2020, the Company repurchased and fully cancelled 48,430 thousand H shares, resulting in the reduction of the registered capital of the Company accordingly.

On 17 January 2022, the Proposal on Termination of the Restricted A Shares Under the Incentive Plan and Repurchase and Cancellation of Granted but Locked-up Restricted Shares was reviewed and approved at the 1st extraordinary shareholders' meeting in 2022, 1st A Share shareholders' meeting in 2022 and the 1st H Share shareholders' meeting in 2022. The Company plans to repurchase and cancel a total of 126,162 thousand restricted shares that have been granted to 2,099 participants but not yet unlocked on 17 March 2022. After completion of the repurchase and cancellation, the Company's shares were reduced by 126,162 thousand. As at 31 December 2022, the shares of the Company were 15,579,809 thousand.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### GENERAL INFORMATION (CONT'D) 1

In addition, Electric Holdings increased or reduced the Company's shares through the centralised price bidding system of Shanghai Stock Exchange ("SSE"). As at 31 December 2022, Electric Holdings held 7,442,102 thousand A shares and 313,642 thousand H shares of the Company, totalling 7,755,744 thousand shares, accounting for 49.78% of the total share capital of the Company.

The parent company and ultimate holding company of the Company is Electric Holdings.

The Company performed the business registration formalities for integrating the original business license, the organisation code certificate, and the certificate of taxation registration into one document on 17 February 2016. After integration, the united social credit code of the Company's business license is 91310000759565082B. Other registration items on the Company's business license remain the same. The RMB-denominated ordinary A shares and the overseas listed foreign H shares issued by the Company were listed on SSE and the Stock Exchange of Hong Kong ("HKSE"), respectively. As at 31 December 2022, the share capital structure of the Company was detailed in Note 4(50).

The registered office of the Company's headquarters is F30, Shanghai Maxdo Centre, No. 8 Xingyi Road, Shanghai, China. The Company and its subsidiaries (collectively "the Group") operate in manufacturing industry and the approved scope of business includes:

- Energy equipment business segment: design, manufacture and sales of coal-fired power generation and auxiliary equipment, gas power generation equipment, wind power equipment, nuclear power equipment, energy storage equipment, high-end vessels for chemical industry; provision of power grid and industrial intelligent power supply system solutions;
- Industrial equipment business segment: design, manufacture and sales of elevators, large and medium sized electrical motors, intelligent manufacturing equipment, industrial base parts, construction industrialisation equipment; and
- Integration service business segment: provision of energy, environmental protection and automation engineering and services, covering traditional and new energy, comprehensive utilization of solid waste, sewage treatment, flue gas treatment, rail transit, etc; provision of industrial Internet services; provision of financial services, including financial leasing, factoring, asset management, insurance brokerage, etc; provision of property management services based on industrial real estate, etc.

The major subsidiaries included in the scope of consolidation for the year are detailed in Note 6, and the subsidiaries newly included in the consolidation scope for the year are detailed in Note 5(1), (3), subsidiaries that are no longer included in the consolidation scope for the year are detailed in Note 5(2).

These financial statements were authorised for issue by the Company's Board of Directors on 29 March 2023.

The Group determines the specific accounting policies and accounting estimates based on the features of its production and operation, mainly represented in the measurement of ECL of notes receivable, receivables, contract assets, finance lease receivables and loans and advances (Note 2(9)), valuation of inventories (Note 2(10)), depreciation of fixed assets, amortisation of intangible assets and right-of-use assets (Note 2(14), (17)), criterion for capitalisation of development expenditures (Note 2(17)), measurement of investment properties (Note 2(13)), impairment assessment on goodwill (Note 2(19)), onerous contracts recognition (Note 2(22)), and revenue recognition (Note 2(23)), etc.

Details of the Group's critical judgements, critical accounting estimates and key assumptions applied in determining significant accounting policies are set out in Note 2(32).

# (1) Basis of preparation

The financial statements are prepared in accordance with the Accounting Standard for Business Enterprises - Basic Standard, and the specific accounting standards and other relevant regulations issued by the Ministry of Finance on 15 February 2006 and in subsequent periods (hereafter collectively referred to as "the Accounting Standards for Business Enterprises" or "CASs"); and are also prepared in accordance with the Public Information Disclosure and Compilation Rules for Public Offering of Securities No. 15- General Provisions for Financial Reporting issued by China Securities Regulatory Commission.

The financial statements are prepared on a going concern basis.

The new Hong Kong Companies Ordinance came into effect on 3 March 2014. Certain related matters in the financial statements have been disclosed in accordance with the requirements of the Hong Kong Companies Ordinance.

### (2) Statement of compliance with the Accounting Standards for Business Enterprises

The financial statements of the Company for the year ended 31 December 2022 are in compliance with the Accounting Standards for Business Enterprises, and truly and completely presented the consolidated and company's financial position of the Company as at 31 December 2022 and their financial performance, cash flows and other information for the year then ended.

#### (3) Accounting year

The Company's accounting year starts on 1 January and ends on 31 December.

# (4) Recording currency

The recording currency of the Company and the Company's domestic subsidiaries is Renminbi ("RMB").

Subsidiaries overseas, joint ventures and associates of the Group determine their recording currencies according to the major economic environment in which they operate. The financial statements are presented in RMB.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

### (5) Business combinations

(a) Business combinations involving enterprises under common control

The consideration paid and net assets obtained by the combining party in a business combination are measured at the carrying amount. If the combined party is acquired from a third party by the ultimate controlling party in a prior year, the consideration paid and net assets obtained by the combining party are measured based on the carrying amounts of the combined party's assets and liabilities (including the goodwill arising from the acquisition of the combined party by the ultimate controlling party) presented in the consolidated financial statements of the ultimate controlling party. The difference between the carrying amount of the net assets obtained from the combination and the carrying amount of the consideration paid for the combination is treated as an adjustment to capital surplus (share premium). If the capital surplus (share premium) is not sufficient to absorb the difference, the remaining balance is adjusted against retained earnings. Costs directly attributable to the combination are included in profit or loss in the period in which they are incurred. Transaction costs associated with the issue of equity or debt securities for the business combination are included in the initially recognised amounts of the equity or debt securities.

(b) Business combinations involving enterprises not under common control

The cost of combination and identifiable net assets obtained by the acquirer in a business combination are measured at fair value at the acquisition date. Where the cost of the combination exceeds the acquirer's interest in the fair value of the acquirer's identifiable net assets, the difference is recognised as goodwill; where the cost of combination is lower than the acquirer's interest in the fair value of the acquirer's identifiable net assets, the difference is recognised in profit or loss for the current period. Costs directly attributable to the combination are included in profit or loss in the period in which they are incurred. Transaction costs associated with the issue of equity or debt securities for the business combination are included in the initially recognised amounts of the equity or debt securities.

## (6) Preparation of consolidated financial statements

The consolidated financial statements comprise the financial statements of the Company and all of its subsidiaries.

Subsidiaries are consolidated from the date on which the Group obtains control and are de-consolidated from the date that such control ceases. For a subsidiary that is acquired in a business combination involving enterprises under common control, it is included in the consolidated financial statements from the date when it, together with the Company, comes under common control of the ultimate controlling party. The portion of the net profit realised before the combination date is presented separately in the consolidated income statement.

In preparing the consolidated financial statements, where the accounting policies and the accounting periods of the Company and subsidiaries are inconsistent, the financial statements of the subsidiaries are adjusted to align with the accounting policies and the accounting period of the Company. For subsidiaries acquired from business combinations involving enterprises not under common control, the individual financial statements of the subsidiaries are adjusted based on the fair value of the identifiable net assets at the acquisition date.

# (6) Preparation of consolidated financial statements (Cont'd)

All significant intra-group balances, transactions and unrealised profits are eliminated in the consolidated financial statements. The portion of subsidiaries' shareholders' equity and the portion of subsidiaries' net profits and losses and total comprehensive incomes for the period attributable to the Company are recognised as minority interests, net profit attributable to minority interests and total comprehensive incomes attributable to minority interests, and presented separately in the consolidated financial statements under shareholders' equity, net profit and total comprehensive income respectively. Where the loss for the current period attributable to the minority shareholders of the subsidiaries exceeds the share of the minority interests in the opening balance of owners' equity, the excess is deducted against minority interests. Unrealised profits and losses resulting from the sales of assets by the Company to its subsidiaries are fully eliminated against net profit attributable to owners of the parent. Unrealised profits and losses resulting from the sales of assets by a subsidiary to the Company are eliminated and allocated between net profit attributable to owners of the parent and net profit attributable to minority interests in accordance with the allocation proportion of the parent in the subsidiary. Unrealised profits attributable to owners of the parent and net profit attributable to minority interests in accordance with the allocation proportion of the parent in the subsidiary.

If the accounting treatment of a transaction is inconsistent in the financial statements at the Group level and at the Company or its subsidiary level, adjustment will be made from the perspective of the Group.

### (7) Cash and cash equivalents

Cash and cash equivalents comprise cash on hand, deposits that can be readily drawn on demand, and short-term and highly liquid investments that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value.

## (8) Foreign currency translation

(a) Foreign currency transactions

Foreign currency transactions are translated into RMB using the exchange rates prevailing at the dates of the transactions.

At the balance sheet date, monetary items denominated in foreign currencies are translated into recording currency using the spot exchange rates on the balance sheet date. Exchange differences arising from these translations are recognised in profit or loss for the current period, except for those attributable to foreign currency borrowings that have been taken out specifically for acquisition or construction of qualifying assets, which are capitalised as part of the cost of those assets. Non-monetary items denominated in foreign currencies that are measured at historical costs are translated at the balance sheet date using the spot exchange rates at the date of the transactions. The effect of exchange rate changes on cash is presented separately in the cash flow statement.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (8) Foreign currency translation (Cont'd)

# (b) Translation of foreign currency financial statements

The asset and liability items in the balance sheets for overseas operations are translated at the spot exchange rates on the balance sheet date. Among the shareholders' equity items, the items other than "retained earnings" are translated at the spot exchange rates of the transaction dates. The income and expense items in the income statements of overseas operations are translated at the spot exchange rates of the transaction dates. The differences arising from the above translation are presented in other comprehensive income. The cash flows of overseas operations are translated at the spot exchange rates on the dates of the cash flows. The effect of exchange rate changes on cash is presented separately in the cash flow statement.

#### (9) Financial instruments

A financial instrument is any contract that gives rise to a financial asset of one entity and a financial liability or equity instrument of another entity. A financial asset or a financial liability is recognised when the Group becomes a party to the contractual provisions of the instrument.

### (a) Financial assets

#### (i) Classification and measurement

Based on the business model for managing the financial assets and the contractual cash flow characteristics of the financial assets, financial assets are classified as: (1) financial assets at amortised cost; (2) financial assets at fair value through other comprehensive income; (3) financial assets at fair value through profit or loss.

The financial assets are measured at fair value at initial recognition. For financial assess at fair value through profit or loss, the related transaction costs are directly recognised in profit or loss. For other financial assets, the related transaction costs are included in initially recognised amounts. Accounts receivable or notes receivable arising from sales of goods or rendering of services excluding or without regard to significant financing components are initially recognised at the consideration that is entitled to be charged by the Group as expected.

#### Debt instruments

The debt instruments held by the Group refer to the instruments that meet the definition of financial liabilities from the perspective of the issuer, and are measured in the following three ways:

## (9) Financial instruments (Cont'd)

- (a) Financial assets (Cont'd)
- (i) Classification and measurement (Cont'd)

Measured at amortised cost:

The Group's business model for financial asset management aims to receive contractual cash flows. The contractual cash flow characteristics of such financial assets are consistent with basic loan arrangement, which means the cash flow generated at certain dates is only the payment for the principal and corresponding interest based on unpaid principal. The interest income of such financial assets is recognised using the effective interest method. Such financial assets mainly comprise cash at bank and on hand, notes receivable, accounts receivable, other receivables, debt investments and long-term receivables, etc. Debt investments and long-term receivables that are due within one year (inclusive) as from the balance sheet date are included in the current portion of non-current assets; debt investments with maturities of no more than one year (inclusive) at acquisition are included in other current assets.

Measured at fair value through other comprehensive income:

The Group's business model for the financial asset management aims to receive contractual cash flows and hold the financial assets for sale. The contractual cash flow characteristics of such financial assets are consistent with basic loan arrangement. Such financial assets are measured at fair value through other comprehensive income, except for the impairment gains or losses, foreign exchange gains and losses, and interest income calculated using the effective interest method which are recognised in profit or loss for the current period. Such financial assets mainly comprise receivables financing and other debt investments, etc. Other debt investments that are due within one year (inclusive) as from the balance sheet date are included in the current portion of non-current assets; other debt investments with maturities no more than one year (inclusive) at acquisition are included in other current assets.

Measured at fair value through profit or loss:

Debt instruments held by the Group that are not divided into those at amortised cost, or those measured at fair value through other comprehensive income, are measured at fair value through profit or loss and included in financial assets held for trading. At initial recognition, the Group designates a portion of financial assets as at fair value through profit or loss to eliminate or significantly reduce accounting mismatches. Financial assets that are due over one year as from the balance sheet date and are expected to be held over one year are included in other non-current financial assets. Others are included in financial assets held for trading.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (9) Financial instruments (Cont'd)

- (a) Financial assets (Cont'd)
- (i) Classification and measurement (Cont'd)

#### Equity instruments

Investments in equity instruments, over which the Group exerts no control, joint control or significant influence, are measured at fair value through profit or loss under financial assets held for trading; investments in equity instruments expected to be held over one year as from the balance sheet date are included in other non-current financial assets.

In addition, at initial recognition, a portion of certain investments in equity instruments not held for trading are designated as financial assets at fair value through other comprehensive income under investments in other equity instruments. The relevant dividend income of such financial assets is recognised in profit or loss for the current period.

#### (ii) Impairment

Loss provision for financial assets at amortised cost, investments in debt instruments at fair value through other comprehensive income, as well as contract assets, finance lease receivables, financial guarantee contracts and loan commitments is recognised on the basis of ECL.

Giving consideration to reasonable and supportable information on past events, current conditions and forecasts of future economic conditions that is available without undue cost or effort at the balance sheet date, as well as the default risk weight, the Group recognises the ECL as the probability-weighted amount of the present value of the difference between the cash flows receivable from the contract and the cash flows expected to collect.

For notes receivable, accounts receivable, receivables financing and contract assets caused by sales of goods, rendering of services and other daily operating activities, no matter whether there exists a significant financing component, the Group measures the loss provision based on the lifetime ECL. For finance lease receivables, the Group measures the loss provision according to the lifetime ECL.

As at each balance sheet date, the ECL of financial instruments at different stages other than aforesaid notes receivable, accounts receivable, receivables financing, contract assets and finance lease receivables is measured respectively. 12-month ECL provision is recognised for financial instruments in Stage 1 that have not had a significant increase in credit risk since initial recognition; lifetime ECL provision is recognised for financial instruments in Stage 2 that have had a significant increase in credit risk yet without credit impairment since initial recognition; and lifetime ECL provision is recognised for financial instruments in Stage 3 that have had credit impairment since initial recognition.

For the financial instruments with lower credit risk at the balance sheet date, the Group assumes there is no significant increase in credit risk since initial recognition, determines them as the financial instruments in Stage 1 and recognises the 12-month ECL provision.

### (9) Financial instruments (Cont'd)

(a) Financial assets (Cont'd)

### (ii) Impairment (Cont'd)

For the financial instruments in Stage 1 and Stage 2, the interest income is calculated based on book balance without deduction of impairment provision and the effective interest rate. For the financial instrument in Stage 3, the interest income is calculated based on amortised cost by using book balance less impairment provision appropriated and the effective interest rate.

For trade acceptance notes receivable, accounts receivable and contract assets with significantly different credit risk characteristics and occurrence of credit impairment, the Group evaluated the distribution of expected cash flows under multiple scenarios based on historical credit loss experience, operating model, current situations and forecasts of future conditions of contract counterparties under different situations, taking into account the professional legal advice from external lawyers and the asset preservation related to the litigation, and made corresponding provision for ECL according to ECL rate and the related probability weight under different scenarios.

Receivables without occurrence of credit impairment or the ECL cannot be estimated for an individual financial asset at a reasonable cost, the Group groups the receivables based on its judgement whether there are significant differences in customers' credit risk characteristics and measures the ECL based on groups. Basis for determining groupings is as follows:

#### 1. Notes receivable

Grouping 1 Bank acceptance notes
Grouping 2 Trade acceptance notes

#### 2. Accounts receivable

Grouping 1 Account receivable aging by industry
Grouping 2 sovereign credit account receivable

### 3. Receivables financing

Grouping 1 Bank acceptance notes
Grouping 2 Accounts receivable ageing

#### 4. Contract assets

Grouping Contract assets

### 5. Other receivables

Grouping 1 Deposits and guarantees Grouping 2 Employee reserve fund

Grouping 3 Others

#### 6. Loans and discounts

Grouping 1 Loans and advances
Grouping 2 Discount of notes

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (9) Financial instruments (Cont'd)

(a) Financial assets (Cont'd)

(ii) Impairment (Cont'd)

7. Long-term receivables
Grouping Finance lease receivables

8. Other debt investments
Grouping Other debt investments

Financial assets purchased under resale agreements
 Grouping Financial assets purchased under resale agreements

For bank acceptance notes receivable and receivables financing arising from sales of goods and rendering of services in the ordinary course of operating activities which are classified into groups, the Group calculates the ECL by referring to historical experience of credit losses, combining with the current situation and forecast of economic situation in the future, and based on exposure at default and the lifetime ECL rate.

For the trade acceptance notes receivable, accounts receivable and contract assets in groups, the Group makes reference to the historical experience of credit losses, combining with the current situation and forecast of economic situation in the future, and prepares the model which refers to the days overdue and the rate of the ECL during lifetime in order to measure the ECL.

For other receivables, loans and discounts, long-term receivables, other debt investments and financial assets purchased under resale agreements in groups, the Group calculates the ECL by referring to historical experience of credit losses, combining with the current situation and forecast of economic situation in the future, and based on exposure at default and the 12-month or lifetime ECL rate.

The Group recognises the loss provision made or reversed into profit or loss for the current period. For debt instruments held at fair value through other comprehensive income, the Group adjusts other comprehensive income while the impairment loss or gain is recognised in profit or loss for the current period.

## (9) Financial instruments (Cont'd)

(a) Financial assets (Cont'd)

#### (iii) Derecognition

A financial asset is derecognised when any of the below criteria is met: (1) the contractual rights to receive the cash flows from the financial asset expire; (2) the financial asset has been transferred and the Group transfers substantially all the risks and rewards of ownership of the financial asset to the transferee; (3) the financial asset has been transferred and the Group has not retained control of the financial asset, although the Group neither transfers nor retains substantially all the risks and rewards of ownership of the financial asset.

On derecognition of investments in other equity instruments, the difference between the carrying amount and the sum of the consideration received and the cumulative changes in fair value that had been recognised directly in other comprehensive income, is recognised in retained earnings. On derecognition of other financial assets, the difference between the carrying amount and the sum of the consideration received and the cumulative changes in fair value that had been recognised directly in other comprehensive income, is recognised in profit of loss for the current period.

### (b) Financial liabilities

Financial liabilities are classified as financial liabilities at amortised cost and financial liabilities at fair value through profit or loss at initial recognition.

Financial liabilities of the Group mainly comprise financial liabilities at amortised cost, including notes payable, accounts payable, other payables, borrowings and bonds payable, etc. Such financial liabilities are recognised initially at fair value, net of transaction costs incurred, and subsequently measured using the effective interest method. Financial liabilities that are due within one year (inclusive) are classified as current liabilities; those with maturities over one year but are due within one year (inclusive) from the balance sheet date are classified as current portion of non-current liabilities. Others are classified as non-current liabilities.

A financial liability is derecognised or partly derecognised when the underlying present obligation is discharged or partly discharged. The difference between the carrying amount of the derecognised portion of the financial liability and the consideration paid is recognised in profit or loss for the current period.

### (c) Determination of fair value of financial instruments

The fair value of a financial instrument that is traded in an active market is determined at the quoted price in the active market. The fair value of a financial instrument that is not traded in an active market is determined by using a valuation technique. In valuation, the Group adopts valuation techniques applicable in the current situation and supported by adequate available data and other information, selects inputs with the same characteristics as those of assets or liabilities considered in relevant transactions of assets or liabilities by market participants, and gives priority to the use of relevant observable inputs. When relevant observable inputs are not available or feasible, unobservable inputs are adopted.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

### (10) Inventories

(a) Classification

Inventories include raw materials, work in progress, goods in stock, materials in transit, self-produced semi-finished goods, repair accessories, low-value consumables and others, and are measured at the lower of cost and net realisable value.

(b) Valuation method for inventory issued

Cost is determined using the weighted average method or specific-unit-cost method. The cost of goods in stock, self-produced semi-finished goods and work in progress comprise raw materials, direct labour and systematically allocated production overhead based on the normal production capacity. Repair accessories and low-value consumables are expensed when issued.

(c) Basis for determining net realisable values of inventories and method for making provision for decline in the value of inventories

Provision for a decline in the value of inventories is determined as the excess amount of the carrying amount of the inventories over their net realisable value. Net realisable value is determined based on the estimated selling price in the ordinary course of business, less the estimated costs of completion and the estimated costs necessary to make the sale and related taxes.

(d) The Group adopts the perpetual inventory system.

# (11) Purchased under resale agreements transactions

Assets held under resale agreements with a certain resale date shall not be recognised in the balance sheet. For financial assets measured at amortised cost, the cost of acquisition is recognised in financial assets purchased under resale agreements on the balance sheet if the maturity is within one year (inclusive) at acquisition. The difference between the sale and repurchase prices is treated as an interest expense and is accrued over the life of the agreement using the effective interest method.

# (12) Long-term equity investments

Long-term equity investments comprise the Company's long-term equity investments in its subsidiaries, and the Group's long-term equity investments in its joint ventures and associates.

Subsidiaries are the investees over which the Company is able to exercise control. A joint venture is a joint arrangement which is structured through a separate vehicle over which the Group has joint control together with other parties and only has rights to the net assets of the arrangement based on legal forms, contractual terms and other facts and circumstances. An associate is the investee over which the Group has significant influence by participating in the financial and operating policy decisions.

Investments in subsidiaries are presented in the Company's financial statements using the cost method, and are adjusted to the equity method when preparing the consolidated financial statements; investments in joint ventures and associates are accounted for using the equity method.

# (12) Long-term equity investments (Cont'd)

### (a) Determination of investment cost

For long-term equity investments acquired through a business combination involving enterprises under common control, the investment cost shall be the absorbing party's share of the carrying amount of owners' equity of the party being absorbed in the consolidated financial statements of the ultimate controlling party at the combination date; for long-term equity investments acquired through a business combination involving enterprises not under common control, the investment cost shall be the combination cost.

For long-term equity investments acquired not through a business combination: for long-term equity investments acquired by payment in cash, the initial investment cost shall be the purchase price actually paid; for long-term equity investments acquired by issuing equity securities, the initial investment cost shall be the fair value of the equity securities issued.

### (b) Subsequent measurement and recognition of profit or loss

Long-term equity investments accounted for using the cost method are measured at initial investment cost. Cash dividend or profit distribution declared by the investees is recognised as investment income in profit or loss for the current period.

For long-term equity investments that are accounted for using the equity method, where the initial investment cost exceeds the Company's share of the fair value of the investee's identifiable net assets at the time of acquisition, the investment is initially measured at cost. Where the initial investment cost is less than the Company's share of the fair value of the investee's identifiable net assets at the time of acquisition, the difference is included in profit or loss for the current period and the cost of the long-term equity investment is adjusted upwards accordingly.

Under the equity method, the Group recognises the investment income according to its share of net profit or loss of the investee. The Group does not recognise further losses when the carrying amounts of the long-term equity investment together with any long-term interests that, in substance, form part of the Group's net investment in investees are reduced to zero. However, if the Group has obligations for additional losses and the criteria with respect to recognition of provisions are satisfied, the Group continues recognising the investment losses and the provisions at the amount it expects to undertake. The Group's share of changes in the investee's owners' equity other than those arising from the net profit or loss, other comprehensive income and profit distribution is recognised in capital surplus with a corresponding adjustment to the carrying amount of the long-term equity investment. The carrying amount of the investment is reduced by the Group's share of the profit distribution or cash dividends declared by the investee.

Unrealised gains or losses on transactions between the Group and its investees are eliminated to the extent of the Group's equity interest in the investees, based on which the investment income or losses are recognised in the Company's financial statements. In preparing the consolidated financial statements, for the portion of unrealised gains and losses attributable to the Group arising from downstream transactions in which the Group invests or sells assets to the investee, the Group offsets the portion attributable to the Group in relation to unrealised income and costs or profit or loss from disposal of assets and adjusts the investment income accordingly on the basis of the offsetting in the Company's financial statements; for the portion of unrealised gains and losses attributable to the Group arising from upstream transactions in which the investee invests or sells assets to the Group, the Group offsets the portion of the unrealised gains and losses included in the carrying amount of the relevant assets attributable to the Group and adjusts the carrying amount of long-term equity investments accordingly on the basis of the offsetting in the Company's financial statements. Any losses resulting from transactions between the Group and its investees, which are attributable to asset impairment losses are not eliminated.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (12) Long-term equity investments (Cont'd)

(c) Basis for determining existence of control, joint control or significant influence over investees

Control is the power to govern an investee, so as to obtain variable returns from its involvement with the investee, and has the ability to use its power over the investee to affect the amount of the investor's returns.

Joint control is the agreed sharing of control over an arrangement, and the decision of activities relating to such arrangement requires the unanimous consent of the Group and other parties sharing control.

Significant influence is the power to participate in making the decisions on financial and operating policies of the investee, but is not control or joint control over making those policies.

(d) Impairment of long-term equity investments

The carrying amounts of long-term equity investments in subsidiaries, joint ventures and associates are reduced to the recoverable amounts when the recoverable amounts are below their carrying amounts (Note 2(19)).

### (13) Investment properties

Investment properties, including land use rights that have already been leased out, buildings that are held for the purpose of leasing and buildings that are being constructed or developed for future use for leasing, are measured initially at cost. Subsequent expenditures incurred in relation to an investment property are included in the cost of the investment property when it is probable that the associated economic benefits will flow to the Group and their costs can be reliably measured; otherwise, the expenditures are recognised in profit or loss for the period in which they are incurred.

The Group adopts the cost model for subsequent measurement of investment properties which will be appreciated or amortised using the straight-line method over the useful life.

When an investment property is transferred to owner-occupied properties, it is reclassified as fixed asset or intangible asset at the date of the transfer. When an owner-occupied property is transferred out for earning rentals or for capital appreciation, the fixed asset or intangible asset is reclassified as investment properties at the date of the transfer. When reclassified, the carrying amount before the reclassification shall be recorded as the cost after the reclassification.

The investment property's estimated useful life, estimated net residual value and depreciation (amortisation) method applied are reviewed and adjusted as appropriate at each year-end.

An investment property is derecognised on disposal or when the investment property is permanently withdrawn from use and no future economic benefits are expected from its disposal. The net amount of proceeds from sale, transfer, retirement or damage of an investment property after its carrying amount and related taxes and expenses is recognised in profit or loss for the current period.

# (13) Investment properties (Cont'd)

The carrying amount of an investment property is reduced to the recoverable amount if the recoverable amount is below the carrying amount (Note 2(19)).

## (14) Fixed assets

(a) Recognition and initial measurement of fixed assets

Fixed assets comprise buildings, machinery and equipment, motor vehicles, office equipment and other equipment.

Fixed assets are recognised when it is probable that the related economic benefits will flow to the Group and the costs can be reliably measured. Fixed assets purchased or constructed by the Group are initially measured at cost at the time of acquisition. The fixed assets contributed by the state-owned shareholders at the reorganisation of the Company into a corporation entity are recognised based on the evaluated amounts approved by the state-owned assets administration department.

Subsequent expenditures incurred for a fixed asset are included in the cost of the fixed asset when it is probable that the associated economic benefits will flow to the Group and the related cost can be reliably measured. The carrying amount of the replaced part is derecognised. All the other subsequent expenditures are recognised in profit or loss for the period in which they are incurred.

### (b) Depreciation method for fixed assets

Fixed assets are depreciated using the straight-line method to allocate the cost of the assets to their estimated net residual values over their estimated useful lives. For the fixed assets that have been provided for impairment loss, the related depreciation charge is prospectively determined based upon the adjusted carrying amounts over their remaining useful lives.

The estimated useful lives, the estimated net residual values expressed as a percentage of cost and the annual depreciation rates of fixed assets are as follows:

|                                      | Estimated useful<br>lives | Estimated net residual values | Annual depreciation rates |
|--------------------------------------|---------------------------|-------------------------------|---------------------------|
| Buildings                            | 10 to 50 years            | 0 to 10%                      | 1.8% to 10%               |
| Machinery and equipment              | 5 to 20 years             | 0 to 10%                      | 4.5% to 20%               |
| Motor vehicles                       | 5 to 12 years             | 0 to 10%                      | 7.5% to 20%               |
| Office equipment and other equipment | 3 to 10 years             | 0 to 10%                      | 9% to 33.3%               |

The estimated useful life and the estimated net residual value of a fixed asset and the depreciation method applied to the asset are reviewed, and adjusted as appropriate at each year-end.

(c) The carrying amounts of fixed assets are reduced to the recoverable amounts when the recoverable amounts are below their carrying amounts (Note 2(19)).

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

### (14) Fixed assets (Cont'd)

(d) Disposal of fixed assets

A fixed asset is derecognised on disposal or when no future economic benefits are expected from its use or disposal. The amount of proceeds from disposal on sale, transfer, retirement or damage of a fixed asset net of its carrying amount and related taxes and expenses is recognised in profit or loss for the current period.

# (15) Construction in progress

Construction in progress is measured at actual cost as incurred. Actual cost comprises construction costs, installation costs, borrowing costs that are eligible for capitalisation and other costs necessary to bring the construction in progress ready for its intended use. Construction in progress is transferred to fixed assets when the assets are ready for their intended use, and depreciation is charged starting from the following month. The carrying amount of construction in progress is reduced to the recoverable amount when the recoverable amount is below its carrying amount (Note 2(19)).

# (16) Borrowing costs

The borrowing costs of the Group that are directly attributable to acquisition and construction of a fixed asset that needs a substantially long period of time for its intended use commence to be capitalised and recorded as part of the cost of the asset when expenditures for the asset and borrowing costs have been incurred, and the activities relating to the acquisition and construction that are necessary to prepare the asset for its intended use have commenced. The capitalisation of borrowing costs ceases when the asset under acquisition or construction becomes ready for its intended use and the borrowing costs incurred thereafter are recognised in profit or loss for the current period. Capitalisation of borrowing costs is suspended during periods in which the acquisition or construction of an asset is interrupted abnormally and the interruption lasts for more than 3 months, until the acquisition or construction is resumed.

For the specific borrowings obtained for the acquisition or construction of a fixed asset qualifying for capitalisation, the amount of borrowing costs eligible for capitalisation is determined by deducting any interest income earned from depositing the unused specific borrowings in the banks or any investment income arising in the temporary investment of those borrowings during the capitalisation period.

For the general borrowings obtained for the acquisition or construction of a fixed asset qualifying for capitalisation, the amount of general borrowing costs eligible for capitalisation is determined by applying the weighted average effective interest rate of general borrowings, to the weighted average of the excess amount of cumulative expenditures on the asset over the amount of specific borrowings. The effective interest rate is the interest rate used when the future cash flows of the borrowings over the estimated remaining deposit period or a shorter applicable period are discounted into the initial recognised amount of the borrowings.

# (17) Intangible assets

Intangible assets include land use rights, technology transfer fee, patent and license, franchise, computer software and others, and are measured at cost.

The land use rights acquired by the Group are generally accounted for as intangible assets. Relevant land use rights and buildings of the self-constructed plant are accounted for as the intangible assets and fixed assets. If the costs paid for the land use rights and the buildings located thereon cannot be reasonably allocated between the land use rights and the buildings, all of the costs are recognised as fixed assets.

The franchise is the right granted by the governments and relevant departments or PPP project implementation institutions authorised by the governments for the Group's involvement in the public-private partnership ("PPP") project contracts. The right may enable the Group to provide public products and services applying PPP project assets during the operation period of PPP project contracts and charge an uncertain amount from the users of the public products and services.

The Group recognises the excess of the construction income recognised for a PPP project over the determinable amount of cash or other financial assets that the Group is entitled to collect as intangible assets, which are amortised on a straightline basis over the period from the completion date of PPP project to the franchise termination date.

The estimated useful lives of the intangible assets are as follows:

|                              | Useful lives                        |
|------------------------------|-------------------------------------|
| Land use rights              | 30 to 50 years                      |
| Franchise                    | Operation period under the contract |
| Patent and license           | 5 to 40 years                       |
| Technology transfer fee      | 5 to 15 years                       |
| Computer software and others | 3 to 5 years                        |

For an intangible asset with a finite useful life, review of its useful life and amortisation method is performed at each yearend, with adjustment made as appropriate.

The expenditure on an internal research and development project is classified into expenditure on the research phase and expenditure on the development phase based on its nature and whether there is material uncertainty that the research and development activities can form an intangible asset at the end of the project.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (17) Intangible assets (Cont'd)

Expenditure on the planned investigation, evaluation and selection for the internal research and development projects is regarded as expenditure on the research phase, which is recognised in profit or loss in the period in which it is incurred. Expenditure on design and test for the final application of the research and development projects before mass production is expenditure on the development phase, which is capitalised only if all of the following conditions are satisfied:

- the development project has been fully justified by technical team;
- the budget for the project development has been approved by management;
- market research analysis proved the products produced by the development project has marketing capabilities;
- adequate technical and financial supports are available for development of the development project and subsequent mass production and the ability to use or sell the intangible asset; and expenditure on the development project can be reliably collected.

Other development expenditures that do not meet the conditions above are recognised in profit or loss in the period in which they are incurred. Development costs previously recognised as expenses are not recognised as an asset in a subsequent period. Capitalised expenditure on the development phase is presented as capitalised development expenditures in the balance sheet and transferred to intangible assets at the date when the asset is ready for its intended use.

The carrying amounts of intangible assets are reduced to the recoverable amounts when the recoverable amounts are below their carrying amounts (Note 2(19)).

### (18) Long-term prepaid expenses

Long-term prepaid expenses include the expenditure for improvements to fixed assets held under operating leases, and other expenditures that have been incurred but should be recognised as expenses over more than one year in the current and subsequent periods. Long-term prepaid expenses are amortised on the straight-line basis over the expected beneficial period and are presented at actual expenditure net of accumulated amortisation.

The long-term prepaid expenses are amortised on the straight-line basis as follows:

|  | Amortisation period |
|--|---------------------|
| Improvements to fixed assets held under leases | 5 to 10 years       |
| Renovation expenditures                        | 2 to 8 years        |
| Decoration expenditures                        | 5 years             |
| Power expansion expenditures                   | 10 years            |
| Others   | 2 to 5 years        |

# (19) Impairment of long-term asset

Fixed assets, construction in progress, right-of-use assets, intangible assets with finite useful lives, investment properties measured using the cost model and long-term equity investments in subsidiaries, joint ventures and associates are tested for impairment if there is any indication that the assets may be impaired at the balance sheet date; intangible assets not ready for their intended use are tested at least annually for impairment, irrespective of whether there is any indication that it may be impaired. If the result of the impairment test indicates that the recoverable amount of an asset is less than its carrying amount, a provision for impairment and an impairment loss are recognised for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell and the present value of the future cash flows expected to be derived from the asset. Provision for asset impairment is determined and recognised on the individual asset basis. If it is not possible to estimate the recoverable amount of an individual asset, the recoverable amount of a group of assets to which the asset belongs is determined. A group of assets is the smallest group of assets that is able to generate independent cash inflows.

Goodwill that is separately presented in the financial statements is tested at least annually for impairment, irrespective of whether there is any indication that it may be impaired. In conducting the test, the carrying amount of goodwill is allocated to the related asset group or groups of asset groups which are expected to benefit from the synergies of the business combination. If the result of the test indicates that the recoverable amount of an asset group or a group of asset groups, including the allocated goodwill, is lower than its carrying amount, the corresponding impairment loss is recognised. The impairment loss is first deducted from the carrying amount of goodwill that is allocated to the asset group or group of asset groups, and then deducted from the carrying amounts of other assets within the asset group or group of asset groups in proportion to the carrying amounts of assets other than goodwill.

Once the above asset impairment loss is recognised, it will not be reversed for the value recovered in any subsequent periods.

# (20) Employee benefits

Employee benefits refer to all forms of consideration or compensation given by the Group in exchange for service rendered by employees or for termination of employment relationship, which include short-term employee benefits, post-employment benefits, termination benefits and other long-term employee benefits.

# (a) Short-term employee benefits

Short-term employee benefits include employee wages or salaries, bonus, allowances and subsidies, staff welfare, premiums or contributions on medical insurance, work injury insurance and maternity insurance, housing funds, labour union funds and employee education costs. The short-term employee benefits actually occurred are recognised as a liability in the accounting period in which the service is rendered by the employees, with a corresponding charge to the profit or loss for the current period or the cost of relevant assets. Non-monetary benefits are measured at fair value.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (20) Employee benefits (Cont'd)

# (b) Post-employment benefits

The Group classifies post-employment benefit plans as either defined contribution plans or defined benefit plans. Defined contribution plans are post-employment benefit plans under which the Group pays fixed contributions into a separate fund and will have no obligation to pay further contributions; and defined benefit plans are post-employment benefit plans other than defined contribution plans. During the reporting period, the Group's post-employment benefits mainly include basic pensions and unemployment insurance, both of which belong to the defined contribution plans except for a defined beneficial pension plan operated by part of overseas companies.

#### Basic pensions

The Group's employees participate in the basic pension plan set up and administered by local authorities of Ministry of Human Resource and Social Security. Monthly payments of premiums on the basic pensions are calculated according to the bases and percentage prescribed by the relevant local authorities. When employees retire, the relevant local authorities are obliged to pay the basic pensions to them. The amounts based on the above calculations are recognised as liabilities in the accounting period in which the service has been rendered by the employees, with a corresponding charge to profit or loss for the current period or the cost of relevant assets.

#### Defined benefit plan

Some overseas companies of the Group have set up a defined beneficial pension plan. The present value of defined benefit plan obligation is calculated annually by an independent actuary using projected unit credit method, which is based on quality corporate bond interest rate, similar as the duration and currency of the employee benefits obligation. The net liability of present value of defined benefit plan obligation net of the fair value of plan assets is presented as long-term benefits payable in the balance sheet. Service costs related to the plan (including current service cost, past service costs and settled gains or losses) and net interest calculated based on defined benefit plan net liability and applicable discount rate are recognised as profit and loss for the current period or cost of relevant assets and changes in remeasurement of defined benefit plans liabilities as other comprehensive income.

#### (c) Termination benefits

The Group provides compensation for terminating the employment relationship with employees before the end of the employment contracts or as an offer to encourage employees to accept voluntary redundancy before the end of the employment contracts. The Group recognises a liability arising from compensation for termination of the employment relationship with employees, with a corresponding charge to profit or loss for the current period at the earlier of the following dates: 1) when the Group cannot unilaterally withdraw an employment termination plan or a curtailment proposal; 2) when the Group recognises costs or expenses for a restructuring that involves the payment of termination benefits.

The termination benefits expected to be settled within one year since the balance sheet date are classified as other current liabilities.

## (21) Dividend distribution

Cash dividends are recognised as liabilities in the period in which the dividends are approved by the shareholders' meeting.

### (22) Provisions

Provisions for product warranties, onerous contracts, litigation, etc. are recognised when the Group has a present obligation, it is probable that an outflow of economic benefits will be required to settle the obligation, and the amount of the obligation can be measured reliably.

A provision is initially measured at the best estimate of the expenditure required to settle the related present obligation. Factors surrounding a contingency, such as the risks, uncertainties and the time value of money, are taken into account as a whole in reaching the best estimate of a provision. Where the effect of the time value of money is material, the best estimate is determined by discounting the related future cash outflows. The increase in the discounted amount of the provision arising from passage of time is recognised as interest expenses.

The carrying amount of provisions is reviewed at each balance sheet date and adjusted to reflect the current best estimate.

The loss provision of financial guarantee contracts and provision for loan commitments based on the ECL are presented as provisions by the Group.

The provisions expected to be settled within one year since the balance sheet date are classified as other current liabilities.

### (23) Revenue recognition

The Group recognises revenue at the amount of the consideration which the Group expects to be entitled to receive when the customer obtains control over relevant goods or services. If there is a variable consideration in the contract, the Group determines the best estimate of the variable consideration based on the expected value or the most likely amount, and the transaction price including the variable consideration does not exceed the cumulative recognized revenue when the relevant uncertainty is eliminated for which a material reversal would occur. On the balance sheet date, the Group reestimates the variable consideration that should be included in the transaction price.

The specific accounting policies for revenue from main activities of the Group are as follows:

#### Revenue from sales of goods

Revenue is recognised when the Group has delivered the products to the location specified in the sales contract and the customer has confirmed the acceptance of the products. The credit period granted to customers by the Group is determined based on their credit risk characteristics, which is consistent with industry practice, and there is no significant financing component.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (23) Revenue recognition (Cont'd)

The specific accounting policies for revenue from main activities of the Group are as follows (Cont'd):

#### Revenue from rendering of services

The Group provides service to external parties. The related revenue is recognised based on the stage of completion within a certain period, which is determined based on proportion of costs incurred to date to the estimated total costs. On the balance sheet date, the Group re-estimates the stage of completion to reflect the actual status of contract fulfilment.

When the Group recognises revenue based on the stage of completion, the amount with unconditional collection right obtained by the Group is recognised as accounts receivable, and the rest is recognised as contract assets. Meanwhile, loss provision for accounts receivable and contract assets are recognised on the basis of ECL (Note 2(9)). If the contract price received or receivable exceeds the amount for the completed service, the excess portion will be recognised as contract liabilities. Contract assets and contract liabilities under the same contract are presented on a net basis.

#### Revenue from construction services

The Group provides construction services to external parties and the revenue is recognised according to the stage of performance. The stage of performance is determined by reference to the proportion of costs incurred to date to the estimated total cost or the proportion of completed certified value to total contract value of the relevant contracts. Except for the revenues of a portion of contracts that were recorded by reference to the proportion of completed certified value to total contract value as the basis to estimate the progress, the revenues for the majority of contracts of the Group were recognised by reference to the proportion of costs incurred to date to the estimated total costs of the relevant contracts. At the balance sheet date, the Group re-estimates the stage of completion to reflect the actual status of contract performance.

When the Group recognises revenue based on the stage of performance, the amount with unconditional collection right obtained by the Group is recognised as accounts receivable, and the rest is recognised as contract assets. Meanwhile, loss provision for accounts receivable and contract assets are recognised on the basis of ECL (Note 2(9)). If the contract price received or receivable exceeds the amount for the completed construction service, the excess portion will be recognised as contract liabilities. Contract assets and contract liabilities under the same contract are presented on a net basis.

Contract costs include contract performance costs and contract acquisition costs. Costs incurred for provision of construction services are recognised as contract performance costs, which is carried forward to the operating cost of main operations based on the stage of completion when recognising revenue. Incremental costs incurred by the Group for the acquisition of engineering service contract are recognised as the contract acquisition costs. For contract acquisition costs with the amortisation period within one year, the costs are included in the current profit or loss when incurred. For contract acquisition costs with the amortisation period beyond one year, the costs are included in the current profit or loss on the same basis as recognition of revenue from rendering of engineering service under relevant contract. If the carrying amount of the contract costs is higher than the remaining consideration expected to be obtained by rendering of the service net of the estimated cost to be incurred, the Group makes provision for impairment on the excess portion and recognises it as asset impairment losses, and considers whether to make provisions about onerous contracts (Note 2(22)). As at the balance sheet date, based on whether the amortisation period of the contract performance costs is more than one year when initially recognised, the amount of the Group's contract performance costs net of related provision for asset impairment is presented as inventories or other non-current assets. For contract acquisition costs with amortisation period beyond one year at the initial recognition, the amount net of related provision for asset impairment is presented as other non-current assets.

# (23) Revenue recognition (Cont'd)

The specific accounting policies for revenue from main activities of the Group are as follows (Cont'd):

#### Revenue from PPP project contracts

The Group provides PPP project asset construction, operation and maintenance thereafter, and other services as agreed in the PPP project contracts. When providing PPP project asset construction services or subcontracting these services to other parties, the Group judges whether it is acting as a principal or an agent based on if it has the control over relevant goods or services before being transferred to customers, and recognises revenue and contract assets during the construction period.

During the operation period, the Group is entitled to charge fees from those who obtain public products and services but there is an uncertainty to the charge amount. When the PPP project assets are ready for their intended use, the confirmed construction income shall be recognised as intangible assets, and the contract assets recognised during the relevant construction period shall also be included in intangible assets. During the operation period, where the Group is eligible to collect a determinable amount of cash or other financial assets, the consideration shall be recognised as receivables when the Group has the right to collect (only depending on the passage of time), and the contract assets recognised during the construction period shall be presented as contract assets or other non-current assets according to whether they are expected to be realised within one year as from the balance sheet date.

#### (24) Government grants

Government grants refer to the monetary or non-monetary assets obtained by the Group from the government, including tax return, financial subsidy, etc.

Government grants are recognised when the grants can be received and the Group can comply with all attached conditions. If a government grant is a monetary asset, it will be measured at the amount received or receivable. If a government grant is a non-monetary asset, it will be measured at its fair value. If it is unable to obtain its fair value reliably, it will be measured at its nominal amount.

Government grants related to assets refer to government grants which are obtained by the Company for the purposes of purchase, construction or acquisition of the long-term assets. Government grants related to income refer to the government grants other than those related to assets.

Government grants related to assets are recorded as deferred income and recognised in profit or loss on a reasonable and systemic basis over the useful lives of the assets.

Monetary government grants which are used to compensate the relevant costs or losses in the subsequent period are recognized as deferred revenue and recorded into the current profit and loss during the period when the relevant costs or losses are recognized. If it is used to compensate the incurred costs or losses, it will be directly recorded into the current profit and loss.

The Group applies the presentation method consistently to the similar government grants in the financial statements.

Government grants that are related to ordinary activities are included in operating profit, otherwise, they are recorded in non-operating income and expenses.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

### (25) Deferred tax assets and deferred tax liabilities

Deferred tax assets and liabilities are calculated and recognised based on the differences arising between the tax bases of assets and liabilities and their carrying amounts (temporary differences). Deferred tax asset is recognised for the deductible losses that can be carried forward to subsequent years for deduction of the taxable profit in accordance with the tax laws. No deferred tax liability is recognised for a temporary difference arising from the initial recognition of goodwill. No deferred tax asset or deferred tax liability is recognised for the temporary differences resulting from the initial recognition of assets or liabilities due to a transaction other than a business combination, which affects neither accounting profit nor taxable profit (or deductible loss). At the balance sheet date, deferred tax assets and deferred tax liabilities are measured at the tax rates that are expected to apply to the period when the asset is realised or the liability is settled.

Deferred tax assets are only recognised for deductible temporary differences, deductible losses and tax credits to the extent that it is probable that taxable profit will be available in the future against which the deductible temporary differences, deductible losses and tax credits can be utilised.

Deferred tax liabilities are recognised for temporary differences arising from investments in subsidiaries, associates and joint ventures, except where the Group is able to control the timing of reversal of the temporary difference, and it is probable that the temporary difference will not reverse in the foreseeable future. When it is probable that the temporary differences arising from investments in subsidiaries, associates and joint ventures will be reversed in the foreseeable future and that the taxable profit will be available in the future against which the temporary differences can be utilised, the corresponding deferred tax assets are recognised.

Deferred tax assets and liabilities are offset when:

- the deferred tax assets and liabilities are related to the same tax payer within the Group and the same taxation authority; and.
- that tax payer within the Group has a legally enforceable right to offset current tax assets against current tax liabilities.

# (26) Share-based payments

The stock option plan and the restricted share incentive scheme implemented by the Group are both treated as equity-settled share-based payments.

The equity-settled share-based payments in exchange for employee services are measured at the fair value of the equity instruments granted to the employees at the granting date. The equity-settled share-based payments are exercisable after the services vesting period are completed or the performance requirements are met. At each balance sheet date within the vesting period, the Group makes the best estimate of the number of vested equity instruments according to the latest information such as changes in the number of employees with exercisable rights and whether they meet the performance requirements, etc. The services obtained in the current period shall, based on the best estimate, be included in the profit or loss for the current period at the fair value of the equity instruments at the granting date.

## (26) Share-based payments (Cont'd)

Where the share-based payments cannot be exercised finally, its costs or expenses are not recognised unless the vesting conditions are market conditions or non-vesting conditions. In this regard, whether the market conditions or non-vesting conditions are satisfied or not, the payments are deemed to be exercisable only when the non-market conditions among all of the exercisable conditions are satisfied.

When the Group modifies the terms of a share-based payment scheme, if the modification increases the fair value of the equity instruments granted, the Group recognises the service additions based on the difference between the fair value of the equity instruments before and after the modification as of the date of modification. If the Group modifies vesting conditions in a favourable manner to the employees, the Group shall account for in accordance with modified vesting conditions. If the Group modifies vesting conditions in an unfavourable manner to employees, the Group shall not consider such modifications when accounting for, unless the Group cancels all or part of equity instruments granted. If the Group cancels a granted equity instrument, it is treated as an accelerated exercise on the date of cancellation, and the amount that would have been recognised over the remaining vesting period is immediately recognised in profit or loss for the current period, together with capital surplus.

If the Group needs to repurchase restricted shares that have lapsed or become null and void without being unlocked, the Group recognises liabilities and treasury stocks based on the number of restricted shares and at the pre-agreed repurchase price.

#### (27) Leases

Lease refers to a contract in which the lessor transfers the use right of the assets to the lessee in a certain period of time to obtain the consideration.

#### The Group as the lessee

At the commencement date, the Group shall recognise the right-of-use asset and measure the lease liabilities at the present value of the lease payments that are not paid at that date. Lease payments include fixed payments, the exercise price of a purchase option if the lessee is reasonably certain to exercise that option, and payments of penalties for terminating the lease if the lessee exercises an option to terminate the lease. Variable lease payments in proportion to sales are excluded from lease payments and recognised in profit or loss as incurred. Lease liabilities that are due within one year (inclusive) from the balance sheet date are included in the current portion of non-current liabilities.

Right-of-use assets of the Group comprise buildings, machinery and equipment, motor vehicles, computers and electronic equipment that are held under leases. Right-of-use assets are measured initially at cost which comprises the amount of the initial measurement of lease liabilities, any lease payments made at or before the commencement date and any initial direct costs, less any lease incentives received. If there is reasonable certainty that the Group will obtain ownership of the underlying asset by the end of the lease term, the asset is depreciated over its remaining useful life; otherwise, the asset is depreciated over the shorter of the lease term and its remaining useful life. The carrying amount of the right-of-use asset is reduced to the recoverable amount when the recoverable amount is below the carrying amount.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

### (27) Leases (Cont'd)

#### The Group as the lessee (Cont'd)

For short-term leases with a term of 12 months or less and leases of an individual asset (when new) of low value, the Group chooses to include the lease payments in the cost of the underlying assets or in the profit or loss for the current period on a straight-line basis over the lease term, instead of recognising right-of-use assets and lease liabilities.

#### The Group as the lessor

Lease that transfers substantially almost all the risks and rewards incidental to ownership of a lease asset is a finance lease. An operating lease is a lease other than a finance lease.

### (a) Operating leases

Where the Group leases out self-owned buildings, machinery and equipment, and motor vehicles under operating leases, rental income therefrom is recognised on a straight-line basis over the lease term. Variable rental that is linked to a certain percentage of sales is recognised in rental income as incurred.

#### (b) Finance leases

At the lease commencement date, the Group recognises the lease payments receivable under a finance lease and derecognises the relevant assets. When the finance lease receivables are initially measured, the net lease investment is recorded as the carrying amount of the finance lease receivables. The net lease investment represents the sum of the unguaranteed residual value and the present value of the lease payments receivable that have not been received at the lease commencement date discounted at the interest rate implicit in the lease. The finance lease receivables are presented as long-term receivables; finance lease receivables due within one year (inclusive) as from the balance sheet date are included in the current portion of non-current assets.

#### (c) Sale-leaseback

The Group assesses whether the transfer of assets in the sale-leaseback transactions qualifies as a sale in accordance with Note 2(23).

When the transfer of assets in the sale-leaseback transactions qualifies as a sale, the Group, as the lessor, accounts for the asset acquisition and the asset lease in accordance with the above provisions. When the transfer of assets in the sale-leaseback transactions does not qualify as a sale, the Group, as the lessor, does not recognise the transferred assets. Instead, it recognises a financial asset with the equivalent amount of the transferred income, which is recognised as a receivable from the sale-leaseback transaction. The sale-leaseback receivable is presented as long-term receivables. The sale-leaseback receivable due within one year (inclusive) as from the balance sheet date is presented as current portion of non-current assets.

# (28) Derivative financial instruments and hedging instruments

The Group uses derivative financial instruments held or issued to hedge its exposure on foreign exchange and interest rate risks. Derivative financial instruments are initially recognised at fair value on the date a derivative contract is entered into and are subsequently measured at their fair value. The derivative financial instrument is carried as assets when the fair value is positive and as liabilities when the fair value is negative.

The method for recognising changes in fair value of the derivative financial instrument depends on whether the derivative financial instrument is designated as a hedging instrument and meets the requirement for it, and if so, the nature of the item being hedged. For those not designated as or not qualified as the hedging instrument, including the derivative financial instruments aimed at providing hedge for specific interest and exchange rate risk but not satisfying the hedging accounting requirements, the changes in fair value are recognised in "gains on changes in fair value" in the income statement.

At the inception of the hedge, the Group documents the hedging relations between hedging instrument and hedged item, as well as risk management objectives and hedging strategies. The Group also documents its assessment, both at hedge inception and in subsequent periods, of whether the derivative financial instruments that are used in hedging businesses are highly effective in offsetting changes in fair values or cash flows of hedged items.

#### (a) Fair value hedges

A fair value hedge refers to a hedge of the exposure to changes in fair value of a recognised asset or liability or an unrecognised firm commitment, or to changes in the identifiable portion of the asset or liability of an unrecognised firm commitment. Such changes in value are attributable to a particular risk and could affect profit or loss.

For a hedging instrument satisfying the requirements for fair value hedge, the changes in its fair value together with the changes in fair value arising from exposures to the hedged item are recognised in the income statements for the current period, and their net impacts are recorded in the income statement for the current period as the ineffective portion of the hedge.

If a hedging relation no longer satisfies the requirements of hedge accounting, the adjustment to the carrying amount of a hedged item measured at amortised cost is amortised by using the effective interest method during the period from the termination date to the maturity date and included in the income statement for the current period. When a hedged item is derecognised, the unamortised adjustment to its carrying amount is directly included in the income statement for the current period.

### (b) Cash flow hedge

A cash flow hedge is a hedge of the exposure to variability in cash flows that is attributable to a particular risk associated with a recognised asset or liability (such as all or some future interest payments on variable rate debt) or a highly probable forecast transaction, and ultimately could affect profit or loss.

The effective portion of changes in fair value of derivatives that are designated and qualified as cash flow hedge is recognised in other comprehensive incomes. The ineffective portion of the hedge is recognised in the income statement for the current period.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

# (28) Derivative financial instruments and hedging instruments (Cont'd)

(b) Cash flow hedge (Cont'd)

Accumulated gains or losses previously recognised in other comprehensive income are transferred to the income statement in the same period when the hedged item affects the income statement.

If the hedging instrument expires or is sold, or if its designation as a hedge is revoked, or when the hedge no longer meets the criteria for hedge accounting, the accumulated gains or losses previously recognised in other comprehensive income remain in other comprehensive income until the forecast transaction occurs and then it will be reclassified to the income statement of the current period.

If the forecast transaction is not estimated to occur, the accumulated gains or losses previously recognised in other comprehensive income should be transferred to the income statement for the current period.

(c) Hedge of net investments in a foreign operation

Hedge of net investments in foreign operations is accounted for in the same method of cash flow hedges.

For hedging instruments that are designated as hedging instruments and qualified as a hedge of net investments in a foreign operation, the effective portion is included in other comprehensive income; while the ineffective portion is included in the income statement for the current period.

Gains and losses accumulated in other comprehensive income are included in the profit or loss for the current period when the foreign operation is all or partially disposed of.

## (29) Held for sale and discontinued operations

A non-current asset or a disposal group is classified as held for sale when all of the following conditions are satisfied: (1) the non-current asset or the disposal group is available for immediate sale in its present condition subject only to terms that are usual and customary for sales of such non-current asset or disposal group; (2) the Group has entered a legally enforceable sales agreement with other party and obtained relevant approval, and the sales transaction is expected to be completed within one year.

Non-current assets (except for financial assets, investment properties measured at fair value and deferred tax assets) that meet the recognition criteria for held for sale are recognised at the amount equal to the lower of the fair value less costs to sell and the carrying amount, and the excess of the original carrying amount over the fair value less costs to sell is recognised as asset impairment loss.

# (29) Held for sale and discontinued operations (Cont'd)

Such non-current assets and assets and liabilities included in disposal groups classified as held for sale are classified as current assets and current liabilities respectively, and are separately presented in the balance sheet.

A discontinued operation is a component of the Group that either has been disposed of or is classified as held for sale, and is separately identifiable and satisfies one of the following conditions: (1) it represents a separate major line of business or geographical area of operations; (2) it is part of a single co-ordinated plan to dispose of a separate major line of business or geographical area of operations; and (3) it is a subsidiary acquired exclusively with a view to resale.

The net profit from discontinued operations in the income statement includes operating profit or loss and disposal gains or losses of discontinued operations.

# (30) Segment information

The Group identifies operating segments based on the internal organisation structure, management requirements and internal reporting system, and discloses segment information of reportable segments which is determined on the basis of operating segments.

An operating segment is a component of the Group that satisfies all of the following conditions: (1) the component is able to earn revenue and incur expenses from its ordinary activities; (2) whose operating results are regularly reviewed by the Group's management to make decisions about resources to be allocated to the segment and to assess its performance, and (3) for which the information on financial position, operating results and cash flows is available to the Group. Two or more operating segments that have similar economic characteristics and satisfy certain conditions can be aggregated into one single operating segment.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

### (31) Debt restructuring

Debt restructuring refers to a transaction in which the time, amount or method for repayment of debts is agreed between the creditor and the debtor or ruled by the court without changing the counterparty.

#### The Group as the creditor

For debt restructuring in which the debtor converts its debts to the Group into equity instruments and the Group accounts them for as financial assets after acquiring such equity investments, the financial assets obtained by the Group are initially measured at fair value. The difference between the initially recognised amounts of financial assets and the carrying amount on the date when the Group's debts are derecognised shall be included in profit or loss for the current period.

For debt restructuring in which the debtor offsets its debts to the Group against its inventories and other non-financial assets, the Group determines the initial cost of non-financial assets obtained at the fair value of waived debts and based on other relevant costs including taxes directly attributable to the assets that incurred before bringing the assets to current position and condition, or to be ready for their intended use. The difference between the fair value and carrying amount of debts waived by the Group is included in profit or loss for the current period.

# (32) Critical accounting estimates and judgements

The Group continually evaluates the critical accounting estimates and key judgements applied based on historical experience and other factors, including expectations of future events that are believed to be reasonable.

#### (a) Critical judgements in applying the accounting policies

The critical accounting estimates and key assumptions that may have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next accounting year are outlined below:

### Consolidation scope

Shanghai Mechanical& Electrical Industry Co., Ltd. ("SMEI") is an A-share listed company listing on SSE. The Group is the single largest shareholder of SMEI with 48.81% of shares. The remaining shares in SMEI are widely held by many other shareholders, none of whose shares exceed 5% (since the date when SMEI is consolidated by the Group). Meanwhile, since the date of consolidation, there has been no history of other shareholders exercise their votes collectively or to outvote the Group. Therefore, although the Group holds less than half of the voting rights in SMEI, the Group has substantial control over SMEI and includes it in the consolidation scope.

The Group holds 50% of the equity of Shanghai Electric Transmission and Distribution Group Co., Ltd. and 1% of its potential share warrant and can dominate the control of its significant financial and operating policy decisions. Therefore, the Group has substantial control over it and includes it in the consolidation scope as a subsidiary.

## (32) Critical accounting estimates and judgements (Cont'd)

(a) Critical judgements in applying the accounting policies (Cont'd)

#### Consolidation scope (Cont'd)

The Group holds 28.39% of the shares of Shenzhen Yinghe Technology Co., Ltd. ("Yinghe Technology"), a company listed on the Shenzhen Stock Exchange, being the largest shareholder of the company. Wang Weidong, the second largest shareholder of Yinghe Technology, and Xu Xiaoju, the fifth largest shareholder of Yinghe Technology, relinquished their voting rights of a total of 19.01% of Yinghe Technology's shares. Therefore, the Group holds 35.06% of the voting rights of Yinghe Technology. In addition to the above shareholders, the remaining shares are widely held by many other shareholders. Therefore, although the Group holds less than half of the voting rights in Yinghe Technology, the Group has substantial control over Yinghe Technology and includes it in the consolidation scope.

#### Measurement of ECL

The Group calculates ECL through default risk exposure and ECL rate, and determines the ECL rate based on default probability and default loss rate. In determining the ECL rate, the Group uses data such as internal historical credit loss experience, etc., and adjusts historical data based on current conditions and forward-looking information.

When considering forward-looking information, the Group takes different macroeconomic scenarios into consideration. In 2022, the economic scenario weights of "benchmark", "unfavourable" and "favourable" accounted for 60%, 30% and 10% (2021: 60%, 30% and 10%) respectively. The Group regularly monitors and reviews important macroeconomic assumptions and parameters for calculating ECL, including the risk of economic downturn, external market environment, technological environment, changes in customer profile, gross domestic product, production price index, industrial added value, broad money supply, completed investments in fixed-assets, etc. In 2022, the Group has considered the uncertainties under different macroeconomic scenarios and updated the relevant assumptions and parameters accordingly. The key macroeconomic parameters applied in various scenarios were mainly as follows:

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

# (32) Critical accounting estimates and judgements (Cont'd)

(a) Critical judgements in applying the accounting policies (Cont'd)

Measurement of ECL (Cont'd)

|                                       | Economic scenarios |              |            |
|---------------------------------------|--------------------|--------------|------------|
|                                       | Benchmark          | Unfavourable | Favourable |
| Gross domestic product                | 5.10%              | 4.40%        | 6.70%      |
| Production price index                | -0.06%             | -1.80%       | 2.40%      |
| Industrial added value                | 5.47%              | 4.10%        | 7.00%      |
| Broad money supply                    | 9.57%              | 8.10%        | 10.30%     |
| Completed investments in fixed assets | 5.87%              | 3.40%        | 8.80%      |

In 2021, the key macroeconomic parameters applied by the Group in various scenarios were as follows:

|                                       | Economic scenarios |              |            |
|---------------------------------------|--------------------|--------------|------------|
|                                       | Benchmark          | Unfavourable | Favourable |
| Gross domestic product                | 5.30%              | 4.60%        | 5.90%      |
| Production price index                | 3.02%              | 0.50%        | 4.00%      |
| Industrial added value                | 4.93%              | 3.50%        | 6.00%      |
| Broad money supply                    | 8.43%              | 7.40%        | 9.20%      |
| Completed investments in fixed assets | 5.67%              | 4.50%        | 7.80%      |

## (32) Critical accounting estimates and judgements (Cont'd)

(a) Critical judgements in applying the accounting policies (Cont'd)

#### Classification of financial assets

Significant judgements made by the Group in the classification of financial assets include business model and analysis on contractual cash flow characteristics.

The Group determines the business model for financial asset management on the grouping basis, and factors to be considered include the methods for evaluating financial asset performance and reporting the financial asset performance to key management personnel, the risks affecting financial asset performance and corresponding management methods, the ways in which related business management personnel are remunerated, etc.

When assessing whether contractual cash flow characteristics of financial assets are consistent with basic loan arrangement, key judgements made by the Group include: the possibility of changes in time schedule or amount of the principal during the lifetime due to reasons such as repayment in advance; whether interest only include time value of money, credit risks, other basic lending risks and considerations for costs and profits. For example, whether the amount of prepayment only reflects the principal outstanding and the interest based on the principal outstanding, as well as the reasonable compensation due to the early termination of the contract.

### Determination of significant increase in credit risk and credit-impaired

When the Group classifies financial instruments into different stages, its determination for significant increase in credit risk and credit-impaired is as follows:

Judgement of the Group for significant increase in credit risk is mainly based on whether one or more of the following indicators changed significantly: business environment of the debtor, internal and external credit rating, significant changes in actual or expected operating results, significant decrease in value of collateral or credit rate of guarantor which affects the probability of default, etc.

Judgement of the Group on the occurred credit impairment is mainly based on whether it meets one or more of the following conditions: the debtor is suffering significant financial difficulties, engaged in other debt restructuring, or probably bankrupt, etc.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (32) Critical accounting estimates and judgements (Cont'd)

(b) Critical accounting estimates and key assumptions

The key assumptions concerning the future and key factors of estimation uncertainty at the balance sheet date, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next accounting periods, are detailed below.

#### Revenue recognition of construction services

The Group recognises the revenue for a contract over a period using the percentage of completion method when the results of construction service can be estimated reliably. The performance of the contract is determined in accordance with the method stated in Note 2(23) and is accumulated during the accounting years of construction services.

Significant estimation and judgement are required in determining the percentage of completion, the contract performance costs incurred, the output of engineering completed, the estimated total contract revenue and contract cost and the recoverability of the contract costs. Management mainly makes judgement based on past experience. Changes in the estimations of total contract revenue and costs and the outcome of contract performance may have significant impact on the revenue, cost of sales and the profit or loss for the current or subsequent periods.

#### Impairment of inventories to net realisable value

Impairment of inventories to net realisable value is based on the assessment of the possibility to sell in the future and the net realisable value of inventories. Identification of impairment of inventories requires judgements and estimates from management on the basis of obtaining conclusive evidence and considering the purpose for holding inventories and impact of events after the balance sheet date. Difference between the actual results and original estimates will have an impact on the carrying amount of inventories and accrual or reversal of provision for decline in the value of inventories for the period in which the estimates are changed.

### Recognition of provisions

The Group estimates and makes provision for product warranties, estimated onerous contracts, penalty for delayed delivery, litigation compensation, financial guarantee contracts, etc. based on contract terms, available information and past experience. When such contingency forms a present obligation and it is probable that an outflow of economic benefits may incur if the obligation is fulfilled, the obligation is measures at best estimate.

# (32) Critical accounting estimates and judgements (Cont'd)

(b) Critical accounting estimates and key assumptions (Cont'd)

#### Enterprise income tax

The Group is subject to income taxes in numerous jurisdictions. There are many transactions and events for which the ultimate tax determination is uncertain during the ordinary course of business. Significant judgement is required from the Group in determining the provision for income taxes in each of these jurisdictions. Where the final tax outcomes of these matters are different from the amounts that were initially recorded, such differences will impact the income tax and deferred income tax provisions in the period in which such determination is made.

#### Deferred tax assets

At the balance sheet date, deferred tax assets and deferred tax liabilities are measured at the tax rates that are expected to be applied to the period when the asset is realised or the liability is settled. When it is possible that taxable profit will be available to offset deductible losses, deferred tax assets are recognised with all unutilised deductible losses. It requires management to exercise significant judgement to estimate the time and amount of future taxable profit, in combination of tax planning strategy, so as to determine the amount of deferred tax assets.

As stated in Note 3(2), some subsidiaries of the Group are high-tech enterprises. The "High-Tech Enterprise Certificate" is effective for three years. Upon expiration, application for high-tech enterprise should be submitted again to the relevant government authorities. Based on the past experience of reassessment for high-tech enterprise upon expiration and the actual condition of the subsidiaries, management considers that the subsidiaries are able to obtain the qualification for high-tech enterprises in future years, and therefore a preferential tax rate of 15% is used to calculate the corresponding deferred income tax. If some subsidiaries cannot obtain the qualification for high-tech enterprise upon expiration, then the subsidiaries are subject to a statutory tax rate of 25% for the calculation of the deferred income tax, which increases the recognised net deferred tax assets and decreases the deferred tax expenses.

### Estimated useful lives of fixed assets

Estimated useful lives of fixed assets are reviewed by the Group at least at each year-end. Estimated useful lives of the assets are determined by management based on past experience of similar assets and the expected technical renovation. If significant changes occur on the previous estimates, adjustment on depreciation expenses is carried out in the future period.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (32) Critical accounting estimates and judgements (Cont'd)

(b) Critical accounting estimates and key assumptions (Cont'd)

Impairment of non-current assets other than financial assets (except for goodwill)

The Group judges whether there exists impairment of non-current assets other than financial assets as at balance sheet date. Intangible assets with indefinite useful lives are tested for impairment annually. Non-current assets other than financial assets are subject to impairment tests when there is indication of impairment. An asset or asset group is impaired if the carrying amount exceeds their recoverable amounts, which is the higher of an asset's fair value less costs to sell and the present value of the future cash flows expected to be derived from the asset. The fair value less costs to sell could be determined with reference to sales agreement price or observable market price of similar products in arm's length transaction less directly attributable incremental costs in assets disposal. Management should estimate the expected future cash flows of an asset or asset group, and determine an appropriate discount rate for the calculation of the present value of future cash flows.

### Impairment of goodwill

The Group tests annually whether goodwill has suffered any impairment. The recoverable amount of asset groups or groupings of asset groups is the present value of the future cash flows expected to be derived from them. These calculations require use of estimates.

If management revises the gross margin, the growth rate in the forecast period and the growth rate in the stable period that are used in the calculation of the future cash flows of asset groups and groups of asset groups, while the revised rates are lower/higher than those currently used, the Group will need to recognise further impairment against the increase/decrease of goodwill for its subsidiary described in Note 4(26).

If management revises the pre-tax discount rate applied to the discounted cash flows to the reasonable and possible extent, and the revised pre-tax discount rate is higher/lower than the one currently applied, the Group will need to recognise further impairment against the increase/decrease of goodwill for its subsidiary.

If the actual gross margin/pre-tax discount rate is higher/lower than management's estimates, the impairment loss of goodwill previously provided for is not allowed to be reversed by the Group.

# 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND ACCOUNTING ESTIMATES (CONT'D)

## (32) Critical accounting estimates and judgements (Cont'd)

(b) Critical accounting estimates and key assumptions (Cont'd)

#### Evaluation of fair value

The fair value of a financial instrument that is not traded in an active market is determined by using a valuation technique. Valuation techniques include using prices of recent market transactions between knowledgeable and willing parties, reference to the current fair value of another financial asset that is substantially the same with this instrument, and discounted cash flow analysis, etc. When a valuation technique is used to determine the fair value of a financial instrument, management uses observable market inputs as opposed to entity-specific inputs to the maximum extent possible. The setting of the input involves certain judgements. If there is any discrepancy between the inputs and the actual results, material adjustments will be made to the fair value of the financial instruments.

## (33) Significant changes in accounting policies

The Ministry of Finance released the Notice on Strictly Implementing the Accounting Standards for Business Enterprises and Effectively Completing the 2022 Annual Report (Cai Kuai [2022] No. 32) in 2022, and released the Q&A on Implementation of the Standard for Long-term Equity Investments in 2023. The above Q&A further standardises the specific offset line items for the unrealised gains and losses arising from transactions between investors and joint ventures or associates in the consolidated financial statements. In addition, the above notice specifies that if an enterprise adjusts its accounting treatment in accordance with the Q&A on implementation of the Accounting Standards for Business Enterprises issued by the Ministry of Finance, the comparatives in the financial statements should be adjusted and the related information should be disclosed. The Group and the Company have prepared the financial statements for the year ended 31 December 2022 by using the above notice and Q&A. The comparative financial statements for the year ended 31 December 2021 have been restated accordingly, with the specific impact as follows:

### (a) Downstream transactions under which the Group sells assets to associates

| The nature and the reasons of the changes in accounting policies   | The line items affected | The amounts affected<br>For the year ended 31<br>December 2021<br>The Group |
|--|-------------------------|---|
| For the Situation that the Group provides construction engineering services and sells wind turbine products to | Revenue                 | (1,126,602)   |
| affiliated enterprises. When preparing the consolidated  |                         |   |
| financial statements, the Group offset the revenue, cost   | Cost of sales           | 909,933   |
| of sales and selling expenses with the shareholding  |                         |   |
| portion attributable to the Group in relation to unrealised  | Selling expenses        | 28,454  |
| profits and losses arising from the above downstream   | Jenning expenses        | 20,434  |
| transactions on the basis of offsetting against the  |                         |   |
| Company's financial statements, and adjusted the   | Investment income       | 188,215   |
| investment income accordingly.   | investment income       | 100,213   |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 3 TAXATION

## (1) The main categories and rates of taxes applicable to the Group are set out below:

| Category   | Taxation base  | Tax rate                             |
|--|--|--------------------------------------|
| Enterprise income tax<br>Value-added tax ("VAT") | Taxable income  Taxable value-added amount (Tax payable is calculated using the taxable sale amount multiplied by the applicable tax rate less deductible input VAT of the current period) | 15%、20%、25%<br>13%、9%、6%、<br>5% or3% |
| City maintenance and construction tax            | The payment amount of VAT  | 1%、5%、7%                             |

## (2) Tax preference

(a) The Group's first-tier subsidiaries listed below were awarded the "High-tech Enterprise Certificate" with a valid period of three years by the Science and Technology Commission of Shanghai Municipality, the Shanghai Municipal Finance Bureau, the State Taxation Administration Shanghai Municipal Office and the Shanghai Municipal Bureau of Local Taxation, and are subject to enterprise income tax at the rate of 15% for the current year.

| Name of the first-tier subsidiaries                                   | Applicable period for high-tech enterprises preferential tax rate of 15% |             |  |
|---|--|-------------|--|
|   | Starting year  | Ending year |  |
| Shanghai Electric Power Environmental Engineering Co., Ltd.           | 2022   | 2024        |  |
| Thales SEC Transportation System Limited Company                      | 2022   | 2024        |  |
| Shanghai Electric Distributed Energy Technology Co., Ltd.             | 2022   | 2024        |  |
| Shanghai Electric Guoxuan New Energy Technology Co., Ltd.             | 2022   | 2024        |  |
| Shanghai Turbine Works Co., Ltd.                                      | 2022   | 2024        |  |
| Zhangjiagang Twentsche Cable Co., Ltd.                                | 2022   | 2024        |  |
| Shanghai Electric Nuclear Power Equipment Co., Ltd.                   | 2021   | 2023        |  |
| Shanghai Electric SHMP Casting & Forging Co., Ltd.                    | 2021   | 2023        |  |
| Shanghai Electric - SPX Engineering & Technologies Co., Ltd.          | 2021   | 2023        |  |
| Shanghai Denso Fuel Injection Co., Ltd.                               | 2021   | 2023        |  |
| Shanghai Electric Fuji Electric Power Technology Co., Ltd.            | 2021   | 2023        |  |
| Shanghai Electric SHMP Pulverising & Special Equipment Co., Ltd.      | 2021   | 2023        |  |
| Shanghai KSB Pump Co., Ltd.   | 2021   | 2023        |  |
| Shenzhen Yinghe Technology Co., Ltd.                                  | 2021   | 2023        |  |
| Shanghai Power Station Auxiliary Machinery Factory Co., Ltd.          | 2021   | 2023        |  |
| Qingdao Huachen Weiye Electric Power Technology Engineering Co., Ltd. | 2020   | 2022        |  |
| Shanghai Electrical Automation Design and Research Institute C,ltd.   | 2020   | 2022        |  |
| Shanghai Electric Group Shanghai Electric Machinery Co., Ltd.         | 2020   | 2022        |  |
| Shanghai Boiler Works Co., Ltd.                                       | 2020   | 2022        |  |
| Shanghai Electric Power Generation Equipment Co., Ltd.                | 2020   | 2022        |  |
| Shanghai Electric Gas Turbine Co., Ltd.                               | 2020   | 2022        |  |
| Shanghai No.1 Machine Tool Works Co., Ltd.                            | 2020   | 2022        |  |
| Shanghai Electric Wind Power Group Co., Ltd.                          | 2020   | 2022        |  |
| Shanghai Machine Tool Works Co., Ltd.                                 | 2020   | 2022        |  |
| Shanghai Centrifuge Institute Co., Ltd.                               | 2020   | 2022        |  |
| Shanghai Electric Group Digital Technologies Co., Ltd.                | 2020   | 2022        |  |
| Shanghai Tanzhen Laser Technology Co., Ltd.                           | 2020   | 2022        |  |

## 3 TAXATION (CONT'D)

## (2) Tax preference(Cont'd)

(b) According to the relevant regulations of the Announcement on Strengthening the Pre-Tax Deduction for Scientific and Technological Innovation issued by the Ministry of Finance, the State Administration of Taxation and the Ministry of Science and Technology (Announcement of Ministry of Finance, Taxation Administration, Ministry of Science and Technology No.28 [2022]), During the period from October 1, 2022 to December 31, 2022, new equipment purchased by some subsidiaries can be deducted in the calculation of taxable income in a lump sum in 2022, and 100% additional deduction before tax is allowed.

## (3) Other remarks

The Group's first-tier subsidiaries registered overseas are subject to the tax rates prevailing in the countries in which they operate in compliance with the existing laws and regulations, interpretations and practices:

|   | Income tax rate |
|---|-----------------|
|   |                 |
| Sida Machine Tool Manufacturing Co., Ltd.               | 32.00%          |
| Shanghai Electric (India) Limited Company               | 25.00%          |
| Shanghai Electric (Vietnam) Limited Company             | 20.00%          |
| Shanghai Electric Power Generation (Malaysia) Co., Ltd. | 24.00%          |
| Shanghai Electric Panama Co., Ltd.                      | 25.00%          |
| Shanghai Electric Group Europa Co., Ltd.                | 15.00%          |
| Shanghai Electric Hong Kong Co., Ltd.                   | 16.50%          |
| Shanghai Electric Newage Company Limited                | 16.50%          |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

### (1) Cash at bank and on hand

|                                    | 31 December 2022 | 31 December 2021 |
|------------------------------------|------------------|------------------|
|                                    |                  |                  |
| Cash on hand                       | 3,484            | 8,555            |
| Cash at bank                       | 22,821,311       | 21,507,321       |
| Other cash balances                | 3,519,705        | 3,843,305        |
| Including: Total overseas deposits | 3,249,514        | 3,146,867        |
|                                    | 26,344,500       | 25,359,181       |

As at 31 December 2022, other cash balances represented restricted cash at bank and on hand of RMB3,443,275 thousand (31 December 2021: RMB3,752,602 thousand), mainly including bank deposits in pledge of RMB 837,304 thousand yuan used as the guarantee for issuing unconditional and irrevocable letter of guarantee, letter of credit or banker's acceptance bill to the bank. Bank deposits of RMB 2,516,571 thousand (December 31, 2021: RMB 2,350,640 thousand) are Central Bank reserves of Shanghai Electric Group Finance Co., LTD. (the "Finance Company")., the subsidiary of the Group.

## (2) Placements with banks and other financial institutions

|                              | 31 December 2022 | 31 December 2021 |
|------------------------------|------------------|------------------|
| Deposits with domestic banks | 24,613,553       | 28,992,175       |

As at 31 December 2022 and 31 December 2021, placements with banks and other financial institutions represented deposits with large commercial banks such as Industrial and Commercial Bank of China, Industrial Bank, China CITIC Bank, Pudong Development Bank, etc. by the Finance Company.

## (3) Financial assets held for trading

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
|  |                  |                  |
| Investments in funds held for trading (a)          | 5,921,775        | 5,754,200        |
| Investments in bonds held for trading              | 1,011,394        | 681,833          |
| Investments in equity instruments held for trading | 152,688          | 423,721          |
| Wealth management products                         | 231,175          | 430,793          |
| Non-hedging derivative financial instruments       | 340,406          | 312,550          |
|  | 7,657,438        | 7,603,097        |

The fair value of investments in bonds held for trading and investments in equity instrument held for trading is determined at the closing price of Shanghai Stock Exchange on the last trading day of the year; the fair value of investments in funds held for trading and wealth management products is mainly determined by open market disclosures or quoted prices.

### (a) Investments in funds

The investments in funds held by the Group mainly include:

| Name                | Number of<br>shares of the<br>Group('000) | Primary activities undertaken<br>by the funds               | Issue size (total<br>shares) |                | Carrying<br>amount as at 31<br>December 2022 |
|---------------------|---|---|------------------------------|----------------|--|
| Fund investment I   | 489,654                                   | Investments in money market instruments with good liquidity | 175.39 billion               | 175.39 billion | 489,654                                      |
| Fund investment II  | 407,947                                   | Investments in money market instruments with good liquidity | 152.35 billion               | 152.35 billion | 407,947                                      |
| Fund investment III | 371,607                                   | Investments in money market instruments with good liquidity | 60.5 billion                 | 60.5 billion   | 371,607                                      |
| Fund investment IV  | 307,313                                   | Investments in money market instruments with good liquidity | 135.61 billion               | 135.61 billion | 307,313                                      |
| Fund investment V   | 304,092                                   | Investments in money market instruments with good liquidity | 126.26 billion               | 126.26 billion | 304,092                                      |

The investments in funds held by the Group were the structured entities invested by the Group, which were not included in the consolidation scope. The Group's largest risk exposure on the funds was the carrying amount of the Group's shares in the funds as at the balance sheet date. The Group had neither obligation nor intention to provide financial support to the funds.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (4) Derivative financial assets and derivative financial liabilities

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
|   |                  |                  |
| Derivative financial assets - Forward foreign exchange contracts      | 6,209            | 6,322            |
| Derivative financial assets - Options                                 | 49,681           | 37,779           |
|   | 55,890           | 44,101           |
|   |                  |                  |
| Derivative financial liabilities - Forward foreign exchange contracts | 10,450           | 9,625            |

As at 31 December 2022, derivative financial assets and derivative financial liabilities were mainly options and forward foreign exchange contracts, with nominal amounts of RMB1,132,706 thousand and RMB132,229 thousand (31 December 2021: RMB1,503,729 thousand and RMB18,694 thousand).

### (5) Notes receivable

|   | 31 December 2022 | 31 December 2021             |
|---|------------------|------------------------------|
|   |                  |                              |
| Trade acceptance notes  | 3,618,581        | 4,475,145                    |
| Bank acceptance notes   | 3,750,651        | 4,426,292                    |
| Less: Provision for bad debts   | (1,111,947)      | (1,090,105)                  |
|   | 6,257,285        | 7,811,332                    |
| (a) As at 31 December 2022, the Group's pledged notes were as follows.  Bank acceptance notes  Trade acceptance notes |                  | 35,982<br>119,113<br>155,095 |

## (b) As at 31 December 2022, the Group's notes receivable endorsed or discounted but unmatured were as follows:

|                           | Derecognised | Not derecognised |
|---------------------------|--------------|------------------|
|                           | 000 =0.4     |                  |
| Bank acceptance notes (i) | 933,794      | 2,041,400        |
| Trade acceptance notes    |              | 327,824          |
|                           | 933,794      | 2,369,224        |
|                           |              |                  |

(i) For the year ended 31 December 2022, a few of the bank acceptance notes were endorsed or discounted and derecognised by part of the Group's subsidiaries, who thereby classified the balance of other bank acceptance notes receivable as financial assets at amortised cost. Certain bank acceptance notes were discounted and endorsed frequently by some of the Group's subsidiaries for the purpose of daily treasury management, who thereby classified the balance of other bank acceptance notes receivable as financial assets at fair value through other comprehensive income (Note 4(7)).

## (5) Notes receivable (Cont'd)

(c) Provision for bad debts

For notes receivable arising from ordinary operating activities such as sales of goods and rendering of services, the Group recognises the lifetime ECL regardless of whether there exists a significant financing component.

(i) As at 31 December 2022, the Group's trade acceptance notes receivable from subsidiaries within a third party group totalled RMB2,108,726 thousand, and the related contract liabilities amounted to RMB415,839 thousand. The Group evaluated the distribution of expected cash flows under multiple scenarios based on historical recoverability, current situations and forecasts of future conditions of different subsidiaries within the third party group, and made corresponding provision for ECL of RMB1,065,706 thousand according to the default loss rate and the related probability weight under various scenarios.

In addition, certain subsidiaries of the Group offset trade acceptance notes payable to the Group against their assets ("asset-for-debt transaction"). As at 31 December 2022, online signing procedures for related assets under the asset-for-debt transaction with respect to the trade acceptance notes of RMB188,455 thousand had been completed, and the Group derecognised receivables and recognised other non-current assets of RMB188,455 thousand accordingly.

(ii) Notes receivable with provision for bad debts made on the grouping basis are analysed as follows:

Grouping - Grouping of bank acceptance notes:

As at 31 December 2022, the Group measured provision for bad debts based on the lifetime ECL. The Group expected that there was no significant credit risk associated with its bank acceptance notes in this grouping and did not expect that there would be any significant losses from non-performance by these banks. Therefore, there was no need to make provision for bad debts.

Grouping - Grouping of trade acceptance notes:

As at 31 December 2022, the Group measured provision for bad debts based on the lifetime ECL, which amounted to RMB46,241 thousand (31 December 2021: RMB99,995 thousand).

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (6) Accounts receivable

|   | 31 December 2022           | 31 December 2021           |
|---|----------------------------|----------------------------|
| Accounts receivable Less: Provision for bad debts | 55,475,944<br>(17,195,975) | 50,989,672<br>(17,560,454) |
|   | 38,279,969                 | 33,429,218                 |

|   | 31 December 2022 |   | 31 December 2021 |   |  |
|---|------------------|---|------------------|---|--|
|   | Book<br>balance  | Book Provision for<br>balance bad debts |                  | Book Provision for<br>balance bad debts |  |
| Individual provision ((d)(iii))                           | 16,092,875       | (12,239,675)                            | 15,552,463       | (11,842,709)                            |  |
| Sovereign credit portfolio ((d)(iv))                      | 690,314          | (478,967)                               | 1,140,600        | (961,470)                               |  |
| Ageing grouping of accounts receivable by sector ((d)(v)) | 38,692,755       | (4,477,333)                             | 34,296,609       | (4,756,275)                             |  |
|   | 55,475,944       | (17,195,975)                            | 50,989,672       | (17,560,454)                            |  |

(a) The ageing of accounts receivable was analysed as follows:

(i) The overdue ageing of accounts receivable was analysed as follows:

|                       | 31 December 2022 | 31 December 2021 |
|-----------------------|------------------|------------------|
|                       |                  |                  |
| Not overdue           | 21,607,854       | 15,635,655       |
| Overdue within 1 year | 9,289,613        | 14,364,601       |
| Overdue 1 to 2 years  | 9,966,854        | 8,284,690        |
| Overdue 2 to 3 years  | 5,893,128        | 6,081,529        |
| Overdue 3 to 4 years  | 4,856,653        | 1,644,027        |
| Overdue 4 to 5 years  | 631,620          | 1,095,355        |
| Overdue over 5 years  | 3,230,222        | 3,883,815        |
|                       | 55,475,944       | 50,989,672       |

(ii) The ageing of accounts receivable was analysed based on invoice date as follows:

|               | 31 December 2022 | 31 December 2021 |
|---------------|------------------|------------------|
| Maril 1. A    | 25 (20 000       | 27.267.202       |
| Within 1 year | 25,630,900       | 27,367,203       |
| 1 to 2 years  | 12,523,380       | 8,424,793        |
| 2 to 3 years  | 7,434,301        | 8,088,301        |
| 3 to 4 years  | 5,382,166        | 1,814,957        |
| 4 to 5 years  | 981,285          | 1,125,568        |
| Over 5 years  | 3,523,912        | 4,168,850        |
|               | 55,475,944       | 50,989,672       |
|               |                  |                  |

## (6) Accounts receivable (Cont'd)

(b) As at 31 December 2022, the top five balances of accounts receivable measured at amortised cost aggregated by debtors were summarised and analysed as follows:

|   | Balance    | Provision for bad debts | % of the aggregate<br>balance of accounts<br>receivable measured at<br>amortised cost |
|---|------------|-------------------------|---|
| Total balance of the five largest accounts receivable | 12,552,917 | 7,619,833               | 22.63%  |

(c) Accounts receivable derecognised due to transfer of financial assets are analysed as follows:

For the year ended 31 December 2022, the Company had no accounts receivable that were derecognised after the Company had applied a non-recourse factoring (2021: Nil).

In 2022, the Group conducted the "asset-for-debt transaction" with the debtor for a very small number of accounts receivable to offset the assets of the debtor against the Group's accounts payable. As at 31 December 2022, the asset-for-debt transaction corresponding to accounts receivable of RMB13,632 thousand had been completed, and the Group derecognised corresponding accounts receivable and recognised other non-current assets of RMB13,632 thousand accordingly (31 December 2021: Nil).

### (d) Provision for bad debts

(i) Movements of provision for bad debts of accounts receivable:

| 31 December 2021                         | 17,560,454  |
|--|-------------|
| Accrual in the current year              | 2,168,678   |
| Reversal in the current year             | (1,171,129) |
| Decrease due to disposal of subsidiaries | (1,311,561) |
| Write-off in the current year            | (50,467)    |
| 31 December 2022                         | 17,195,975  |

(ii) The provision for bad debts in 2022 amounted to RMB2,168,678 thousand and that recovered or reversed comprised RMB1,171,129 thousand, including provision for bad debts made on the individual basis amounting to RMB325,592 thousand.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (6) Accounts receivable (Cont'd)

- (d) Provision for bad debts (Cont'd)
- (iii) As at 31 December 2022, accounts receivable with provision for bad debts made on the individual basis were analysed as follows:

|                            |              |                   | <b>Provision for</b> |  |
|----------------------------|--------------|-------------------|----------------------|--|
|                            | Book balance | Lifetime ECL rate | bad debts            | Reason                                   |
|                            |              |                   |                      |  |
| Accounts receivable 1      | 3,478,575    | 100%              | 3,478,575            | (a)                                      |
| Accounts receivable 2      | 2,191,732    | 52%               | 1,147,232            | (a)                                      |
| Accounts receivable 3      | 1,786,058    | 100%              | 1,783,648            | (a)                                      |
| Accounts receivable 4      | 1,784,472    | 50%-70%           | 1,094,583            | (b)                                      |
| Accounts receivable 5      | 1,193,017    | 54%               | 643,947              | (a)                                      |
| Others (involved more than |              |                   |                      | The other party in a difficult financial |
| 300 companies )            | 5,659,021    | 26%-100%          | 4,091,690            | situation, unrecoverable by estimation   |
|                            | 16,092,875   |                   | 12,239,675           |  |

- (a) In 2021, the Group identified that accounts receivable of its subsidiary, Shanghai Electric Communication Technology Co., Ltd ("Communication Company"), were overdue in succession, with the collection of repayments stagnated. In order to reduce losses, Communication Company has initiated formal legal proceedings to related clients successively. As at 31 December 2022, Communication Company recognised the ECL by calculating the probability-weighted present value of the difference between the contractual cash flows from accounts receivable and cash flows expected to be received under different scenarios, taking into account the latest developments in litigation, professional legal advice from external lawyers and the asset preservation related to the litigation. As at 31 December 2022, the ECL accumulated to RMB7,053,402 thousand. Communication Company may accrue further losses if there is a material adverse change such as subsequent litigations or further deterioration of the counterparts' repayment ability.
- (b) As at 31 December 2022, the Group's receivables from a subsidiary within a third party group represented RMB1,784,472 thousand. The Group evaluated the distribution of expected cash flows under multiple scenarios based on the historical experience of credit losses, management mode, current situations and forecasts of future conditions of subsidiaries under different conditions within the third party group, and made accumulative provision for bad debt balance of RMB1,094,583 thousand according to the ECL rate and the related probability weight under various scenarios.

## (6) Accounts receivable (Cont'd)

- (d) Provision for bad debts (Cont'd)
- (iv) As at 31 December 2022, accounts receivable with a book value of RMB690,314 thousand, provision for bad debts of RMB478,967 thousand, net book value of RMB211,347 thousand (31 December 2021: book value of RMB1,140,600 thousand, provision for bad debts of RMB961,470 thousand, net book value of RMB179,130 thousand) were accounts receivable with sovereign credit risk.
- (v) As at 31 December 2022, except for the accounts receivable with sovereign credit risk mentioned in (iv), accounts receivable with ageing grouping by sector with provision for bad debts made on the grouping basis were analysed as follows:

|                       |              | 31 December 2022  |           |  |
|-----------------------|--------------|-------------------|-----------|--|
|                       | Book balance | Provision for bad | d debts   |  |
|                       | Amount       | Lifetime ECL rate | Amount    |  |
| Not overdue           | 21,232,417   | 0.1%-4%           | 424,296   |  |
| Overdue within 1 year | 8,355,404    | 5%-18%            | 817,511   |  |
| Overdue 1 to 2 years  | 4,888,587    | 3%-37%            | 803,342   |  |
| Overdue 2 to 3 years  | 2,063,067    | 17%-82%           | 772,179   |  |
| Overdue 3 to 4 years  | 1,112,875    | 34%-100%          | 798,009   |  |
| Overdue 4 to 5 years  | 407,896      | 54%-100%          | 304,096   |  |
| Overdue over 5 years  | 632,509      | 78%-100%          | 557,900   |  |
|                       | 38,692,755   |                   | 4,477,333 |  |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

## (6) Accounts receivable (Cont'd)

(d) Provision for bad debts (Cont'd)

As at 31 December 2021, except for the accounts receivable with sovereign credit risk mentioned in (iv), accounts receivable with provision for bad debts made on the grouping basis were analysed as follows:

|                       |              | 31 December 2021  |           |  |
|-----------------------|--------------|-------------------|-----------|--|
|                       | Book balance | Provision for ba  | d debts   |  |
|                       | Amount       | Lifetime ECL rate | Amount    |  |
| Not overdue           | 14,705,795   | 0.1%-4%           | 265,205   |  |
| Overdue within 1 year | 10,127,168   | 5%-17%            | 1,104,240 |  |
| Overdue 1 to 2 years  | 4,068,579    | 3%-37%            | 743,904   |  |
| Overdue 2 to 3 years  | 2,124,461    | 17%-82%           | 521,641   |  |
| Overdue 3 to 4 years  | 1,366,097    | 34%-100%          | 566,070   |  |
| Overdue 4 to 5 years  | 781,428      | 54%-100%          | 547,213   |  |
| Overdue over 5 years  | 1,123,081    | 78%-100%          | 1,008,002 |  |
|                       | 34,296,609   |                   | 4,756,275 |  |

## (7) Receivables financing

|   |     | 31 December 2022 | 31 December 2021 |
|---|-----|------------------|------------------|
|   |     |                  |                  |
| Accounts receivable measured at fair value through other comprehensive income | (a) | 49,387           | 53,849           |
| Notes receivable measured at fair value through other comprehensive income    | (b) | 2,056,202        | 1,091,644        |
|   |     | 2,105,589        | 1,145,493        |

- (a) Accounts receivable measured at fair value through other comprehensive income
- (i) The ageing of accounts receivable is analysed as follows:

|                                    | 31 December 2022 | 31 December 2021 |
|------------------------------------|------------------|------------------|
| Not overdue  Overdue within 1 year | 49,387           | 39,870           |
| Overdue within 1 year              |                  | 13,979           |
|                                    | 49,387           | 53,849           |

(ii) As at 31 December 2022, accounts receivable were factored by part of the Group's subsidiaries for the purpose of daily treasury management, who thereby categorised the balance of accounts receivable as financial assets at fair value through other comprehensive income. The fair value of those accounts receivable was RMB49,387 thousand (31 December 2021: RMB53,849 thousand).

For the year ended 31 December 2022, the Group had no receivables financing that were derecognised after the Group had applied a non-recourse factoring (2021: Nil).

(b) Notes receivable measured at fair value through other comprehensive income

Certain bank acceptance notes were discounted and endorsed frequently by some of the Group's subsidiaries for the purpose of daily treasury management, who thereby classified the balance of the bank acceptance notes as financial assets at fair value through other comprehensive income.

As at 31 December 2022, the Group measured the provision for bad debts of notes receivable at fair value through other comprehensive income based on the lifetime ECL. The Group expected that its bank acceptance notes had similar credit risk characteristics and that there was no significant credit risk associated with its bank acceptance notes and did not expect that there would be any significant losses from non-performance by these banks. Therefore, provision for bad debts was not material.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (7) Receivables financing (Cont'd)

(b) Notes receivable measured at fair value through other comprehensive income (Cont'd)

As at 31 December 2022, notes receivable presented as receivables financing amounted to RMB583,089 thousand, which were pledged as collateral for bank acceptance notes (31 December 2021: RMB122,712 thousand).

As at 31 December 2022, except for Note 4(5)(b), the Group's notes receivable presented in receivables financing endorsed or discounted but unmatured were as follows:

|                       | Derecognised | Not derecognised |
|-----------------------|--------------|------------------|
| Bank acceptance notes | 3,998,366    | -                |

## (8) Prepayments

|             | 31 December 2022 | 31 December 2021 |
|-------------|------------------|------------------|
| Prepayments | 10,276,967       | 13,424,089       |

### (a) The ageing of prepayments is analysed as follows:

|               | 31 Decemb  | 31 December 2022      |            | 31 December 2021      |  |
|---------------|------------|-----------------------|------------|-----------------------|--|
|               | Amount     | % of total<br>balance | Amount     | % of total<br>balance |  |
| Within 1 year | 8,310,488  | 80.86%                | 8,522,835  | 63.49%                |  |
| 1 to 2 years  | 994,616    | 9.68%                 | 1,884,551  | 14.04%                |  |
| 2 to 3 years  | 481,703    | 4.69%                 | 856,592    | 6.38%                 |  |
| Over 3 years  | 490,160    | 4.77%                 | 2,160,111  | 16.09%                |  |
|               | 10,276,967 | 100.00%               | 13,424,089 | 100.00%               |  |

As at 31 December 2022, prepayments with ageing over one year amounted to RMB1,966,479 thousand (31 December 2021: RMB4,901,254 thousand), which mainly represented prepayments for equipment for contract projects. Those accounts were not settled for such projects had not been completed.

As at 31 December 2022, the five largest prepayments collected by debtors were analysed as follows:

|                                       | Amount  | % of total prepayments |
|---------------------------------------|---------|------------------------|
| Total of the five largest prepayments | 910,954 | 8.86%                  |

## (9) Other receivables

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Receivables from related parties (Note 8(6)) | 1,860,284        | 1,876,058        |
| Receivables from third parties               | 5,104,904        | 7,059,227        |
| Dividends receivable (a)                     | 96,210           | 107,304          |
| Interest receivable (a)                      | 98,700           | 139,248          |
|  | 7,160,098        | 9,181,837        |
| Less: Provision for bad debts                | (1,003,581)      | (471,129)        |
|  | 6,156,517        | 8,710,708        |

(a) As at 31 December 2022, the Group made individual provision for bad debts for dividends receivable and interest receivable, the above receivables were in Stage 1 and no major bad debt provision was made.

(b) As at 31 December 2022, other receivables with provision for bad debts made on the individual basis were analysed as follows:

|               |              |                   | Provision for bad |  |
|---------------|--------------|-------------------|-------------------|--|
| Stage 3       | Book balance | Lifetime ECL rate | debts             | Reason   |
| Receivables 1 | 1,015,622    | 26%               | 260,521           | Unrecoverable by estimation as for part, considering the guarantee obligations to be performed and relevant credit enhancement |
| Receivables 2 | 793,781      | 34%               | 271,493           | Unrecoverable by estimation as for part, considering the guarantee obligations to be performed and relevant credit enhancement |
| Receivables 3 | 286,848      | 0%                | -                 | No provision for bad debts, considering that the value of the collateral is sufficient   |
| Others        | 593,576      | 25%-100%          | 327,483           | Unrecoverable by estimation as for part  |
|               | 2,689,827    | _                 | 859,497           |  |

(c) As at 31 December 2021, other receivables with provision for bad debts made on the individual basis were analysed as follows:

| Stage 3     | Book balance | Lifetime ECL rate | Provision for bad<br>debts | Reason   |
|-------------|--------------|-------------------|----------------------------|--|
| Receivables | 1,015,622    | 21%               | i                          | Expected to be partially uncollectible after taking into account the debtor's creditworthiness and related credit enhancements |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (9) Other receivables (Cont'd)

(d) As at 31 December 2022 and 31 December 2021, other receivables with provision for bad debts made on the grouping basis were analysed as follows:

|  | 31           | December 2022   |               | 31           | December 2021   |                |
|--|--------------|-----------------|---------------|--------------|-----------------|----------------|
|  | Book balance | Provision for b | ad debts      | Book balance | Provision for k | oad debts      |
|  | Amount       | Amount Pr       | ovision ratio | Amount       | Amount Pi       | rovision ratio |
| Stage 1 - 12-month ECL<br>Receivables within 1<br>year from related parties<br>and third parties | 2,449,023    | 12,136          | 0.1%-2%       | 6,055,999    | 35,213          | 0.1%-2%        |
| Stage 2 - Lifetime ECL<br>Receivables between 1<br>and 2 years from related<br>parties           |              | <u>-</u>        | -             |              | <u>-</u>        | -              |
| Stage 3 - Lifetime ECL<br>1 to 2 years   | 546,315      | 5,281           | 0.1%-5%       | 675,415      | 10,663          | 0.1%-5%        |
| 2 to 3 years   | 585,664      | 32,427          | 1%-11%        |              | 8,014           | 1%-15%         |
| Over 3 years   | 694,359      | 94,240          | 12%-100%      | 728,192      | 205,125         | 18%-100%       |
| ,  | 1,826,338    | 131,948         |               | 1,863,664    | 223,802         |                |

## (e) Movements in provision for bad debts of other receivables were as follows:

|  | Stage 1      | Stage 2      | Stage 3      | Total     |
|--|--------------|--------------|--------------|-----------|
|  | 12-month ECL | Lifetime ECL | Lifetime ECL |           |
|  |              |              |              |           |
| Balance at 31 December 2021              | 35,213       | =            | 435,916      | 471,129   |
| Increase in the current year             | 24,117       | =            | 611,113      | 635,230   |
| Reversal in the current year             | (9,274)      | -            | -            | (9,274)   |
| Write-off and disposal                   | -            | -            | (3,877)      | (3,877)   |
| Decrease due to disposal of subsidiaries | (37,920)     | -            | (51,707)     | (89,627)  |
| Balance at 31 December 2022              | 12,136       | -            | 991,445      | 1,003,581 |
|  |              |              |              |           |

## (e) Movements in provision for bad debts of other receivables were as follows:

|                     | Nature              | Balance   | Ageing        | % of the total<br>balance of other<br>receivables | Provision for bad<br>debts |
|---------------------|---------------------|-----------|---------------|---|----------------------------|
|                     |                     |           |               |   |                            |
| Other receivables 1 | Related party loans | 1,015,622 | 2 to 3 years  | 14%   | 260,521                    |
| Other receivables 2 | Purchase deposits   | 793,781   | Within 1 year | 11%   | 271,493                    |
| Other receivables 3 | Performance bond    | 401,154   | 1 to 2 years  | 6%  | -                          |
| Other receivables 4 | Purchase deposits   | 284,518   | Within 1 year | 4%  | -                          |
| Other receivables 5 | Purchase deposits   | 274,169   | Within 1 year | 4%  | 68,542                     |
|                     | _                   | 2,769,244 |               |   | 600,556                    |

## (10) Financial assets purchased under resale agreements

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
| Classification of amounts under resale agreements by collaterals: |                  |                  |
| - Corporate bonds   | 667,050          | 188,202          |
| - Local government bonds  | 299,250          | -                |
| - Treasury bonds  | 164,906          | -                |
| <u> </u>  | 1,131,206        | 188,202          |

The Group expected that the credit impairment risk of the financial assets purchased under resale agreements in Stage 1 was low, thus no provision for significant credit impairment losses was made.

## (11) Inventories

(a) Inventories are summarised by categories as follows:

|                       | 31 December 2022 |  |                    | 31           | December 2021  |                    |
|-----------------------|------------------|--|--------------------|--------------|--|--------------------|
|                       | Book balance     | Provision for<br>decline in<br>the value of<br>inventories | Carrying<br>amount | Book balance | Provision for<br>decline in<br>the value of<br>inventories | Carrying<br>amount |
| Materials in transit  | 5,118            | -  | 5,118              | 24,048       | -  | 24,048             |
| Raw materials         | 5,843,509        | 585,811  | 5,257,698          | 5,351,033    | 575,737  | 4,775,296          |
| Self-produced semi-   |                  |  |                    |              |  |                    |
| finished goods        | 907,369          | 85,019   | 822,350            | 1,036,247    | 43,429   | 992,818            |
| Work in progress      | 13,738,424       | 933,352  | 12,805,072         | 13,914,983   | 950,310  | 12,964,673         |
| Goods in stock (i)    | 14,174,796       | 2,700,395  | 11,474,401         | 16,256,850   | 2,619,837  | 13,637,013         |
| Repair accessories    | 391,999          | -  | 391,999            | 363,431      | -  | 363,431            |
| Low-value consumables | 37,985           | 259  | 37,726             | 35,599       | 1,471  | 34,128             |
| Others                | 77,550           | -  | 77,550             | 88,062       | -  | 88,062             |
|                       | 35,176,750       | 4,304,836  | 30,871,914         | 37,070,253   | 4,190,784  | 32,879,469         |

(i) The Group recognises the products produced before intended use of related production line but have not yet been sold as finished goods, and the cost of the finished goods includes the incremental cost directly attributable to its production process and the amount of indirect manufacturing expenses allocated by reasonable methods.

Net realisable value of the Group is determined based on the estimated selling price less the estimated costs to completion, contract performance costs and estimated costs necessary to make the sales and related taxes. The reversal of provision for decline in the value of inventories in the current period is due to the rising product price, and the write-off is due to the sales of inventories in the current period.

As at 31 December 2022, the carrying amount of the inventories pledged as collaterals for bank mortgage loans was none (31 December 2021: Nil).

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

## (11) Inventories (Cont'd)

(b) Provision for decline in the value of inventories is analysed as follows:

|                                       | 31<br>December<br>2021 | Increase in<br>the current<br>year | Decrease  | in the curre | ent year  | Differences<br>on translation<br>of foreign<br>currency<br>financial<br>statements | 31<br>December<br>2022 |
|---------------------------------------|------------------------|------------------------------------|-----------|--------------|---|--|------------------------|
|                                       |                        | Provision                          | Reversal  | Write-off    | Decrease<br>due to<br>disposal of<br>subsidiaries | :  |                        |
| Raw materials                         | 575,737                | 51,148                             | (36,447)  | (1,265)      | (5,048)   | 1,686  | 585,811                |
| Self-produced semi-<br>finished goods | 43,429                 | 48,351                             | (6,734)   | (27)         | _   | _  | 85,019                 |
| Work in progress                      | 950,310                | 1,949,618                          | (162,530) | (761,339)    | (43,128)  | 421  | 933,352                |
| Goods in stock (i)                    | 2,619,837              | 96,989                             | (7,653)   | (5,194)      | (5,187)   | 1,603  | 2,700,395              |
| Low-value consumables                 | 1,471                  | 1                                  | (1,213)   | -            |   |  | 259                    |
|                                       | 4,190,784              | 1,146,107                          | (214,577) | (767,825)    | (53,363)  | 3,710  | 4,304,836              |

## (12) Contract assets

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
| Contract assets   | 36,312,243       | 44,506,875       |
| Less: Provision for impairment of contract assets                       | (1,464,194)      | (1,637,696)      |
| Less: Contract assets included in other non-current assets (Note 4(29)) | (13,046,236)     | (11,675,355)     |
|   | 21,801,813       | 31,193,824       |

## (12) Contract assets (Cont'd)

(a) For contract assets, the Group measures the loss provision based on the lifetime ECL regardless of whether there exists a significant financing component. As at 31 December 2022, the Group's contract assets with provision for impairment made on the individual basis were analysed as follows:

|                   | Book balance | Lifetime ECL rate | Provision for impairment | Reason  |
|-------------------|--------------|-------------------|--------------------------|---|
|                   |              |                   |                          |   |
| Contract assets 1 | 191,192      | 63%               | 119,495                  | (i)   |
| Contract assets 2 | 158,501      | 100%              | 158,501                  | (ii)  |
| Contract assets 3 | 90,501       | 100%              | 90,501                   | The other party in a difficult financial situation, unrecoverable by estimation |
| Others            |              |                   |                          | The other party in a difficult financial situation, unrecoverable for part by   |
|                   | 315,701      | 5%-100%           | 200,594                  | estimation  |
|                   | 755,895      | _                 | 569,091                  |   |

- (i) As at 31 December 2022, the Group's receivables from various subsidiaries within a third party group represented RMB191,192 thousand (31 December 2021: RMB275,587 thousand). The Group evaluated the distribution of expected cash flows under different scenarios based on historical recoverability, management mode, current situations and forecasts of future conditions of subsidiaries within the third party group under different conditions, and made corresponding provision for ECL of RMB119,495 thousand according to ECL rate and the related probability weight under different scenarios (31 December 2021: RMB150,578 thousand).
- (ii) As at 31 December 2022, the Group's receivables from a certain client represented RMB469,354 thousand (31 December 2021: RMB492,296 thousand), including contract assets of RMB158,501 thousand (31 December 2021: RMB181,443 thousand). As the client was short of funding and got involved in several litigations, the Group expected it was difficult to recover the contract assets, and therefore made provision for impairment of the contract assets in full.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (12) Contract assets (Cont'd)

(b) For contract assets, the Group recognises the lifetime ECL regardless of whether there exists a significant financing component. As at 31 December 2021, the Group's contract assets were not overdue. Contract assets with provision for impairment made on the individual basis were analysed as follows:

|                   | Book balance | Lifetime ECL rate | Provision for<br>impairment | Reason   |
|-------------------|--------------|-------------------|-----------------------------|--|
| Contract assets 1 | 275,587      | 55%               | 150,578                     | The other party in a difficult financial situation, unrecoverable for part by estimation |
| Contract assets 2 | 181,443      | 100%              | 181,443                     | The other party in a difficult financial situation, unrecoverable by estimation          |
| Contract assets 3 | 47,651       | 100%              | 47,651                      | The other party in a difficult financial situation, unrecoverable by estimation          |
| Others            |              |                   |                             | The other party in a difficult financial situation, unrecoverable for part by            |
|                   | 148,662      | 21%-100%          | 110,854                     | estimation   |
|                   | 653,343      | _                 | 490,526                     |  |

(c) As at 31 December 2022, contract assets with provision for bad debts made on the grouping basis were analysed as follows:

|             | :            | 31 December 2022  |                |
|-------------|--------------|-------------------|----------------|
|             | Book balance | Provision for ass | set impairment |
|             | Amount       | Lifetime ECL rate | Amount         |
| Not overdue | 35,556,348   | 0.1%-3%           | 895,103        |

(d) As at 31 December 2021, contract assets with provision for bad debts made on the grouping basis were analysed as follows:

### Grouping - Contract assets:

|             |              | 31 December 2021  |                |
|-------------|--------------|-------------------|----------------|
|             | Book balance | Provision for ass | set impairment |
|             | Amount       | Lifetime ECL rate | Amount         |
| Not overdue | 43,853,532   | 0.1%-3%           | 1,147,170      |

## (13) Current portion of non-current assets

|   |       | 31 December 2022 | 31 December 2021 |
|---|-------|------------------|------------------|
| Lease receivables                           | 4(18) | 1,864,582        | 2,549,792        |
| Current portion of other non-current assets | 4(29) | 129,556          | 114,466          |
| arising from PPP project                    |       |                  |                  |
| Loans and advances                          | 4(15) | 804,428          | 17,124           |
| Other long-term receivables                 | 4(18) | 59,104           | 139,448          |
|   |       | 2,857,670        | 2,820,830        |

## (14) Other current assets

|  |     | 31 December 2022 | 31 December 2021 |
|--|-----|------------------|------------------|
| Loans due within 1 year                                | (a) | 3,988,254        | 4,849,548        |
| Other debt investments due within 1 year (Note 4(17))  | (b) | 15,486,059       | 7,570,419        |
| Input VAT to be offset                                 |     | 1,480,553        | 1,975,723        |
| Discounted notes and other short-term debt investments | (c) | 884,198          | 941,895          |
| Prepaid VAT  |     | 683,772          | 337,329          |
| Prepaid income tax                                     |     | 181,384          | 263,990          |
| Others   |     | 14,785           | 166,299          |
|  |     | 22,719,005       | 16,105,203       |

## (a) Loans due within 1 year

|       | 31        | December 2022               |                   | 3.        | l December 2021             |                   |
|-------|-----------|-----------------------------|-------------------|-----------|-----------------------------|-------------------|
|       | Total     | Provision for<br>impairment | Net book<br>value | Total     | Provision for<br>impairment | Net book<br>value |
| Loans | 4,269,830 | (281,576)                   | 3,988,254         | 5,015,000 | (165,452)                   | 4,849,548         |

Loans represent that provided by Finance Company to related parties within Electric Holdings.

As at 31 December 2022, the balance of loans provided by shareholders who hold 5% (inclusive) voting rights in the Company was RMB1,487,500 thousand, of which the ageing within one year amounted to RMB187,500 thousand (31 December 2021: RMB6,500,000 thousand, of which the ageing within one year amounted to RMB5,000,000 thousand). The Group's balance of loans from other related parties is stated in Note 8.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

## (14) Other current assets (Cont'd)

(a) Loans due within 1 year (Cont'd)

Movement in the provision for impairment of loans is as follows:

|                              | 2022    |
|------------------------------|---------|
| Opening balance              | 165,452 |
| · · · · · · ·                | •       |
| Increase in the current year | 116,124 |
| Ending balance               | 281,576 |

Analysis on loans by guarantee is as follows:

|                                  | 31 December 2022     | 31 December 2021 |
|----------------------------------|----------------------|------------------|
| Credit loans<br>Guaranteed loans | 3,703,830<br>566,000 | 5,015,000        |
|                                  | 4,269,830            | 5,015,000        |

Movement in the provision for impairment of loans is as follows:

|                                | Sta          | ge 1                       | Stag         | ge 2                       | Sta                   | ge 3                       |
|--------------------------------|--------------|----------------------------|--------------|----------------------------|-----------------------|----------------------------|
|                                | 12-moi       | nth ECL                    | Lifetin      | ne ECL                     | Lifetin<br>(credit ir | ne ECL<br>npaired)         |
|                                | Book balance | Provision for bad<br>debts | Book balance | Provision for bad<br>debts | Book balance          | Provision for bad<br>debts |
|                                |              |                            |              |                            |                       |                            |
| 31 December 2021               | 5,000,000    | 163,295                    | 15,000       | 2,157                      | -                     | -                          |
| Net increase/loss of this year | (730,170)    | 118,281                    | (15,000)     | (2,157)                    | -                     | -                          |
| Net transfer of this year      | (4,082,330)  | (275,537)                  | 4,082,330    | 275,537                    |                       |                            |
| 31 December 2022               | 187,500      | 6,039                      | 4,082,330    | 275,537                    | _                     |                            |

## (14) Other current assets (Cont'd)

(a) Loans due within 1 year (Cont'd)

(i) As at the balance sheet date, provision for bad debts of short-term loans in Stage 1 was analysed below:

|   |  |                         | 31 December 2022  |
|---|--|-------------------------|---|
|   | Doolele door                               | 12 th FCl to            | Provision for bad   |
|   | Book balance                               | 12-month ECL rate       | debts   |
| Stage 1   | 187,500                                    | 3%                      | 6,039   |
|   |  |                         | 31 December 2021  |
|   | Book balance                               | 12-month ECL rate       | Provision for bad<br>debts  |
| Individual provision  | 5,000,000                                  | 3%                      | 163,295   |
|   |  |                         | 31 December 2022 Provision for bad  |
| Stage 2   | <b>Book balance</b><br>4,082,330           | 12-month ECL rate       | Provision for bad<br>debts  |
| Stage 2   |  |                         | Provision for bad<br>debts  |
| Stage 2   | 4,082,330                                  |                         | Provision for bad<br>debts<br>275,537<br>31 December 2021<br>Provision for bad          |
|   | 4,082,330                                  | 7%                      | Provision for bad<br>debts<br>275,537<br>31 December 2021<br>Provision for bad<br>debts |
| Individual provision  | 4,082,330<br>Book balance                  | 7%<br>12-month ECL rate | Provision for bad<br>debts<br>275,537<br>31 December 2021<br>Provision for bad<br>debts |
| Stage 2 Individual provision (b) Other debt investments due within 1 year | 4,082,330<br><b>Book balance</b><br>15,000 | 7%<br>12-month ECL rate | Provision for bad<br>debts<br>275,537<br>31 December 2021<br>Provision for bad<br>debts |

The Group considers the risk of credit impairment on other debt investments due within one year to be low, all of which are in the first stage and the expected credit losses are not material.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (14) Other current assets (Cont'd)

(c) Discounted notes and other short-term debt investments

The maturity dates of the discounted notes and other short-term debt investments are analysed as follows:

|                                | 31 December 2022 | 31 December 2021 |
|--------------------------------|------------------|------------------|
| Within 3 months                | 263,846          | 11,547           |
| 3 to 6 months                  | -                | 17,920           |
| 6 months to 1 year             | 673,408          | 916,792          |
|                                | 937,254          | 946,259          |
| Less: Provision for impairment | (53,056)         | (4,364)          |
|                                | 884,198          | 941,895          |

Discount of notes represents the discount of bank acceptance notes and trade acceptance notes rendered by Finance Company.

Movement in provision for impairment of discounted notes and other short-term debt investments is as follows:

|  | 2022   | 2021     |
|--|--------|----------|
| Opening balance                        | 4,364  | 67,040   |
| Accrual/(Reversal) in the current year | 48,692 | (62,676) |
| Ending balance                         | 53,056 | 4,364    |

### (15) Loans and advances

|                           | 31 December 2022 |                             |                    |              | 31 D                        | ecember 2021       |
|---------------------------|------------------|-----------------------------|--------------------|--------------|-----------------------------|--------------------|
|                           | Book balance     | Provision for<br>impairment | Carrying<br>amount | Book balance | Provision for<br>impairment | Carrying<br>amount |
| Loans and advances        | 2,598,997        | 203,617                     | 2,395,380          | 2,414,000    | 258,738                     | 2,155,262          |
| Less: Loans within 1 year | (909,997)        | (105,569)                   | (804,428)          | (20,000)     | (2,876)                     | (17,124)           |
|                           | 1,689,000        | 98,048                      | 1,590,952          | 2,394,000    | 255,862                     | 2,138,138          |

Loans and advances are loans provided by Finance Company to related parties within Electric Holdings.

## (15) Loans and advances (Cont'd)

Movement in the provision for impairment of loans and advances (including the current portion) is as follows:

|                              | 2022     |
|------------------------------|----------|
| Opening balance              | 258,738  |
| Reversal in the current year | (55,121) |
| Ending balance               | 203,617  |

Loans and advances (including the current portion) are analysed based on guarantee method:

|                  | 31 December 2022 | 31 December 2021 |
|------------------|------------------|------------------|
| Credit loans     | 1,319,997        | 2,414,000        |
| Guaranteed loans | 1,279,000        | -                |
|                  | 2,598,997        | 2,414,000        |

Movement in the provision for impairment of loans and advances (including the current portion) is as follows:

|                              | Stage 1<br>12-month ECL |                         | Stage 2<br>Lifetime ECL |                         | Stage 3<br>Lifetime ECL |                         |
|------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|                              |                         |                         |                         |                         |                         |                         |
|                              | Book balance            | Provision for bad debts | Book balance            | Provision for bad debts | Book balance            | Provision for bad debts |
| 31 December 2021             | 1,500,000               | 48,989                  | 914,000                 | 209,749                 | -                       | -                       |
| Decrease in the current year | 193,000                 | 20,502                  | (8,003)                 | (75,623)                | -                       | -                       |
| Increase in the current year | (393,000)               | (27,620)                | 373,003                 | 24,824                  | 19,997                  | 2,796                   |
| 31 December 2022             | 1,300,000               | 41,871                  | 1,279,000               | 158,950                 | 19,997                  | 2,796                   |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

## (15) Loans and advances (Cont'd)

(a) As at 31 December 2022, the provision for bad debts of loan and advances (including the current portion) in Stage 1 was analysed as below:

|                      |              |                   | 31 December 2022        |
|----------------------|--------------|-------------------|-------------------------|
|                      | Book balance | Lifetime ECL rate | Provision for bad debts |
| Individual provision | 1,300,000    | 3%                | 41,871                  |

As at 31 December 2021, the provision for bad debts of loans and advances (including the current portion) in Stage 1 was analysed as below:

|                      |              | 31 December 2021  |                         |
|----------------------|--------------|-------------------|-------------------------|
|                      | Book balance | Lifetime ECL rate | Provision for bad debts |
| Individual provision | 1,500,000    | 3%                | 48,989                  |

(b) As at 31 December 2022, the provision for bad debts of loans and advances (including the current portion) in Stage 2 was analysed as below:

|                      |              |                   | 31 December 2022        |
|----------------------|--------------|-------------------|-------------------------|
|                      | Book balance | Lifetime ECL rate | Provision for bad debts |
| Individual provision | 1,298,997    | 7%-17%            | 161,746                 |

As at 31 December 2021, the provision for bad debts of loans and advances (including the current portion) in Stage 2 was analysed as below:

|                      |              | :                 | 31 December 2021        |
|----------------------|--------------|-------------------|-------------------------|
|                      | Book balance | Lifetime ECL rate | Provision for bad debts |
| Individual provision | 914,000      | 14%-26%           | 209,749                 |

## (15) Loans and advances (Cont'd)

(c) As at 31 December 2022, the provision for bad debts of loans and advances (including the current portion) in Stage 3 was analysed as below:

| -                    |              |                   | 31 December 2022        |
|----------------------|--------------|-------------------|-------------------------|
|                      | Book balance | Lifetime ECL rate | Provision for bad debts |
| Individual provision | 19,997       | 14%               | 2,796                   |

As at 31 December 2021, the provision for bad debts of loans and advances (including the current portion) in Stage 3 was analysed as below:

| _                    |              |                   | 31 December 2021        |
|----------------------|--------------|-------------------|-------------------------|
|                      | Book balance | Lifetime ECL rate | Provision for bad debts |
| Individual provision | -            | -                 | -                       |

## (16) Debt investments

|                | 31 December 2022 | 31 December 2021 |
|----------------|------------------|------------------|
| Treasury bonds | 152,863          | _                |

As at 31 December 2022, the Group's significant debt investments are listed as follows:

|   | Par value | Nominal interest rate | Effective interest rate | Maturity date    |
|---|-----------|-----------------------|-------------------------|------------------|
| 21 treasury bonds<br>with interest<br>payable | 150,000   | 2.89%                 | 2.67%                   | 18 November 2031 |

As at 31 December 2022, the Group expected that the risk exposure of such debt instrument investments was low. Thus, no provision for significant credit losses was made.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (17) Other debt investments

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
| Investments in debt instruments -               |                  |                  |
| Interbank deposits ((a) and (b))                | 15,486,059       | 7,570,419        |
| Bond investments (b)                            | -                | 81,874           |
|   | 15,486,059       | 7,652,293        |
| Including:                                      |                  |                  |
| - Costs   | 15,447,192       | 7,598,390        |
| - Accumulated changes in fair value             | 38,867           | 53,903           |
| Less: Other debt investments presented in other |                  |                  |
| current assets (Note 4(14))                     | (15,486,059)     | (7,570,419)      |
|   |                  | 81,874           |

For the year ended 31 December 2022, the Group disposed investments in debt instruments of RMB8,085,530 thousand at a consideration of RMB8,276,411 thousand and transferred the accumulated other comprehensive income of RMB190,881 thousand to investment income (Note 4(65)).

As at 31 December 2022, the Group expected that the risk exposure of such debt instrument investments was low. Thus, no provision for significant credit losses was made.

### (a) Interbank deposits

The interbank deposits held by the Group mainly include:

| Name of interbank deposits | Primary activities engaged in by the<br>interbank deposits   | Carrying amount as at 31<br>December 2022 |
|----------------------------|--|---|
| Interbank deposits 1       | A large deposit certificate issued by a bank deposit-<br>type financial institution for individuals, non-<br>financial enterprises, and institutional entities | 883,153                                   |
| Interbank deposits 2       | A large deposit certificate issued by a bank deposit-<br>type financial institution for individuals, non-<br>financial enterprises, and institutional entities | 498,603                                   |
| Interbank deposits 3       | A large deposit certificate issued by a bank deposit-<br>type financial institution for individuals, non-<br>financial enterprises, and institutional entities | 497,571                                   |
| Interbank deposits 4       | A large deposit certificate issued by a bank deposit-<br>type financial institution for individuals, non-<br>financial enterprises, and institutional entities | 491,436                                   |

## (17) Other debt investments (Cont'd)

(b) The related information on other debt investments measured at fair value is as follows:

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Bonds  |                  |                  |
| - Fair value                                 | -                | 81,874           |
| - Amortised cost                             | -                | 81,191           |
| - Accumulation in other comprehensive income | -                | 683              |
| Interbank deposits                           |                  |                  |
| - Fair value                                 | 15,486,059       | 7,570,419        |
| - Amortised cost                             | 15,447,192       | 7,517,199        |
| - Accumulation in other comprehensive income | 38,867           | 53,220           |
| Total  |                  |                  |
| - Fair value                                 | 15,486,059       | 7,652,293        |
| - Amortised cost                             | 15,447,192       | 7,598,390        |
| - Accumulation in other comprehensive income | 38,867           | 53,903           |

## (18) Long-term receivables

|   | 31 December 2022 |                             |                             | 31 December 2021 |                             |                             |  |
|---|------------------|-----------------------------|-----------------------------|------------------|-----------------------------|-----------------------------|--|
|   | Book balance     | Provision for<br>impairment | Provision for<br>impairment | Book balance     | Provision for<br>impairment | Provision for<br>impairment |  |
|   |                  |                             |                             |                  |                             |                             |  |
| Finance lease and<br>leaseback receivables (a)<br>Loans receivable from | 5,466,830        | (1,371,524)                 | 4,095,306                   | 7,110,753        | (1,358,783)                 | 5,751,970                   |  |
| related parties (Note<br>8(6))  | 1,672,704        | (604,795)                   | 1,067,909                   | 1,416,852        | (276,976)                   | 1,139,876                   |  |
| Others  | 94,400           | (5,204)                     | 89,196                      | 60,464           | (4,871)                     | 55,593                      |  |
|   | 7,233,934        | (1,981,523)                 | 5,252,411                   | 8,588,069        | (1,640,630)                 | 6,947,439                   |  |
| Less: Current portion of long-term receivables                          | (3,159,281)      | 1,235,595                   | (1,923,686)                 | (3,956,598)      | 1,267,358                   | (2,689,240)                 |  |
|   | 4,074,653        | (745,928)                   | 3,328,725                   | 4,631,471        | (373,272)                   | 4,258,199                   |  |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (18) Long-term receivables (Cont'd)

(a) Finance lease and leaseback receivables

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Finance lease receivables  | 4,352,713        | 5,475,166        |
| Less: Unrealised financing income                                | (825,214)        | (1,048,650)      |
| Balance of finance lease receivables                             | 3,527,499        | 4,426,516        |
| Receivables for sale-leaseback                                   | 1,939,331        | 2,684,237        |
| Lease receivables - net  | 5,466,830        | 7,110,753        |
| Less: Provision for bad debts                                    | (1,371,524)      | (1,358,783)      |
| Net value of finance lease and leaseback receivables             | 4,095,306        | 5,751,970        |
| Less: Current portion of finance lease and leaseback receivables | (1,864,582)      | (2,549,792)      |
|  | 2,230,724        | 3,202,178        |

As at 31 December 2022, there were no unquaranteed residual values in connection with finance lease arrangements or contingent lease arrangements of the Group that needed to be recorded.

(b) The maturity dates of finance lease receivables are analysed below:

|               | 31 December 2022 | 31 December 2021 |
|---------------|------------------|------------------|
| Within 1 year | 1,671,539        | 1,758,505        |
| 1 to 2 years  | 633,102          | 961,497          |
| 2 to 3 years  | 542,170          | 761,132          |
| Over 3 years  | 1,505,902        | 1,994,032        |
|               | 4,352,713        | 5,475,166        |

(c) Movement in the provision for impairment of long-term receivables (including the current portion) is as follows:

|                         | 31 December 2021 | Increase in the<br>current year | Reversal in the current year | 31 December 2022 |
|-------------------------|------------------|---------------------------------|------------------------------|------------------|
| Provision for bad debts | 1,640,630        | 439,616                         | (98,722)                     | 1,981,524        |

## (18) Long-term receivables (Cont'd)

(d) Movement in the provision for impairment of finance lease receivables (including the current portion)

|  | Stage 1<br>12-month ECL |                         | Stag            | ge 2                    | Stage 3         |                         |
|--|-------------------------|-------------------------|-----------------|-------------------------|-----------------|-------------------------|
| -  |                         |                         | Lifetin         | Lifetime ECL            |                 | Lifetime ECL            |
| -  | Carrying amount         | Provision for bad debts | Carrying amount | Provision for bad debts | Carrying amount | Provision for bad debts |
| 31 December 2021                               | 3,663,150               | 99,867                  | 248,967         | 32,305                  | 3,198,636       | 1,226,611               |
| Net decrease in the current year               | (1,234,000)             | (33,312)                | (36,844)        | (3,345)                 | (373,079)       | (196,508)               |
| Transfer in the current year                   | (1,487,677)             | (40,331)                | 297,440         | (2,487)                 | 1,190,237       | 42,818                  |
| Transfer from Stage 1 to Stage 2               | (463,122)               | (12,555)                | 463,122         | 12,555                  | -               | -                       |
| Transfer from Stage 1 to Stage 3               | (1,024,555)             | (27,776)                | =               | -                       | 1,024,555       | 27,776                  |
| Transfer from Stage 2 to Stage 3               | -                       | -                       | (165,682)       | (15,042)                | 165,682         | 15,042                  |
| Transfer from Stage 2 to Stage 1               | =                       | -                       | =               | -                       | -               | -                       |
| (Decrease)/(Increase) in provision<br>(Note 1) | -                       | (3,757)                 | -               | (67)                    | -               | 249,730                 |
| 31 December 2022                               | 941,473                 | 22,467                  | 509,563         | 26,406                  | 4,015,794       | 1,322,651               |

Note 1: The item mainly includes the probability of default caused by the regular update of the model parameters, the default exposure, the change of the default loss rate and the impact of the phase change on the measurement of ECL.

(i) As at 31 December 2022, the provision for bad debts of long-term receivables (including the current portion) in Stage 1 was analysed as below:

|   | Book balance 12-m | Provision for bad<br>debts |        |
|---|-------------------|----------------------------|--------|
| Provided on the grouping basis:<br>Long-term receivables (including the<br>current portion) | 941,473           | 0.1%-3%                    | 22,467 |

As at 31 December 2021, the provision for bad debts of long-term receivables (including the current portion) in Stage 1 was analysed as below:

|   | Book balance 12-m | onth ECL rate | Provision for bad<br>debts |
|---|-------------------|---------------|----------------------------|
| Provided on the grouping basis:<br>Long-term receivables (including the<br>current portion) | 3,663,150         | 0.1%-3%       | 99,867                     |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (18) Long-term receivables (Cont'd)

- (d) Movement in the provision for impairment of finance lease receivables (including the current portion)
- As at 31 December 2022, the provision for bad debts of long-term receivables (including the current portion) in Stage 2 was analysed as below:

|   | Book balance | Lifetime ECL rate | Provision for bad<br>debts |
|---|--------------|-------------------|----------------------------|
| Provision on the grouping basis:                      |              |                   |                            |
| Long-term receivables (including the current portion) | 509,563      | 4%-10%            | 26,406                     |

As at 31 December 2021, the provision for bad debts of long-term receivables (including the current portion) in Stage 2 was analysed as below:

|  | Book balance | Lifetime ECL rate | Provision for bad<br>debts |
|--|--------------|-------------------|----------------------------|
| Provision on the grouping basis:<br>Long-term receivables (including the<br>current portion) | 248,967      | 4%-21%            | 32,305                     |

## (18) Long-term receivables (Cont'd)

(d) Movement in the provision for impairment of finance lease receivables (including the current portion)

(iii) As at 31 December 2022, the provision for bad debts of long-term receivables (including the current portion) in Stage 3 was analysed as below:

|                             | Book balance | Lifetime ECL<br>rate | Provision for bad debts | Reason  |
|-----------------------------|--------------|----------------------|-------------------------|---|
| Finance lease receivables 1 | 923,518      | 17%                  | 157,273                 | Unrecoverable by estimation                       |
| Finance lease receivables 2 | 278,884      | 41%                  | 113,319                 | Legal disputes exist, unrecoverable by estimation |
| Finance lease receivables 3 | 201,112      | 69%                  | 137,907                 | Legal disputes exist, unrecoverable by estimation |
| Others                      | 2,612,280    | 35%                  | 914,152                 | Unrecoverable by estimation                       |
|                             | 4,015,794    |                      | 1,322,651               |   |

As at 31 December 2021, the provision for bad debts of long-term receivables (including the current portion) in Stage 3 was analysed as below:

|                             | Book balance | Lifetime ECL<br>rate | Provision for bad<br>debts | Reason   |
|-----------------------------|--------------|----------------------|----------------------------|--|
| Finance lease receivables 1 | 187,777      | 51%                  | 96,162                     | Legal disputes exist,<br>unrecoverable by estimation |
| Finance lease receivables 2 | 181,154      | 86%                  | 156,226                    | Legal disputes exist, unrecoverable by estimation    |
| Finance lease receivables 3 | 97,212       | 71%                  | 68,805                     | Legal disputes exist, unrecoverable by estimation    |
| Others                      | 2,732,493    | 33%                  | 905,418                    | Unrecoverable by estimation                          |
|                             | 3,198,636    |                      | 1,226,611                  |  |

(e) As at 31 December 2022, the Group did not enter into long-term receivables factoring contracts with recourse to obtain bank borrowings (31 December 2021: RMB34,088 thousand).

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

## (19) Long-term equity investments

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Joint ventures (a)   | 1,842,679        | 1,750,611        |
| Associates (b)   | 9,383,334        | 9,658,387        |
|  | 11,226,013       | 11,408,998       |
| Less: Provision for impairment of long-term equity investments | (42,260)         | (7,008)          |
|  | 11,183,753       | 11,401,990       |

### (a) Joint ventures

|   |           | Movements in the current year |       |         |                              |            |                           |            |                         |           |        |           |                   |                          |
|---|-----------|-------------------------------|-------|---------|------------------------------|------------|---------------------------|------------|-------------------------|-----------|--------|-----------|-------------------|--------------------------|
|   |           | Increase in investments       | Other | •       | Share of other comprehensive | changes in | out due to<br>disposal of | out due to | dividends<br>or profits | Provision | Others |           | Shareholding<br>% | Provision for impairment |
|   |           |                               |       |         |                              | -17        |                           |            |                         |           |        |           |                   |                          |
| Shanghai Yun Zhong Xin<br>Enterprise Development<br>Co., Ltd. (i) | 651,352   | -                             | -     | (2,363) | -                            | -          | -                         | -          | -                       | -         | =      | 648,989   | 55.00             | -                        |
| Shanghai Fanuc<br>Intelligent Machines Co.,<br>Ltd.               | 382,807   | -                             | -     | 153,676 | -                            | -          | -                         | -          | (100,748)               | -         | =      | 435,735   | 49.00             | -                        |
| Shanghai Yun Hong<br>Enterprise Development<br>Co., Ltd.          | 297,000   | -                             | -     | =       | -                            | =          | -                         | -          | -                       | _         | _      | 297,000   | 45.00             | _                        |
| Shanghai Yun Hui<br>Enterprise Development                        | 257,000   |                               |       |         |                              |            |                           |            |                         |           |        | 237,000   | 15.00             |                          |
| Co., Ltd. (ii)  | 221,557   | -                             | -     | (267)   | -                            | -          | -                         | -          | -                       | -         | -      | 221,290   | 60.00             | -                        |
| Others  | 197,895   | 48,000                        | (77)  | 2,113   |                              | -          |                           | (13,260)   |                         |           | 4,994  | 239,665   |                   | -                        |
|   | 1,750,611 | 48,000                        | (77)  | 153,159 |                              | -          | _                         | (13,260)   | (100,748)               |           | 4,994  | 1,842,679 |                   | -                        |

Please refer to Note 6(2) for information related to equity in joint ventures.

- (i) Shanghai Electric Group Real Estate Co., LTD., one of the subsidiaries of the Group, holds 55% of the shares in Shanghai Yun Zhong Xin Enterprise Development Co., Ltd. According to the articles of association of Shanghai Yun Zhong Xin Enterprise Development Co., Ltd., major financial and business decisions of the company must be unanimously voted by all shareholders, so it is accounted as a joint venture.
- (ii) Shanghai Electric Group Real Estate Co., LTD., one of the subsidiaries of the Group, holds 60% of the shares in Shanghai Yun Hui Enterprise Development Co., Ltd. According to the articles of association of Shanghai Yun Hui Enterprise Development Co., Ltd., major financial and business decisions of the company must be unanimously voted by all shareholders, so it is accounted as a joint venture.

## (19) Long-term equity investments (Cont'd)

(b) Associates

|  | _                   |         |   |   | Mo | ovements in th   | e current year   |                                       |           |                          |        |                        |       |                                |
|--|---------------------|---------|---|---|----|--|--|---------------------------------------|-----------|--------------------------|--------|------------------------|-------|--------------------------------|
|  | 31 December<br>2021 |         |   | Share of net<br>profit/loss S<br>under equityco<br>method |    | Transfer-<br>out due to<br>disposal of<br>subsidiaries | Associates<br>reclassified<br>as other<br>non-current S<br>financial<br>assets | hare of other<br>changes in<br>equity |           | Provision for impairment | Others | 31 December SI<br>2022 | -     | Provision<br>for<br>impairment |
| Shanghai Mitsubishi Electric Shangling<br>Air Conditioner Electric Co., Ltd.             | 673,576             | -       | - | 23,902  | -  | -  | -  | -                                     | (12,445)  | -                        | -      | 685,033                | 47.59 | -                              |
| Ideal Wanlihui Semiconductor<br>Equipment (Shanghai) Co., Ltd(i)                         | -                   | 665,455 | - | (623)   | -  | -  | -  | -                                     | -         | -                        | -      | 664,832                | 12.00 | -                              |
| Shanghai Rail Traffic Equipment<br>Development Co., Ltd.                                 | 571,814             | -       | - | 22,432  | -  | -  | -  | -                                     | (13,206)  | -                        | -      | 581,040                | 49.00 | -                              |
| Shanghai Jintai Engineering<br>Machinery Co., Ltd.                                       | 551,690             | -       | - | 4,892   | -  | -  | -  | -                                     | (3,540)   | -                        | -      | 553,042                | 49.00 | -                              |
| Shanghai Electric<br>Investment (Dubai) Co., Ltd.  | 607,370             | -       | - | (129,808)   | -  | -  | -  | -                                     | -         | -                        | 54,587 | 532,149                | 39.20 | -                              |
| Mitsubishi Electric Shanghai Mechanical &<br>Electrical Elevator Co., Ltd.               | 479,700             | -       | - | 35,528  | -  | -  | -  | -                                     | (15,806)  | -                        | -      | 499,422                | 40.00 | -                              |
| Shanghai Yileng Carrier Air<br>Conditioning Equipment Co., Ltd.                          | 415,973             | -       | - | 61,910  | -  | -  | -  | -                                     | (90,434)  | -                        | -      | 387,449                | 30.00 | -                              |
| Haitong UniFortune<br>International Leasing Co., Ltd. (ii)                               | 324,807             | -       | - | 30,851  | -  | -  | -  | -                                     | (4,454)   | -                        | 30,373 | 381,577                | 2.03  | -                              |
| Shanghai Ri Yong – JEA Gate<br>Electric Co., Ltd.  | 280,427             | -       | - | 23,053  | -  | -  | -  | -                                     | (39,634)  | -                        | -      | 263,846                | 30.00 | -                              |
| Shanghai Pudong New Area Zhangjiang Petty<br>Loan Limited Company                        | 228,067             | -       | - | 14,250  | -  | -  | -  | -                                     | (12,425)  | -                        | -      | 229,892                | 23.75 | -                              |
| Zhejiang Zhuji Lianchuang Yongjun Equity<br>Investment Partnership (Limited Partnership) | 194,125             | -       | - | (1,593)   | -  | -  | -  | -                                     | -         | -                        | -      | 192,532                | 20.92 | -                              |
| Shanghai Siemens<br>Switchgear Co., Ltd.   | 189,174             | -       | - | 95,855  | -  | -  | -  | -                                     | (101,814) | -                        | -      | 183,215                | 45.00 | -                              |
| Nanjing Panneng Power<br>Technology Co., Ltd.  | 167,136             | -       | - | 7,426   | -  | -  | -  | -                                     | (7,500)   | -                        | -      | 167,062                | 25.00 | -                              |
| Nabtesco (China) Precision<br>Machine Co., Ltd.  | 124,501             | -       | - | 21,548  | -  | -  | -  | -                                     | -         | -                        | -      | 146,049                | 33.00 | -                              |
| Shanghai Marathon<br>Innovation Electric Co., Ltd.                                       | 146,091             | -       | - | 16,767  | -  | -  | -  | -                                     | (23,745)  | -                        | -      | 139,113                | 45.00 | -                              |
| Shanghai Danfoss Hydrostatic<br>Transmission Co., Ltd.                                   | 140,799             | -       | - | 46,171  | -  | -  | -  | -                                     | (49,328)  | -                        | -      | 137,642                | 40.00 | -                              |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (19) Long-term equity investments (Cont'd)

(b) Associates(Cont'd)

|   |                     |   |                         |   | М           | ovements in th   | e current year |                                       |           |   |        |                        |       |                                |
|---|---------------------|---|-------------------------|---|-------------|--|----------------|---------------------------------------|-----------|---|--------|------------------------|-------|--------------------------------|
|   | 31 December<br>2021 |   | Decrease in investments | Share of net<br>profit/loss S<br>under equityco<br>method | mprehensive | Transfer-<br>out due to<br>disposal of<br>subsidiaries | financial      | hare of other<br>changes in<br>equity |           |   | Others | 31 December SI<br>2022 | •     | Provision<br>for<br>impairment |
| Shanghai Nabtesco<br>Hydraulic Co., Ltd.                                    | 181,679             | - | -                       | 23,767  | -           | -  | -              | -                                     | (68,233)  | - | -      | 137,213                | 30.00 | -                              |
| Legend Electric (Shenyang)<br>Co., Ltd.                                     | 142,408             | - | -                       | 46,445  | -           | -  | -              | -                                     | (54,600)  | - | -      | 134,253                | 35.00 | -                              |
| KSB Shanghai Pumps Co.,<br>Ltd.   | 132,487             | - | -                       | 13,618  | -           | -  | -              | -                                     | (17,600)  | - | -      | 128,505                | 20.00 | -                              |
| Shanghai Voith Hydropower<br>Equipment Co., Ltd.                            | 122,449             | - | -                       | 9,069   | -           | -  | -              | -                                     | (15,513)  | - | -      | 116,005                | 20.00 | -                              |
| Zhongfu Lianzhong Wind<br>Power Technology Co., Ltd.                        | 105,205             | - | -                       | 931   | -           | -  | -              | -                                     | (389)     | - | -      | 105,747                | 40.00 | -                              |
| Shanghai Huaduo Equity Investment Fund<br>Partnership (Limited Partnership) | 92,761              | - | -                       | -   | -           | -  | -              | -                                     | -         | - | -      | 92,761                 | 22.94 | -                              |
| Shanghai ABB Motor Co.,<br>Ltd.   | 78,999              | - | -                       | 17,126  | -           | -  | -              | -                                     | (10,014)  | - | -      | 86,111                 | 25.00 | -                              |
| Shanghai Schneider Power Distribution<br>Electrical Apparatus Co., Ltd.     | 86,955              | - | -                       | 104,906   | -           | -  | -              | -                                     | (113,953) | - | -      | 77,908                 | 20.00 | -                              |
| SEC Alstom (Shanghai Baoshan)<br>Transformers Co., Ltd.                     | 76,450              | - | -                       | 376   | -           | -  | -              | -                                     | -         | - | -      | 76,826                 | 50.00 | -                              |
| Shanghai Clyde Bergemann<br>Machinery Co., Ltd.                             | 73,644              | - | -                       | 455   | -           | -  | -              | -                                     | -         | - | -      | 74,099                 | 30.00 | -                              |
| Shanghai Schneider<br>Industrial Control Co., Ltd.                          | 83,844              | - | -                       | 59,152  | -           | -  | -              | -                                     | (72,906)  | - | -      | 70,090                 | 20.00 | -                              |
| Shanghai ABB Transformers<br>Co., Ltd.                                      | 82,975              | - | -                       | 20,216  | -           | -  | -              | -                                     | (33,792)  | - | -      | 69,399                 | 49.00 | -                              |
| Carrier Air Conditioning Sales<br>Service (Shanghai) Co., Ltd.              | 71,907              | - | -                       | (1,161)   | -           | -  | -              | -                                     | (10,500)  | - | -      | 60,246                 | 30.00 | -                              |

### (19) Long-term equity investments (Cont'd)

(b) Associates(Cont'd)

|   | -                |         |                         |  | M                                  | ovements in th   | ne current year   |  |           |                          |         | -            |       |                                |
|---|------------------|---------|-------------------------|--|------------------------------------|--|---|--|-----------|--------------------------|---------|--------------|-------|--------------------------------|
|   | 31 December 2021 |         | Decrease in investments | Share of net<br>profit/loss<br>under equityc<br>method | Share of other omprehensive income | Transfer-<br>out due to<br>disposal of<br>subsidiaries | Associates reclassified as other non-current S financial assets | Share of other<br>changes in<br>equity |           | Provision for impairment |         | 31 December: | •     | Provision<br>for<br>impairment |
|   |                  |         |                         |  |                                    |  |   | . ,                                    |           |                          |         |              |       |                                |
| Ningxia Ningbo Industrial Investment<br>Fund (Limited Partnership)                | 553,660          | -       | (553,660)               | -  | -                                  | -  | -   | -                                      | -         | -                        | -       | -            | 23.00 | -                              |
| Chongqing Fuling Energy<br>Industry Group Co., Ltd.                               | 189,878          | -       | -                       | (3,375)  | -                                  | (186,503)  | -   | -                                      | -         | -                        | -       | -            | 10.38 | -                              |
| Rudong Haixiang Offshore<br>Wind Power Co., Ltd.                                  | 127,037          | 38,880  | -                       | 75,701   | -                                  | -  | (241,618)   | -                                      | -         | -                        | -       | -            | 18.00 | -                              |
| Guangrao Guoxin Equity Investment Fund<br>Management Centre (Limited Partnership) | 99,983           | -       | -                       | -  | -                                  | (99,983)   | -   | -                                      | -         | -                        | -       | -            | 12.50 | -                              |
| Ningxia Anneng Biomass<br>Thermal Power Co., Ltd                                  | 35,236           | -       | -                       | (461)  | -                                  | -  | -   | -                                      | -         | (35,252)                 | 477     | -            | 49.00 | (35,252)                       |
| Rudong Hefeng Offshore<br>Wind Power Co., Ltd.                                    | 34,563           | 10,800  | -                       | 19,239   | -                                  | -  | (64,602)  | -                                      | -         | -                        | -       | -            | 5.00  | -                              |
| Others  | 2,184,009        | 230,765 | (70)                    | (15,264)   | -                                  | (157)  | -   | -                                      | (213,209) | -                        | 181,942 | 2,368,016    | -     | (7,008)                        |
|   | 9,651,379        | 945,900 | (553,730)               | 643,301  | -                                  | (286,643)  | (306,220)   | -                                      | (985,040) | (35,252)                 | 267,379 | 9,341,074    | -     | (42,260)                       |

Please refer to Note 6(2) for related information on interests in associates.

- (i) Although Shanghai Electric Group Automation Engineering Co., Ltd., a subsidiary of the Group, holds 12.00% of shares in Ideal Wanlihui Semiconductor Equipment (Shanghai) Co., Ltd, the Group has the right to appoint directors to exert significant influence on the company, so it is accounted as an associate.
- (ii) Although Shanghai Electric Hong Kong Limited, a subsidiary of the Group, holds 2.03% of shares in Haitong UniFortune International Leasing Co., Ltd, the Group has the right to appoint directors to exert significant influence on the company, so it is accounted as an associate.

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

# 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (20) Other non-current financial assets

|   | 31 December 2022       | 31 December 2021       |
|---|------------------------|------------------------|
| Equity investments in unlisted companies Stock and fund investments | 5,552,366<br>1,716,097 | 5,320,377<br>1,646,220 |
|   | 7,268,463              | 6,966,597              |

(a) The equity investments in unlisted companies held by the Group mainly include:

| Company   | 31 December 2022 | 31 December 2021 | Shareholding ratio | Cash dividends in<br>the current year |
|-----------|------------------|------------------|--------------------|---------------------------------------|
|           |                  |                  |                    |                                       |
| Company 1 | 1,746,000        | 1,741,405        | 2.02%              | -                                     |
| Company 2 | 2,117,817        | 2,107,778        | 19.00%             | 38,000                                |
| Others    | 1,688,549        | 1,471,024        | _                  | 3,546                                 |
|           | 5,552,366        | 5,320,207        | _                  | 41,546                                |

(b) The stocks and fund investments held by the Group mainly include:

| Stock & fund | Total market<br>capitalisation | 31 December 2022 | 31 December 2021 |
|--------------|--------------------------------|------------------|------------------|
|              |                                |                  |                  |
| Stock 1      | 34.51 billion                  | 935,006          | 1,110,855        |
| Stock 2      | 74.301 billion                 | 280,419          | 383,828          |
| Stock 3      | 10.366 billion                 | 35,892           | 38,609           |
| Stock 4      | 83.961 billion                 | 28,702           | 34,627           |
| Stock 5      | 26.953 billion                 | 14,866           | 19,942           |
| Others       |                                | 421,212          | 58,359           |
|              |                                | 1,716,097        | 1,646,220        |

The above stock and fund investments are included in other non-current financial assets due to the Group plans to hold on long-term basis.

### (21) Investment properties

|                          | 31<br>December<br>2021 | Transfer<br>from fixed<br>assets | Additions due to acquisition of subsidiaries | Increase in<br>the current<br>year | Decrease in<br>the current<br>year | 31<br>December<br>2022 |
|--------------------------|------------------------|----------------------------------|--|------------------------------------|------------------------------------|------------------------|
| Cost                     | 1,840,937              | -                                | -  | -                                  | (108,132)                          | 1,732,805              |
| Accumulated depreciation | 1,017,689              | -                                | -  | 79,200                             | (24,529)                           | 1,072,360              |
| Provision for impairment | 273                    | -                                | -  | -                                  |                                    | 273                    |
| Net book value           | 822,975                |                                  |  |                                    | _                                  | 660,172                |

### (21) Investment properties (Cont'd)

For the year ended 31 December 2022, depreciation charged to investment properties was RMB79,200 thousand (2021: RMB80,061 thousand).

As at 31 December 2022, the carrying amounts of investment properties leased to associates and third parties were RMB31,020 thousand and RMB629,152 thousand, respectively. It is mainly used for its production and operation, and the Group conducts daily maintenance and management of the investment properties.

### (22) Fixed assets

|   | Buildings   | Machinery and equipment | Motor vehicles | Office equipment and others | Total       |
|---|-------------|-------------------------|----------------|-----------------------------|-------------|
| Cost  |             |                         |                |                             |             |
| 31 December 2021  | 15,255,312  | 20,018,902              | 515,043        | 2,050,180                   | 37,839,437  |
| Increase in the current year  |             |                         |                |                             |             |
| Purchase  | 1,293,082   | 344,888                 | 27,507         | 122,717                     | 1,788,194   |
| Transfers from construction in progress                             | 1,982,649   | 1,178,596               | 6,481          | 121,689                     | 3,289,415   |
| Business combinations involving                                     |             | 19,139                  | 237            | 741                         | 20,117      |
| enterprises not under common control                                | 69,713      |                         |                |                             | 69,713      |
| Transfer from investment properties  Decrease in the current year   | 09,/13      |                         |                |                             | 09,/13      |
| Disposal and retirement   | (122,489)   | (658,844)               | (33,398)       | (60,944)                    | (875,675)   |
| Decrease due to disposal of subsidiaries                            | (1,340,787) | (994,711)               | (17,238)       | (13,577)                    | (2,366,313) |
| Differences on translation of foreign                               |             |                         |                |                             |             |
| currency financial statements                                       | 141,069     | 315,577                 | 2,473          | 82,790                      | 541,909     |
| 31 December 2022  | 17,278,549  | 20,223,547              | 501,105        | 2,303,596                   | 40,306,797  |
| Accumulated depreciation  |             |                         |                |                             |             |
| 31 December 2021  | 4,637,267   | 11,298,535              | 390,193        | 1,415,014                   | 17,741,009  |
| Increase in the current year  |             |                         |                |                             |             |
| Provision   | 665,305     | 1,206,390               | 20,641         | 190,223                     | 2,082,559   |
| Transfer from investment properties                                 | 12,768      |                         |                |                             | 12,768      |
| Decrease in the current year  |             |                         |                |                             |             |
| Disposal and retirement   | (55,733)    | (267,829)               | (19,281)       | (274,800)                   | (617,643)   |
| Decrease due to disposal of subsidiaries                            | (124,791)   | (8,200)                 | (1,795)        | (10,753)                    | (145,539)   |
| Differences on translation of foreign currency financial statements | 59,532      | 223,488                 | 2,073          | 70,188                      | 355,281     |
| 31 December 2022  | 5,194,348   | 12,452,384              | 391,831        | 1,389,872                   | 19,428,435  |
| Provision for impairment  | 27.7.70     | ,,                      | 55.755         | .,,                         | ,,          |
| 31 December 2021  | 85.157      | 120,868                 | 635            | 2,381                       | 209,041     |
| Increase in the current year  | 03,137      | 120,000                 | 033            | 2,301                       | 200,011     |
| Provision   | 374,039     | 19,841                  | 14             | 1,438                       | 395,332     |
| Decrease in the current year  | ,,,,,,      | - 7-                    |                | ,                           | ,           |
| Disposal and retirement   | -           | (6,538)                 | =              | (96)                        | (6,634)     |
| Decrease due to disposal of subsidiaries                            | -           | (1,685)                 | -              | -                           | (1,685)     |
| 31 December 2022  | 459,196     | 132,486                 | 649            | 3,723                       | 596,054     |
| Carrying amount   |             |                         |                |                             |             |
| 31 December 2022  | 11,625,005  | 7,638,677               | 108,625        | 910,001                     | 20,282,308  |
| 31 December 2021  | 10,532,888  | 8,599,499               | 124,215        | 632,785                     | 19,889,387  |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

#### (22) Fixed assets (Cont'd)

- (a) As at 31 December 2022, the Group pledged intangible assets with a carrying amount of RMB11,368 thousand (31 December 2021: RMB85,954 thousand), fixed assets with a carrying amount of RMB126,141 thousand (31 December 2021: RMB125,451 thousand) and investment properties with a carrying amount of RMB0 thousand (31 December 2021: RMB6,774 thousand) to obtain short-term borrowings of RMB159,400 thousand (31 December 2021: RMB366,406 thousand). As at 31 December 2022, the Group pledged fixed assets with a carrying amount of RMB511,361 thousand (31 December 2021: RMB389,685 thousand) and intangible assets with a carrying amount of RMB1,325,872 thousand (31 December 2021: RMB1,010,138 thousand) to obtain long-term borrowings of RMB2,053,429 thousand.
- (b) For the year ended 31 December 2022, depreciation charged to fixed assets amounted to RMB2,082,559 thousand (2021: RMB1,713,952 thousand), including RMB1,468,087 thousand, RMB9,577 thousand, RMB463,055 thousand and RMB141,840 thousand (2021: RMB1,171,201 thousand, RMB10,885 thousand, RM398,234 thousand and RMB133,632 thousand) charged to operating cost, selling and distribution expenses, general and administrative expenses and research and development expenses respectively.
- (c) In 2022, the costs of fixed assets transferred from construction in progress amounted to RMB3,289,415 thousand (2021: RMB2,956,723 thousand).
- (d) As at 31 December 2022, the Group's buildings with a net book value of RMB131,538 thousand (31 December 2021: a net book value of RMB188,610 thousand) were under processing for property certificate due to recent renovation or government planning. Management of the Company believes that there is no substantive legal obstacle for these property certificates, which will not adversely affect the Group's operations.
- (e) There were no terms of guaranteed residual values specified in the lease contract for machinery and equipment signed by the Group as the lessor.

### (23) Construction in progress

|  |           | 31 Dec                    | ember 2022      |                        | 31 Dec                  | ember 2021         |
|--|-----------|---------------------------|-----------------|------------------------|-------------------------|--------------------|
|  |           | rovision for<br>mpairment | Carrying amount | Book Pro<br>balance in | ovision for<br>pairment | Carrying<br>amount |
| Zhangye Lilong Project   | 1,317,616 | -                         | 1,317,616       | -                      | -                       | -                  |
| Wujiang Taihu Lake Renovation Project                                | 421,160   | (124,663)                 | 296,497         | 319,287                | _                       | 319,287            |
| Jinchang Yongneng Project  | 309,495   | -                         | 309,495         | -                      | -                       | =                  |
| Jinsha River Branch Road No. 200 Project                             | 150,447   | -                         | 150,447         | -                      | -                       | =                  |
| Ningbo Hi-Firm Integrated Treatment Project                          | 137,345   | -                         | 137,345         | 131,884                | -                       | 131,884            |
| Construction of lithium battery automation equipment production line | 7,183     | -                         | 7,183           | 943,408                | -                       | 943,408            |
| Yumen Xinneng CSP Project  | -         | -                         | -               | 1,588,171              | -                       | 1,588,171          |
| Shanghai Electric Nantong Central<br>Research Institute              | -         | -                         | -               | 469,674                | -                       | 469,674            |
| Naiman Banner Ulan Errige 200,000 KW<br>Wind Power Project           | -         | -                         | -               | 182,634                | -                       | 182,634            |
| Heilongjiang Bei'an Project  | -         | -                         | -               | 162,425                | -                       | 162,425            |
| Others   | 1,212,024 | (2,656)                   | 1,209,368       | 1,229,697              | (3,086)                 | 1,226,611          |
| _  | 3,555,270 | (127,319)                 | 3,427,951       | 5,027,180              | (3,086)                 | 5,024,094          |

### (23) Construction in progress (Cont'd)

(a) Movements in construction in progress

| Project name  | 31<br>December<br>2021 |           | Transfer<br>to fixed<br>assets in the<br>current year | Decrease<br>due to<br>disposal of<br>subsidiaries | Other<br>decreases | Differences on<br>translation of<br>foreign currency<br>financial<br>statements | 31<br>December<br>2022 | ,      | Including:<br>Capitalised<br>borrowing<br>costs in the<br>current year | Source of funds                          |
|---|------------------------|-----------|---|---|--------------------|---|------------------------|--------|--|--|
| Zhangye Lilong Project  | -                      | 1,317,616 | -   | -   | -                  | -   | 1,317,616              | 4,843  | 4,843  | Self-owned and financing                 |
| Wujiang Taihu Lake<br>Renovation Project                                      | 319,287                | 101,873   | -   | -   | -                  | -   | 421,160                | 28,826 | 9,426  | Financing                                |
| Jinchang Yongneng<br>Project<br>Jinsha River Branch Road                      | -                      | 309,495   | -   | -   | -                  | -   | 309,495                | 910    | 910  | Self-owned and financing                 |
| No. 200 Project<br>Ningbo Hi-Firm   | -                      | 150,447   | -   | -   | -                  | -   | 150,447                | 106    | 106  | Financing                                |
| Integrated Treatment<br>Project<br>Construction of lithium                    | 131,884                | 5,461     | -   | -   | -                  | -   | 137,345                | 23,470 | -  | Financing                                |
| battery automation<br>equipment production<br>line                            | 943,408                | 183,949   | (1,120,174)   | -   | -                  | -   | 7,183                  | -      | -  | Raised funds<br>and self-<br>owned funds |
| Yumen Xinneng CSP<br>Project  | 1,588,171              | 15,893    | -   | (1,604,064)                                       | -                  | -   | -                      | -      | 11,074   | Raised funds<br>and self-<br>owned funds |
| Shanghai Electric Nantong<br>Central Research Institute<br>Naiman Banner Ulan | 469,674                | 194,927   | (664,601)   | -   | -                  | -   | -                      | -      | -  | Raised funds                             |
| Errige 200,000 KW Wind<br>Power Project<br>Heilongjiang Bei'an                | 182,634                | -         | -   | (182,634)   | -                  | -   | -                      | -      | -  | Self-owned<br>funds<br>Self-owned        |
| Project<br>Others   | 162,425                | 516,069   | (678,494)   | -   | -                  | -   | -                      | -      | -  | funds                                    |
|   | 1,229,697              | 1,283,081 | (826,146)   | (124,855)   | (359,674)          | 9,921   | 1,212,024              | 47,211 | 67,139   |  |
| Total   | 5,027,180              | 4,078,811 | (3,289,415)   | (1,911,553)                                       | (359,674)          | 9,921   | 3,555,270              | 83,496 | 93,498   |  |

For the year ended 31 December 2022, the capitalised interest amounted to RMB93,498 thousand (2021: RMB61,717 thousand).

### (b) Budget of major construction in progress

|   |           |          |                         |                      |           | Differences<br>on      |                |                    |                  |                          | Including:<br>Capitalised |             |                         |
|---|-----------|----------|-------------------------|----------------------|-----------|------------------------|----------------|--------------------|------------------|--------------------------|---------------------------|-------------|-------------------------|
|   |           |          |                         | Transfer<br>to fixed |           | translation of foreign |                | Project investment |                  | Accumulated<br>amount of | borrowing costs in the    | Capitalised |                         |
| During to a sure                                      | Declarat  | December | Increase in the current |                      | Other     |                        | 31<br>December |                    | Project progress | borrowing                | Capitalised               |             | Source of               |
| Project name  | Budget    | 2021     | year                    | year                 | decreases | statements             | 2022           | of budget          | (%)              | costs                    | amount                    | year (%)    | funds                   |
| Zhangye Lilong Project<br>Wujiang Taihu Lake          | 2,198,938 | -        | 1,317,616               | -                    | -         | -                      | 1,317,616      | 60%                | 60%              | 4,843                    | 4,843                     | 3%          | Self-owned<br>funds     |
| Renovation Project 100 MW Wind Power Project in North | 408,330   | 319,287  | 101,873                 | -                    | -         | -                      | 421,160        | 95%                | 95%              | 28,826                   | 9,426                     | 5%          | Financing<br>Self-owned |
| of Jinchuan District, Jinchang City                   | 521,880   | -        | 309,495                 | -                    | -         | -                      | 309,495        | 59%                | 59%              | 910                      | 910                       | 4%          | and financing           |
| Jinsha River Branch Road<br>No. 200 Project           | 2,612,870 | -        | 150,447                 | -                    | -         | -                      | 150,447        | 10%                | 10%              | 106                      | 106                       | 4%          | Financing               |
| Ningbo Hi-Firm Integrated<br>Treatment Project        | 480,944   | 131,884  | 5,461                   | -                    | -         | -                      | 137,345        | 33%                | 33%              | 23,470                   | -                         | -           | Financing               |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (24) Right-of-use assets

|   |           | Machinery |          | Computers         |          |           |
|---|-----------|-----------|----------|-------------------|----------|-----------|
|   |           | and       | Motor    | and<br>electronic | Land use |           |
|   | Buildings | equipment | vehicles | equipment         | rights   | Total     |
| Cost  |           |           |          |                   |          |           |
| 31 December 2021  | 1,987,588 | 98,705    | 56,266   | 30,991            | 39,360   | 2,212,910 |
| Increase in the current year  |           |           |          |                   |          |           |
| New lease contracts   | 446,529   | 53,087    | 16,099   | 399               | 55,791   | 571,905   |
| Decrease in the current year  |           |           |          |                   |          |           |
| Change of lease contracts   | (335,773) | (265)     | (3,341)  | (6,862)           | -        | (346,241) |
| Decrease due to disposal of subsidiaries                            | (35,245)  | -         | -        | -                 | =        | (35,245)  |
| Differences on translation of foreign currency financial statements | 8,340     | 8,213     | 5,185    | 1,672             | -        | 23,410    |
| 31 December 2022  | 2,071,439 | 159,740   | 74,209   | 26,200            | 95,151   | 2,426,739 |
| Accumulated depreciation 31 December 2021                           | 642.821   | 53.450    | 30.525   | 17 879            | 9,660    | 754 204   |
| 31 December 2021  | 642,821   | 53,459    | 30,525   | 17,829            | 9,660    | 754,294   |
| Increase in the current year  |           |           |          |                   |          |           |
| Provision   | 358,855   | 17,792    | 13,129   | 1,534             | 10,164   | 401,474   |
| Decrease in the current year  |           |           |          |                   |          |           |
| Modification of leases  | (129,681) | (231)     | (3,313)  | (293)             | -        | (133,518) |
| Decrease due to disposal of subsidiaries                            | (15,518)  | -         | -        | -                 | -        | (15,518)  |
| Differences on translation of foreign currency financial statements | 2,597     | 1,559     | 1,309    | 531               | -        | 5,996     |
| 31 December 2022  | 859,074   | 72,579    | 41,650   | 19,601            | 19,824   | 1,012,728 |
| Provision for impairment  |           |           |          |                   |          |           |
| 31 December 2021  | 16,784    | -         | -        | -                 | -        | 16,784    |
| 31 December 2022  | 11,842    | -         | -        | -                 | -        | 11,842    |
| Carrying amount   |           |           |          |                   |          |           |
| 31 December 2022  | 1,200,523 | 87,161    | 32,559   | 6,599             | 75,327   | 1,402,169 |
| 31 December 2021  | 1,327,983 | 45,246    | 25,741   | 13,162            | 29,700   | 1,441,832 |

# (25) Intangible assets and development expenditures

(a) Intangible assets

|  | Land use<br>rights | Franchising |           | Technology<br>transfer fee | Computer<br>software<br>and others | Total      |
|--|--------------------|-------------|-----------|----------------------------|------------------------------------|------------|
| Cost   |                    |             |           |                            |                                    |            |
| 31 December 2021   | 7,117,460          | 5,939,586   | 2,041,625 | 650,414                    | 766,073                            | 16,515,158 |
| Increase in the current year   |                    |             |           |                            |                                    |            |
| Purchase   | 215,176            | 349,725     | 31,681    | 114,725                    | 975                                | 712,282    |
| Business combinations involving enterprises not under common control | -                  | -           | 794       | -                          | 61                                 | 855        |
| Transfer from development expenditure                                | -                  | -           | 11,771    | -                          | -                                  | 11,771     |
| Decrease in the current year   |                    |             |           |                            |                                    |            |
| Disposal and retirement  | (262,396)          | (71,348)    | (21,029)  | -                          | -                                  | (354,773)  |
| Decrease due to disposal of subsidiaries                             | (273,572)          | -           | (211,392) | -                          | (97,872)                           | (582,836)  |
| Currency translation differences                                     | -                  | -           | 2,297     | 899                        | 5,096                              | 8,292      |
| 31 December 2022   | 6,796,668          | 6,217,963   | 1,855,747 | 766,038                    | 674,333                            | 16,310,749 |
| Accumulated amortisation   |                    |             |           |                            |                                    |            |
| 31 December 2021   | 1,353,118          | 400,612     | 680,335   | 556,981                    | 454,672                            | 3,445,718  |
| Increase in the current year   | ,,                 | , .         | ,         | ,                          | , ,                                | -, -,      |
| Provision  | 206,219            | 234,874     | 30,769    | 26,760                     | 57,069                             | 555,691    |
| Decrease in the current year   |                    |             |           |                            |                                    |            |
| Disposal and retirement  | (75,788)           | (86,212)    | (2,938)   | -                          | (152)                              | (165,090)  |
| Decrease due to disposal of subsidiaries                             | (39,057)           | -           | (94,209)  | -                          | (93,678)                           | (226,944)  |
| Currency translation differences                                     | -                  | -           | 1,007     | 529                        | 4,305                              | 5,841      |
| 31 December 2022   | 1,444,492          | 549,274     | 614,964   | 584,270                    | 422,216                            | 3,615,216  |
| Provision for impairment   |                    |             |           |                            |                                    |            |
| 31 December 2021   | 5,939              | -           | 90,438    | -                          | 16,170                             | 112,547    |
| Increase in the current year   |                    |             |           |                            |                                    |            |
| Provision  | -                  | -           | -         | -                          | -                                  | -          |
| Decrease in the current year   |                    |             |           |                            |                                    |            |
| Disposal and retirement  | -                  | -           | -         | -                          | -                                  | -          |
| Decrease due to disposal of subsidiaries                             | -                  | -           | -         | -                          | -                                  | -          |
| Currency translation differences                                     | -                  | -           | -         | -                          | -                                  | -          |
| 31 December 2022   | 5,939              | -           | 90,438    | -                          | 16,170                             | 112,547    |
| Carrying amount  |                    |             |           |                            |                                    |            |
| 31 December 2022   | 5,346,237          | 5,668,689   | 1,150,345 | 181,768                    | 235,947                            | 12,582,986 |
| 31 December 2021   | 5,758,403          | 5,538,974   | 1,270,852 | 93,433                     | 295,231                            | 12,956,893 |
|  |                    |             |           |                            |                                    |            |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (25) Intangible assets and development expenditures (Cont'd)

(a) Intangible assets (Cont'd)

For the year ended 31 December 2022, amortisation of intangible assets amounted to RMB555,691 thousand (2021: RMB334.456 thousand).

As at 31 December 2022, the Group had no land use rights of which a land use rights certificate was not obtained (31 December 2021: Nil).

As at 31 December 2022, the Group pledged intangible assets with a carrying amount of RMB11,368 thousand (31 December 2021: RMB85,954 thousand), fixed assets with a carrying amount of RMB126,141 thousand (31 December 2021: RMB125,451 thousand) and investment properties with a carrying amount of RMB0 thousand (31 December 2021: RMB6,774 thousand) to obtain short-term borrowings of RMB159,400 thousand (31 December 2021: RMB366,406 thousand). As at 31 December 2022, the Group pledged fixed assets with a carrying amount of RMB511,361 thousand (31 December 2021: RMB389,685 thousand) and intangible assets with a carrying amount of RMB1,325,872 thousand (31 December 2021: RMB1,010,138 thousand) to obtain long-term borrowings of RMB2,053,429 thousand.

#### (b) Development expenditures

|   |                        | Increase                  | Decrease in the c            | urrent year                         |                        |
|---|------------------------|---------------------------|------------------------------|-------------------------------------|------------------------|
| Project name  | 31<br>December<br>2021 | in the<br>current<br>year | Recognised in profit or loss | Transfer to<br>intangible<br>assets | 31<br>December<br>2022 |
| Academia Sinica Industrial Automation<br>System   | 6,735                  | 6,689                     | -                            | -                                   | 13,424                 |
| Development of Ballast Water Management<br>System for High Load Ships                   | 6,000                  | 7,361                     | -                            | -                                   | 13,361                 |
| Research and development of intelligent production system equipment in the new PC field | 299                    | 7,457                     | -                            | (7,553)                             | 203                    |
| Others  | 27,602                 | 98,750                    | (113,304)                    | (4,218)                             | 8,830                  |
|   | 40,636                 | 120,257                   | (113,304)                    | (11,771)                            | 35,818                 |

As at 31 December 2022, the balance of the Group's development expenditures was RMB35,818 thousand (31 December 2021: RMB40,636 thousand). For the year ended 31 December 2022, the development expenditures of the Group were recognised as an intangible asset of RMB11,771 thousand (2021: RMB41,286 thousand).

### (26) Goodwill

|   | 31<br>December<br>2021   |                                    | Decrease in<br>the current<br>year | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial<br>statements                       | Disposal of subsidiaries    | 31<br>December<br>2022  |
|---|--|------------------------------------|------------------------------------|---|-----------------------------|---|
| Goodwill  |  |                                    |                                    |   |                             |   |
| Shenzhen Yinghe Technology Co., Ltd.  | 1,497,236  | -                                  | -                                  | -   | -                           | 1,497,236   |
| Nedschroef  | 1,445,198  | -                                  | _                                  | 29,379  | -                           | 1,474,577   |
| Broetje-AutomationGmbH  | 1,008,072  | -                                  | -                                  | 20,493  | -                           | 1,028,565   |
| Ningbo Hi-Firm Environmental Protection<br>Company Limited  | 576,047  | -                                  | -                                  | -   | -                           | 576,047   |
| Suzhou Thvow Technology Co., Ltd.   | 323,080  | -                                  | -                                  | -   | (323,080)                   | -   |
| Wujiang Taihu Industrial Wastes Treatment<br>Company Limited  | 278,538  | -                                  | -                                  | -   | -                           | 278,538   |
| Others  | 368,910  | 4,405                              |                                    |   |                             | 373,315   |
|   |  |                                    |                                    |   |                             |   |
| Sub-total   | 5,497,081  | 4,405                              |                                    | 49,872  | (323,080)                   | 5,228,278   |
| Sub-total   | 31   |                                    | Decrease in the current            | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial<br>statements                       | Disposal of                 | 31<br>December<br>2022  |
| Sub-total  Less: Provision for impairment   | 31<br>December   | Increase in<br>the current         | Decrease in the current            | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial                                     | Disposal of                 | 31<br>December  |
|   | 31<br>December   | Increase in<br>the current         | Decrease in the current            | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial                                     | Disposal of                 | 31<br>December  |
| Less: Provision for impairment Broetje-AutomationGmbH Nedschroef  | 31<br>December<br>2021   | Increase in<br>the current         | Decrease in the current            | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial<br>statements                       | Disposal of                 | 31<br>December<br>2022  |
| Less: Provision for impairment Broetje-AutomationGmbH Nedschroef Ningbo Hi-Firm Environmental Protection Company Limited  | 31<br>December<br>2021<br>(570,387)  | Increase in<br>the current         | Decrease in the current            | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial<br>statements                       | Disposal of                 | 31<br>December<br>2022<br>(574,047)   |
| Less: Provision for impairment Broetje-AutomationGmbH Nedschroef Ningbo Hi-Firm Environmental Protection  | 31<br>December<br>2021<br>(570,387)<br>(316,426)                           | Increase in<br>the current         | Decrease in the current            | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial<br>statements                       | Disposal of                 | 31<br>December<br>2022<br>(574,047)<br>(318,457)  |
| Less: Provision for impairment Broetje-AutomationGmbH Nedschroef Ningbo Hi-Firm Environmental Protection Company Limited Wujiang Taihu Industrial Wastes Treatment  | 31<br>December<br>2021<br>(570,387)<br>(316,426)<br>(277,575)              | Increase in<br>the current<br>year | Decrease in the current            | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial<br>statements                       | Disposal of                 | 31<br>December<br>2022<br>(574,047)<br>(318,457)<br>(277,575)                           |
| Less: Provision for impairment Broetje-AutomationGmbH Nedschroef Ningbo Hi-Firm Environmental Protection Company Limited Wujiang Taihu Industrial Wastes Treatment Company Limited (a)  | 31<br>December<br>2021<br>(570,387)<br>(316,426)<br>(277,575)<br>(121,048) | Increase in<br>the current<br>year | Decrease in the current            | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial<br>statements                       | Disposal of                 | 31<br>December<br>2022<br>(574,047)<br>(318,457)<br>(277,575)<br>(278,538)              |
| Less: Provision for impairment Broetje-AutomationGmbH  Nedschroef Ningbo Hi-Firm Environmental Protection Company Limited Wujiang Taihu Industrial Wastes Treatment Company Limited (a)  Shenzhen Yinghe Technology Co., Ltd. (b) | 31<br>December<br>2021<br>(570,387)<br>(316,426)<br>(277,575)<br>(121,048) | Increase in<br>the current<br>year | Decrease in the current            | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial<br>statements<br>(3,660)<br>(2,031) | Disposal of<br>subsidiaries | 31<br>December<br>2022<br>(574,047)<br>(318,457)<br>(277,575)<br>(278,538)<br>(253,997) |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (26) Goodwill (Cont'd)

The goodwill is summarised by operating segments (Note 7) as follows:

|                      |                                       | 31        | December 2022 | !         |
|----------------------|---------------------------------------|-----------|---------------|-----------|
| Operating segment    | Subdivision                           | Cost      | Impairment    | Net value |
| Industrial equipment | Industrial Basic Parts                | 1,541,554 | (346,690)     | 1,194,864 |
|                      | Intelligent manufacturing equipment   | 1,028,565 | (574,047)     | 454,518   |
|                      | Large and medium-sized motors         | 10,060    | -             | 10,060    |
|                      | Others                                | 4,405     | -             | 4,405     |
| Energy equipment     | Energy Storage                        | 1,546,716 | (269,086)     | 1,277,630 |
|                      | Power Grid                            | 155,036   | (155,036)     | -         |
|                      | Power transmission and distribution   | 18,331    | (18,331)      | -         |
| Integration service  | Environmental Engineering and Service | 881,565   | (576,365)     | 305,200   |
|                      | Industrial Internet                   | 26,269    | -             | 26,269    |
|                      | Power transmission and distribution   | 7,651     | -             | 7,651     |
|                      | Wind Power                            | 7,093     | -             | 7,093     |
|                      | Property management services          | 1,033     | -             | 1,033     |
|                      |                                       | 5,228,278 | (1,939,555)   | 3,288,723 |
|                      |                                       |           |               |           |

### (26) Goodwill (Cont'd)

(a) The main assumptions applied in calculating discounted future cash flows are as follows:

| 2022                                | Industrial Basic Parts | Intelligent<br>manufacturing<br>equipment | Environmental<br>Engineering and<br>Service |
|-------------------------------------|------------------------|---|---|
| Growth rates in the forecast period | -4%~18.97%             | -8.91%~21.54%                             | 3%~544%                                     |
| Growth rates in the stable period   | 1.88%~2.0%             | 1.42%                                     | 0%  |
| Gross margin                        | 17.81%~58.0%           | 19.43%~23.35%                             | -9%~61%                                     |
| Pre-tax discount rates              | 13.9%~14.0%            | 13.5%                                     | 8.7%~10.5%                                  |
| 2021                                | Industrial Basic Parts | Intelligent<br>manufacturing<br>equipment | Environmental<br>Engineering and<br>Service |
| Growth rates in the forecast period | -1.0%~9.12%            | -8.5%~105.7%                              | 3%~340%                                     |
| Growth rates in the stable period   | 1.32%~2.0%             | 1.42%                                     | 0%  |
| Gross margin                        | 17.87%-57.0%           | 18.4%~23.4%                               | -17%~64%                                    |
| Pre-tax discount rates              | 12.3%~14.0%            | 12%                                       | 10.5%~11%                                   |

The Group determines growth rates and gross margins based on past experience and forecast on future market development. Long-term sales growth rate is the weighted average growth rates applied by the Group to extrapolate cash flows beyond the three-to-five-year forecast periods, which do not exceed the long-term average growth rates of each product in the industry report. The discount rates used by the Group are the pre-tax interest rates that are able to reflect the risks specific to the related asset groups or groups of asset groups.

- (a) Wujiang Taihu Industrial Wastes Treatment Company Limited is in the operating segment of integration service environmental engineering and service. As at 31 December 2022, the Group used the present value of estimated future cash flows as the recoverable amount, after comparing the higher of the present value of estimated future cash flows and fair value less cost of disposal. The key assumptions of the present value of estimated future cash flows include discount rates and sales growth rates. Those calculations use cash flow projections based on financial budgets approved by management covering a five-year period and expected operating period, and a pre-tax discounted rate of 9% (2021:11%). The increase of the sales growth rate is based on industry growth forecast, CIC Industrial Research Institute estimates that in the next five years (2023 to 2027), the compound annual growth rate of hazardous waste disposal scale in China is about 9.27%. Considering that the development of manufacturing industry in Jiangsu and Zhejiang regions is better than the national average level, the group uses 10% growth rate. As Wujiang Taihu Industrial Waste Treatment Co., Ltd. expects higher unit waste disposal costs in the future, an impairment provision of goodwill RMB 157,490 yuan was made in 2022.
- (b) Goodwill arising from merger of Yinghe Technology amounted to RMB1,497,236 thousand, which was in the operating segment of energy equipment. As at December 31, 2022, the net fair value minus disposal cost of the asset group of Yinghe Technology is higher than the present value by estimating future cash flow, so the company adopts the market method of net fair value minus disposal cost and determines the fair value of the asset group. When the market method is adopted, the fair value of the asset group is estimated by the stock price of the listed company after necessary adjustment. The key assumptions are the stock price of the listed company and the control premium. According to the results of the goodwill impairment test, an impairment provision of goodwill RMB 253,997 thousand was made in 2022. On December 31, 2022, the contract assets of the Group mainly consist of the undue quality guarantee and other funds, including RMB 715,628 thousands of contract assets formed from PPP projects (December 31, 2021: RMB 845,348 thousand).

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (27) Long-term prepaid expenses

|  | 31<br>December<br>2021 | Additions<br>due to<br>acquisition of<br>subsidiaries |         | Amortisation inthe current year | Other decreases | 31<br>December<br>2022 |
|--|------------------------|---|---------|---------------------------------|-----------------|------------------------|
| Renovation expenditures                        | 253,458                | _   | 9,701   | (46,043)                        | (29)            | 217,087                |
| Decoration expenditures                        | 124,688                |   | 1,669   | (3,675)                         | (672)           | 122,010                |
| Improvements to fixed assets held under leases | 52,276                 | 443   | 19,850  | (42,574)                        | (3,597)         | 26,398                 |
| Others   | 178,426                |   | 94,812  | (26,080)                        | (57,169)        | 189,989                |
|  | 608,848                | 443   | 126,032 | (118,372)                       | (61,467)        | 555,484                |

### (28) Deferred tax assets and deferred tax liabilities

### (a) Deferred tax assets before offsetting

|  | 31 Decembe   | er 2022                | 31 December 2021   |                        |  |  |
|--|--|------------------------|--|------------------------|--|--|
|  | Deductible<br>temporary<br>differences<br>and deductible<br>losses | Deferred tax<br>assets | Deductible<br>temporary<br>differences<br>and deductible<br>losses | Deferred tax<br>assets |  |  |
| Asset impairment and provisions                  | 21,434,788   | 4,599,053              | 25,656,772   | 4,860,774              |  |  |
| Accrued expenses                                 | 13,900,922   | 2,495,039              | 14,318,929   | 2,605,742              |  |  |
| Deductible losses                                | 4,033,493  | 1,008,373              | 4,894,141  | 1,206,918              |  |  |
| Offsetting of profits from internal transactions | 273,214  | 68,304                 | 421,806  | 102,254                |  |  |
| Others   | 476,899  | 86,743                 | 693,208  | 173,302                |  |  |
|  | 40,119,316   | 8,257,512              | 45,984,856   | 8,948,990              |  |  |
| Including:                                       |  |                        |  |                        |  |  |
| Expected to be recovered within one year (incl   | usive)   | 4,631,572              |  | 4,719,083              |  |  |
| Expected to be recovered after one year          | _  | 3,625,940              | _  | 4,229,907              |  |  |
|  |  | 8,257,512              |  | 8,948,990              |  |  |

## (28) Deferred tax assets and deferred tax liabilities(Cont'd)

(b) Deferred tax liabilities before offsetting

|   | 31 Decembe                          | er 2022                     | 31 December 2021                    |                             |  |
|---|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|--|
|   | Taxable<br>temporary<br>differences | Deferred<br>tax liabilities | Taxable<br>temporary<br>differences | Deferred<br>tax liabilities |  |
| Changes in fair value of financial instruments      | 3,054,388                           | 763,597                     | 3,286,452                           | 821,612                     |  |
| Assets assessment increment                         | 608,632                             | 152,158                     | 698,646                             | 169,438                     |  |
| Fair value adjustment for business combinations     | 1,005,144                           | 251,286                     | 1,713,415                           | 416,357                     |  |
| Others  | 777,737                             | 193,640                     | 959,624                             | 238,926                     |  |
|   | 5,445,901                           | 1,360,681                   | 6,658,137                           | 1,646,333                   |  |
| Including:  |                                     |                             |                                     |                             |  |
| Expected to be recovered within one year (inclusing | ve)                                 | 957,237                     |                                     | 1,060,538                   |  |
| Expected to be recovered after one year             |                                     | 403,444                     |                                     | 585,795                     |  |
|   |                                     | 1,360,681                   | _                                   | 1,646,333                   |  |

(c) Deductible temporary differences and deductible losses that are not recognised as deferred tax assets are analysed as follows:

|                                  | 31 December 2022 | 31 December 2021 |
|----------------------------------|------------------|------------------|
| Deductible temporary differences | 16,526,438       | 15,670,535       |
| Deductible losses                | 9,036,423        | 4,415,239        |
|                                  | 25,562,861       | 20,085,774       |

(d) Deductible losses that are not recognised as deferred tax assets will be expired in following years:

|                | 31 December 2022 | 31 December 2021 |
|----------------|------------------|------------------|
| 2022           | -                | 169,502          |
| 2023           | 127,577          | 194,344          |
| 2024           | 274,471          | 373,037          |
| 2025           | 431,930          | 464,677          |
| 2026           | 1,310,472        | 1,499,246        |
| 2027 and after | 6,891,973        | 1,714,433        |
|                | 9,036,423        | 4,415,239        |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

#### (28) Deferred tax assets and deferred tax liabilities (Cont'd)

(e) Taxable temporary differences without recognising deferred tax liabilities

The Group expects that the amount of deferred income tax liabilities related to the distribution of dividends by its subsidiaries, joint ventures, and overseas associates or disposal of long-term equity investments is not significant.

(f) The net balances of deferred tax assets and deferred tax liabilities after offsetting are as follows:

|                          | 31 Decemb            | per 2022                 | 31 December 2021  |                          |  |
|--------------------------|----------------------|--------------------------|-------------------|--------------------------|--|
|                          | Offsetting<br>amount | Balance after offsetting | Offsetting amount | Balance after offsetting |  |
| Deferred tax assets      | 524,360              | 7,733,152                | 870,685           | 8,078,305                |  |
| Deferred tax liabilities | 524,360              | 836,321                  | 870,685           | 775,648                  |  |

### (29) Other non-current assets

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Contract assets (Note 4(12))                                   | 13,626,483       | 12,070,694       |
| Others   | 327,464          | 1,686,519        |
|  | 13,953,947       | 13,757,213       |
| Less: Provision for impairment of contract assets (Note 4(12)) | (580,247)        | (395,339)        |
|  | 13,373,700       | 13,361,874       |

As at 31 December 2022, the contract assets of the Group mainly consist of the undue quality guarantee and other funds, including RMB 715,628 thousands of contract assets formed from PPP projects (December 31, 2021: RMB 845,348 thousand).

In 2022, the Group's revenue from main operations comprised revenue from PPP project contracts of RMB937,270 thousand (2021: RMB766,7865 thousand), including revenue from project construction services of RMB612,673 thousand (2021: RMB692,870 thousand). The Group's PPP project contracts primarily refer to water and waste treatment contracts. The Group provides PPP project asset construction, operation and maintenance thereafter, and other services as agreed in the PPP project contracts, with a total term of 20 to 30 years. The project assets of water treatment contract are mainly located in Jiangsu Province and Anhui Province, while those of waste treatment contract are mainly in Liaoning Province and Hebei Province. In 2022, there were no significant changes in the PPP project contracts.

# (30) Provision for asset impairment and losses

|  |                        | Increase<br>in the<br>current<br>year |             | Decre     | ase in th   | e curren                       | t year             |   |                        |
|--|------------------------|---------------------------------------|-------------|-----------|-------------|--------------------------------|--------------------|---|------------------------|
| Provision for credit impairment<br>losses                                    | 31<br>December<br>2021 | Provision                             | Reversal    | Write-off |             | Derecognition<br>and transfer- | Other<br>transfer- | Differences<br>on<br>translation<br>of foreign<br>currency<br>financial<br>statements | 31<br>December<br>2022 |
| Provision for bad debts of notes receivable                                  | 1,090,105              | 119,417                               | (38,613)    | -         | (58,962)    | -                              | -                  | -   | 1,111,947              |
| Including: Provision for bad debts on the individual basis                   | 990,110                | 97,561                                | (21,965)    | -         | -           | -                              | -                  | -   | 1,065,706              |
| Provision for bad debts on the grouping basis                                | 99,995                 | 21,856                                | (16,648)    | -         | (58,962)    | -                              | -                  | -   | 46,241                 |
| Provision for bad debts of accounts receivable measured at amortised cost    | 17,560,454             | 2,287,534                             | (1,289,985) | (50,467)  | (1,311,561) | -                              | -                  | -   | 17,195,975             |
| Including: Provision for bad debts on the individual basis                   | 11,842,709             | 1,277,441                             | (325,592)   | (8,126)   | (546,758)   | -                              | -                  | -   | 12,239,674             |
| Provision for bad debts on the grouping basis                                | 5,717,745              | 1,010,093                             | (964,393)   | (42,341)  | (764,803)   | -                              | -                  | -   | 4,956,301              |
| Provision for credit impairment of receivables financing                     | 13,391                 | 6,293                                 | -           | -         | -           | (17,736)                       | -                  | -   | 1,948                  |
| Provision for impairment of other debt investments                           | 8,801                  | 12,782                                | -           | (8,801)   | -           | -                              | -                  | -   | 12,782                 |
| Provision for bad debts of other receivables                                 | 471,129                | 635,230                               | (9,274)     | (3,877)   | (89,627)    | -                              | -                  | -   | 1,003,581              |
| Provisions - expected credit impairment of guarantees/commitments            | 316,563                | 23,937                                | (65,474)    | (179,481) | 130,000     | -                              | -                  | -   | 225,545                |
| Provision for bad debts of loans   | 424,189                | 163,307                               | (239,997)   | -         | 137,694     | -                              | -                  | -   | 485,193                |
| Provision for impairment of discounted notes                                 | 4,364                  | 48,692                                | -           | -         | -           | -                              | -                  | -   | 53,056                 |
| Provision for bad debts of long-term receivables (including current portion) | 1,640,630              | 439,616                               | -           | (98,722)  | -           | -                              | -                  | -   | 1,981,524              |
| Others   | 2,259                  |                                       |             |           |             |                                |                    |   | 2,259                  |
| Sub-total  | 21,531,885             | 3,736,808                             | (1,643,343) | (341,348) | (1,192,456) | (17,736)                       |                    |   | 22,073,810             |
|  |                        |                                       |             |           |             |                                |                    |   |                        |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

(30) Provision for asset impairment and losses (Cont'd)

| Provision     | Reversal   | Write-off<br>/Disposal   | Decrease<br>due to<br>disposal of  | Derecognition<br>and transfer-<br>out of   | Other  | Differences<br>on<br>translation<br>of foreign<br>currency   | 31   |
|---------------|--|--|--|--|--|--|--|
| 1 1 4 6 1 0 7 |  | , Disposai   | subsidiaries   | receivables  | transfer-<br>out   | financial  | December<br>2022   |
| 1,146,10/     | (214,577)  | (767,825)  | (53,363)   | -  | -  | 3,710  | 4,304,836  |
| -             | -  | -  | -  | -  | -  | -  | 273  |
| 449,061       | (201,978)  | -  | (420,618)  | -  | -  | 33   | 1,464,194  |
| 395,332       | -  | (6,634)  | (1,685)  | -  | -  | -  | 596,054  |
| 124,233       | -  | -  | -  | -  | -  | -  | 127,319  |
| -             | -  | -  | -  | -  | -  | -  | 112,547  |
| 35,252        | -  | -  | -  | -  | -  | -  | 42,260   |
| 411,487       | -  | -  | (20,000)   | -  | -  | 5,691  | 1,939,555  |
| -             |  | (4,942)  |  |  |  |  | 11,842   |
| 2,561,472     | (416,555)  | (779,401)  | (495,666)  | -  | -  | 9,434  | 8,598,880  |
| 6,298,280     | (2,059,898)  | (1,120,749)  | (1,688,122)  | (17,736)   |  | 9,434  | 30,672,690   |
|               | 395,332<br>124,233<br>-<br>35,252<br>411,487<br>-<br>2,561,472 | 1,146,107 (214,577) 449,061 (201,978) 395,332 - 124,233 35,252 - 411,487 2,561,472 (416,555) | 1,146,107     (214,577)     (767,825)       449,061     (201,978)     -       395,332     -     (6,634)       124,233     -     -       -     -     -       35,252     -     -       411,487     -     -       -     -     (4,942)       2,561,472     (416,555)     (779,401) | 1,146,107 (214,577) (767,825) (53,363) (420,618)  395,332 - (6,634) (1,685)  124,233 35,252  411,487 (20,000) - (4,942) -  2,561,472 (416,555) (779,401) (495,666) | 1,146,107       (214,577)       (767,825)       (53,363)       -         449,061       (201,978)       -       (420,618)       -         395,332       -       (6,634)       (1,685)       -         124,233       -       -       -       -         -       -       -       -       -         35,252       -       -       -       -         411,487       -       -       (20,000)       -         -       -       (4,942)       -       -         2,561,472       (416,555)       (779,401)       (495,666)       - | 1,146,107       (214,577)       (767,825)       (53,363)       -       -         449,061       (201,978)       -       (420,618)       -       -         395,332       -       (6,634)       (1,685)       -       -         124,233       -       -       -       -       -         -       -       -       -       -       -         35,252       -       -       -       -       -         411,487       -       -       (20,000)       -       -         -       -       (4,942)       -       -       -         2,561,472       (416,555)       (779,401)       (495,666)       -       - | 1,146,107       (214,577)       (767,825)       (53,363)       -       -       3,710         449,061       (201,978)       -       (420,618)       -       -       33         395,332       -       (6,634)       (1,685)       -       -       -         124,233       -       -       -       -       -       -         -       -       -       -       -       -       -         35,252       -       -       -       -       -       -       5,691         -       -       (4,942)       -       -       -       9,434         2,561,472       (416,555)       (779,401)       (495,666)       -       -       9,434 |

### (31) Short-term borrowings

|                           | 31 December 2022 | 31 December 2021 |
|---------------------------|------------------|------------------|
| Credit borrowings         | 8,057,412        | 9,092,899        |
| Mortgage borrowings (a)   | 159,400          | 366,406          |
| Pledge borrowings (b)     | 170,455          | 22,174           |
| Guaranteed borrowings (c) | 52,000           | 1,209,510        |
| Discount borrowings (d)   | 221,628          | 234,050          |
| Factoring borrowings (e)  | -                | 911,327          |
|                           | 8,660,895        | 11,836,366       |

- (a) As at 31 December 2022, the Group pledged intangible assets with a carrying amount of RMB11,368 thousand (31 December 2021: RMB85,954 thousand), fixed assets with a carrying amount of RMB126,141 thousand (31 December 2021: RMB125,451 thousand) and investment properties with a carrying amount of RMB0 thousand (31 December 2021: RMB6,774 thousand) to obtain short-term borrowings of RMB159,400 thousand (31 December 2021: RMB366,406 thousand).
- (b) As at 31 December 2022, the Group pledged long-term receivables with a carrying amount of RMB485,344 thousand (31 December 2021: RMB50,472 thousand) and future collection rights with a carrying amount of RMB228,650 thousand (31 December 2021: Nil) to obtain short-term bank borrowings of RMB170,455 thousand (31 December 2021: RMB22,174 thousand).
- (c) As at 31 December 2022, the Company and its subsidiaries provided guarantees of RMB52,000 thousand for short-term borrowings of certain subsidiaries (31 December 2021: RMB1,209,510 thousand).
- (d) As at 31 December 2022, the Group discounted trade acceptance notes of RMB73,820 thousand and bank acceptance notes of RMB147,808 thousand to obtain short-term bank borrowings (As at 31 December 2021, the Group discounted trade acceptance notes of RMB110,988 thousand and bank acceptance notes of RMB123,062 thousand to obtain short-term bank borrowings).
- (e) As at 31 December 2022, the Group did not enter into accounts receivable factoring contracts with recourse to obtain bank borrowings (31 December 2021: RMB911,327 thousand).
  - As at 31 December 2022, the annual interest rate for short-term borrowings was 0.79% to 5.64% (31 December 2021: the annual interest rate was 0.40% to 6.00%).

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (32) Financial liabilities held for trading

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Financial liabilities held for trading | 32,017           | 28,569           |

As at 31 December 2022, financial liabilities held for trading comprised the fair value of the equities held by investors other than the Group in the structured entities included in the consolidation scope.

### (33) Notes payable

|                        | 31 December 2022 | 31 December 2021 |
|------------------------|------------------|------------------|
| Trade acceptance notes | 4,156,252        | 5,049,486        |
| Bank acceptance notes  | 11,913,306       | 11,529,368       |
|                        | 16,069,558       | 16,578,854       |

### (34) Accounts payable

|                  | 31 December 2022 | 31 December 2021 |
|------------------|------------------|------------------|
| Accounts payable | 57,396,886       | 61,303,577       |

(i) As at 31 December 2022, accounts payable with ageing over one year amounted to RMB10,095,104 thousand (31 December 2021: RMB17,973,039 thousand), which mainly comprised payables for construction projects and payables for materials. Such accounts are unsettled for the projects are still under construction.

The ageing of accounts payable based on their recording dates is analysed as follows:

|                      | 31 December 2022 | 31 December 2021 |
|----------------------|------------------|------------------|
| Within 3 months      | 36,583,071       | 33,066,158       |
| 3 months to 6 months | 3,633,310        | 4,603,012        |
| 6 months to 1 year   | 7,085,401        | 5,661,368        |
| 1 to 2 years         | 4,348,380        | 9,226,113        |
| 2 to 3 years         | 1,804,195        | 4,263,316        |
| Over 3 years         | 3,942,529        | 4,483,610        |
|                      | 57,396,886       | 61,303,577       |

### (35) Advances from customers

|                           | 31 December 2022 | 31 December 2021 |
|---------------------------|------------------|------------------|
| Share advances and others | 786,313          | 738,047          |

As at 31 December 2022, there were no advances from customers with ageing over one year, except for share advances of RMB353,369 thousand (31 December 2021: RMB332,839 thousand). Such share advances were not recognised as they had not been settled.

### (36) Contract liabilities

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
| Advances from goods and services  | 38,886,075       | 39,411,001       |
| Less: Non-current portion of contract liabilities included in other non-current liabilities | (143,278)        | (250,601)        |
|   | 38,742,797       | 39,160,400       |

RMB36,418,137 thousand of the balance of contract liabilities as at 31 December 2021 was transferred to revenue in 2022. The balance of contract liabilities as at 31 December 2022 is expected to be transferred to revenue in 2023.

### (37) Deposits from customers, banks and other financial institutions

|                  | 31 December 2022 | 31 December 2021 |
|------------------|------------------|------------------|
| Current deposits | 4,894,065        | 3,322,922        |
| Time deposits    | 1,182,500        | 1,875,800        |
|                  | 6,076,565        | 5,198,722        |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (38) Employee benefits payable

|                                      |     | 31 December 2022 | 31 December 2021 |
|--------------------------------------|-----|------------------|------------------|
| Short-term employee benefits payable | (a) | 4,728,402        | 4,198,399        |
| Defined contribution plans payable   | (b) | 88,157           | 84,891           |
| Termination benefits payable         | (c) | 141,471          | 75,267           |
|                                      | -   | 4,958,030        | 4,358,557        |

### (a) Short-term employee benefits

|  | 31<br>December<br>2021 | Additions<br>due to<br>acquisition of<br>subsidiaries | Increase in the<br>current year | Decrease in the<br>current year | 31 December<br>2022 |
|--|------------------------|---|---------------------------------|---------------------------------|---------------------|
| Wages or salaries, bonus, allowances and subsidies | 2,971,124              | 63  | 9,776,868                       | (9,247,531)                     | 3,500,524           |
| Staff welfare                                      | 107,668                | -   | 271,475                         | (372,962)                       | 6,181               |
| Staff and workers' bonus and welfare fund          | 1,008,516              | -   | 89,239                          | (3,336)                         | 1,094,419           |
| Social security contributions                      | 21,840                 | 14  | 579,281                         | (559,245)                       | 41,890              |
| Including: Medical insurance                       | 18,907                 | 14  | 532,501                         | (511,413)                       | 40,009              |
| Work injury insurance                              | 2,305                  | -   | 26,738                          | (28,015)                        | 1,028               |
| Maternity insurance                                | 628                    | -   | 20,042                          | (19,817)                        | 853                 |
| Housing funds                                      | 32,378                 | 7   | 467,229                         | (467,203)                       | 32,411              |
| Labour union funds and employee education funds    | 56,873                 | 5   | 139,727                         | (143,628)                       | 52,977              |
|  | 4,198,399              | 89  | 11,323,819                      | (10,793,905)                    | 4,728,402           |

### (38) Employee benefits payable (Cont'd)

#### (b) Defined contribution plans

|                               | 31<br>December<br>2021 | Additions<br>due to<br>acquisition of<br>subsidiaries | Increase in the current year | Decrease in the<br>current year | 31 December<br>2022 |
|-------------------------------|------------------------|---|------------------------------|---------------------------------|---------------------|
| Basic pensions                | 39,882                 | 178   | 946,438                      | (941,577)                       | 44,921              |
| Unemployment insurance        | 3,637                  | 18  | 32,038                       | (33,402)                        | 2,291               |
| Supplementary pensions (Note) | 41,372                 | -   | 332,383                      | (332,810)                       | 40,945              |
|                               | 84,891                 | 196   | 1,310,859                    | (1,307,789)                     | 88,157              |

Note: Monthly payments of premiums on the pension plans (including the basic pensions in Mainland of China and Mandatory Provident Fund ("MPF") in Hong Kong) are made to relevant authorities and calculated according to the bases and percentages prescribed by the local authorities of Ministry of Human Resource and Social Security. Besides, the payments cannot be used to offset the amounts to be paid for employees by the Group in the future.

The Group also provides certain defined contribution plans (including the enterprise annuity plan in Mainland of China (the "Plan") and the provident fund plan in Hong Kong) to some employees in Mainland of China and outside Mainland of China. The Group pays fixed contributions into a separate fund and will have no obligation to pay further contributions. In 2022, under the Plan in Mainland of China, the total returned contributions (the amount contributed by the Group for employees who left such Plan prior to vesting fully in such Plan) to the corporate account of the Plan amounted to RMB4,919 thousand (2021: RMB3,427 thousand). Such returned contributions had no impact on and were not utilised by the Group to reduce the level of contributions for existing employees participating in the Plan. In 2022, the Group had no contributions not collected under the defined contribution plans excluding the Plan in Mainland of China. Except for the above plans, the Group had no other defined contribution plans.

#### (c) Termination benefits payable

|                      | 31 December 2022 | 31 December 2021 |
|----------------------|------------------|------------------|
| Termination benefits | 141,471          | 75,267           |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (39) Taxes payable

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
| Enterprise income tax payable                 | 981,906          | 958,694          |
| VAT payable                                   | 850,872          | 1,012,930        |
| Individual income tax payable                 | 46,618           | 48,596           |
| City maintenance and construction tax payable | 38,437           | 35,510           |
| Real estate tax payable                       | 27,039           | 28,503           |
| Land use tax payable                          | 10,080           | 9,717            |
| Others  | 75,535           | 86,252           |
|   | 2,030,487        | 2,180,202        |

### (40) Other payables

| 31 December 2022 | 31 December 2021   |
|------------------|--|
| 984,375          | 342,113  |
| 956,132          | 904,194  |
| 638,757          | 647,412  |
| 510,000          | 748,665  |
| 390,765          | 233,701  |
| 317,084          | 411,546  |
| 240,194          | 291,007  |
| 157,811          | 244,719  |
| 114,928          | 858,207  |
| 82,788           | 41,101   |
| -                | 382,271  |
| 3,466,639        | 3,497,621  |
| 7,859,473        | 8,602,557  |
|                  | 984,375 956,132 638,757 510,000 390,765 317,084 240,194 157,811 114,928 82,788 |

As at 31 December 2022, there were no dividends payable with ageing over one year (31 December 2021: Nil).

# (41) Current portion of non-current liabilities

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Current portion of long-term borrowings (Note 4(43)) | 5,482,574        | 6,514,065        |
| Current portion of long-term payables (Note 4(46))   | 764,983          | 1,284,484        |
| Current portion of bonds payable (Note 4(44))        | 2,516,608        | -                |
| Current portion of lease liabilities (Note 4(45))    | 356,196          | 475,791          |
|  | 9,120,361        | 8,274,340        |

### (42) Other current liabilities

|                      | 31 December 2022 | 31 December 2021 |
|----------------------|------------------|------------------|
| Accrued expenses (a) | 6,280,898        | 6,132,925        |
| Provisions (b)       | 5,500,713        | 4,441,032        |
|                      | 11,781,611       | 10,573,957       |

### (a) Accrued expenses

|                                       | 31 December 2022 | 31 December 2021 |
|---------------------------------------|------------------|------------------|
| Provision for the cost of spare parts | 5,377,676        | 4,955,199        |
| Others                                | 903,222          | 1,177,726        |
|                                       | 6,280,898        | 6,132,925        |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (42) Other current liabilities (Cont'd)

(b) Provisions

| 31<br>December<br>2021 | Increase in<br>the current<br>year                                       | Reversal in<br>the current<br>year  | Decrease in<br>the current<br>year  | Changes in disposal of subsidiaries  | 31<br>December<br>2022  |
|------------------------|--|---|---|--|---|
| 2,582,889              | 2,144,328  | (360,809)   | (757,087)   | (31,597)   | 3,577,724   |
| 4,335,131              | 1,047,524  | (43,664)  | (435,310)   | -  | 4,903,681   |
| 316,563                | 23,937   | (65,474)  | (179,481)   | 130,000  | 225,545   |
| 119,379                | 316,651  | (24,000)  | (3,405)   | (21,886)   | 386,739   |
| 7,353,962              | 3,532,440  | (493,947)   | (1,375,283)   | 76,517   | 9,093,689   |
| (2,912,930)            |  |   |   |  | (3,592,976)   |
| 4,441,032              |  |   |   | _  | 5,500,713   |
|                        | 2,582,889<br>4,335,131<br>316,563<br>119,379<br>7,353,962<br>(2,912,930) | December 2021         the current year           2,582,889         2,144,328           4,335,131         1,047,524           316,563         23,937           119,379         316,651           7,353,962         3,532,440           (2,912,930) | December 2021         the current year         the current year           2,582,889         2,144,328         (360,809)           4,335,131         1,047,524         (43,664)           316,563         23,937         (65,474)           119,379         316,651         (24,000)           7,353,962         3,532,440         (493,947)           (2,912,930)         (493,947) | December 2021         the current year         the current year         the current year           2,582,889         2,144,328         (360,809)         (757,087)           4,335,131         1,047,524         (43,664)         (435,310)           316,563         23,937         (65,474)         (179,481)           119,379         316,651         (24,000)         (3,405)           7,353,962         3,532,440         (493,947)         (1,375,283)           (2,912,930)         (2,912,930)         (2,912,930) | December 2021         the current year         the current year         the current year         the current year         disposal of subsidiaries           2,582,889         2,144,328         (360,809)         (757,087)         (31,597)           4,335,131         1,047,524         (43,664)         (435,310)         -           316,563         23,937         (65,474)         (179,481)         130,000           119,379         316,651         (24,000)         (3,405)         (21,886)           7,353,962         3,532,440         (493,947)         (1,375,283)         76,517           (2,912,930) |

Note: Factors such as commodity prices and industry competition can have a significant impact on the gross profit of related contracts. As at 31 December 2022, the Group assessed on whether unavoidable estimated total costs of meeting contractual obligations had exceeded the economic benefits expected to be received, and made provision for these onerous contracts based on the estimated least net cost of exiting from the contracts.

### (43) Long-term borrowings

|  | 24 D 2022        | 24 D 2024        |
|--|------------------|------------------|
|  | 31 December 2022 | 31 December 2021 |
| Credit borrowings  | 16,905,114       | 14,380,371       |
| Mortgage borrowings (a)                                    | 2,389,097        | 1,706,910        |
| Pledge borrowings (b)                                      | 4,758,850        | 4,300,515        |
| Guaranteed borrowings (c)                                  | 3,077,203        | 9,937,598        |
| Factoring borrowings (d)                                   | -                | 34,088           |
|  | 27,130,264       | 30,359,482       |
| Less: Current portion of long-term borrowings (Note 4(41)) |                  |                  |
| Credit borrowings  | (3,400,662)      | (843,956)        |
| Mortgage borrowings  | (346,558)        | (256,019)        |
| Pledged borrowings   | (253,324)        | (180,452)        |
| Factoring borrowings                                       | -                | (34,088)         |
| Secured borrowings   | (1,482,030)      | (5,199,550)      |
| Sub-total  | (5,482,574)      | (6,514,065)      |
| _  | 21,647,690       | 23,845,417       |

- (a) As at 31 December 2022, RMB 343,146 thousand of the Group's bank mortgage loans (31 December 2021: Nil) were fixed asset syndicated loans borrowed by subsidiaries of the Group. Due to the uncompleted construction of the project, relevant procedures for mortgage/pledge guarantees have not been completed.
  - As at 31 December 2022, the Group pledged fixed assets with a carrying amount of RMB511,361 thousand (31 December 2021: RMB389,685 thousand) and intangible assets with a carrying amount of RMB1,325,872 thousand (31 December 2021: RMB1,010,138 thousand) to obtain long-term borrowings of RMB2,053,429 thousand.
- (b) As at 31 December 2022, the Group pledged long-term receivables with a book value of RMB 1,316,094 thousand (December 31 2021: RMB 2,170,377 thousand) to obtain long-term borrowings of RMB 1,854,400 thousand.
  - As at 31 December 2022, the Group pledged the future collection rights of several PPP projects and power generation projects to the bank to obtain long-term borrowings of RMB3,565,850 thousand (31 December 2021: RMB2,274,927 thousand).
- (c) As at 31 December 2022, the Company and its subsidiaries provided guarantees of RMB3,077,203 thousand for long-term borrowings of certain subsidiaries (31 December 2021: RMB9,937,598 thousand).
- (d) As at 31 December 2022, the Group did not enter into accounts receivable factoring contracts with recourse to obtain bank borrowings (31 December 2021: RMB34,088 thousand).
  - As at 31 December 2022, the interest rate range of long-term borrowings was 0.30% to 5.850% (31 December 2021: 0.55% to 5.635%).

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (44) Bonds payable

|   | 31 December<br>2021 | Increase in the current year | Exchange<br>differences | Interest<br>accrued at par<br>value | Amortisation of premium or discount | . , | Share transfer<br>in the current<br>year | 31 December<br>2021 |
|---|---------------------|------------------------------|-------------------------|-------------------------------------|-------------------------------------|-----|--|---------------------|
| 18 Electric MTN001 (a)                              | 2,490,445           | -                            | -                       | 4,548                               | 5,541                               | -   | =  | 2,500,534           |
| 22 Hufeng MTN001(b)                                 | -                   | 750,000                      | -                       | 16,074                              | (1,303)                             | -   | -  | 764,771             |
|   | 2,490,445           |                              |                         |                                     |                                     |     | -  | 3,265,305           |
| Less: Current portion of bonds payable (Note 4(41)) | -                   |                              |                         |                                     |                                     |     |  | (2,516,608)         |
|   | 2,490,445           |                              |                         |                                     |                                     |     | _  | 748,697             |

- (a) The Group issued the first phase of 2018 medium-term notes of Shanghai Electric Group Co., Ltd. on 13 December 2018, with a maturity of 5 years. The value date is 17 December 2018, and the redemption date is 17 December 2023. The proposed total issuance is RMB2.5 billion, and the actual total issuance is RMB2.5 billion; the issuance interest rate is 4.15% (the Shanghai Interbank Offered Rate for the three months on 14 December 2018 rose by 1%), and the issuance is based on the face value.
- (b) The Group's subsidiary, Shanghai Electric Wind Power Group Co., Ltd. issued the first phase of 2022 green medium-term notes of Shanghai Electric Wind Power Group Co., Ltd. on 29 April 2022, with a maturity of 3 years. The value date is 29 April 2022, and the redemption date is 29 April 2025. The proposed total issuance is RMB7.5 billion, and the actual total issuance is RMB7.5 billion; the issuance interest rate is 3.18% and the issuance is based on the face value.

#### (45) Lease liabilities

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
| Lease liabilities   | 1,433,621        | 1,503,787        |
| Less: Current portion of non-current liabilities (Note 4(41)) | (356,196)        | (475,791)        |
|   | 1,077,425        | 1,027,996        |

As at 31 December 2022, the Group had no lease payable related to lease contracts signed but not yet performed (31 December 2021: Nil).

# (46) Long-term payables

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Related party loans (Note 8(6))                          | 533,778          | 1,061,674        |
| Guarantees for finance leases                            | 543,441          | 553,452          |
| Scientific research projects subsidies                   | 6,820            | 8,751            |
| Others   | 243,799          | 243,622          |
|  | 1,327,838        | 1,867,499        |
| Less: Current portion of long-term payables (Note 4(41)) | (764,983)        | (1,284,484)      |
|  | 562,855          | 583,015          |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (47) Deferred income

|                 | 31 December 2022 | 31 December 2021 |
|-----------------|------------------|------------------|
| Deferred income | 1,491,212        | 1,651,556        |

As at 31 December 2022, liability items related to government grants were as follows:

| Government grants   | 31<br>December<br>2021 | Increase in<br>the current<br>year | Decrease<br>in the<br>current<br>year | 31<br>December<br>2022 | Assets<br>related/<br>Income<br>related |
|---|------------------------|------------------------------------|---------------------------------------|------------------------|---|
| Gotion Energy Storage System Base   | 255.480                | 880                                | (15,480)                              | 240,880                | Assets related                          |
| Goss China's new plant  | 121,475                | -                                  | (8,998)                               | 112,477                | Assets related                          |
| Test tower construction project   | 98,587                 | -                                  | (4,950)                               | 93,637                 | Assets related                          |
| Purchase subsidiary for R&D assets of turbine blade                               | 53,228                 | -                                  | (4,008)                               | 49,220                 | Assets related                          |
| Key technologies R&D for deep peak-shaving ultra supercritical coal-fired boilers | 53,200                 | -                                  | (53,200)                              | -                      | Income related                          |
| Support funds for Nantong Guohai comprehensive development                        | 50,627                 | -                                  | (1,439)                               | 49,188                 | Assets related                          |
| Special funds for supporting strategic emerging industry                          | 45,686                 | 3,984                              | (4,378)                               | 45,292                 | Assets related                          |
| Yinghe lithium-ion power battery project  | 34,161                 | -                                  | (5,189)                               | 28,972                 | Assets related                          |
| Technological transformation II   | 33,734                 | -                                  | (1,534)                               | 32,200                 | Assets related                          |
| Tax refund  | -                      | 195,970                            | (195,970)                             | -                      | Income related                          |
| Other government grants related to assets   | 539,499                | 59,232                             | (100,794)                             | 497,937                | Assets related                          |
| Other government grants related to income   | 365,879                | 657,581                            | (682,051)                             | 341,409                | Income related                          |
| Total   | 1,651,556              | 917,647                            | (1,077,991)                           | 1,491,212              |   |

### (48) Long-term employee benefits payable

|                          | 31 December 2022 | 31 December 2021 |
|--------------------------|------------------|------------------|
| Termination benefits (a) | 82,080           | 92,650           |
| Defined benefit plan (b) | 93,774           | 132,023          |
|                          | 175,854          | 224,673          |

#### (a) Termination benefits

Some employees of the Group have already opted for early retirement. As at the balance sheet date, the main actuarial assumptions adopted by the Group to pay early retirement benefits are:

|                    | 31 December 2022 | 31 December 2021 |
|--------------------|------------------|------------------|
| Discount rate      | 2.07%~3.32%      | 2.12%~3.45%      |
| Salary growth rate | 10.36%           | 10.36%           |

The early retirement benefits included in profit or loss for the current period are:

|                                     | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|-------------------------------------|--|--|
| General and administrative expenses | (585)                                  | 2,390                                  |
| Financial expenses                  | 1,386                                  | 4,157                                  |

### (b) Defined benefit plan

The defined benefit plan requires employee contributions. Contributions are made in two ways, namely, contributions to the plan based on the number of years of service and a fixed percentage of the employee's salary. Employees can also contribute to the plan at their discretion.

This plan exposes the Group to actuarial risks, such as investment risk, interest rate risk, longevity risk and salary risk.

#### Investment risk

The present value of defined benefit plan liabilities is calculated at a discount rate determined with reference to the yield of high-quality corporate bonds. If the return on the plan assets is lower than the discount rate, the plan will incur a deficit. Due to the long-term nature of plan liabilities, the Pension Fund Committee believes that it is appropriate to invest a reasonable portion of plan assets in funds invested by insurance companies to take advantage of the returns generated by the funds.

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (48) Long-term employee benefits payable (Cont'd)

(b) Defined benefit plan (Cont'd)

Interest rate risk

The reduction in bond interest rates will lead to an increase in plan liabilities; however, this will be partially offset by an increase in the return on the planned debt investment.

Longevity risk

The present value of defined benefit plan liabilities is calculated by referring to the best estimate of the mortality rate of plan members during and after the employment period. An increase in the life expectancy of plan members will result in an increase in plan liabilities.

Salary risk

The present value of defined benefit plan liabilities is calculated by referring to the future salary of plan members. As a result, an increase in the salary of plan members will lead to an increase in plan liabilities.

The composition of the defined benefit plan is as follows:

|                         | 31 December 2022 | 31 December 2021 |
|-------------------------|------------------|------------------|
| Non-current liabilities | 93,774           | 132,023          |
| Current liabilities     | 5,468            | 5,913            |
|                         | 99,242           | 137,936          |

The main actuarial assumptions adopted at the end of the reporting period are as follows:

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
| Discount rate                                     | 4.21%            | 1.31%            |
| Expected future increase in retirement cost ratio | 2.35%            | 1.75%            |
| Expected increase in salary ratio                 | 2.60%            | 2.25%            |

## (48) Long-term employee benefits payable (Cont'd)

## (b) Defined benefit plan (Cont'd)

The amount of the above defined benefit plan recognised in the statement of profit or loss and other comprehensive income is as follows:

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |  |
|---|--|--|--|
| Service cost:   |  |  |  |
| Current service cost  | (3,435)                                | 3,387                                  |  |
| Net interest expense  | 1,625                                  | 1,707                                  |  |
| Expected return on plan assets  | (228)                                  | (73)                                   |  |
| Defined benefit cost composition recognised in profit or loss               | (2,038)                                | 5,021                                  |  |
| Remeasured net defined benefit liabilities:                                 |  |  |  |
| Obligation actuarial loss   | (33,866)                               | (3,220)                                |  |
| Actuarial loss of plan assets   | (53)                                   | (191)                                  |  |
| Defined benefit cost composition recognised in other comprehensive expenses | (33,919)                               | (3,411)                                |  |
| Total   | (35,957)                               | 1,610                                  |  |

Changes in the present value of defined benefit obligations are as follows:

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Defined benefit obligation at the beginning of the year | 144,540                                | 177,734                                |
| Current service cost                                    | (3,435)                                | 3,387                                  |
| Interest expenses                                       | 1,625                                  | 1,707                                  |
| Obligation actuarial loss/(gain)                        | (33,866)                               | (3,220)                                |
| Benefits paid   | (4,490)                                | (12,211)                               |
| Exchange differences for overseas plans                 | 1,738                                  | (22,857)                               |
| Defined benefit obligation at the end of the year       | 106,112                                | 144,540                                |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (48) Long-term employee benefits payable (Cont'd)

(b) Defined benefit plan (Cont'd)

Changes in the fair value of plan assets are as follows:

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Fair value of plan assets at the beginning of the year | 6,604                                  | 11,560                                 |
| Expected return  | 228                                    | 73                                     |
| Actuarial gain/(loss) of plan assets                   | 53                                     | 191                                    |
| Benefits paid  | (204)                                  | (3,988)                                |
| Exchange differences for overseas plans                | 189                                    | (1,232)                                |
| Fair value of plan assets at the end of the year       | 6,870                                  | 6,604                                  |

The fair value of plan assets classified by category at the end of the reporting period is as follows:

|                                    | 31 December 2022 | 31 December 2021 |
|------------------------------------|------------------|------------------|
| Insurance company investment funds | 6,870            | 6,604            |

### (49) Other non-current liabilities

|                                | 31 December 2022 | 31 December 2021 |
|--------------------------------|------------------|------------------|
| Long-term contract liabilities | 132,197          | 239,339          |
| Others                         | 36,015           | 27,477           |
|                                | 168,212          | 266,816          |

### (50) Share capital

|                                    |                        | Movements in the current year |                |  |            |           |                        |
|------------------------------------|------------------------|-------------------------------|----------------|--|------------|-----------|------------------------|
|                                    | 31<br>December<br>2021 | Shares<br>newly<br>issued     | Bonus<br>share | Transfer<br>from<br>capital<br>surplus | Others (a) | Sub-total | 31<br>December<br>2022 |
| Ordinary shares denominated in RMB | 12,781,489             | -                             | -              | -                                      | (126,162)  | (126,162) | 12,655,327             |
| Foreign shares listed overseas     | 2,924,482              | -                             | -              | -                                      | -          | -         | 2,924,482              |
|                                    | 15,705,971             | <u>-</u>                      |                | -                                      | (126,162)  | (126,162) | 15,579,809             |

|                                    | 31<br>December<br>2020 | Shares<br>newly<br>issued | Bonus<br>share | Transfer<br>from<br>capital<br>surplus | Others  | Sub-total | 31<br>December<br>2021 |
|------------------------------------|------------------------|---------------------------|----------------|--|---------|-----------|------------------------|
| Ordinary shares denominated in RMB | 12,256,871             | -                         | -              | -                                      | 524,618 | 524,618   | 12,781,489             |
| Foreign shares listed overseas     | 2,924,482              | -                         | -              | -                                      | -       | -         | 2,924,482              |
|                                    | 15,181,353             | <u>-</u> _                | <u>-</u> _     | <u>-</u> _                             | 524,618 | 524,618   | 15,705,971             |

<sup>(</sup>a) On 17 January 2022, upon review and approval at the Company's first interim shareholders' meeting in 2022, the 1st A-share shareholders' meeting in 2022, and the 1st H-share shareholders' meeting in 2022, the Company's equity incentive plan was terminated in January 2022, and 126,162 thousand restricted shares under the equity incentive plan were repurchased and cancelled in March 2022.

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (51) Capital surplus

|   | 31 December<br>2021 | Increase in the current year | Decrease in the current year | 31 December<br>2022 |
|---|---------------------|------------------------------|------------------------------|---------------------|
| Share premium   | 15,653,488          | -                            | -                            | 15,653,488          |
| Effect of convertible bond on equity                                    | 3,381,592           | -                            | -                            | 3,381,592           |
| Capital contribution by shareholders due to equity incentive (a)        | 256,109             | -                            | (256,109)                    | -                   |
| Subsidiaries relocation compensations                                   | 297,503             | -                            | -                            | 297,503             |
| Profit commitment compensation  | 232,002             | -                            | -                            | 232,002             |
| Amount recorded in owners' equity arising from share-based payments (b) | 152,309             | 32,276                       | -                            | 184,585             |
| Others  | 2,072,557           | 16,095                       | -                            | 2,088,652           |
| _   | 22,045,560          | 48,371                       | (256,109)                    | 21,837,822          |
| -   |                     |                              |                              |                     |

|   | 31 December<br>2020 | Increase in the current year | Decrease in the current year | 31 December<br>2021 |
|---|---------------------|------------------------------|------------------------------|---------------------|
| Share premium   | 15,653,488          | -                            | -                            | 15,653,488          |
| Effect of convertible bond on equity                                    | 1,214,919           | 2,166,673                    | -                            | 3,381,592           |
| Capital contribution by shareholders due to equity incentive            | 256,109             | -                            | -                            | 256,109             |
| Subsidiaries relocation compensations                                   | 297,503             | -                            | -                            | 297,503             |
| Profit commitment compensation  | 232,002             | -                            | -                            | 232,002             |
| Amount recorded in owners' equity arising from share-based payments (b) | 157,815             | (5,506)                      | -                            | 152,309             |
| Others  | 1,526,304           | 546,253                      | -                            | 2,072,557           |
|   | 19,338,140          | 2,707,420                    | -                            | 22,045,560          |
|   |                     |                              |                              |                     |

- (a) In 2022, the Proposal on Termination of the Restricted A Shares Under the Incentive Plan and Repurchase and Cancellation of Granted but Locked-up Restricted Shares was reviewed and approved at the Company's first interim shareholders' meeting in 2022, the 1st A-share shareholders' meeting in 2022, and the 1st H-share shareholders' meeting in 2022. The Company repurchased and cancelled a total of 126,162 thousand restricted shares that have been granted to 2,099 participants but not yet unlocked, and accordingly reduced capital surplus by RMB256,109 thousand and cancelled 382,271 thousand treasury stocks.
- (b) Based on the equity incentive plan of the Company mentioned in Note 1, in 2022, the Group recognised related expenses of RMB32,276 thousand for the share-based payment and increased the capital surplus accordingly.

# (52) Other comprehensive income

|  | Other comprehensive income in the balance sheet |  |                     | Other comprehensive income in the income statement for year ended 31 December 2022 |   |                              |  |   |
|--|---|--|---------------------|--|---|------------------------------|--|---|
|  | 31 December<br>2021                             | Attributable<br>to the parent<br>company - net<br>of tax | 31 December<br>2022 | Amount<br>incurred before<br>income tax  | Less: Transfer-<br>out of<br>previous other<br>comprehensive<br>income in the<br>current year | Less: Income tax<br>expenses | Attributable<br>to the parent<br>company - net<br>of tax | Attributable<br>to minority<br>interests after<br>tax |
| Other comprehensive income items<br>which will<br>not be reclassified to profit or loss    |   |  |                     |  |   |                              |  |   |
| Changes arising from remeasurement of defined benefit plan                                 | (3,534)   | 22,390   | 18,856              | 33,919   | -   | 10,489                       | 22,390   | 1,040   |
| Other comprehensive income items<br>which will<br>be reclassified to profit or loss        |   |  |                     |  |   |                              |  |   |
| Changes in fair value of other debt investments  | 36,109  | (10,419)   | 25,690              | 175,169  | 190,881   | (3,928)                      | (10,419)   | (1,365)   |
| Provision for credit impairment of other debt investments and receivables financing        | 22,193  | (15,981)   | 6,212               | 19,075   | 26,537  | 9,203                        | (15,981)   | (684)   |
| Gains or losses on cash flow hedge   | 20,217  | 1,821  | 22,038              | 2,428  | -   | 607                          | 1,821  | -   |
| Differences on translation of foreign currency financial statements                        | (564,303)                                       | 487,127  | (77,176)            | 493,193  | -   | -                            | 487,127  | 6,066   |
| Other comprehensive income that will be reclassified to profit or loss under equity method | (30,908)  | -  | (30,908)            | =  | -   | -                            | -  | -   |
| Others   | 10,397  | -  | 10,397              | -  | -   | -                            | -  | -   |
| •  | (509,829)                                       | 484,938  | (24,891)            | 723,784  | 217,418   | 16,371                       | 484,938  | 5,057   |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (52) Other comprehensive income (Cont'd)

|  | Other comprehensive income in the balance sheet |  |   | nce Other comprehensive income in the income sta<br>year ended 31 December 2022 |   |   | ber 2022                     | ement for  |   |
|--|---|--|---|---|---|---|------------------------------|--|---|
|  | 31 December<br>2020                             | Attributable<br>to the parent<br>company - net<br>of tax | Reclassification<br>of other<br>comprehensive<br>income | 31 December<br>2021   | Amount<br>incurred before<br>income tax | Less: Transfer-<br>out of<br>previous other<br>comprehensive<br>income in the<br>current year | Less: Income<br>tax expenses | Attributable<br>to the parent<br>company - net<br>of tax | Attributable<br>to minority<br>interests after<br>tax |
| Other comprehensive income items which will not be reclassified to profit or loss                      |   |  |   |   |   |   |                              |  |   |
| Changes arising from remeasurement of defined benefit plan   | (4,300)   | 766  | -   | (3,534)   | 3,411                                   | -   | 2,645                        | 766  | -   |
| Other comprehensive income items which will be reclassified to profit or loss                          |   |  |   |   |   |   |                              |  |   |
| Changes in fair value of other debt investments  | 61,764  | (25,655)   | -   | 36,109  | 104,726                                 | 143,415   | (9,672)                      | (25,655)   | (3,362)   |
| Changes in fair value of financing receivables (Note)  | (214,417)                                       | -  | 214,417   | -   | -                                       | -   | -                            | -  | -   |
| Provision for credit impairment of other debt investments and receivables financing (Note)             | 392,754   | 23,593   | (394,154)   | 22,193  | 33,934                                  | 8,141   | 2,200                        | 23,593   | -   |
| Gains or losses on cash flow hedge   | 20,217  | -  | -   | 20,217  | -                                       | -   | -                            | -  | -   |
| Differences on translation of foreign currency financial statements                                    | (365,629)                                       | (198,674)  | -   | (564,303)   | (206,557)                               | -   | -                            | (198,674)  | (7,883)   |
| Other comprehensive income that will be subsequently transferred to profit or loss under equity method | (30,908)  | -  | -   | (30,908)  | -                                       | -   | -                            | -  | -   |
| Others   | 10,397  | -  | -   | 10,397  | -                                       | -   | -                            | -  | -   |
|  | (130,122)                                       | (199,970)  | (179,737)   | (509,829)   | (64,486)                                | 151,556   | (4,827)                      | (199,970)  | (11,245)  |

Note: In 2021, as a result of changes in business model for managing accounts receivable, certain subsidiaries of the Group reclassified related receivables financing to accounts receivable and transferred out the accumulated gains or losses previously included in other comprehensive income, with a corresponding adjustment made to the carrying amount of accounts receivable.

### (53) Surplus reserve

|   | 31 December<br>2021 | Appropriation in the current year | Decrease in the current year | 31 December<br>2022 |
|---|---------------------|-----------------------------------|------------------------------|---------------------|
| Statutory surplus reserve                     | 4,096,610           | -                                 | -                            | 4,096,610           |
| Discretionary surplus reserve                 | 29,816              | -                                 | -                            | 29,816              |
| Reserve fund                                  | 303,715             | -                                 | -                            | 303,715             |
| Enterprise expansion fund                     | 349,926             | -                                 | -                            | 349,926             |
| Provision for general risk of Finance Company | 1,126,457           | -                                 | -                            | 1,126,457           |
|   | 5,906,524           | _                                 | -                            | 5,906,524           |

|   | 31 December<br>2020 | Appropriation in the current year | Decrease in the current year | 31 December<br>2021 |
|---|---------------------|-----------------------------------|------------------------------|---------------------|
| Statutory surplus reserve                     | 4,096,610           | -                                 | -                            | 4,096,610           |
| Discretionary surplus reserve                 | 29,816              | -                                 | -                            | 29,816              |
| Reserve fund                                  | 303,715             | -                                 | -                            | 303,715             |
| Enterprise expansion fund                     | 349,926             | -                                 | -                            | 349,926             |
| Provision for general risk of Finance Company | 1,126,457           | -                                 | -                            | 1,126,457           |
|   | 5,906,524           |                                   | -                            | 5,906,524           |

In accordance with the Company Law of the People's Republic of China and the Company's Articles of Association, the Company should appropriate 10% of net profit for the year to the statutory surplus reserve, and can cease appropriation when the statutory surplus reserve accumulated to more than 50% of the registered capital. The statutory surplus reserve can be used to make up for the loss or increase the share capital after approval from the appropriate authorities. Due to losses in the current year, no statutory surplus reserve has been appropriated (2021: Nil).

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (54) Retained earnings

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Retained earnings at the beginning of the year                            | 15,218,425                             | 26,348,897                             |
| Add: Net loss attributable to shareholders of the parent company          | (3,566,484)                            | (9,987,908)                            |
| Appropriation to staff and workers' bonus and welfare fund                | (23,373)                               | (15,189)                               |
| Dividends payable to the Company's ordinary shareholders and subsidiaries | (209,305)                              | (1,127,375)                            |
| Retained earnings at the end of the year                                  | 11,419,263                             | 15,218,425                             |

### (55) Revenue and operating cost

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Revenue from main operations (Note 2(12))        | 114,496,488                            | 126,998,474                            |
| Revenue from other operations                    | 2,489,319                              | 2,556,374                              |
| Interest income                                  | 636,982                                | 704,552                                |
| Fee and commission income                        | 329                                    | 1,850                                  |
|  | 117,623,118                            | 130,261,250                            |
|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
| Operating cost from main operations (Note 2(12)) | 97,521,681                             | 109,264,153                            |
| Operating cost from other operations             | 975,216                                | 1,308,673                              |
| Interest expenses                                | 87,168                                 | 103,242                                |
| Fee and commission expenses                      | 754                                    | 917                                    |
|  | 98,584,819                             | 110,676,985                            |

Revenue from main operations includes revenue from sales of energy equipment, industrial equipment and integration service. Operating cost refers to those of products related to main operations. The Group's segment information has been listed in Note 7.

# (55) Revenue and operating cost (Cont'd)

Details of revenue from main operations are as follows:

|                       | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|-----------------------|--|--|
| Sale of goods         | 86,126,054                             | 91,793,950                             |
| Construction services | 17,669,945                             | 24,774,800                             |
| Rendering of services | 10,700,489                             | 10,429,724                             |
|                       | 114,496,488                            | 126,998,474                            |

Details of revenue from other operations are as follows:

|                                      | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--------------------------------------|--|--|
| Sales of raw materials               | 1,205,183                              | 1,313,613                              |
| Leasing fixed assets                 | 656,952                                | 534,633                                |
| Finance lease income                 | 189,894                                | 328,948                                |
| Rendering of non-industrial services | 164,892                                | 166,749                                |
| Sale of energy                       | 35,220                                 | 25,673                                 |
| Others                               | 237,178                                | 186,758                                |
|                                      | 2,489,319                              | 2,556,374                              |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

#### (55) Revenue and operating cost (Cont'd)

|                                       |            | For the year ended 31 December 2022                |               |           |  |               |                       |           |             |
|---------------------------------------|------------|--|---------------|-----------|--|---------------|-----------------------|-----------|-------------|
|                                       | S          | ales of goods                                      |               | Con       | struction servio                                   | :es           | Rendering of services | Others    | Total       |
|                                       | China      | Other Asian<br>countries/<br>geographical<br>areas | Other regions | China     | Other Asian<br>countries/<br>geographical<br>areas | Other regions |                       |           |             |
| Revenue from main operations          | 77,706,678 | 987,138  | 7,432,238     | 7,913,907 | 9,117,196  | 638,842       | 10,700,489            | -         | 114,496,488 |
| Including: Recognised at a time point | 77,706,678 | 987,138  | 7,432,238     | -         | -  | -             | 249,618               | -         | 86,375,672  |
| Recognised within a period of time    | -          | -  | -             | 7,913,907 | 9,117,196  | 638,842       | 10,450,871            | -         | 28,120,816  |
| Revenue from other operations         | 944,369    | 104,010  | 139,233       | -         | -  | -             | 164,892               | 1,136,815 | 2,489,319   |
|                                       | 78,651,047 | 1,091,148  | 7,571,471     | 7,913,907 | 9,117,196  | 638,842       | 10,865,381            | 1,136,815 | 116,985,807 |

|                                       |            |  | F             | or the year | ended 31 Dece                                      | mber 2021     |                       |           |             |
|---------------------------------------|------------|--|---------------|-------------|--|---------------|-----------------------|-----------|-------------|
|                                       | S          | ales of goods                                      |               | Con         | struction servi                                    | ces           | Rendering of services | Others    | Total       |
|                                       | China      | Other Asian<br>countries/<br>geographical<br>areas | Other regions | China       | Other Asian<br>countries/<br>geographical<br>areas | Other regions |                       |           |             |
| Revenue from main operations          | 83,610,979 | 1,028,814  | 7,154,157     | 9,624,678   | 13,913,992   | 1,236,130     | 10,429,724            | -         | 126,998,474 |
| Including: Recognised at a time point | 83,610,979 | 1,028,814  | 7,154,157     | -           | -  | -             | 175,087               | -         | 91,969,037  |
| Recognised within a period of time    | -          | -  | -             | 9,624,678   | 13,913,992   | 1,236,130     | 10,254,637            | -         | 35,029,437  |
| Revenue from other operations         | 846,336    | 426,335  | 40,942        | -           | -  | -             | 166,749               | 1,076,012 | 2,556,374   |
|                                       | 84,457,315 | 1,455,149  | 7,195,099     | 9,624,678   | 13,913,992   | 1,236,130     | 10,596,473            | 1,076,012 | 129,554,848 |
|                                       |            |  |               |             |  |               |                       |           |             |

- (i) As at 31 December 2022, the Group's income corresponding to the performance obligations that have been signed but not yet fulfilled or not yet completed was RMB38,886,075 thousand, of which RMB38,742,797 thousand was expected to be recognised in 2023 and RMB143,278 thousand was expected to be recognised in 2024 and beyond.
- (ii) In 2022, the Group did not receive any additional rewards for the early completion of labour services. The Group's revenue from sales of materials is recognised at a time point.

# (56) Taxes and surcharges

|                                       | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---------------------------------------|--|--|
| City maintenance and construction tax | 150,970                                | 141,144                                |
| Educational surcharge                 | 115,333                                | 107,186                                |
| Real estate tax                       | 104,713                                | 119,893                                |
| Stamp tax                             | 86,392                                 | 110,057                                |
| Land use tax                          | 31,819                                 | 35,197                                 |
| Others                                | 42,530                                 | 49,391                                 |
|                                       | 531,757                                | 562,868                                |

The payment criterion is set out in Note 3.

# (57) Selling and distribution expenses

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Labour costs  | 1,235,861                              | 1,205,112                              |
| Product warranty expenses                               | 1,003,860                              | 1,619,031                              |
| Agency fee and commission                               | 424,546                                | 447,182                                |
| General office expenses and market development expenses | 325,464                                | 371,826                                |
| Agent and technical service fees                        | 237,025                                | 224,344                                |
| Travel expenses   | 116,212                                | 139,933                                |
| Bidding service fee                                     | 104,728                                | 170,208                                |
| Packaging expenses                                      | 24,946                                 | 48,526                                 |
| Depreciation of right-of-use assets                     | 3,246                                  | 4,732                                  |
| Others  | 377,413                                | 370,205                                |
|   | 3,853,301                              | 4,601,099                              |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (58) General and administrative expenses

|                                     | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|-------------------------------------|--|--|
| Labour costs                        | 4,520,021                              | 4,186,465                              |
| Depreciation and amortisation       | 912,284                                | 918,930                                |
| Professional service fees           | 676,242                                | 738,355                                |
| General office expenses             | 654,347                                | 668,212                                |
| Rental fees                         | 146,857                                | 155,158                                |
| Depreciation of right-of-use assets | 134,894                                | 147,347                                |
| Travel expenses                     | 105,824                                | 132,884                                |
| Repair expenses                     | 95,314                                 | 88,660                                 |
| Power energy expenses               | 56,014                                 | 64,587                                 |
| Others                              | 866,152                                | 829,891                                |
|                                     | 8,167,949                              | 7,930,489                              |

### (59) Research and development expenses

|                                     | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|-------------------------------------|--|--|
| Labour costs                        | 2,242,270                              | 2,229,708                              |
| Direct input material costs         | 1,955,109                              | 2,259,156                              |
| Depreciation and amortisation       | 195,228                                | 227,800                                |
| Outsourced research expenses        | 169,814                                | 202,931                                |
| Depreciation of right-of-use assets | 23,956                                 | 24,948                                 |
| Others                              | 442,089                                | 461,226                                |
|                                     | 5,028,466                              | 5,405,769                              |

### (60) Financial expenses

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Interest costs on borrowings             | 1,814,486                              | 1,186,335                              |
| Add: Interest costs on lease liabilities | 36,588                                 | 36,469                                 |
| Less: Capitalised interest               | (93,498)                               | (61,717)                               |
| Sub-total:                               | 1,757,576                              | 1,161,087                              |
| Less: Interest income                    | (504,533)                              | (316,627)                              |
| Exchange gains                           | (42,112)                               | 133,518                                |
| Others                                   | 90,118                                 | 149,432                                |
|  | 1,301,049                              | 1,127,410                              |

#### (61) Expenses by nature

The operating cost, interest costs, fee and commission expenses, selling and distribution expenses, general and administrative expenses and research and development expenses in the income statement are listed as follows by nature:

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Consumption of raw materials                              | 60,702,112                             | 68,285,718                             |
| Machinery and services purchased                          | 31,460,176                             | 36,547,092                             |
| Labour costs  | 12,630,640                             | 12,060,673                             |
| Depreciation and amortisation                             | 2,835,822                              | 2,273,590                              |
| Freight and package fees                                  | 1,299,464                              | 1,505,798                              |
| Warranty expenses   | 1,003,860                              | 1,619,031                              |
| General office expenses                                   | 760,941                                | 786,169                                |
| Power energy expenses                                     | 722,371                                | 721,886                                |
| Agency fee and commission                                 | 508,751                                | 599,217                                |
| Technology commission fees and technical service fees     | 454,582                                | 600,310                                |
| Depreciation of right-of-use assets                       | 401,474                                | 351,827                                |
| Rental  | 331,073                                | 370,503                                |
| Consultation fee  | 284,225                                | 303,832                                |
| Property cost   | 270,535                                | 280,456                                |
| Travel expenses   | 268,356                                | 330,621                                |
| Market development fee                                    | 176,378                                | 238,277                                |
| Auditor fees - Audit services                             | 26,520                                 | 30,710                                 |
| - Non-audit services                                      | 400                                    | 760                                    |
| Daily maintenance and repair expenses of fixed assets (i) | 3,781                                  | 2,641                                  |
| Others  | 1,493,074                              | 1,705,231                              |
| Total   | 115,634,535                            | 128,614,342                            |

<sup>(</sup>i) For the daily maintenance and repair expenses of fixed assets that do not meet the criteria of capitalisation, the Group included the costs related to the production and processing of inventories in the costs of inventories and recognised as cost of sale accordingly, and included the costs related to the research and development department, the administrative department and the sale department in research and development expenses, general and administrative expenses and selling and distribution expenses, respectively.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (62) Asset impairment losses

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Losses on decline in the value of inventories     | 931,530                                | 3,150,569                              |
| Impairment losses on goodwill                     | 411,487                                | 623,327                                |
| Impairment losses on fixed assets                 | 395,332                                | 20,159                                 |
| Impairment losses on contract assets              | 247,083                                | 698,170                                |
| Impairment losses on construction in progress     | 124,233                                | -                                      |
| Impairment losses of long-term equity investments | 35,252                                 | 2,294                                  |
| Impairment of intangible assets                   | -                                      | 14,029                                 |
| Losses on impairment of right-of-use assets       | -                                      | 16,784                                 |
|   | 2,144,917                              | 4,525,332                              |

### (63) Credit impairment losses

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Losses on bad debts of accounts receivable, other receivables and receivables financing | 1,629,798                              | 9,754,456                              |
| Losses on impairment of long-term receivables   | 439,616                                | 126,597                                |
| Losses on bad debts of notes receivable   | 80,804                                 | 1,033,552                              |
| Impairment losses/(Reversal of losses) on discounted notes                              | 48,692                                 | (62,676)                               |
| Losses on impairment of other debt investments  | 12,782                                 | 8,801                                  |
| (Reversal of losses)/Impairment losses on guarantees                                    | (41,537)                               | 105,079                                |
| (Reversal of losses)/Impairment losses on loans   | (76,690)                               | 21,153                                 |
|   | 2,093,465                              | 10,986,962                             |

# (64) Other income

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |                |
|--|--|--|----------------|
|  |  |  |                |
| Tax refund   | 195,970                                | 103,430                                | Income related |
| Rewards for key technologies R&D for and application of deep peak-shaving ultra supercritical coal-fired boilers | 73,200                                 | 20,000                                 | Income related |
| Financial support from Jing'an District  | 41,980                                 | -                                      | Income related |
| Support fund from Zizhu Development Park   | 40,060                                 | 31,609                                 | Income related |
| Special funds for the economic development from Changning District   | 34,816                                 | 42,600                                 | Income related |
| Financial subsidy from Lingang of Minhang<br>District  | 34,274                                 | -                                      | Income related |
| Financial support fund for high-tech achievement transformation projects   | 31,321                                 | 41,785                                 | Income related |
| Rewards from Hongkou District Investment<br>Promotion Office   | 30,000                                 | -                                      | Income related |
| Financial support fund for economic development of Pudong New Area   | 27,172                                 | -                                      | Income related |
| Gotion Energy Storage System Base  | 15,480                                 | -                                      | Assets related |
| Other income related   | 422,428                                | 626,140                                | Income related |
| Other assets related   | 131,290                                | 131,434                                | Assets related |
|  | 1,077,991                              | 996,998                                |                |
|  |  |  |                |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

#### (65) Investment income

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Investment income from long-term equity investment under equity method (Note 4(19))          | 858,533                                | 211,000                                |
| Investment income obtained during the holding of other debt investments                      | 2,152                                  | 7,362                                  |
| Investment income obtained during the holding of other non-<br>current financial assets      | 41,546                                 | 131,013                                |
| Investment income obtained during the holding of financial assets measured at amortised cost | 1,514                                  | 147,471                                |
| Investment income obtained during the holding of financial assets held for trading           | 103,149                                | 72,102                                 |
| Investment (losses)/profits from disposal of subsidiaries                                    | (56,045)                               | 935,262                                |
| Investment income from disposal of other non-current financial assets                        | 22                                     | 15,555                                 |
| Investment (losses)/income from disposal of financial assets held for trading                | (99,440)                               | 51,726                                 |
| Investment income from disposal of other debt investments                                    | 190,881                                | 143,415                                |
| Losses arising from derecognition of financial assets measured at amortised cost             | (8,992)                                | (16,108)                               |
| Others   | 80,317                                 | 131,501                                |
|  | 1,113,637                              | 1,830,299                              |

There is no significant restriction on recovery of investment income of the Group.

### (66) Gains/(Losses) on changes in fair value

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Financial assets at fair value through profit or loss | (691,430)                              | 1,725,898                              |
| Derivative financial instruments                      | (23,885)                               | (20,050)                               |
|   | (715,315)                              | 1,705,848                              |

### (67) Gains on disposal of assets

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 | Amount recognised in<br>non-recurring profit or<br>loss in 2022 |
|--|--|--|---|
| Gains on disposal of intangible assets (a)   | 515,365                                | 6,986                                  | 515,365   |
| Gains on disposal of fixed assets, investment properties and, construction in progress | 45,075                                 | 176,078                                | 45,075  |
|  | 560,440                                | 183,064                                | 560,440   |

<sup>(</sup>a) In 2022, gains on disposal of assets of the Group mainly came from the net income of land transfer from the Company. As at 31 December 2022, the Company had completed the transfer of all the above assets and collected all amounts.

# (68) Non-operating income

|                              | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|------------------------------|--|--|
| Insurance claims             | 42,711                                 | 53,290                                 |
| Unpayable payables           | 12,418                                 | 25,098                                 |
| Contract compensation income | 47,634                                 | 280,725                                |
| Others                       | 120,278                                | 282,056                                |
|                              | 223,041                                | 641,169                                |

### (69) Non-operating expenses

|                           | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---------------------------|--|--|
|                           | December 2022                          | December 2021                          |
| Compensation expenditures | 47,718                                 | 16,026                                 |
| Donation expenditures     | 4,900                                  | 4,970                                  |
| Others                    | 121,263                                | 71,348                                 |
|                           | 173,881                                | 92,344                                 |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

#### (70) Income tax expenses

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Current income tax calculated based on tax law and related regulations | 1,126,490                              | 1,583,469                              |
| Income tax annual filing difference for the current period             | (8,745)                                | (8,651)                                |
| Deferred income tax  | (780,037)                              | (1,624,326)                            |
|  | 337,708                                | (49,508)                               |

The reconciliation from income tax calculated based on the applicable tax rates and loss presented in the consolidated income statement to the income tax expenses is listed below:

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Total loss   | (1,975,298)                            | (10,289,639)                           |
|  |  |  |
| Income tax expenses calculated at applicable tax rates provided by law (Note 1)  | (493,825)                              | (2,572,410)                            |
| Effect of preferential tax rates of certain subsidiaries   | (115,208)                              | (230,133)                              |
| Adjustment for tax filing difference of prior years  | (8,745)                                | (8,651)                                |
| Effect on share of profit of joint ventures and associates   | (175,212)                              | (44,317)                               |
| Income not subject to tax  | (48,865)                               | (151,676)                              |
| Non-deductible expenses  | 44,181                                 | 30,585                                 |
| Preferential tax for qualified expenses  | (474,498)                              | (321,844)                              |
| Utilisation of temporary difference and deductible losses that are not recognised as deferred tax assets in previous years | (47,128)                               | (17,830)                               |
| Deductible temporary difference and deductible losses that are not recognised as deferred tax assets in the current year   | 1,657,008                              | 3,266,768                              |
| Income tax expenses  | 337,708                                | (49,508)                               |

Note 1: The Group's income tax is provided based on estimated taxable income in China and the applicable tax rates. Taxes on taxable income elsewhere have been calculated at the rates of tax prevailing in the countries in which the Group operates, based on existing legislation, interpretations and practices in respect thereof.

#### (71) Earnings per share

#### (a) Basic earnings per share

Basic earnings per share is calculated by dividing net loss for the current period attributable to ordinary shareholders of the Company by the weighted average number of ordinary shares outstanding. Newly issued ordinary shares are included in the weighted average number of shares from the date consideration is receivable (which is generally the date of their issue) according to specific terms of the issuance contract.

Basic earnings per share is calculated as follows:

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Consolidated net loss attributable to ordinary shareholders of the parent company | (3,566,484)                            | (9,987,908)                            |
| Weighted average number of ordinary shares outstanding (i) (Unit: 1,000 shares)   | 15,611,350                             | 15,662,253                             |
| Basic earnings per share  | RMB (0.23)                             | RMB (0.64)                             |
| Including:  |  |  |
| - Basic earnings per share from continuing operations (i):                        | RMB (0.23)                             | RMB (0.64)                             |
| - Basic earnings per share from discontinued operations:                          | -                                      | _                                      |

(i) As mentioned in Note 1, the Company implemented an equity incentive plan. In the calculation of basic earnings per share, the numerator is the consolidated net profit attributable to ordinary shareholders of the Company less the revocable cash dividends distributed in the current period attributable to shares that are expected to be unlocked in the future; the denominator does not include the number of restricted shares.

#### (b) Diluted earnings per share

Diluted earnings per share are calculated by dividing consolidated net profit attributable to ordinary shareholders of the parent company adjusted based on the dilutive potential ordinary shares by the adjusted weighted average number of outstanding ordinary shares of the Company. For the year ended 31 December 2022, the Company had no dilutive potential ordinary shares. Therefore, diluted earnings per share equal to basic earnings per share.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

#### (72) Notes to the cash flow statement

(a) Cash received relating to other operating activities

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Net decrease in finance lease receivables from Lease Company                | 1,751,474                              | 1,647,064                              |
| Income from government grants   | 917,647                                | 873,961                                |
| Cash for interest, fee and commission                                       | 644,319                                | 705,660                                |
| Interest income from parties excluding Finance Company and<br>Lease Company | 504,533                                | 316,627                                |
| Income from leasing fixed assets  | 656,952                                | 534,633                                |
| Net decrease in loans and advances to customers                             | 4,245,003                              | -                                      |
| Net increase in customer deposits and interbank deposits                    | 877,843                                | 909,046                                |
| Net decrease in deposits with central banks                                 | -                                      | 801,080                                |
| Others  | 212,558                                | 533,086                                |
| _   | 9,810,329                              | 6,321,157                              |

### (b) Cash paid relating to other operating activities

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Net increase in financial assets purchased under resale agreements and factoring | 943,004                                | 2,884,651                              |
| Net decrease in transfers of factored accounts receivable                        | 743,279                                | 2,562,979                              |
| General and administrative expenses  | 2,574,228                              | 2,795,186                              |
| Selling and distribution expenses  | 2,602,199                              | 2,533,851                              |
| Research and development expenses  | 2,567,012                              | 2,948,182                              |
| Net increase in deposits with central banks                                      | 165,931                                | -                                      |
| Cash for payment of interest, fee and commission                                 | 87,922                                 | 104,159                                |
| Net increase in loans and advances to customers                                  | -                                      | 516,700                                |
| Others   | 511,994                                | 488,403                                |
| _  | 10,195,569                             | 14,834,111                             |

934,855

797,727

415,226

2,147,808

527,896

479,442

382,271 1,389,609

### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

### (72) Notes to the cash flow statement (Cont'd)

(c) Cash received relating to other investing activities

Cash paid for acquisition of minority interests

Loans repaid by the Group to related parties

Repayments of lease liabilities

Repurchase of equity incentive

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Net decrease in time deposit over three months           | 3,287,755                              | 3,294,045                              |
| Net decrease in restricted cash at bank and on hand      | 475,258                                | -                                      |
|  | 3,763,013                              | 3,294,045                              |
| (d) Cash paid relating to other investing activities     |  |  |
|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
| Net increase in restricted cash at bank and on hand      |  | 282,257                                |
| (e) Cash received relating to other financing activities |  |  |
|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
| Loans from related parties to the Group                  | <u>-</u>                               | 318,803                                |
| (f) Cash paid relating to other financing activities     |  |  |
|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |

In 2022, the total cash outflow related to leasing paid by the Group was RMB810,515 thousand (2021: RMB785,729 thousand), except for the above amount of payment of lease liabilities included in financing activities, and the rest of the cash outflow was included in operating activities.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (73) Supplementary information to the cash flow statement

(a) Supplementary information to the cash flow statement

Reconciliation from net loss to cash flows from operating activities

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Net loss  | (2,313,006)                            | (10,240,131)                           |
| Add: Asset impairment losses  | 2,144,917                              | 4,525,332                              |
| Credit impairment losses  | 2,093,465                              | 10,986,962                             |
| Depreciation of right-of-use assets   | 401,474                                | 351,827                                |
| Depreciation of investment properties   | 79,200                                 | 80,061                                 |
| Depreciation of fixed assets  | 2,082,559                              | 1,713,952                              |
| Amortisation of intangible assets   | 555,691                                | 334,456                                |
| Amortisation of long-term prepaid expenses                                      | 118,372                                | 145,121                                |
| Gains on disposal of fixed assets, intangible assets and other long-term assets | (560,440)                              | (282,772)                              |
| Financial expenses  | 1,715,464                              | 1,294,605                              |
| Losses/(Gains) on changes in fair value   | 715,315                                | (1,705,848)                            |
| Investment income   | (1,113,637)                            | (1,642,084)                            |
| Changes in deferred tax assets  | 345,153                                | (1,676,486)                            |
| Changes in deferred tax liabilities   | 195,219                                | (78,619)                               |
| Amortisation of deferred income   | (1,077,991)                            | (996,998)                              |
| Changes in inventories  | (1,252,250)                            | (6,043,723)                            |
| Changes in contract assets  | (1,758,175)                            | (2,035,895)                            |
| Changes in contract liabilities   | 2,536,317                              | (5,697,738)                            |
| Changes in operating receivables  | (5,671,477)                            | 2,767,822                              |
| Changes in operating payables   | 9,252,399                              | (2,362,927)                            |
| Increase in special reserve   | (5,754)                                | 9,083                                  |
| Net cash flows (used in)/from operating activities                              | 8,482,815                              | (10,554,000)                           |

### (73) Supplementary information to the cash flow statement (Cont'd)

(a) Supplementary information to the cash flow statement (Cont'd)

Significant operating, investing and financing activities that do not involve cash receipts and payments

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Purchase of inventory paid by bank acceptance notes          | 3,779,293                              | 3,444,012                              |
| Transfer of convertible bonds to shares                      | -                                      | 2,691,291                              |
| Newly added right-of-use assets in the current period        | 571,905                                | 795,020                                |
| Asset-for-debt transaction (Note 4(5)(c)(i), Note 4(6)(c))   | 31,911                                 | 170,176                                |
| Trade-off between accounts receivable and long-term payables | -                                      | 652,832                                |
| Stock-for-debt transaction                                   | -                                      | 8,475                                  |
| _  | 4,383,109                              | 7,761,806                              |

### (b) Cash and cash equivalents

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Cash at bank and on hand                               | 26,344,500       | 25,359,181       |
| Placements with banks and other financial institutions | 24,613,553       | 28,992,175       |
|  | 50,958,053       | 54,351,356       |
| Less: Time deposit over three months                   | (3,729,670)      | (7,017,425)      |
| Less: Restricted funds in monetary funds               | (3,443,275)      | (3,752,602)      |
|  | 43,785,108       | 43,581,329       |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

### (73) Supplementary information to the cash flow statement (Cont'd)

(c) Acquisition or disposal of subsidiaries

Acquisition of subsidiaries

|   | For the year ended 31<br>December 2022 |
|---|--|
| Cash and cash equivalents in business combination incurred and paid in the current year |  |
| Including: Rongche Hydraulic System (Shanghai) Co., Ltd.                                | 517                                    |
| Suzhou Moli Automation and Control Technology Co., Ltd.                                 | 12,743                                 |
| Rongche Intelligent Technology (Shanghai) Co., Ltd.                                     | 3,922                                  |
|   | 17,182                                 |
| Cash and cash equivalents held by subsidiaries at acquisition date                      |  |
| Including: Rongche Hydraulic System (Shanghai) Co., Ltd.                                | 280                                    |
| Suzhou Moli Automation and Control Technology Co., Ltd.                                 | 1,053                                  |
| Rongche Intelligent Technology (Shanghai) Co., Ltd.                                     | 130                                    |
|   | 1,463                                  |
| Net cash paid to acquire subsidiaries and other business units                          | 15,719                                 |

# (73) Supplementary information to the cash flow statement (Cont'd)

(c) Acquisition or disposal of subsidiaries (Cont'd)

Disposal of subsidiaries

|   | For the year ended 31<br>December 2022 |
|---|--|
| Cash and cash equivalents received from disposal of subsidiaries in the current year  | 814,250                                |
| Including: Suzhou Thvow Technology Co., Ltd.  | 564,275                                |
| Shanghai Electric (Bei'an) New Energy Co., Ltd.                                       | 238,043                                |
| Shanghai Electric Nantong Guohai Water Treatment Co., Ltd.                            | -                                      |
| Shanghai Electric Matechstone (Yancheng) Engineering Co., Ltd.                        | 11,932                                 |
| Less: Cash and cash equivalents held by subsidiaries at the date when control is lost |  |
| Including: Suzhou Thvow Technology Co., Ltd.  | 616,733                                |
| Shanghai Electric (Bei'an) New Energy Co., Ltd.                                       | 649                                    |
| Shanghai Electric Nantong Guohai Water Treatment Co., Ltd.                            | 35                                     |
| Shanghai Electric Matechstone (Yancheng) Engineering Co., Ltd.                        | 1,154                                  |
| Net cash received from disposal of subsidiaries                                       | 195,679                                |
| Considerations for disposal of subsidiaries for the year ended 31 December 2022:      |  |
| Including: Suzhou Thvow Technology Co., Ltd.  | 564,275                                |
| Shanghai Electric (Bei'an) New Energy Co., Ltd.                                       | 238,043                                |
| Shanghai Electric Nantong Guohai Water Treatment Co., Ltd.                            | 13,106                                 |
| Shanghai Electric Matechstone (Yancheng) Engineering Co., Ltd.                        | 11,932                                 |
|   | 827,356                                |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D) 4

(74) Major monetary items denominated in foreign currency

|                            | 31 December 2022             |               |              |
|----------------------------|------------------------------|---------------|--------------|
|                            | Foreign currency<br>balances | Exchange rate | RMB balances |
| Cash at bank and on hand - |                              |               |              |
| USD                        | 555,315                      | 6.9646        | 3,867,550    |
| EUR                        | 50,860                       | 7.4229        | 377,532      |
| MYR                        | 544                          | 1.5772        | 857          |
| JPY                        | 1,090,070                    | 0.0524        | 57,074       |
| VND                        | 24,400,599                   | 0.0003        | 7,198        |
| HKD                        | 74,851                       | 0.8933        | 66,862       |
| GBP                        | 24,851                       | 8.3941        | 208,605      |
| IDR                        | 34,299,639                   | 0.0004        | 15,332       |
| BDT                        | 16,746                       | 0.0676        | 1,132        |
| ETB                        | 1,212                        | 0.1307        | 158          |
| RSD                        | 1,464,605                    | 0.0634        | 92,885       |
| INR                        | 696,739                      | 0.0842        | 58,665       |
| Accounts receivable -      |                              |               |              |
| USD                        | 268,510                      | 6.9646        | 1,870,065    |
| JPY                        | 52,150                       | 0.0524        | 2,730        |
| HKD                        | 16,107                       | 0.8933        | 14,388       |
| EUR                        | 383                          | 7.4229        | 2,840        |
| GBP                        | 59,200                       | 8.3941        | 496,933      |
| MYR                        | 494                          | 1.5772        | 779          |
| Other receivables -        |                              |               |              |
| USD                        | 21,616                       | 6.9646        | 150,545      |
| JPY                        | 3,477                        | 0.0524        | 182          |
| HKD                        | 197                          | 0.8933        | 176          |
| GBP                        | 21,963                       | 8.3941        | 184,357      |
| Accounts payable -         |                              |               |              |
| USD                        | 3,563                        | 6.9646        | 24,816       |
| MYR                        | 95,008                       | 1.5772        | 149,847      |
| EUR                        | 165                          | 7.4229        | 1,226        |
| JPY                        | 343,058                      | 0.0524        | 17,962       |
| RSD                        | 1,431,891                    | 0.0634        | 90,811       |

(74) Major monetary items denominated in foreign currency (Cont'd)

|   | 31 December 2022             |               |              |
|---|------------------------------|---------------|--------------|
|   | Foreign currency<br>balances | Exchange rate | RMB balances |
|   |                              |               |              |
| Other payables -                          |                              |               |              |
| MYR                                       | 15,075                       | 1.5772        | 23,777       |
| USD                                       | 104                          | 6.9646        | 723          |
| JPY                                       | 378,437                      | 0.0524        | 19,814       |
| HKD                                       | 80                           | 0.8933        | 71           |
| EUR                                       | 5,276                        | 7.4229        | 39,161       |
| Short-term borrowings -                   |                              |               |              |
| EUR                                       | 173,497                      | 7.4229        | 1,287,850    |
| USD                                       | 129,000                      | 6.9646        | 898,433      |
| HKD                                       | 525,018                      | 0.8933        | 468,983      |
| Current portion of long-term borrowings - |                              |               |              |
| EUR                                       | 13,536                       | 7.4229        | 100,480      |
| USD                                       | 104,587                      | 6.9646        | 728,405      |
| Long-term borrowings -                    |                              |               |              |
| USD                                       | 281,876                      | 6.9646        | 1,963,156    |
| EUR                                       | 346,737                      | 7.4229        | 2,573,796    |
| Contract liabilities -                    |                              |               |              |
| USD                                       | 29,289                       | 6.9646        | 203,984      |
| MYR                                       | 202                          | 1.5772        | 318          |
| RSD                                       | 422,205                      | 0.0634        | 26,776       |
|   | 122,203                      | 0.0051        | 23,770       |

#### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 4 NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONT'D)

#### (75) Share-based payment

- (a) Equity-settled share-based payment
- (i) General information

In accordance with the Proposal on A-share Restricted Shares Incentive Plan of Shanghai Electric Group Co., Ltd. (Draft) and Summary, the Proposal on Assessment Measures for the Implementation of A-share Restricted Shares Incentive Plan of Shanghai Electric Group Co., Ltd. and the Proposal on Submittal to Shareholders' General Meeting for Authorising the Board of Directors to Handle Matters Related to A-share Restricted Shares Incentive Plan approved by the 13th meeting of the 5th Session of the Board of Directors of the Company on 6 May 2019, the 1st interim shareholders' meeting in 2019, the 1st A-share shareholders' meeting in 2019 and the 1st H-share shareholders' meeting in 2019, the date of 6 May 2019 was determined as the grant date and a total of 133,578 thousand restricted shares were granted to 2,194 incentive recipients by the Company which were approved by the State-owned Assets Supervision and Administration Commission of Shanghai Municipal Government and confirmed with no objection and recorded by China Securities Regulatory Commission. Such restricted shares were granted at RMB3.03 per share. After the completion of the subscription of such incentive plan, due to the issuance of new shares, the Company's share capital and capital surplus increased by RMB133,578 thousand and RMB271,163 thousand respectively, treasury stocks increased by RMB404,741 thousand and repurchase obligation under equity incentive plan was RMB404,741 thousand. The lock-up period of the incentive plan to grant restricted shares is 24 months, 36 months and 48 months from the registration date of the shares granted. The restricted shares granted under such plan shall not be transferred, used for guarantee or debt repayment during the lockup period.

On 29 June 2020, pursuant to the resolutions at 2019 annual shareholders' meeting, the 1st A-share shareholders' meeting in 2020 and the 1st H-share shareholders' meeting in 2020, the Company repurchased and cancelled the restricted A shares that had been granted to 95 incentive recipients (who were no longer qualified as participants in the incentive plan) but not yet unlocked on 18 September 2020. The total number of restricted shares repurchased and cancelled was 7,416 thousand. After completion of the repurchase and cancellation, the number of remaining restricted shares under the incentive plan of all participants totalled 126,162 thousand.

On 17 January 2022, the Proposal on Termination of the Restricted A Shares Under the Incentive Plan and Repurchase and Cancellation of Granted but Locked-up Restricted Shares, was reviewed and approved at the 1st interim shareholders' meeting in 2022, 1st A-share shareholders' meeting in 2022 and the 1st H-share shareholders' meeting in 2022. The Company repurchased and cancelled a total of 126,162 thousand restricted shares that have been granted to 2,099 incentive recipients but not yet unlocked on 17 March 2022.

In 2022, expenses related to third-tranche share-based payments for termination of the restricted shares under the incentive plan, amounting to RMB32,276 thousand, were recognised, and capital surplus increased accordingly.

### Share-based payment (Cont'd)

- (a) Equity-settled share-based payment (Cont'd)
- (ii) Statement of changes in restricted shares for the year

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Number of outstanding restricted shares at the beginning of the year           | 84,108,000                             | 126,162,000                            |
| Number of restricted shares issued in the current year                         | -                                      | -                                      |
| Number of restricted shares exercised in the current year                      | -                                      | -                                      |
| Number of restricted shares failed in meeting requirements in the current year | (84,108,000)                           | (42,054,000)                           |
| Number of outstanding restricted shares at the end of the year                 | <u>-</u>                               | 84,108,000                             |

(iii) Effect of share-based payment on financial position and financial performance

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Accumulated amount in capital surplus for equity-settled share-based payment (Note 4(51)) | 184,585                                | 152,309                                |
| Total expenses recognised by equity-settled share-based payment in the current year       | 32,276                                 | (5,506)                                |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 5 CHANGES IN THE SCOPE OF CONSOLIDATION

#### (1) Addition of subsidiaries

(a) In 2022, subsidiaries newly incorporated and thus included in the consolidation scope were as follows:

|  | Major                |                      |   | Sharehol | ding (%) | Registered             |
|--|----------------------|----------------------|---|----------|----------|------------------------|
| Subsidiaries   | business<br>location |                      | Nature of business  | Direct   | Indirect | capital (Unit:<br>RMB) |
| Nantong Zhichu New Energy Technology Co.,<br>Ltd.                                | Jiangsu<br>Province  | Jiangsu<br>Province  |   | -        | 100.00   | RMB17,550,000          |
| Guazhou Huichu New Energy Co., Ltd.  | Gansu Province       | Gansu Province       | Technology promotion<br>and application service<br>industry             | -        | 100.00   | RMB1,000,000           |
| Guazhou Ruichu New Energy Co., Ltd.  | Gansu Province       | Gansu Province       | Technology promotion and application service industry                   | -        | 100.00   | RMB1,000,000           |
| Shanghai Electric Yueda (Jiangsu) Energy<br>Storage Technology Co., Ltd.         | Jiangsu<br>Province  | Jiangsu              | Manufacturing of electrical machinery and equipment                     | -        | 51.00    | RMB50,000,000          |
| Jiuquan Zhichu New Energy Co., Ltd.  | Gansu Province       | Gansu Province       | Production and supply of electric power and heat                        | -        | 100.00   | RMB1,000,000           |
| Shanghai Qingqi Shidai Technology Co., Ltd.                                      | Shanghai             | Shanghai             | Technical service industry  | -        | 100.00   | RMB200,000,000         |
| Shencheng Electric Company LTD   | Israel               | Israel               | Production and supply of<br>electric power, heat, fuel<br>gas and water | -        | 100.00   | USD1,300,000           |
| Shanghai Electric New Energy Development Co., Ltd.                               | Shanghai             | Shanghai             | Production and supply of electric power and heat                        | 66.67    | 33.33    | RMB3,000,000,000       |
| Shanghai Electric (Changchun) New Energy<br>Development Co., Ltd.                | Jilin Province       | Jilin Province       | Production and supply of electric power and heat                        | -        | 100.00   | RMB1,000,000           |
| Shanghai Electric (Gongzhuling) New Energy<br>Development Co., Ltd.              | Jilin Province       | Jilin Province       | Production and supply of electric power and heat                        | -        | 100.00   | RMB1,000,000           |
| Zhejiang Yinghe Technology Co., Ltd.   | Zhejiang<br>Province | Zhejiang<br>Province | Manufacturing industry  | -        | 100.00   | RMB20,000,000          |
| Yinghe Technology GmbH   | Germany              | Germany              | Manufacturing industry  | -        | 100.00   | EUR350,000             |
| Shanghai Electric Wind Power Group Binhai<br>Wind Power Equipment Co., Ltd.      | Jiangsu<br>Province  | Jiangsu<br>Province  | 117   | -        | 100.00   | RMB50,000,000          |
| Shanghai Electric Wind Power Group<br>Shandong Equipment Manufacturing Co., Ltd. | Shandong<br>Province |                      | Manufacturing of electrical machinery and equipment                     | -        | 100.00   | RMB51,720,000          |
| Shanghai Electric Wind Power (Zhangye) Blade<br>Technology Co., Ltd.             |                      | Gansu Province       | Manufacturing industry  | -        | 100.00   | RMB66,000,000          |
| Shanghai Electric Wind Power Blade<br>Technology (Taonan) Co., Ltd.              | Jilin Province       | Jilin Province       | Manufacturing of electrical machinery and equipment                     | -        | 100.00   | RMB60,000,000          |
| Zhangye Lilong New Energy<br>Development Co., Ltd.                               | Gansu Province       | Gansu Province       | Production and supply of electric power and heat                        | -        | 100.00   | RMB650,000,000         |

# 5 CHANGES IN THE SCOPE OF CONSOLIDATION (CONT'D)

# (1) Addition of subsidiaries (Cont'd)

(a) In 2022, subsidiaries newly incorporated and thus included in the consolidation scope were as follows:

|  | Major<br>business     | Place of              |   | Sharehol | ding (%) | Registered capital (Unit: |
|--|-----------------------|-----------------------|---|----------|----------|---------------------------|
| Subsidiaries   |                       |                       | Nature of business                                  | Direct   | Indirect | RMB)                      |
| Shanghai Electric Wind Power Equipment<br>(Jilin) Co., Ltd.                              | Jilin Province        | Jilin Province        | Manufacturing of electrical machinery and equipment | -        | 100.00   | RMB15,000,000             |
| Shanghai Electric Wind Power Blade<br>Technology (Shantou) Co., Ltd.                     | Guangdong<br>Province | Guangdong<br>Province | Manufacturing industry                              | -        | 100.00   | RMB100,000,000            |
| Shanghai Electric Wind Power Group<br>(Zhangye) Equipment Manufacturing<br>Co., Ltd.     |                       | Gansu Province        | Manufacturing industry                              | -        | 100.00   | RMB6,000,000              |
| Shanghai Electric Wind Power<br>(Hainan) Co., Ltd.                                       | Hainan<br>Province    | Hainan<br>Province    | Manufacturing industry                              | -        | 100.00   | RMB25,000,000             |
| Zhiyi (Zhejiang Zhoushan) Wind<br>Power Equipment Intelligent<br>Manufacturing Co., Ltd. | Zhejiang<br>Province  | Zhejiang<br>Province  | Manufacturing industry                              | -        | 90.00    | RMB100,000,000            |
| Jinchang Jinkai New Energy Co., Ltd.   | Gansu Province        | Gansu Province        | Production and supply of electric power and heat    | -        | 100.00   | RMB160,000,000            |
| Jinchang Yongneng New Energy Co.,<br>Ltd.  | Gansu Province        | Gansu Province        | Production and supply of electric power and heat    | -        | 100.00   | RMB160,000,000            |
| Shanghai Electric Private Equity Fund<br>Management Co., Ltd.                            | Shanghai              | Shanghai              | Capital market service                              | -        | 100.00   | RMB10,000,000             |
| Shanghai Prime Nedschroef Precision<br>Machine Co., Ltd.                                 | Shanghai              | Shanghai              | Manufacturing of general equipment                  | -        | 52.00    | RMB80,000,000             |
| Shanghai Prime Fasteners Co., Ltd.<br>Shanghai Electric Wind Power                       | Shanghai              | Shanghai              | Wholesale Production and supply of                  | -        | 100.00   | RMB50,000,000             |
| Equipment Manufacturing (Taonan)<br>Co., Ltd.  | Jilin Province        | Jilin Province        | electric power, heat, fuel<br>gas and water         | -        | 100.00   | RMB15,000,000             |
| Shanghai Electric Digital Smart<br>Energy (Zaozhuang) Co., Ltd.                          | Shandong<br>Province  | Shandong<br>Province  | Production and supply of electric power and heat    | -        | 100.00   | RMB30,000,000             |
| Shanghai Electric Digital Smart<br>Energy (Shantou) Co., Ltd.                            | Guangdong<br>Province | Guangdong<br>Province | Research and test development industry              | -        | 100.00   | RMB5,000,000              |
| Shanghai Electric Digital Smart<br>Energy (Jiaxing) Co., Ltd.                            | Zhejiang<br>Province  | Zhejiang<br>Province  | Production and supply of electric power and heat    | -        | 100.00   | RMB5,000,000              |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 5 CHANGES IN THE SCOPE OF CONSOLIDATION (CONT'D)

#### (1) Addition of subsidiaries (Cont'd)

(b) In 2022, subsidiaries newly acquired and thus included in the consolidation scope were as follows:

|  | Major<br>business   | Place of     |   | Shareholo | ling (%) | Registered capital |  |
|--|---------------------|--------------|---|-----------|----------|--------------------|--|
| Subsidiaries   |                     | registration | Nature of business                                  | Direct    | Indirect | (Unit: RMB)        |  |
| Suzhou Moli Automation and Control<br>Technology Co., Ltd. | Jiangsu<br>Province | J            | Manufacturing of electrical machinery and equipment | -         | 51.00    | USD2,524,390       |  |
| Rongche Intelligent Technology (Shanghai)<br>Co., Ltd.     | Shanghai            | Shanghai     | Professional technical service industry             | -         | 51.00    | RMB5,000,000       |  |
| Rongche Hydraulic System (Shanghai) Co., Ltd.              | Shanghai            | Shanghai     | Professional technical service industry             | -         | 51.00    | RMB1,000,000       |  |

### (2) Disposal of subsidiaries

(a) Information on disposal of subsidiaries in the current year is summarised as follows:

| Subsidiaries  | Proceeds<br>from<br>disposal | Disposal<br>proportion | Method of<br>disposal | Timing of losing<br>control | Basis for<br>judgement<br>of timing of<br>losing control          | Difference between<br>proceeds from disposal<br>and corresponding<br>shares of net assets<br>in the consolidated<br>financial statements | Amount transferred<br>from other<br>comprehensive income<br>related to initial<br>equity investment to<br>investment income or<br>loss |
|---|------------------------------|------------------------|-----------------------|-----------------------------|---|--|--|
| Dongguan KOOZ Rolling Equipment Co.,<br>Ltd.                      | -                            | 100%                   | Cancellation          | 28 September 2022           | Completion of industrial and commercial cancellation registration | -  | -  |
| Shanghai Yiyong Mechanical & Electrical<br>Engineering Co., Ltd.  | -                            | 100%                   | Cancellation          | 20 December 2022            | Completion of industrial and commercial cancellation registration | -  | -  |
| Suzhou Thvow Technology Co., Ltd.(Note 8(5)(h)                    | 564,275                      | 15.24%                 | Equity transfer       | 30 November 2022            | Completion of equity delivery                                     | (87,423)   | -  |
| Shanghai Electric (Bei'an) New Energy Co.,<br>Ltd.                | 238,043                      | 100%                   | Equity transfer       | 2 December 2022             | Completion of equity delivery                                     | 23,058   | -  |
| Shanghai Electric Nantong Guohai Water<br>Treatment Co., Ltd.     | 13,106                       | 100%                   | Equity transfer       | 9 June 2022                 | Completion of equity delivery                                     | 5,360  | -  |
| Shanghai Electric Matechstone (Yancheng)<br>Engineering Co., Ltd. | 11,932                       | 100%                   | Equity transfer       | 28 May 2022                 | Completion of equity delivery                                     | 2,960  | -  |

# **6** INTERESTS IN OTHER ENTITIES

# (1) Interests in significant subsidiaries

(a) Constitution of the Group

|  | Major                |                         |                       |                           | Information —                           | Shareholdir | ıg (%)   |                             |
|--|----------------------|-------------------------|-----------------------|---------------------------|---|-------------|----------|-----------------------------|
| Subsidiaries   | business<br>location | Legal person            | Place of registration | Nature of business        | on share<br>capital and<br>bonds issued | Direct      | Indirect | Method of acquisition       |
|  |                      |                         |                       | u C.                      | Cl :                                    |             |          | Fauity                      |
| SMEI (Note 2(32)(a))   | Shanghai             | Listed                  | Shanghai              | Manufacturing industry    | Share capital<br>1,022,739              | 48.81       | -        | Equity contribution         |
| Shanghai Boiler Works Co., Ltd.  | Shanghai             | Corporate-owned         | Shanghai              | Manufacturing industry    | -                                       | 100         | -        | Equity contribution         |
| Shanghai Electric Group Shanghai<br>Electric Machinery Co., Ltd.               | Shanghai             | Other limited liability | Shanghai              | Manufacturing industry    | -                                       | 61          | -        | Equity contribution         |
| Broetje-Automation GmbH  | Germany              | Other limited liability | Germany               | Manufacturing industry    | -                                       | -           | 100      | Equity contribution         |
| Shanghai Nanhua-Lanling Electrical<br>Co., Ltd. (Note 2)                       | Shanghai             | Other limited liability | Shanghai              | Manufacturing industry    | -                                       | -           | 50       | Equity contribution         |
| Shanghai Machine Tool Works Co., Ltd.  | Shanghai             | Other limited liability | Shanghai              | Manufacturing industry    | -                                       | 100         | -        | Equity contribution         |
| Shanghai Mitsubishi Elevator Co., Ltd. (Note 2)                                | Shanghai             | Other limited liability | Shanghai              | Manufacturing industry    | -                                       | -           | 52       | Equity contribution         |
| Shanghai Electric Power Generation Equipment Co., Ltd.                         | Shanghai             | Other limited liability | Shanghai              | Manufacturing industry    | -                                       | -           | 54.64    | Incorporation or investment |
| Shanghai Electric Wind Power Group<br>Co., Ltd.                                | Shanghai             | Listed                  | Shanghai              | Manufacturing industry    | Share capital<br>1,333,333              | 60          | -        | Incorporation or investment |
| Shanghai Turbine Company, Ltd.   | Shanghai             | Corporate-owned         | Shanghai              | Manufacturing industry    | -                                       | 100         | -        | Incorporation or investment |
| Shanghai Electric Nuclear Power<br>Equipment Co., Ltd.                         | Shanghai             | Other limited liability | Shanghai              | Manufacturing industry    | -                                       | 57.80       | -        | Incorporation or investment |
| Shanghai Electric Transmission & Distribution Group Co., Ltd. (Note 2(32) (a)) | Shanghai             | Other limited liability | Shanghai              | Manufacturing<br>industry | -                                       | 50          | -        | Incorporation or investment |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 6 INTERESTS IN OTHER ENTITIES (CONT'D)

### (1) Interests in significant subsidiaries (Cont'd)

(a) Constitution of the Group (Cont'd)

|   | Major                | Dia                      |                         | Notone of              | Information on share        | Shareholdir | ıg (%)    | Registered                      |
|---|----------------------|--------------------------|-------------------------|------------------------|-----------------------------|-------------|-----------|---------------------------------|
| Subsidiaries  | business<br>location | Place of<br>registration | Legal person            | Nature of business     | capital and<br>bonds issued | Direct      | Indirect  | capital (Unit:<br>RMB)          |
| Shanghai Electrical Apparatus Import                                |                      |                          | Corporate-              |                        |                             |             | ı         | ncorporation or                 |
| & Export Co., Ltd.  | Shanghai             | Shanghai                 | owned                   | Service industry       | -                           | 100         | -         | investment                      |
|   |                      |                          | Corporate-              | Financial              |                             |             | I         | ncorporation or                 |
| Shanghai Electric Hong Kong Co., Ltd.                               | Shanghai             | Shanghai                 | owned                   | industry               | =                           | 100         | =         | investment                      |
| Changhai Flagtvia Cas Tuylaina Ca Ital                              | Chanabai             | Chanahai                 | Other limited           | Manufacturing          |                             | (0          | I         | ncorporation or                 |
| Shanghai Electric Gas Turbine Co., Ltd.                             | Shanghai             | Shanghai                 | liability               | industry               | -                           | 60          | -         | investment                      |
| Shanghai Electric SHMP Pulverising &<br>Special Equipment Co., Ltd. | Shanghai             | Shanghai                 | Corporate-<br>owned     | Manufacturing industry |                             | 100         |           | ncorporation or                 |
| Shanghai Electric Wind Power Yunnan                                 | Silaligilal          | Silaligilal              |                         | ,                      | _                           | 100         | _         | investment                      |
| Co., Ltd.   | Yunnan               | Yunnan                   | Corporate-<br>owned     | Manufacturing industry | _                           | _           | 100       | ncorporation or investment      |
| Shanghai Institute of Mechanical &                                  | Tarman               | raman                    | Other limited           | maasay                 |                             |             |           | ncorporation or                 |
| Electrical Engineering Co., Ltd.                                    | Shanghai             | Shanghai                 | liability               | Service industry       | -                           | 51.12       | -         | investment                      |
| Shanghai Najie Complete Sets of                                     |                      |                          | Other limited           | Manufacturing          |                             |             | ı         | ncorporation or                 |
| Electric Co., Ltd. (Note 2)   | Shanghai             | Shanghai                 | liability               | industry               | -                           | -           | 85        | investment                      |
|   |                      |                          |                         |                        |                             |             |           | Business combination            |
|   |                      |                          |                         |                        |                             |             |           | involving enterprises           |
| Shanghai Renmin Electrical Apparatus                                | Characha:            | Clara a alari            | Other limited           | Manufacturing          |                             |             | <b>60</b> | under common                    |
| Works   | Shanghai             | Shanghai                 | liability               | industry               | -                           | -           | 68        | control<br>Business combination |
|   |                      |                          |                         |                        |                             |             |           | involving enterprises           |
| Shanghai Electric Power Transmission                                |                      |                          | Other limited           | Manufacturing          |                             |             |           | under common                    |
| & Distribution Engineering Co., Ltd.                                | Shanghai             | Shanghai                 | liability               | industry               | =                           | =           | 100       | control                         |
|   |                      |                          | Corporate-              | Manufacturing          |                             |             | I         | ncorporation or                 |
| Shanghai Blower Works Co., Ltd.                                     | Shanghai             | Shanghai                 | owned                   | industry               | -                           | 100         | -         | investment                      |
|   |                      |                          |                         |                        |                             |             |           | Business combination            |
| Shanghai Electric Group Finance Co.,                                |                      |                          | 0.1 1: :- 1             | F: :1                  |                             |             |           | involving enterprises           |
| Ltd.  | Shanghai             | Shanghai                 | Other limited liability | Financial industry     | _                           | 74.63       | 13.79     | under common<br>control         |
| Shanghai Panxin Enterprise  | Sharighai            | Sharighar                | naomey                  | maasay                 |                             | 7 1.05      | 13.75     | CONTO                           |
| Management Consulting Partnership                                   |                      |                          | Limited                 |                        |                             |             | ı         | ncorporation or                 |
| (Limited Partnership) (Note 1)                                      | Shanghai             | Shanghai                 |                         | Service industry       | =                           | -           | 20.02     | investment                      |
| Shanghai Jingteng Enterprise  |                      |                          |                         |                        |                             |             |           |                                 |
| Management Consulting Partnership                                   |                      |                          | Limited                 |                        |                             |             | I         | ncorporation or                 |
| (Limited Partnership) (Note 1)                                      | Shanghai             | Shanghai                 | Partnership             | Service industry       | -                           | -           | 20.03     | investment                      |
| Shanghai Jixin Enterprise   |                      |                          |                         |                        |                             |             |           |                                 |
| Management Consulting Partnership                                   | Chan-l:              | Cl ·                     | Limited                 | Comiton to divis       |                             |             |           | ncorporation or                 |
| (Limited Partnership) (Note 1)                                      | Shanghai             | Shanghai                 | Partnersnip             | Service industry       | -                           | -           | 20.03     | investment                      |

Note 1: The Group holds 67% of the voting rights of Shanghai Panxin Enterprise Management Consulting Partnership (Limited Partnership), Shanghai Jingteng Enterprise Management Consulting Partnership (Limited Partnership) and Shanghai Jixin Enterprise Management Consulting Partnership (Limited Partnership). It enjoys two votes among the three votes of the Investment Decision Committee, which can lead the major operation and investment decisions of the partnership, so it is accounted for as a subsidiary.

#### 6 INTERESTS IN OTHER ENTITIES (CONT'D)

#### (1) Interests in significant subsidiaries (Cont'd)

(a) Constitution of the Group (Cont'd)

|   | Major<br>business | Place of  |                         | Nature of              | Information<br>on share<br>capital and | Sharehol | ding (%) |   |
|---|-------------------|-----------|-------------------------|------------------------|--|----------|----------|---|
| Subsidiaries  | location          |           | Legal person            | business               | bonds issued                           | Direct   | Indirect | Method of acquisition   |
| Thales SEC Transportation System<br>Limited Company                             | Shanghai          | Shanghai  | Other limited liability | Manufacturing industry | -                                      | 50.10    | -        | Business combination involving enterprises under common control     |
| Shanghai Electric Group Asset<br>Management Co., Ltd.                           | Shanghai          | Shanghai  | Corporate-<br>owned     | Real estate industry   | -                                      | 100      | -        | Business combination involving enterprises under common control     |
| Shanghai Prime Mingyu Machinery<br>Technology Co., Ltd.                         | Shanghai          | Shanghai  | Other limited liability | Manufacturing industry | -                                      | 95.56    | -        | Incorporation or investment   |
| Shanghai Electric Power Generation Environment Protection Engineering Co., Ltd. | Shanghai          | Shanghai  | Other limited liability | Manufacturing industry | -                                      | 95       | -        | Business combination involving enterprises under common control     |
| Shanghai Electric Industrial Co., Ltd.  | Shanghai          | Shanghai  | Other limited liability | Service industry       | -                                      | 51.82    | -        | Incorporation or investment   |
| Shanghai No.1 Machine Tool Works Co., Ltd.                                      | Shanghai          | Shanghai  | Corporate-<br>owned     | Manufacturing industry | -                                      | 100      | -        | Business combination involving enterprises under common control     |
| Shanghai Electric Leasing Co., Ltd.   | Shanghai          | Shanghai  | Corporate-<br>owned     | Service industry       | -                                      | 100      | -        | Business combination involving enterprises under common control     |
| Shanghai Denso Fuel Injection Co.,<br>Ltd.                                      | Shanghai          | Shanghai  | Other limited liability | Manufacturing industry | -                                      | 61       | -        | Business combination involving enterprises under common control     |
| Shanghai Feihang Electric Wire & Cable Co., Ltd. (Note 2)                       | Shanghai          | Shanghai  | Other limited liability | Manufacturing industry | -                                      | -        | 60       | Business combination involving enterprises not under common control |
| Shanghai Huapu Cable Co., Ltd. (Note 2)   | Shanghai          | Shanghai  | Other limited liability | Manufacturing industry | -                                      | -        | 80       | Business combination involving enterprises not under common control |
| Communication Company (Note 3)  | Shanghai          | Shanghai  | Other limited liability | Manufacturing industry | -                                      | 40       | -        | Incorporation or investment   |
| Shanghai Electric Investment Co., Ltd.  | Shanghai          | Shanghai  | Corporate-<br>owned     | Financial industry     | -                                      | 100      | -        | Incorporation or investment   |
| Shenzhen Yinghe Technology Co., Ltd. (Note 2(32)(a))                            | Guangdong         | Guangdong | Listed                  | Manufacturing industry | Share capital<br>649,537               | 28.39    | - 1      | Business combination involving enterprises not under common control |

Note 2: According to the articles of association of Shanghai Nanhua-Lanling Electrical Co., Ltd., Shanghai Mitsubishi Elevator Co., Ltd., Shanghai Najie Complete Sets of Electric Co., Ltd., Shanghai Feihang Electric Wire & Cable Co., Ltd., and Shanghai Huapu Cable Co., Ltd., the Group holds the majority of seats in the Board of Directors of the above companies, and can lead their major financial and operation decisions. Therefore, the Group has substantial control over these companies and includes them in the scope of consolidation as subsidiaries.

Note 3: According to the articles of association of Communication Company, the Group can lead their major financial and operation decisions. Therefore, the Group has substantial control over the company and includes it in the scope of consolidation as a subsidiary.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 6 INTERESTS IN OTHER ENTITIES (CONT'D)

- (1) Interests in significant subsidiaries (Cont'd)
- (b) Minority interests in significant subsidiaries

(i)

| Subsidiaries                                 | Shareholding<br>of minority<br>shareholders | Profit or loss<br>attributable<br>to minority<br>shareholders for<br>the year ended<br>31 December<br>2022 |         | Minority<br>interests as at 31<br>December 2022 |
|--|---|--|---------|---|
| SMEI   | 51.19%                                      | 1,054,861  | 381,187 | 9,261,764                                       |
| Shanghai Electric Wind Power Group Co., Ltd. | 40.00%                                      | (134,696)  | 61,333  | 2,869,985                                       |
| Shenzhen Yinghe Technology Co., Ltd.         | 71.61%                                      | 379,345  | 56,313  | 4,539,470                                       |

(ii) The major financial information of the significant non-fully-owned subsidiaries of the Group is listed below:

|  |                | 31 Decem              | ber 2022                   |  | 31 December 2021 |                    |                            |  |
|--|----------------|-----------------------|----------------------------|--|------------------|--------------------|----------------------------|--|
|  | Current assets | Non-current assets    | Total assets               | Total<br>liabilities                       | Current assets   | Non-current assets | Total assets               | Total<br>liabilities                       |
| SMEI   | 30,917,919     | 6,588,728             | 37,506,647                 | 21,922,277                                 | 30,519,873       | 6,691,752          | 37,211,625                 | 22,575,842                                 |
| Shanghai Electric Wind<br>Power Group Co., Ltd.<br>Shenzhen Yinghe | 18,337,836     | 11,870,150            | 30,207,986                 | 23,057,967                                 | 20,572,531       | 10,120,068         | 30,692,599                 | 23,068,487                                 |
| Technology Co., Ltd.   | 13,302,929     | 3,069,578             | 16,372,507                 | 10,580,365                                 | 9,895,547        | 2,858,548          | 12,754,095                 | 7,201,742                                  |
|  | For the y      | ear ended             | 31 Decemb                  | er 2022                                    | For the          | year ended         | 31 Decem                   | ber 2021                                   |
|  | Revenue        | Net profit/<br>(loss) | Total comprehensive income | Cash flows<br>from operating<br>activities | Revenue          | Net profit         | Total comprehensive income | Cash flows<br>from operating<br>activities |
| SMEI<br>Shanghai Electric Wind                                     | 23,569,529     | 1,533,919             | 1,533,919                  | 693,788                                    | 24,716,739       | 1,172,598          | 1,172,827                  | 720,405                                    |
| Julian Gran Electric Willia  |                |                       |                            |  |                  |                    |                            |  |
| Power Group Co., Ltd. Shenzhen Yinghe                              | 12,075,140     | (338,096)             | (340,752)                  | (717,557)                                  | 23,972,183       | 507,016            | 506,066                    | 336,113                                    |

# 6 INTERESTS IN OTHER ENTITIES (CONT'D)

# (2) Interests in joint ventures and associates

(a) Basic information of significant joint ventures and associates

|   | Major business Place of |            | _   | Sharehold | ing (%)  |
|---|-------------------------|------------|---|-----------|----------|
|   | location re             | gistration | Nature of business                                  | Direct    | Indirect |
| Joint ventures -  |                         |            | Manufacturing of                                    |           |          |
| Shanghai Fanuc Intelligent Machines Co., Ltd.                             | Shanghai                | Shanghai   | communication equipment                             | -         | 49       |
| Associates -  |                         |            |   |           |          |
| Shanghai Mitsubishi Electric Shangling Air Conditioner Electric Co., Ltd. | Shanghai                | Shanghai   | Manufacturing of electrical machinery and equipment | -         | 48       |
| Shanghai Schneider Power Distribution Electrical Apparatus Co., Ltd.      | Shanghai                | Shanghai   | Manufacturing of communication equipment            | -         | 20       |
| Shanghai Siemens Switchgear Co., Ltd.                                     | Shanghai                | Shanghai   | Manufacturing of electrical machinery and equipment | -         | 45       |

The above-mentioned equity investments are accounted for using the equity method.

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 6 INTERESTS IN OTHER ENTITIES (CONT'D)

### (2) Interests in joint ventures and associates (Cont'd)

(b) Summarised financial information for significant joint ventures

|  | 31 December 2022                              |
|--|---|
|  | Shanghai Fanuc Intelligent Machines Co., Ltd. |
| Current assets   | 1,471,659                                     |
| Non-current assets   | 11,568  |
| Total assets   | 1,483,227                                     |
| Current liabilities  | 593,972                                       |
| Non-current liabilities  |   |
| Total liabilities  | 593,972                                       |
| Minority interests   | -   |
| Attributable to shareholders of the parent company                       | 889,255                                       |
| Share of net assets based on shareholding (i)                            | 435,735                                       |
| Adjustments - Goodwill   | -   |
| Carrying amount of investments in joint ventures                         | 435,735                                       |
| Revenue  | 2,180,982                                     |
| Net profit   | 314,002                                       |
| Other comprehensive income   | -   |
| Total comprehensive income   | 314,002                                       |
| Dividends received from joint ventures by the Group for the current year | 100,748                                       |

# 6 INTERESTS IN OTHER ENTITIES (CONT'D)

# (2) Interests in joint ventures and associates (Cont'd)

(c) Summarised financial information for significant associates

|  | 31 December 2022  |
|--|---|
| Shanghai Mitsu   | bishi Electric Shangling Air Conditioner Electric Co., Ltd. |
| Current assets   | 1,923,836   |
| Non-current assets   | 295,787   |
| Total assets   | 2,219,623   |
| Current liabilities  | 712,421   |
| Non-current liabilities  | 17,763  |
| Total liabilities  | 730,184   |
| Minority interests   |   |
| Attributable to shareholders of the parent company                   | 1,489,439   |
| Share of net assets based on shareholding (i)                        | 708,973   |
| Adjustments - Goodwill   | (23,940)  |
| Carrying amount of investments in associates                         | 685,033   |
| Revenue  | 3,101,545   |
| Net profit   | 50,236  |
| Other comprehensive income   | -   |
| Total comprehensive income   | 50,236  |
| Dividends received from associates by the Group for the current year | 12,445  |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### INTERESTS IN OTHER ENTITIES (CONT'D) 6

### (2) Interests in joint ventures and associates (Cont'd)

(c) Summarised financial information for significant associates (Cont'd)

|  | 31 December 2022   |
|--|--|
|  | Shanghai Schneider Power Distribution Electrical Apparatus Co., Ltd. |
| Current assets   | 850,785  |
| Non-current assets   | 137,943  |
| Total assets   | 988,728  |
| Current liabilities  | 599,189  |
| Non-current liabilities                                      |  |
| Total liabilities  | 599,189  |
| Minority interests   |  |
| Attributable to shareholders of the parent company           | 389,539  |
| Share of net assets based on shareholding (i)                | 77,908   |
| Adjustments - Goodwill                                       | -  |
| Carrying amount of investments in associates                 | 77,908   |
| Revenue  | 2,770,917  |
| Net profit   | 536,356  |
| Other comprehensive income                                   | -  |
| Total comprehensive income                                   | 536,356  |
| Dividends received from associates by the Group for the curr | ent year 113,953   |

# 6 INTERESTS IN OTHER ENTITIES (CONT'D)

# (2) Interests in joint ventures and associates (Cont'd)

(c) Summarised financial information for significant associates (Cont'd)

|  | 31 December 2022                      |
|--|---------------------------------------|
|  | Shanghai Siemens Switchgear Co., Ltd. |
| Current assets   | 674,144                               |
| Non-current assets   | 169,531_                              |
| Total assets   | 843,675                               |
| Current liabilities  | 399,218                               |
| Non-current liabilities  | 37,313                                |
| Total liabilities  | 436,531                               |
| Minority interests   |                                       |
| Attributable to shareholders of the parent company                   | 407,144                               |
| Share of net assets based on shareholding (i)                        | 183,215                               |
| Adjustments - Goodwill   | -                                     |
| Carrying amount of investments in associates                         | 183,215                               |
| Revenue  | 1,309,060                             |
| Net profit   | 212,856                               |
| Other comprehensive income   | -                                     |
| Total comprehensive income   | 212,856                               |
| Dividends received from associates by the Group for the current year | 101,814                               |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 6 INTERESTS IN OTHER ENTITIES (CONT'D)

- (2) Interests in joint ventures and associates (Cont'd)
- (c) Summarised financial information for significant associates (Cont'd)
- (i) The Group calculates share of net assets in proportion of the shareholding based on the amount attributable to the parent company of associates in their consolidated financial statements, which has taken into account the impacts of both the fair value of the identifiable assets and liabilities of the associates upon acquisition of investments in associates and the unification of accounting policies adopted by the associates to those adopted by the Group.
- (ii) Other adjustments include the goodwill herein and unrecognised excess loss.
- (d) There was no excess loss incurred in significant joint ventures or associates in the current year.

#### 7 SEGMENT INFORMATION

#### **Operating segment**

The Group's businesses are organised and managed separately based on business nature and the products and services provided. Each operating segment of the Group is a business group, which, distinctive from other operating segments, has its own risks in products and services and gains its own rewards.

Information of each operating segment is summarised as follows:

- (1) the energy equipment segment: coal-fired power generation and corollary equipment, gas-fired power generation equipment, wind power equipment, nuclear power equipment, energy storage equipment, high-end vessels for chemical industry as well as power grid and industrial intelligent power supply system solutions;
- (2) the industrial equipment segment: elevators, large and medium-sized electric motors, intelligent manufacturing equipment, industrial basic parts and construction industrialisation equipment;
- (3) the integration service segment: energy, environmental protection and automation engineering and services, covering traditional and new energy, comprehensive use of solid wastes, sewage treatment, flue gas treatment, rail transit, etc.; industrial internet services; financial services, covering finance leases and insurance brokerage; international trade services; property management services; etc.

Management monitors the results of the business units separately for the purpose of making decisions on resource allocation and performance assessment. Segment performance is evaluated based on reported segment profit. Segment profit is an indicator of adjusted total profit, which is consistent with the Group's total profit but excludes interest income, financial expenses, dividend income, gains on changes in fair value of financial instruments and expenses of headquarters.

Financial assets held for trading, derivatives, dividends receivable, interest receivable, long-term equity investments, debt investments, other debt investments, investment in other equity instruments, other non-current financial assets, deferred tax assets and other undistributed assets of headquarters are not included in segment assets, which are under the unified management of the Group.

Financial liabilities held for trading, derivatives, dividends payable, interest payable, borrowings, income tax expenses payable, deferred tax liabilities and other undistributed liabilities of headquarters are not included in segment liabilities, which are under the unified management of the Group.

Inter-segment transfer prices are measured by reference to the prices of transactions with third parties.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 7 **SEGMENT INFORMATION (CONT'D)**

(a) Segment information as at and for the year ended 31 December 2022 is as follows:

|  | Energy     |            | Integration . | 0.1       |             | =1            | <b>+</b>    |
|--|------------|------------|---------------|-----------|-------------|---------------|-------------|
|  | equipment  | equipment  | service       | Others    | Unallocated | Elimination   | Total       |
| Revenue  |            |            |               |           |             |               |             |
| Including: Revenue from external customers                 | 53,638,857 | 38,996,009 | 24,969,319    | 18,585    | 348         | -             | 117,623,118 |
| Inter-segment revenue                                      | 2,454,522  | 1,537,037  | 1,738,270     | 110,777   | 75,290      | (5,915,896)   | -           |
|  | 56,093,379 | 40,533,046 | 26,707,589    | 129,362   | 75,638      | (5,915,896)   | 117,623,118 |
| Operating cost   | 45,971,002 | 34,216,208 | 24,473,918    | 85,819    | 650         | (6,162,778)   | 98,584,819  |
| Credit impairment losses                                   | 1,621,249  | 396,509    | 1,054,248     | (415)     | (54,010)    | (924,116)     | 2,093,465   |
| Asset impairment losses                                    | 982,414    | (1,301)    | 2,705,322     | -         | -           | (1,541,518)   | 2,144,917   |
| Depreciation and amortisation                              | 1,235,268  | 477,594    | 1,222,508     | 23,869    | 278,057     | -             | 3,237,296   |
| Financial expenses   | -          | -          | -             | -         | 1,301,049   | -             | 1,301,049   |
| Investment income from associates and joint ventures       | -          | -          | -             | -         | 858,533     | -             | 858,533     |
| Operating profit/(loss)                                    | 593,597    | 1,196,098  | (1,146,785)   | (172,847) | (1,052,575) | (1,441,946)   | (2,024,458) |
| Non-operating income and expenses                          |            |            |               |           |             |               | 49,160      |
| Total loss   |            |            |               |           |             |               | (1,975,298) |
| Assets and liabilities                                     |            |            |               |           |             |               |             |
| Total assets   | 96,921,901 | 73,162,858 | 171,575,801   | 723,438   | 46,938,962  | (101,302,108) | 288,020,852 |
| Total liabilities  | 85,584,309 | 44,574,783 | 102,558,459   | 242,439   | 61,462,045  | (100,595,350) | 193,826,685 |
| Non-cash expenses other than depreciation and amortisation | 1,715,235  | 188,748    | 1,956,639     | 2,218     | 24,026      |               | 3,886,866   |
| Increase in non-current assets                             | 3,082,202  | 644,982    | 3,515,307     | 7,735     | 266,513     |               | 7,516,739   |

## 7 SEGMENT INFORMATION (CONT'D)

(b) Segment information as at and for the year ended 31 December 2021 is as follows:

|  | Energy      |             | Integration |           |             | Inter-<br>segment |              |
|--|-------------|-------------|-------------|-----------|-------------|-------------------|--------------|
|  | equipment   | equipment   | service     | Others    | Unallocated | elimination       | Total        |
| Revenue  |             |             |             |           |             |                   |              |
| Including: Revenue from external customers                 | 55,311,112  | 39,327,765  | 35,528,449  | 74,395    | 19,529      | -                 | 130,261,250  |
| Inter-segment revenue                                      | 3,438,767   | 2,913,470   | 3,270,931   | 131,914   | 156,632     | (9,911,714)       | -            |
|  | 58,749,879  | 42,241,235  | 38,799,380  | 206,309   | 176,161     | (9,911,714)       | 130,261,250  |
| Operating cost   | 48,256,496  | 35,328,595  | 36,460,078  | 75,271    | -           | (9,443,455)       | 110,676,985  |
| Credit impairment losses                                   | 559,097     | 8,013,608   | 2,447,363   | 165       | 8,383,872   | (8,417,143)       | 10,986,962   |
| Asset impairment losses                                    | 1,209,677   | 2,629,268   | 1,012,169   | -         | 64,478      | (390,260)         | 4,525,332    |
| Depreciation and amortisation                              | 994,385     | 545,492     | 817,389     | 29,213    | 238,938     | -                 | 2,625,417    |
| Financial expenses   | -           | -           | -           | -         | 1,127,410   | -                 | 1,127,410    |
| Share of profit of associates and joint ventures           | -           | -           | -           | -         | 22,785      | -                 | 22,785       |
| Operating profit/(loss)                                    | 467,282     | (8,104,168) | (1,640,877) | (142,826) | (9,084,641) | 7,666,766         | (10,838,464) |
| Non-operating income and expenses                          |             |             |             |           |             |                   | 548,825      |
| Total loss   |             |             |             |           |             |                   | (10,289,639) |
| Assets and liabilities                                     |             |             |             |           |             |                   |              |
| Total assets   | 120,744,980 | 62,575,322  | 156,567,563 | 714,825   | 64,255,704  | (104,056,204)     | 300,802,190  |
| Total liabilities  | 81,790,164  | 41,666,402  | 113,038,321 | 294,435   | 66,919,942  | (101,051,427)     | 202,657,837  |
| Non-cash expenses other than depreciation and amortisation | 1,941,170   | 87,339      | 3,889,594   | 46,894    | 180,496     |                   | 6,145,493    |
| Increase in non-current assets                             | 1,554,869   | 950,395     | 2,183,885   | 164,023   | 42,829      |                   | 4,896,001    |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 7 SEGMENT INFORMATION (CONT'D)

(c) Revenue from external customers

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Mainland of China                      | 99,204,461                             | 106,460,880                            |
| Other countries and geographical areas | 18,418,657                             | 23,800,370                             |
|  | 117,623,118                            | 130,261,250                            |

Revenue from external customers is attributed to the region where corresponding customers come from.

(d) Total non-current assets

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Mainland of China                      | 59,728,501       | 60,547,694       |
| Other countries and geographical areas | 7,064,563        | 8,955,539        |
|  | 66,793,064       | 69,503,233       |

Non-current assets, excluding financial assets and deferred tax assets, are attributed to the region where the assets are located in.

In 2022 and 2021, there was no single customer of the Group whose revenue exceeded 10% of the Group's revenue.

## (1) Information of the parent company

(a) General information of the parent company

| Contracting, manufacturing |
|----------------------------|

Electric Holdings

Shanghai

Place of registration

Contracting, manufacturing, sales and service

**Nature of business** 

The parent company and ultimate holding company of the Company is Electric Holdings.

(b) Registered capital and changes in registered capital of the parent company

|                   | 31 December 2021 | Increase in the current year | Decrease in the current year 31 December 2022 |
|-------------------|------------------|------------------------------|---|
| Electric Holdings | 9,930,366        | 919,000                      | - 10,849,366                                  |

(c) The percentages of shareholding and voting rights in the Company held by the parent company

|                   | 31 Decemb        | 31 December 2022     |                     | per 2021             |
|-------------------|------------------|----------------------|---------------------|----------------------|
|                   | Shareholding (%) | Voting rights<br>(%) | Shareholding<br>(%) | Voting rights<br>(%) |
| Electric Holdings | 49.78%           | 49.78%               | 54.38%              | 54.38%               |

## (2) Information of subsidiaries

The general information and other related information of subsidiaries are set out in Note 6.

## (3) Information of joint ventures and associates

The general information and other related information of joint ventures and associates are set out in Note 6.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### **RELATED PARTIES AND RELATED PARTY TRANSACTIONS (CONT'D)** 8

## (4) Information of other related parties

|   | Relationship with the Group      |
|---|----------------------------------|
| Nanchang Highly Electrical Appliances Co., Ltd.                           | Controlled by the parent company |
| Shanghai Gongxin Investment Management Co., Ltd.                          | Controlled by the parent company |
| Shanghai Refrigeration Machine Works Co., Ltd.                            | Controlled by the parent company |
| Shanghai Beiji Building Materials Market Management Co., Ltd.             | Controlled by the parent company |
| Shanghai Shuang'ai Property Management Co., Ltd.                          | Controlled by the parent company |
| Shanghai Kangda Medical Equipment Group Co., Ltd.                         | Controlled by the parent company |
| Shanghai Enamelware & Stainless Steel Products United Corporation         | Controlled by the parent company |
| Shanghai Mechanical and Electrical Building Management Co., Ltd.          | Controlled by the parent company |
| Shanghai Nuclear Power Technology Equipment Co., Ltd.                     | Controlled by the parent company |
| Shanghai Highly (Group) Co., Ltd.   | Controlled by the parent company |
| Shanghai Highly New Energy Technology Co., Ltd.                           | Controlled by the parent company |
| Shanghai Highly Special Cooling Equipment Co., Ltd.                       | Controlled by the parent company |
| Shanghai Highly Electrical Appliances Co., Ltd.                           | Controlled by the parent company |
| Shanghai Hydraulics & Pneumatics Co., Ltd.                                | Controlled by the parent company |
| Shanghai Electric (Group) Corporation Education Centre                    | Controlled by the parent company |
| Shanghai Electric (Group) Changjiang Company                              | Controlled by the parent company |
| Shanghai Electric Enterprise Development Co., Ltd.                        | Controlled by the parent company |
| Shanghai Electric International Economic & Trading Co., Ltd.              | Controlled by the parent company |
| Shanghai Electric Intelligent Rehabilitation Medical Technology Co., Ltd. | Controlled by the parent company |
| Shanghai Electric Machine Tool & Engineering Co., Ltd.                    | Controlled by the parent company |
| Shanghai Electric Eurasia Industrial Development Co., Ltd.                | Controlled by the parent company |
| Shanghai Electric Property Co., Ltd.                                      | Controlled by the parent company |
| Shanghai Electric Bearing Co., Ltd.                                       | Controlled by the parent company |

## (4) Information of other related parties (Cont'd)

|   | Relationship with the Group      |
|---|----------------------------------|
| Shanghai Electric Light Industry Asset Management Co., Ltd. | Controlled by the parent company |
| Shanghai Electric Valve Co., Ltd.                           | Controlled by the parent company |
| Shanghai Electric Group Hong Kong Co., Ltd.                 | Controlled by the parent company |
| Shanghai No.3 Machine Tool Works                            | Controlled by the parent company |
| Shanghai Lianhe Wood Industry Co., Ltd.                     | Controlled by the parent company |
| Shanghai Automation Instrumentation Co., Ltd.               | Controlled by the parent company |
| Shanghai Marine Crankshaft Co., Ltd.                        | Controlled by the parent company |
| Shanghai Yingshi Property Co., Ltd.                         | Controlled by the parent company |
| Shanghai Hero Industrial Co., Ltd.                          | Controlled by the parent company |
| Shanghai Crane & Conveyor Works Co., Ltd.                   | Controlled by the parent company |
| Shanghai Lianhe Instrumentation Co., Ltd.                   | Controlled by the parent company |
| Shanghai Heavy Machinery Plant Co., Ltd.                    | Controlled by the parent company |
| Shanghai Jintian Business Co., Ltd.                         | Controlled by the parent company |
| Shanghai Feiren Xiechang Sewing Machinery Co., Ltd.         | Controlled by the parent company |
| China Sinogy (Shanghai) New Energy Technology Co., Ltd.     | Controlled by the parent company |
| China National Machinery Power Engineering Co., Ltd.        | Controlled by the parent company |
| Suzhou Thvow Technology Co., Ltd.                           | Controlled by the parent company |
| Nanchang Highly Electrical Appliances Co., Ltd.             | Controlled by the parent company |
| Thar Coal Field No. 1 Area Power Generation Co., Ltd.       | Controlled by the parent company |
| Tianjin Pipe Co., Ltd.                                      | Controlled by the parent company |
| Pacific Mechatronic (Group) Co., Ltd.                       | Controlled by the parent company |
| Anhui Highly Auto Parts Co., Ltd.                           | Controlled by the parent company |
| Zhanghuaji (Suzhou) Heavy Equipment Co., Ltd.               | Controlled by the parent company |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### **RELATED PARTIES AND RELATED PARTY TRANSACTIONS (CONT'D)** 8

## (4) Information of other related parties (Cont'd)

|  | Relationship with the Group      |
|--|----------------------------------|
| Zhangjiagang Jiangnan Forging Co., Ltd.                          | Controlled by the parent company |
| Hangzhou Fusheng Electrical Appliance Co., Ltd.                  | Controlled by the parent company |
| Yumen Xinneng CSP No.1 Electric Power Co., Ltd.                  | Controlled by the parent company |
| Mianyang Highly Electrical Appliances Co., Ltd.                  | Controlled by the parent company |
| Sino Sindh Resources (Pvt.) Ltd.                                 | Other related enterprises        |
| Shanghai 800 Show Co. Ltd.                                       | Other related enterprises        |
| Shanghai Dalong Machinery Plant Co., Ltd.                        | Other related enterprises        |
| Shanghai Target Investment Management Co., Ltd.                  | Other related enterprises        |
| Shanghai Jianshe Luqiao Machinery Co., Ltd.                      | Other related enterprises        |
| Shanghai Micro Electronics Equipment (Group) Co., Ltd.           | Other related enterprises        |
| Shanghai Paibo Zhidian Enterprise Management Co., Ltd.           | Other related enterprises        |
| Shanghai Electric Insulating Materials Co., Ltd.                 | Other related enterprises        |
| Shanghai Nabtesco Business Management Co., Ltd.                  | Other related enterprises        |
| Shanghai Rail Traffic Equipment Co., Ltd.                        | Other related enterprises        |
| Shanghai Xuanyi New Energy Development Co., Ltd.                 | Other related enterprises        |
| China City State Grid (Beijing) Comprehensive Energy Corporation | Other related enterprises        |
| Tianjin Pipe and Steel Trading Co., Ltd.                         | Other related enterprises        |
| Ansaldo Energia S.p.A.   | Other related enterprises        |
| Siemens AG   | Other related enterprises        |
| Siemens Transformer (Jinan) Co., Ltd.                            | Other related enterprises        |
| Nabtesco Corporation   | Other related enterprises        |
| Wuhu Highly Property Management Co., Ltd.                        | Other related enterprises        |
| Siemens (China) Co., Ltd. Shanghai Branch                        | Other related enterprises        |
| Siemens Gamesa Renewable Energy (Shanghai) Co., Ltd.             | Other related enterprises        |

## (5) Related party transactions

The pricing on transactions between the Group and related parties is based on market prices of similar products or businesses.

(a) Purchase and sales of goods, and rendering and receipt of services

Purchase of goods and receipt of services:

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Electric Holdings                          | 159                                    | -                                      |
| Companies controlled by the parent company | 228,531                                | 95,931                                 |
| Associates                                 | 3,511,711                              | 3,203,877                              |
| Other related enterprises                  | 561,354                                | 1,512,522                              |
|  | 4,301,755                              | 4,812,330                              |

#### Sales of goods and rendering of services:

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Electric Holdings                          | 155,928                                | 93,718                                 |
| Companies controlled by the parent company | 288,701                                | 317,631                                |
| Joint ventures                             | -                                      | 3,628                                  |
| Associates                                 | 679,566                                | 4,040,987                              |
| Other related enterprises                  | 4,053,655                              | 4,380,418                              |
|  | 5,177,850                              | 8,836,382                              |

### Construction income from related parties

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Electric Holdings                          | -                                      | 300                                    |
| Companies controlled by the parent company | 1,566,446                              | 3,265,920                              |
| Associates                                 | 37,995                                 | 12,442                                 |
| Other related enterprises                  | 1,369,877                              | 654,383                                |
|  | 2,974,318                              | 3,933,045                              |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### **RELATED PARTIES AND RELATED PARTY TRANSACTIONS (CONT'D)** 8

## (5) Related party transactions (Cont'd)

(b) Leases

The Group as the lessor:

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
|  |  |  |
| Lease income                               |  |  |
| Electric Holdings                          | 16,162                                 | 15,392                                 |
| Companies controlled by the parent company | 13,906                                 | 7,086                                  |
| Joint ventures                             | 4,060                                  | -                                      |
| Associates                                 | 13,678                                 | 6,195                                  |
| Other related enterprises                  | 12,123                                 | 15,864                                 |
| <u> </u>                                   | 59,929                                 | 44,537                                 |

Right-of-use assets leased in the current year with the Group as the lessee:

|  | Type of the<br>leased asset | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|-----------------------------|--|--|
| Electric Holdings                          | Fixed assets                | -                                      | 20,005                                 |
| Companies controlled by the parent company | Fixed assets                | 13,348                                 | 3,524                                  |
|  | _                           | 13,348                                 | 23,529                                 |

## (c) Loans from related parties to the Group:

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Companies controlled by the parent company |  | 318,803                                |

### (5) Related party transactions (Cont'd)

(d) Loans from the Group to related parties and interest accrued:

|                | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|----------------|--|--|
| Joint ventures | 255,852                                | 153,220                                |

(e) Loans repaid by the Group to related parties:

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Electric Holdings                          | 450,000                                | 467,000                                |
| Companies controlled by the parent company | 77,896                                 | 330,727                                |
|  | 527,896                                | 797,727                                |

## (f) Borrowing guarantees provided by the Group to related parties

(i)

|  | 31 December 2022 |               | 31 Decem   | ber 2021      |
|--|------------------|---------------|------------|---------------|
| _  | Cap amount       | Actual amount | Cap amount | Actual amount |
| China National Machinery Power<br>Engineering Co., Ltd.  | 1,256,000        | 1,159,600     | -          | -             |
| Yumen Xinneng CSP No.1 Electric Power Co.,<br>Ltd.       | 100,000          | 75,000        | -          | -             |
| Suzhou Thvow Technology Co., Ltd.                        | 910,000          | 649,400       | -          | -             |
| Nabtesco (China) Precision Machine Co., Ltd.             | 20,734           | 20,734        | 51,150     | 21,944        |
| Chongqing Shenhua Thin Film Co., Ltd.                    | -                | -             | 300,000    | 241,165       |
| Tianjin Qingyuan Water Treatment<br>Technology Co., Ltd. | 253,000          | 202,852       | 253,000    | 201,325       |

(ii) A subsidiary of the Group and Electric Holdings jointly established Shanghai Electric Investment (Dubai) Co., Ltd. to participate in the power station project. After the project is launched, Electric Holdings provides guarantees for the financing of the project company. The Group provides counter-guarantees to Electric Holdings according to the indirect shareholding ratio of 20% of the project company. The counter-guarantee is expected to not exceed USD166,800,000 (equivalent to RMB1,160,000,000). As at 31 December 2022, the counter-guarantee was in Stage 1.

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 8 RELATED PARTIES AND RELATED PARTY TRANSACTIONS (CONT'D)

#### (5) Related party transactions (Cont'd)

(g) Borrowing guarantees provided by related parties to the Group

Communication Company, a subsidiary of the Group, entered into the Contract for Syndicated Loans of RMB One Billion Two Hundred and One Million ("Host Contract") with Shanghai Pudong Development Bank Co., Ltd. Fengxian Sub-branch ("Guarantee Agency"), Postal Savings Bank of China Co., Ltd. Shanghai Putuo Sub-branch, Bank of Communications Co., Ltd. Shanghai Branch, Bank of Ningbo Co., Ltd. Shanghai Branch, Bank of Jiangsu Co., Ltd. Shanghai Fengxian Sub-branch, China CITIC Bank Corporation Limited Shanghai Branch and Bank of Hangzhou Co., Ltd. Shanghai Branch (collectively the "Syndicate" or "Lenders"). As the guarantor, the Group's parent company Electric Holdings concluded the Guarantee Contract for Syndicated Loans of RMB One Billion Two Hundred and One Million ("Guarantee Contract") with the Syndicate and Communication Company, in which Electric Holdings has affirmed that where Communication Company fails to fulfil debt obligations as per the Host Contract, the Guarantee Agency (on behalf of all Lenders) has the right to request all or any of guarantors under the Guarantee Contract to assume full guarantee liabilities within the scope of the contract, regardless of whether each Lender is entitled to other warranty for the debts in relation to the Host Contract (including but not limited to the form of guarantee, mortgage and pledge). However, the Guarantee Agency has no right to force other warrantors or guarantors to bear warranty liabilities. The guarantee period ends three years after the expiry of the debt obligations.

### (h) Transfer of assets

On 21 June 2022, the Board of Directors of the Company reviewed and approved the Proposal on the Transfer of 15.24% Shares in Suzhou Thvow Technology Co., Ltd. from Shanghai Electric Group Co., Ltd. to Shanghai Electric Holdings Group Co., Ltd. and on the Related Party Transactions. The Board agreed that the Company would transfer its 132,458,814 shares in Thvow Technology to Electric Holdings through private agreement. The equity interest transfer was settled on 2 December 2022, with rights and obligations transferred.

#### (i) Remuneration of key management (in HKD'000)

|                   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|-------------------|--|--|
|                   |  |  |
| Directors         | 4,749                                  | 4,156                                  |
| Supervisors       | 2,050                                  | 2,468                                  |
| Senior management | 11,039                                 | 9,993                                  |
|                   | 17,838                                 | 16,617                                 |

## (6) Balances with related parties

|   |  | 31 Decemb    | er 2022                    | 31 Decemb    | er 2021                 |
|---|--|--------------|----------------------------|--------------|-------------------------|
|   | _  | Book balance | Provision for<br>bad debts | Book balance | Provision for bad debts |
| Accounts receivable                           | Electric Holdings                          | 43,039       | 401                        | 1,119        | 13                      |
|   | Companies controlled by the parent company | 4,347,188    | 204,927                    | 1,516,517    | 96,960                  |
|   | Joint ventures                             | 630          | -                          | 70,791       | 1,692                   |
|   | Associates                                 | 322,532      | 30,151                     | 1,076,303    | 262,594                 |
|   | Other related enterprises                  | 1,028,003    | 12,543                     | 893,165      | 5,848                   |
|   | _  | 5,741,392    | 248,022                    | 3,557,895    | 367,107                 |
| Notes receivable                              | Companies controlled by the parent company | 3,631        | _                          | 5,163        | _                       |
| notes receivable                              | Other related enterprises _                | 1,600        |                            | *            | =                       |
|   | other related enterprises                  | 5,231        |                            |              | -                       |
| Other receivables                             | Electric Holdings                          | -            | -                          | 74,094       | -                       |
|   | Companies controlled by the parent company | 650          | -                          | 6,135        | 100                     |
|   | Joint ventures                             | 3900         | -                          | -            | -                       |
|   | Associates                                 | 1,288,404    | 468,520                    | 1,206,502    | 246,963                 |
|   | Other related enterprises _                | 532,230      |                            | 589,327      |                         |
|   | -  | 1,860,284    | 468,520                    | 1,876,058    | 247,063                 |
| Contract assets                               | Companies controlled by the parent company | 60,878       | 4,546                      | -            | -                       |
|   | Associates                                 | 408,455      | 5,271                      | 1,345,715    | 18,947                  |
|   | Other related enterprises _                | 358,090      | 11,803                     | 2,404        | 34                      |
|   | -  | 827,423      | 21,620                     | 1,348,119    | 18,981                  |
| Other non-current assets -<br>Contract assets | Companies controlled by the parent company | 7,600        | 233                        | -            | -                       |
|   | Other related enterprises                  | 13,374       | 485                        | 13,113       | 433                     |
|   | _  | 20,974       | 718                        | 13,113       | 433                     |
| Long-term receivables                         | Joint ventures                             | 1,672,704    | 604,795                    | 1,314,038    | 259,580                 |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### **RELATED PARTIES AND RELATED PARTY TRANSACTIONS (CONT'D)** 8

### (6) Balances with related parties (Cont'd)

As at 31 December 2022 and 31 December 2021, the aforesaid balances of long-term receivables represented borrowing to related parties, which were in Stage 2.

|                      |   | 31 December 2022 | 31 December 2021   |
|----------------------|---|------------------|--------------------|
|                      |   |                  |                    |
|                      | Companies controlled by the parent                    |                  |                    |
| Prepayments          | company   | 95,184           | 26,350             |
|                      | Associates  | 345,070          | 351,745            |
|                      | Other related enterprises                             | 304,048          | 164,853            |
|                      |   | 744,302          | 542,948            |
| Dividends receivable | Associates  | 88,615           | 49,260             |
|                      | Other related enterprises                             | -                | 37,450             |
|                      |   | 88,615           | 86,710             |
|                      | Companies controlled by the parent                    |                  | 85,418             |
|                      | Companies controlled by the parent                    |                  |                    |
| Accounts payable     | company   | 219,643          | 88,863             |
|                      | Joint ventures  | 251              | 296                |
|                      | Associates  | 413,944          | 245,296            |
|                      |   | 283,817          |                    |
|                      | Other related enterprises                             | 917,655          | 391,404            |
|                      | Other related enterprises                             | 717,033          | 391,404<br>725,859 |
|                      | Companies controlled by the parent                    |                  | 725,859            |
| Notes payable        | Companies controlled by the parent company            | 2,247            | 725,859<br>13,061  |
| Notes payable        | Companies controlled by the parent company Associates | 2,247<br>360,438 | 725,859            |
| Notes payable        | Companies controlled by the parent company            | 2,247            | 725,859<br>13,061  |

## (6) Balances with related parties (Cont'd)

|                            |   | 31 December 2022 | 31 December 2021 |
|----------------------------|---|------------------|------------------|
|                            |   |                  |                  |
| Advances from customers    | Electric Holdings                                     | 16,685           | -                |
|                            | Companies controlled by the parent company            | 4,335            | -                |
|                            | Associates  | 2,894            | -                |
|                            | Other related enterprises                             | 5,398            | 4,889            |
|                            | ,   | 29,312           | 4,889            |
| Contract liabilities       | Electric Holdings                                     | 174,327          | 32,194           |
|                            | Companies controlled by the parent                    | ,                |                  |
|                            | company   | 980,539          | 35,218           |
|                            | Associates  | 4,231            | 142,804          |
|                            | Other related enterprises                             | 5,332            | 83,590           |
|                            |   | 1,164,429        | 293,806          |
|                            | Companies controlled by the parent                    |                  |                  |
| Other payables             | company   | 7,758            | 6,407            |
|                            | Joint ventures  | 1,696            | -                |
|                            | Associates  | 30               | 13,659           |
|                            | Other related enterprises                             | 307,600          | 391,480          |
|                            |   | 317,084          | 411,546          |
| Dividends payable          | Other related enterprises                             | 124,523          | 108,171          |
| Current portion of long-te |   |                  |                  |
| payables                   | Electric Holdings  Companies controlled by the parent | 30,000           | 450,000          |
|                            | company   | 432,505          | 510,401          |
|                            | Associates  | 36,503           | 29,420           |
|                            |   | 499,008          | 989,821          |
| Long-term payables         | Electric Holdings                                     | 71,600           | 101,600          |
| Lease liabilities          | Electric Holdings                                     | 18,321           | 20,266           |
|                            | Companies controlled by the parent company            | 26,522           | 14,317           |
|                            |   | 44,843           | <u> </u>         |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 8 RELATED PARTIES AND RELATED PARTY TRANSACTIONS (CONT'D)

## (7) Deposit and loan services provided by Finance Company to related parties

Deposits from customers

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Electric Holdings                          | 3,222,045        | 1,895,567        |
| Companies controlled by the parent company | 2,653,021        | 3,100,313        |
| Associates                                 | 4,958            | 15,665           |
| Other related enterprises                  | 34,797           | 29,367           |
|  | 5,914,821        | 5,040,912        |

#### Interest costs

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
|  |  |  |
| Electric Holdings                          | 29,312                                 | 45,026                                 |
| Companies controlled by the parent company | 45,405                                 | 45,199                                 |
| Associates                                 | 49                                     | 175                                    |
| Other related enterprises                  | 399                                    | 461                                    |
|  | 75,165                                 | 90,861                                 |

#### Loans

|  | 31 Decemb    | per 2022                | 31 Decemb    | per 2021                |
|--|--------------|-------------------------|--------------|-------------------------|
|  | Book balance | Provision for bad debts | Book balance | Provision for bad debts |
| Electric Holdings                          | 1,487,500    | 8,717                   | 6,500,000    | 212,284                 |
| Companies controlled by the parent company | 5,341,330    | 479,602                 | 894,000      | 206,873                 |
| Associates                                 | 20,000       | 2,796                   | 15,000       | 2,157                   |
| Other related enterprises                  | 19,997       | 2,796                   | 20,000       | 2,876                   |
|  | 6,868,827    | 493,911                 | 7,429,000    | 424,190                 |

(7) Deposit and loan services provided by Finance Company to related parties (Cont'd)

| Discou | intina  |
|--------|---------|
| DISCOL | ariurig |

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Companies controlled by the parent company | 259,636          | 5,550            |
| Associates                                 | 1,859            | 13,255           |
|  | 261,495          | 18,805           |

#### Interest income from loans and discount of notes

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
| Electric Holdings                          | 87,632                                 | 166,307                                |
| Companies controlled by the parent company | 49,621                                 | 41,076                                 |
| Associates                                 | 1,109                                  | 3,133                                  |
| Other related enterprises                  | 558                                    | 775                                    |
|  | 138,920                                | 211,291                                |

## Bank acceptance notes issued for related parties

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
|  |                  |                  |
| Companies controlled by the parent company | -                | 455,386          |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### **RELATED PARTIES AND RELATED PARTY TRANSACTIONS (CONT'D)** 8

### (8) Directors' interests

(a) Remuneration of directors and CEO

The remuneration of each director, supervisor and CEO in 2022 is as follows (in HKD'000):

| Name               | Title   | Fees | Salaries<br>and<br>benefits | Pension | Popus | Other<br>benefits | Compensation<br>for other<br>services<br>provided to<br>the Group | Total  |
|--------------------|---|------|-----------------------------|---------|-------|-------------------|---|--------|
| Name               | Title   | rees | benefits                    | plan    | Bonus | benefits          | the Group   | iotai  |
| Ms. Leng Weiqing   | Chairman and CEO  | -    | 975                         | -       | -     | -                 | -   | 975    |
| Mr. Gan Pin        | Vice chairman   | -    | 815                         | -       | -     | =                 | -   | 815    |
| Mr. Liu Ping       | Director and President                                  | -    | 1,033                       | -       | -     | -                 | -   | 1,033  |
| Mr. Zhu Zhaokai    | Executive director                                      | -    | 1,086                       | -       | -     | -                 | -   | 1,086  |
| Ms. Yao Minfang    | Non-executive director                                  | -    | -                           | -       | -     | -                 | -   | -      |
| Ms. Li An          | Non-executive director                                  | -    | -                           | -       | -     | -                 | -   | -      |
| Mr. Xi Juntong     | Independent director                                    | 280  | -                           | -       | -     | -                 | -   | 280    |
| Mr. Xu Jianxin     | Independent director                                    | 280  | -                           | -       | -     | -                 | -   | 280    |
| Mr. Liu Yunhong    | Independent director<br>Chairman of the Board of        | 280  | -                           | =       | -     | -                 | -   | 280    |
| Mr. Cai Xiaoqing   | Supervisors   | -    | 1,042                       | -       | -     | -                 | -   | 1,042  |
| Mr. Han Quanzhi    | Supervisor  | -    | -                           | -       | -     | -                 | -   | -      |
| Mr. Yuan Shengzhou | Staff supervisor  | -    | 1,008                       | -       | -     | -                 | -   | 1,008  |
| Mr. Dong Jianhua   | Vice president  | -    | 1,360                       | -       | -     | -                 | -   | 1,360  |
| Mr. Chen Ganjin    | Vice president  | -    | 1,274                       | -       | -     | -                 | -   | 1,274  |
| Mr. Gu Zhiqiang    | Vice president  | -    | 1,268                       | -       | -     | -                 | -   | 1,268  |
| Mr. Jin Xiaolong   | Vice president  | -    | 1,281                       | -       | -     | -                 | -   | 1,281  |
| Ms. Yanghong       | Vice president  | -    | 1,274                       | -       | -     | -                 | -   | 1,274  |
|                    | Secretary of the Board of Directors and Chief financial |      |                             |         |       |                   |   |        |
| Mr. Zhou Zhiyan    | officer   | -    | 1,119                       | -       | -     | -                 | -   | 1,119  |
| Ms. Tong Liping    | Chief legal officer                                     | -    | 1,343                       | -       | -     | -                 | -   | 1,343  |
| Ms. Fu Min         | Chief auditor   | -    | 849                         | =       | -     | -                 | =   | 849    |
| Mr. Zhang Mingjie  | Chief Operating Officer _                               |      | 1,271                       |         |       |                   |   | 1,271  |
|                    | _   | 840  | 16,998                      | =       |       |                   |   | 17,838 |

## (8) Directors' interests (Cont'd)

(a) Remuneration of directors and CEO (Cont'd)

The remuneration of each director, supervisor and CEO in 2021 is as follows (in HKD'000):

| Name                          | Title  | Fees | Salaries<br>and<br>benefits | Pension<br>plan | Bonus | Other<br>benefits | Compensation<br>for other<br>services<br>provided to<br>the Group | Total  |
|-------------------------------|--|------|-----------------------------|-----------------|-------|-------------------|---|--------|
| Ms. Leng Weiging              | Chairman and CEO   | -    | 315                         | =               | -     | -                 | -   | 315    |
| Mr. Gan Pin                   | Vice chairman  | -    | 494                         | _               | _     | -                 | -   | 494    |
| Mr. Liu Ping                  | Director and President   | -    | 275                         | _               | _     | -                 | -   | 275    |
| Mr. Zhu Zhaokai               | Executive director   | -    | 725                         | -               | -     | -                 | -   | 725    |
| Ms. Yao Minfang               | Non-executive director   | -    | -                           | -               | -     | -                 | -   | -      |
| Ms. Li An                     | Non-executive director   | -    | -                           | -               | -     | -                 | -   | -      |
| Mr. Xi Juntong                | Independent director   | 275  | -                           | -               | -     | -                 | -   | 275    |
| Mr. Xu Jianxin                | Independent director   | 275  | -                           | -               | -     | -                 | -   | 275    |
| Mr. Liu Yunhong               | Independent director   | 275  | -                           | -               | -     | -                 | -   | 275    |
| Mr. Cai Xiaoqing              | Chairman of the Board of Supervisors   | -    | 481                         | -               | -     | -                 | -   | 481    |
| Mr. Han Quanzhi               | Supervisor   | -    | -                           | -               | -     | -                 | -   | -      |
| Mr. Yuan Shengzhou            | Staff supervisor   | -    | 921                         | -               | -     | -                 | -   | 921    |
| Mr. Dong Jianhua              | Vice president   | -    | 1,079                       | -               | -     | -                 | -   | 1,079  |
| Mr. Chen Ganjin               | Vice president   | -    | 959                         | -               | -     | -                 | -   | 959    |
| Mr. Gu Zhiqiang               | Vice president   | -    | 1,079                       | -               | -     | -                 | -   | 1,079  |
| Mr. Jin Xiaolong              | Vice president   | -    | 959                         | -               | -     | -                 | -   | 959    |
| Ms. Yang Hong Mr. Zhou Zhiyan | Vice president<br>Chief financial officer and Secretary of<br>the Board of Directors<br>(Started his tenure from 2022) | -    | 959                         | -               | -     | -                 | -   | 959    |
| Ms. Tong Liping               | Chief legal officer  | _    | 1,636                       | -               | -     | -                 | -   | 1,636  |
| Mr. Zhang Mingjie             | Chief investment officer   | -    | 1,388                       | -               | -     | -                 | -   | 1,388  |
| Mr. Zheng Jianhua             | Chairman and CEO (resigned)  | -    | 481                         | -               | -     | -                 | -   | 481    |
| Mr. Huang Ou                  | Director and President (resigned)  | -    | 799                         | -               | -     | -                 | -   | 799    |
| Mr. Zhu Bin                   | Director (resigned)  | _    | 242                         | -               | _     | -                 | -   | 242    |
| Mr. Zhou Guoxiong             | Chairman of the Board of Supervisors<br>(resigned)<br>Vice chairman of the Board of                                    | -    | -                           | -               | -     | -                 | -   | -      |
| Mr. Hua Xingsheng             | Supervisors (resigned)   | -    | -                           | -               | -     | -                 | -   | -      |
| Ms. Zhang Yan                 | Staff supervisor (resigned)  | =    | 1,066                       | -               | -     | -                 | -   | 1,066  |
| Mr. Hu Kang                   | Chief financial officer (resigned)<br>Secretary of the Board of Directors  | -    | 959                         | =               | -     | -                 | -   | 959    |
| Ms. Fu Rong                   | (resigned) _   |      | 975                         |                 |       |                   |   | 975    |
|                               | _  | 825  | 15,792                      | -               | -     | -                 | -   | 16,617 |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 8 RELATED PARTIES AND RELATED PARTY TRANSACTIONS (CONT'D)

#### (8) Directors' interests (Cont'd)

(a) Remuneration of directors and CEO (Cont'd)

|                         | Provide direc<br>for the Com<br>subsid    | pany or its                               | Provide other se<br>Company or its        |   | Tota                                      | al  |
|-------------------------|---|---|---|---|---|---|
|                         | For the year<br>ended 31<br>December 2022 | For the year<br>ended 31<br>December 2021 | For the year<br>ended 31<br>December 2022 | For the year<br>ended 31<br>December 2021 | For the year<br>ended 31<br>December 2022 | For the year<br>ended 31<br>December 2021 |
| Directors' remuneration | 4,749                                     | 4,156                                     |   |   | 4,749                                     | 4,156                                     |

<sup>(</sup>ii) In 2022, no director waived any remuneration (2021: Nil).

#### (b) Director's retirement benefits

In 2022, the Group provided no retirement benefits arising from provision of director services (2021: Nil), and no retirement benefits arising from provision of other services (2021: Nil).

(c) Consideration paid to third parties in return for director services

In 2022, the Company made no payments to the company where a director of the Company had previously served (2021: Nil).

- (d) Loans, quasi-loans and other transactions provided to directors, legal persons controlled by directors, and associated persons of directors
- (e) In 2022, the Group did not provide loans and quasi-loans to directors, legal persons controlled by directors and associated persons of directors (2021: Nil), or did not provide guarantees for loans from directors, legal persons controlled by directors and associated persons of directors (2021: Nil).
- (f) Substantial interests of directors in transactions, arrangements or contracts

In 2022, the Company did not sign with other parties any important transactions, arrangements or contracts related to the Group's business within which the directors of the Company directly or indirectly have substantial interests.

## (9) The five individuals whose remunerations are the highest

HKD4,500,001 - HKD5,000,000

The five individuals whose remunerations were the highest in the Group for 2022 included 0 director (2021: no director) whose remunerations were reflected in Note 8(8). The remunerations payable to the remaining 5 (2021: 5) individuals during the year were as follows (in HKD'000):

|                             | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|-----------------------------|--|--|
| Salaries                    | 10,793                                 | 11,215                                 |
| Housing subsidies           | -                                      | -                                      |
| Bonus                       | -                                      | -                                      |
| Other benefits              | -                                      | -                                      |
| Pension plan                | 189                                    | 258                                    |
| Entry bonus                 | -                                      | -                                      |
| Severance compensation      | -                                      | -                                      |
| Others                      |  | <u>-</u>                               |
|                             | 10,982                                 | 11,473                                 |
|                             | Number of en                           | mployees                               |
|                             | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
| Range of remuneration:      |  |  |
| HKD1,500,001 - HKD2,000,000 | 4                                      | 2                                      |
| HKD2,000,001 - HKD2,500,000 | -                                      | 1                                      |
| HKD2,500,001 - HKD3,000,000 | -                                      | 1                                      |
| HKD3,000,001 - HKD3,500,000 | 1                                      | 1                                      |
| HKD3,500,001 - HKD4,000,000 | -                                      | -                                      |
| HKD4,000,001 - HKD4,500,000 | -                                      | -                                      |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 9 CONTINGENCIES

In June 2008, Shanghai Electric signed the Equipment Supply and Service Contract with an Indian buyer to provide major equipment and related services to a coal-fired power station project in Sasan, India, with a total contract amount of USD1,311 million, and a guarantee letter from its related parties was provided for the payment obligations under the contract.

In December 2019, due to long-term default in the payment of equipment expenses and other related expenses by the buyer, the Company submitted an arbitration application to the Singapore International Arbitration Centre (SIAC), requiring the guarantor to pay the Company at least USD135 million of equipment expenses and other related payables as prescribed in the guarantee letter, and in December 2020, the Company submitted an application to the local High Court for property preservation of the guarantor. In December 2022, the Company received an arbitration notice from SIAC in respect of this arbitration, which ruled as follows: the guarantor shall pay the Company an aggregate amount of USD146 million, including outstanding payments for work performed, pre-ruling interest thereon and other legal expenses; the relevant arbitration costs shall be borne by the guarantor; and the guarantor shall pay the Company post-ruling interest on the amount of the aforementioned ruling up to the date of payment. As at the issue date of these financial statements, the Company has not received the above amounts.

On 23 February 2021, the Company received a notice from SIAC for the acceptance of the arbitration application, and the buyer and its related parties requested the Company to compensate their losses of approximately USD416 million, mainly including the losses of USD132 million in power plant operation, losses of USD221 million in electricity revenue and other related expenses. In June 2021, the Company received a letter of withdrawal from SIAC, in which the applicant confirmed the withdrawal of the arbitration case.

In August 2021, the Company received a copy of the indictment filed by the lawyer of the operator of the coal-fired power station project, in which the operator sued the general contractor and the buyer of the project (related parties of the operator) and the Company, seeking joint liabilities from all defendants for losses of approximately RMB2,133 million, mainly including losses in power plant operation, losses in electricity revenue, interest and other expenses.

In July 2022, the High Court of Bombay in India dismissed the petition on the grounds that the plaintiff did not satisfy the conditions of the lawsuit and failed to amend the petition within the prescribed time.

In December 2021, the Company received a notice from SIAC for the acceptance of the arbitration application, where the buyer of the above-mentioned project asserted quality issues with the equipment supplied by the Company on the project, claiming for losses of approximately USD389 million from Shanghai Electric, mainly including losses in power plant operation, losses in electricity revenue, penalty for shipment delay and other expenses. To date, no arbitral tribunal has been convened for this arbitration.

To date, the above arbitration cases have not yet been heard. In light of the written comment from external lawyers, management believed that it was unlikely that SIAC would uphold the claims against the Company and thus no provisions were made for the lawsuits.

### 9 CONTINGENCIES (CONT'D)

Except for the above lawsuits, as at 31 December 2022, the Group's contingent liabilities arising from other pending lawsuits and arbitration cases amounted to RMB832,710 thousand. Since management believes that the opponent's claim is less likely to be supported, no provision is made for estimated liabilities for the sued case (31 December 2021: RMB818,556 thousand).

As at 31 December 2022, the upper limit of loan guarantees to be provided by the Group for related parties was RMB2,539,734 thousand while the balance of loan guarantees already provided by the Group was RMB2,107,586 thousand (31 December 2021: RMB464,434 thousand) (Note 8(5)(f)), and provided counter-guarantees to Electric Holdings in an amount not expected to exceed USD166.8 million (equivalent to RMB1.16 billion) (Note 8(5)(g)). In 2022, there were no bank acceptances notes issued for related parties (31 December 2021: RMB455,386 thousand) (Note 8(7)). The Group recognised the above-mentioned related provision of RMB225,545 thousand (Note 4(42)(b)).

As at 31 December 2022, there were no significant contingent liabilities related to the equity of joint ventures and associates.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## **10 COMMITMENTS**

## (1) Capital commitments

|                               | 31 December 2022 | 31 December 2021 |
|-------------------------------|------------------|------------------|
| Contracted                    | 1,788,918        | 2,542,351        |
| Authorised but not contracted | 2,110            | 71,783           |
|                               | 1,791,028        | 2,614,134        |

## (2) As the lessor under operating lease

According to the lease contracts signed with the lessee, the minimum leases receipts under irrevocable leases are as follows:

|                           | 31 December 2022 | 31 December 2021 |
|---------------------------|------------------|------------------|
| Within 1 year (inclusive) | 52,568           | 69,302           |
| 1 to 2 years (inclusive)  | 46,200           | 47,877           |
| 2 to 3 years (inclusive)  | 43,520           | 39,356           |
| Over 3 years              | 206,975          | 166,286          |
|                           | 349,263          | 322,821          |

### (3) Investment commitments

|                              | 31 December 2022 | 31 December 2021 |
|------------------------------|------------------|------------------|
| Contracted but not fulfilled | 524126           | 402.070          |
| Contracted but not fulfilled | 534,126          | 493,878          |

#### 11 EVENTS AFTER THE BALANCE SHEET DATE

- (1) On 7 February 2023, Electric Holdings completed the pledge release procedures for 684,521,063 unrestricted tradable shares of the Company under the "Shanghai Electric (Group) Corporation Shanghai Electric (Group) Corporation 2020 Non-Public Exchangeable Corporate Bond (Phase I) Pledge Account" at China Securities Depository and Clearing Corporation Limited.
- (2) On 14 March 2023, the Board of Directors of the Company deliberated and approved the Resolution on the Transfer of 100% Equity Interest in Shanghai Xinji Machine Tool Co., Ltd. held by Shanghai Electric Group Co., Ltd. to Shanghai Electric Holdings Group Co., Ltd., agreeing to the non-public transfer of 100% equity interest of Shanghai Xinji Machine Tool Co., Ltd., a subsidiary of the Group, to Electric Holdings.
- (3) On March 29 2023, the board of directors of the company reviewed and approved the proposed acquisition of Shanghai Electric Industrial Co., Ltd., a holding subsidiary of the company held by ICBC Financial Assets Investment Co., Ltd., Bank of Communications Financial Assets Investment Co., Ltd. 48.18% of the equity, 39.42% of the equity of Shanghai Electric Group Motor Factory Co., Ltd., 48.88% of the equity of Shanghai Electromechanical Design Institute Co., Ltd., and 42.20% of the equity of Shanghai Electric Nuclear Power Equipment Co., Ltd. The total equity transfer price is 10.004 billion yuan.

### 12 AS THE LESSOR UNDER FINANCE LEASE

As at 31 December 2022, unrealised financing income amounted to RMB825,214 thousand (31 December 2021: RMB1,048,650 thousand), which was amortised by using the effective interest method over the leasing period. According to the lease contracts signed with the lessee, the minimum leases receipts under irrevocable leases are as follows:

|                           | 31 December 2022 | 31 December 2021 |
|---------------------------|------------------|------------------|
| Within 1 year (inclusive) | 1,671,539        | 1,758,505        |
| 1 to 2 years (inclusive)  | 633,102          | 961,497          |
| 2 to 3 years (inclusive)  | 542,170          | 761,132          |
| Over 3 years              | 1,505,902        | 1,994,032        |
|                           | 4,352,713        | 5,475,166        |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 13 FINANCIAL INSTRUMENTS AND RISKS

The Group's activities expose it to a variety of financial risks: market risk (primarily including foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk. The Group's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimise potential adverse effects on the Group's financial performance.

#### (1) Market risk

#### (a) Foreign exchange risk

The Group's operational activities carried out in Mainland of China are denominated in RMB, while the overseas activities are denominated in foreign currencies, including USD and EUR, thus the overseas transactions are exposed to foreign exchange risk. In addition, the Group is exposed to foreign exchange risk arising from the recognised assets and liabilities, and future transactions denominated in foreign currencies, primarily with respect to US dollars. The Group's finance department at its headquarters is responsible for monitoring the amount of assets and liabilities, and transactions denominated in foreign currencies to minimise the foreign exchange risk. Therefore, the Group may consider entering into forward exchange contracts or currency swap contracts to mitigate the foreign exchange risk.

The financial assets and financial liabilities denominated in foreign currencies, which are held by the subsidiaries of the Group, whose recording currencies are RMB, are expressed in RMB as at 31 December 2022 and 31 December 2021 as follows:

|   | 31 December 2022 |        |           |         |           |
|---|------------------|--------|-----------|---------|-----------|
|   | USD              | JPY    | EUR       | HKD     | Total     |
| Financial assets denominated in foreign currency -      |                  |        |           |         |           |
| Cash at bank and on hand                                | 3,867,550        | 57,074 | 377,532   | 66,862  | 4,369,018 |
| Accounts receivable                                     | 1,870,065        | 2,730  | 2,840     | 14,388  | 1,890,023 |
| Other receivables                                       | 150,545          | 182    | 1         | 176     | 150,904   |
| _   | 5,888,160        | 59,986 | 380,373   | 81,426  | 6,409,945 |
| Financial liabilities denominated in foreign currency - |                  |        |           |         |           |
| Accounts payable  | 24,816           | 17,962 | 1,226     | -       | 44,004    |
| Other payables  | 723              | 19,814 | 39,161    | 71      | 59,769    |
| Short-term borrowings                                   | 898,433          | -      | 1,287,850 | 468,983 | 2,655,266 |
| Long-term borrowings                                    | 1,963,156        | -      | 2,573,796 | -       | 4,536,952 |
| Current portion of long-term borrowings                 | 728,405          | -      | 100,480   | -       | 828,885   |
| _   | 3,615,533        | 37,776 | 4,002,513 | 469,054 | 8,124,876 |

## 13 FINANCIAL INSTRUMENTS AND RISKS (CONT'D)

## (1) Market risk (Cont'd)

(a) Foreign exchange risk (Cont'd)

|   | 31 December 2021 |        |           |         |            |
|---|------------------|--------|-----------|---------|------------|
|   | USD              | JPY    | EUR       | HKD     | Total      |
|   |                  |        |           |         |            |
| Financial assets denominated in foreign currency -      |                  |        |           |         |            |
| Cash at bank and on hand                                | 2,693,846        | 37,742 | 122,225   | 58,852  | 2,912,665  |
| Accounts receivable                                     | 4,479,789        | -      | 318,743   | -       | 4,798,532  |
| Other receivables                                       | 350,931          | 192    | 53,082    | 526     | 404,731    |
| -   | 7,524,566        | 37,934 | 494,050   | 59,378  | 8,115,928  |
| Financial liabilities denominated in foreign currency - |                  |        |           |         |            |
| Accounts payable  | 3,345,588        | 12,444 | 73,929    | -       | 3,431,961  |
| Other payables  | 951              | 1      | 38,671    | 47      | 39,670     |
| Short-term borrowings                                   | 992,061          | -      | 2,870,978 | 448,454 | 4,311,493  |
| Long-term borrowings                                    | 1,546,116        | -      | 1,046,654 | -       | 2,592,770  |
| Current portion of long-term borrowings                 | 445,249          | -      | 123,714   | -       | 568,963    |
| _   | 6,329,965        | 12,445 | 4,153,946 | 448,501 | 10,944,857 |

As at 31 December 2022, for the above financial assets and financial liabilities denominated in foreign currencies, if the RMB had strengthened/weakened by 10% against the currency, while all other variables had been held constant and with consideration to the fair value changes in the forward exchange contracts bought by the Company, the Group's net profit would have decreased/increased as follows:

|     | Strengthened | Weakened  |
|-----|--------------|-----------|
| USD | 227,263      | (227,263) |
| JPY | 2,221        | (2,221)   |
| EUR | (362,214)    | 362,214   |
| HKD | (38,763)     | 38,763    |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 13 FINANCIAL INSTRUMENTS AND RISKS (CONT'D)

#### (1) Market risk (Cont'd)

#### (b) Interest rate risk

The Group's interest rate risk mainly arises from long-term interest-bearing borrowings including long-term borrowings and bonds payable. Financial liabilities issued at floating rates expose the Group to cash flow interest rate risk. Financial liabilities issued at fixed rates expose the Group to fair value interest rate risk. The Group determines the relative proportions of its fixed rate and floating rate contracts depending on the prevailing market conditions. As at 31 December 2022, the Group's interest-bearing borrowings with floating rates mainly represented floating rate borrowing contracts denominated in RMB, USD and EUR, with the amounts of RMB12,326,323 thousand (31 December 2021: RMB19,293,121 thousand) (Note 4(43)).

The Group's finance department at its headquarters continuously monitors the interest rate position of the Group. Increases in interest rates will increase the cost of new borrowing and the interest costs with respect to the Group's outstanding floating rate borrowings, and therefore could have a material adverse effect on the Group's financial performance. Management makes adjustments timely with reference to the latest market conditions and may enter into interest rate swap agreements to mitigate its exposure to interest rate risk. For the year ended 31 December 2022 and the year ended 31 December 2021, the Group did not enter into any significant interest rate swap agreements.

As at 31 December 2022, if interest rates on the floating rate borrowings had risen/fallen by 50 basis points while all other variables had been held constant, the Group's net profit would have decreased/increased by approximately RMB113,097 thousand (31 December 2021: approximately RMB146,255 thousand).

#### (c) Other price risk

The Group's other price risk arises mainly from various investments in equity instruments which are exposed to the risk of price changes on equity instruments.

As at 31 December 2022, if the price of investments in equity instruments had risen/fallen by 5% while all other variables had been held constant, the Group's net profit would have been approximately RMB93,671 thousand (31 December 2021: approximately RMB103,497 thousand) higher/lower. There was no (31 December 2021: Nil) impact on other comprehensive income.

### 13 FINANCIAL INSTRUMENTS AND RISKS (CONT'D)

#### (2) Credit risk

The Group's credit risk mainly arises from cash at bank and on hand, notes receivable, accounts receivable, receivables financing, other receivables, contract assets, debt investments, other debt investments, financial guarantee contracts, and investments in debt instruments and derivative financial assets at fair value through profit or loss that are not included in the impairment assessment scope. As at the balance sheet date, the carrying amount of the Group's financial assets represented the maximum credit exposure of the Group; and the maximum credit exposure off the balance sheet was the maximum amount of RMB6,049,349 thousand that need to be paid for fulfilment of guarantee obligations/commitments (Note 13(3)).

The Group expects that there is no significant credit risk associated with cash at bank and bank acceptance notes since they are mainly deposited at and accepted by state-owned banks and other medium or large size listed banks. The Group does not expect that there will be any significant losses from non-performance by these counterparties.

The Group has policies to limit the credit exposure on notes receivable, accounts receivable, other receivables and contract assets. The Group assesses the credit quality of and sets credit limits on its customers by taking into account their financial position, the availability of guarantee from third parties, their credit history and other factors such as current market conditions. The credit history of the customers is regularly monitored by the Group. In respect of customers with a poor credit history, the Group will use written payment reminders, or shorten or cancel credit periods, to ensure the overall credit risk of the Group is limited to a controllable extent. For trade acceptance notes receivable, accounts receivable and contract assets with significantly different credit risk characteristics, the Group evaluated the distribution of expected cash flows under multiple scenarios based on historical credit loss experience, operating model, current situations and forecasts of future conditions of contract counterparties under different situations, taking into account the professional legal advice from external lawyers and the asset preservation related to the litigation, and made corresponding provision for ECL according to ECL rate and the related probability weight under different scenarios.

As at 31 December 2022, the Group had trade acceptance notes, accounts receivable and contract assets totalling RMB2,108,726 thousand, RMB2,653,574 thousand and RMB322,696 thousand respectively due from various subsidiaries within certain third party groups. Based on the historical recoverability, operating model, current condition and forecasts of the future conditions of such subsidiaries in different situations within these third party groups, the Group evaluated the distribution of expected cash flows under multiple scenarios, and made corresponding provision for ECL according to ECL rate and the related probability weight under different scenarios. As at 31 December 2022, the provision for impairment amounted to RMB2,629,438 thousand.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 13 FINANCIAL INSTRUMENTS AND RISKS (CONT'D)

#### (2) Credit risk (Cont'd)

The Group only deals with recognised and reputable third parties on the lease business of Lease Company. According to the Group's policy, credit review is required for all customers that trade by using credit methods. The Group continuously monitors the balance of long-term lease payments receivable, to prevent the Group from exposure to significant risk of bad debts.

The loan business provided by Finance Company is dealt with the subsidiaries of Electric Holdings. The Group has established a credit quality evaluation system, setting credit limit and determining required pledge value and guarantee level based on borrower's risk level. Risk assessment includes borrower investigation, risk classification, evaluation and setting of credit limit, loan review and post-lending monitoring. The Group conducts risk assessment regularly, to ensure that the Group timely monitors potential risks and adopts proper precautions.

As at 31 December 2022, the fair value of significant collateral held by the Group as a result of the debtor's mortgage was RMB3,623,400 thousand and the risk exposure on the debt was RMB5,563,780 thousand.

As at 31 December 2022, other receivables of the Group from an associate amounted to RMB1,015,622 thousand. As for the above other receivables, the related enterprises of the associate are committed to assuming joint guarantee liabilities for outstanding amounts under guarantee.

## 13 FINANCIAL INSTRUMENTS AND RISKS (CONT'D)

## (3) Liquidity risk

Cash flow forecasting is performed by each subsidiary of the Group and aggregated by the Group's finance department in its headquarters. The Group's finance department at its headquarters monitors rolling forecasts of the Group's short-term and long-term liquidity requirements to ensure it has sufficient cash and securities that are readily convertible to cash to meet operational needs, while maintaining sufficient headroom on its undrawn committed borrowing facilities from major financial institutions so that the Group does not breach borrowing limits or covenants on any of its borrowing facilities to meet the short-term and long-term liquidity requirements.

The financial liabilities of the Group at the balance sheet date are analysed by their maturity dates below at their undiscounted contractual cash flows:

|  | 31 December 2022 |              |              |              |             |
|--|------------------|--------------|--------------|--------------|-------------|
|  | Within 1 year    | 1 to 2 years | 2 to 5 years | Over 5 years | Total       |
| Short-term borrowings  | 8,882,068        | -            | -            | -            | 8,882,068   |
| Financial liabilities held for trading and derivative financial liabilities                        | 42,467           | -            | -            | -            | 42,467      |
| Notes payable  | 16,069,558       | -            | -            | -            | 16,069,558  |
| Accounts payable   | 57,396,886       | -            | -            | -            | 57,396,886  |
| Deposits from customers, banks<br>and other financial institutions<br>Current portion of long-term | 6,258,862        | -            | -            | -            | 6,258,862   |
| borrowings   | 5,642,280        | -            | -            | -            | 5,642,280   |
| Long-term borrowings   | 755,706          | 4,830,228    | 12,062,189   | 8,395,299    | 26,043,422  |
| Bonds payable (including the current portion)  | 2,623,621        | 23,850       | 757,645      | -            | 3,405,116   |
| Long-term payables (including the current portion)   | 764,983          | 312,930      | 55,960       | 193,964      | 1,327,837   |
| Lease liabilities  | 793,997          | 466,595      | 238,112      | 190,244      | 1,688,948   |
| Other financial liabilities  | 6,280,898        | <u>-</u> _   | <u>-</u>     | <u> </u>     | 6,280,898   |
|  | 105,511,326      | 5,633,603    | 13,113,906   | 8,779,507    | 133,038,342 |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

## 13 FINANCIAL INSTRUMENTS AND RISKS (CONT'D)

### (3) Liquidity risk (Cont'd)

The financial liabilities of the Group at the balance sheet date are analysed by their maturity dates below at their undiscounted contractual cash flows (Cont'd):

|   | 31 December 2021     |              |              |              |                      |
|---|----------------------|--------------|--------------|--------------|----------------------|
|   | Within 1 year        | 1 to 2 years | 2 to 5 years | Over 5 years | Total                |
| Short-term borrowings Financial liabilities held for trading and derivative financial liabilities | 11,957,092<br>38,194 | -            | -            | -            | 11,957,092<br>38,194 |
| Notes payable   | 16,578,854           | -            | -            | -            | 16,578,854           |
| Accounts payable  | 61,303,577           | -            | -            | -            | 61,303,577           |
| Deposits from customers   | 5,354,684            | -            | -            | -            | 5,354,684            |
| Current portion of long-term borrowings   | 6,828,214            | -            | -            | -            | 6,828,214            |
| Long-term borrowings  | 809,700              | 9,737,108    | 9,023,909    | 8,099,181    | 27,669,898           |
| Bonds payable   | 103,750              | 2,599,771    | -            | -            | 2,703,521            |
| Long-term payables (including the current portion)  | 1,619,484            | 438,600      | 134,953      | 199,587      | 2,392,624            |
| Lease liabilities   | 130,368              | 120,344      | 259,468      | 214,053      | 724,233              |
| Other financial liabilities   | 6,132,925            | <u> </u>     | <u>-</u>     |              | 6,132,925            |
|   | 110,856,842          | 12,895,823   | 9,418,330    | 8,512,821    | 141,683,816          |

(i) As at the balance sheet date, the Group's financial guarantees and non-financial guarantee letters provided to external parties are analysed below based on the maximum amounts and the earliest periods in which the guarantees could be called:

|                      | 31 December 2022 |              |               |              |           |
|----------------------|------------------|--------------|---------------|--------------|-----------|
|                      | Within 1 year    | 1 to 2 years | 2 to 5 years  | Over 5 years | Total     |
| Financial guarantees | 3,701,429        |              |               |              | 3,701,429 |
|                      |                  | 31           | December 2021 |              |           |
|                      | Within 1 year    | 1 to 2 years | 2 to 5 years  | Over 5 years | Total     |
| Financial guarantees | 1,667,617        | -            | -             | -            | 1,667,617 |
| Acceptance notes     | 455,386          | =            | -             | =            | 455,386   |
|                      | 2,123,003        | -            | -             | -            | 2,123,003 |
|                      |                  |              |               |              |           |

## 13 FINANCIAL INSTRUMENTS AND RISKS (CONT'D)

## (3) Liquidity risk (Cont'd)

(ii) As at the balance sheet date, the cash flow of lease contracts signed but not yet executed by the Group is listed as follows according to the maturity date:

|   | 31 December 2022 |              |               |              |       |
|---|------------------|--------------|---------------|--------------|-------|
|   | Within 1 year    | 1 to 2 years | 2 to 5 years  | Over 5 years | Total |
| Future contractual cash flows not included in lease liabilities |                  | <u> </u>     |               |              |       |
|   |                  | 31           | December 2021 |              |       |
|   |                  |              |               |              |       |
|   | Within 1 year    | 1 to 2 years | 2 to 5 years  | Over 5 years | Total |

(iii) The analysis of repayment period of bank borrowings and other borrowings is as follows:

|               | 31 December        | 31 December 2022 |            | er 2021             |
|---------------|--------------------|------------------|------------|---------------------|
|               | Bank<br>borrowings |                  |            | Other<br>borrowings |
| Within 1 year | 15,101,201         | 11,353,717       | 18,095,041 | 9,742,512           |
| 1 to 2 years  | 4,836,612          | 490,758          | 10,860,009 | 2,750,115           |
| 2 to 5 years  | 12,081,340         | 995,813          | 9,130,270  | 331,068             |
| Over 5 years  | 8,548,616          | 190,438          | 8,365,789  | 214,053             |
|               | 40,567,769         | 13,030,726       | 46,451,109 | 13,037,748          |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 14 FAIR VALUE ESTIMATES

The level in which fair value measurement is categorised is determined by the level of the fair value hierarchy of the lowest level input that is significant to the entire fair value measurement:

Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

Level 3: Unobservable inputs for the asset or liability.

### (1) Assets measured at fair value on a recurring basis

As at 31 December 2022, the assets measured at fair value on a recurring basis by the above three levels are analysed below:

|   | Level 1   | Level 2    | Level 3   | Total      |
|---|-----------|------------|-----------|------------|
|   |           |            |           |            |
| Financial assets  |           |            |           |            |
| Financial assets held for trading -   |           |            |           |            |
| Investments in funds held for trading   | 5,921,775 | =          | -         | 5,921,775  |
| Investments in equity instruments held for trading                            | 152,688   | -          | -         | 152,688    |
| Investments in bonds held for trading   | 1,011,394 | -          | -         | 1,011,394  |
| Wealth management products  | -         | 231,175    | -         | 231,175    |
| Non-hedging derivative financial instruments                                  | -         | 340,406    | -         | 340,406    |
| Derivative financial assets -   | -         | 55,890     | -         | 55,890     |
| Receivables financing -   |           |            |           |            |
| Notes receivable measured at fair value through other comprehensive income    | -         | -          | 2,056,202 | 2,056,202  |
| Accounts receivable measured at fair value through other comprehensive income | -         | -          | 49,387    | 49,387     |
| Other current assets -  |           |            |           |            |
| Interbank deposits  | -         | 15,486,059 | -         | 15,486,059 |
| Other non-current financial assets  | 781,091   |            | 6,487,372 | 7,268,463  |
| Total assets  | 7,866,948 | 16,113,530 | 8,592,961 | 32,573,439 |

## 14 FAIR VALUE ESTIMATES (CONT'D)

## (1) Assets measured at fair value on a recurring basis (Cont'd)

As at 31 December 2022, the liabilities measured at fair value on a recurring basis by the above three levels are analysed below:

|  | Level 1 | Level 2 | Level 3 | Total  |
|--|---------|---------|---------|--------|
| Financial liabilities                  |         |         |         |        |
| Derivative financial liabilities       | -       | 10,450  | -       | 10,450 |
| Financial liabilities held for trading | -       | 32,017  | -       | 32,017 |
|  | -       | 42,467  | -       | 42,467 |

As at 31 December 2021, the assets measured at fair value on a recurring basis by the above three levels are analysed below:

|   | Level 1   | Level 2   | Level 3   | Total      |
|---|-----------|-----------|-----------|------------|
| Financial assets  |           |           |           |            |
| Financial assets held for trading -   |           |           |           |            |
| Investments in funds held for trading   | 5,754,200 | -         | -         | 5,754,200  |
| Investments in equity instruments held for trading                            | 423,721   | -         | -         | 423,721    |
| Investments in bonds held for trading   | 681,833   | -         | -         | 681,833    |
| Wealth management products  | -         | 430,793   | -         | 430,793    |
| Non-hedging derivative financial instruments                                  | -         | 312,550   | -         | 312,550    |
| Derivative financial assets -   | -         | 44,101    | -         | 44,101     |
| Receivables financing -   |           |           |           |            |
| Notes receivable measured at fair value through other comprehensive income    | -         | -         | 1,091,644 | 1,091,644  |
| Accounts receivable measured at fair value through other comprehensive income | -         | -         | 53,849    | 53,849     |
| Other current assets -  |           |           |           |            |
| Interbank deposits  | -         | 7,570,419 | -         | 7,570,419  |
| Other non-current financial assets  | 535,365   | -         | 6,431,232 | 6,966,597  |
| Other debt investments  | -         | 81,874    | -         | 81,874     |
| Total assets  | 7,395,119 | 8,439,737 | 7,576,725 | 23,411,581 |

#### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 14 FAIR VALUE ESTIMATES (CONT'D)

#### (1) Assets measured at fair value on a recurring basis (Cont'd)

As at 31 December 2021, the liabilities measured at fair value on a recurring basis by the above three levels are analysed below:

|  | Level 1      | Level 2 | Level 3 | Total  |
|--|--------------|---------|---------|--------|
| Financial liabilities                  |              |         |         |        |
| Derivative financial liabilities       | -            | 9,625   | -       | 9,625  |
| Financial liabilities held for trading | <del>_</del> | 28,569  |         | 28,569 |
|  | <u> </u>     | 38,194  | _       | 38,194 |

The Group takes the date on which events causing the transfers between the levels take place as the timing specific for recognising the transfers. There is no transfer between Level 1 and Level 2 for the current year.

The fair value of financial instruments traded in an active market is determined at the quoted market price; and the fair value of those not traded in an active market is determined by the Group using valuation techniques. For the financial assets at fair value through profit or loss which are recognised at initial recognition, the valuation models used mainly comprise Monte Carlo simulation model, and the inputs of the valuation technique mainly include stock expected yield and stock expected volatility; the fair value of debt investments and wealth management products are basically obtained from third parties' quoted prices of the same or comparable assets, and the valuation models used mainly comprise discounted cash flow model and market comparable corporate model.

The changes in Level 3 assets and liabilities are analysed below:

|   |                        |                      |                  |                             |                               |           | ns or losses<br>rent period  |                        | Changes in<br>unrealised gains<br>or losses included<br>in profit or loss for<br>the current year                  |
|---|------------------------|----------------------|------------------|-----------------------------|-------------------------------|-----------|--|------------------------|--|
|   | 31<br>December<br>2021 | Purchases            | Decrease         | Transfer<br>into Level<br>3 | Transfer<br>out of<br>Level 3 |           | Gains or losses<br>recognised<br>in other<br>comprehensive<br>income | 31<br>December<br>2022 | with respect to<br>assets still held as<br>at 31 December<br>2022 - Gains or<br>losses on changes<br>in fair value |
| Financial assets -<br>Other non-current<br>financial assets<br>Financing<br>receivables | 6,431,232<br>1,145,493 | 379,754<br>4,970,191 | -<br>(3,998,366) | -<br>-                      | -<br>-                        | (323,614) | -<br>(11,729)  | 6,487,372<br>2,105,589 | -<br>  |
|   | 7,576,725              | 5,349,945            | (3,998,366)      |                             |                               | (323,614) | (11,729)   | 8,592,961              |  |

<sup>(</sup>a) Gains or losses recognised in profit or loss are included in the income statement under the items of gains on changes in fair value.

# 14 FAIR VALUE ESTIMATES (CONT'D)

## (1) Assets measured at fair value on a recurring basis (Cont'd)

Information about the Level 3 fair value measurement is as follows:

|   |                               |   | Inputs                             |                               |                                 |                             |
|---|-------------------------------|---|------------------------------------|-------------------------------|---------------------------------|-----------------------------|
|   | Valuation<br>technique        | Fair value as at<br>31 December<br>2022 | Name                               | Scope/<br>Weighted<br>average | Relationship<br>with fair value | Observable/<br>Unobservable |
| Other non-current financial assets at fair value through profit or loss         |                               |   |                                    |                               |                                 |                             |
| -   | Recent financing price method | 1,201,106                               | Investment cost                    | 1,201,106                     | Positive correlation            | Unobservable                |
|   | Market multiple<br>method     | 2,283,749                               | Price to book ratio<br>(P/B)       | 0.9-3.6                       | Positive correlation            | Unobservable                |
|   |                               |   | Price earnings ratio<br>(PE)       | 19.1-33.7                     | Positive correlation            | Unobservable                |
|   |                               |   | Price sales ratio (PS)             | 2.9-7.4                       | Positive correlation            | Unobservable                |
|   |                               |   | Others/Scale risk discount         | 17.7%-30%                     | Negative correlation            | Unobservable                |
|   |                               |   | Liquidity discount                 | 25%-31%                       | Negative correlation            | Unobservable                |
|   | Asset-based approach          | 2,518,018                               | Discount due to<br>lack of control | 12%-15%                       | Negative correlation            | Unobservable                |
| Notes receivable measured at fair value through other comprehensive income -    | Income Approach               | 2,056,202                               | Discount rates                     | 1.34%                         | Negative<br>correlation         | Unobservable                |
| Accounts receivable measured at fair value through other comprehensive income - | Income Approach               | 49,387                                  | Discount rates                     | 4.79%-6%                      | Negative<br>correlation         | Unobservable                |
|   |                               | 8,108,462                               |                                    |                               |                                 |                             |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 14 FAIR VALUE ESTIMATES (CONT'D)

(1) Assets measured at fair value on a recurring basis (Cont'd)

Information about the Level 2 fair value measurement is as follows:

|   | -                                    |                        | Observab                                       | le inputs  |
|---|--------------------------------------|------------------------|--|--|
|   | Fair value as at 31<br>December 2022 | Valuation<br>technique | Name   | Scope/Weighted<br>average                                |
| Derivative financial assets -             |                                      |                        |  |  |
| Forward foreign exchange contracts        | 6,209                                | Income approach        | Forward exchange<br>rate of USD<br>against RMB | Range: 6.7297 -<br>7.0753<br>Weighted average:<br>6.9024 |
|   |                                      |                        | Observable inputs                              |  |
|   | Fair value as at 31<br>December 2021 | Valuation<br>technique | Name   | Scope/Weighted<br>average                                |
| Derivative financial assets -             |                                      |                        |  |  |
| Forward foreign exchange contracts        | 6,322                                | Income approach        | Forward exchange<br>rate of USD<br>against RMB | Range: 6.6726-<br>7.1847<br>Weighted average:<br>6.9006  |
| Other debt investments -                  |                                      |                        |  |  |
| Local government bonds and treasury bonds | 81,874<br>88,196                     | Market method          | Valuation of the<br>Stock Exchange             |  |

#### 14 FAIR VALUE ESTIMATES (CONT'D)

#### (2) Assets and liabilities not measured at fair value but for which the fair value is disclosed

The Group's financial assets and liabilities measured at amortised cost mainly include notes receivable, accounts receivable, other receivables, debt investments, long-term receivables, lease assets, short-term borrowings, payables, long-term borrowings, bonds payable, lease liabilities and long-term payables.

Except for financial assets and liabilities listed below, the carrying amount of other financial assets and liabilities not measured at fair value is a reasonable approximation of their fair value.

|                         | 31 Decembe                 | 31 December 2022 |                    | r 2021     |
|-------------------------|----------------------------|------------------|--------------------|------------|
|                         | Financial<br>liabilities - | Fair value       | Carrying<br>amount | Fair value |
| Financial liabilities - |                            |                  |                    |            |
| Long-term borrowings    | 21,647,690                 | 20,862,148       | 23,845,417         | 24,361,698 |
| Bonds payable           | 748,697                    | 748,310          | 2,490,445          | 2,472,522  |
|                         | 22,396,387                 | 21,610,458       | 26,335,862         | 26,834,220 |

The fair value of long-term borrowings is the present value of the contractually determined stream of future cash flows discounted at the rate of interest applied at that time by the market to instruments of comparable credit status and providing substantially the same cash flows on the same terms, and categorised within Level 2 of the fair value hierarchy.

#### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 15 CAPITAL MANAGEMENT

The Group's capital management policies aim to safeguard the Group's ability to continue as a going concern in order to provide returns for shareholders and benefits for other stakeholders, and to maintain an optimal capital structure to reduce the cost of capital.

In order to maintain or adjust the capital structure, the Group may adjust the amount of dividends paid to shareholders, refund capital to shareholders, issue new shares or sell assets to reduce debts.

The Group's total capital is calculated as 'shareholders' equity' as shown in the consolidated balance sheet. The Group is not subject to external mandatory capital requirements, and monitors capital on the basis of gearing ratio.

As at 31 December 2022 and 31 December 2021, the Group's gearing ratio is as follows:

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
|   |                  |                  |
| Interest-bearing bank borrowings and other borrowings | 35,791,159       | 42,195,848       |
| Bonds   | 3,265,305        | 2,490,445        |
| Lease liabilities                                     | 1,433,621        | 1,503,787        |
| Deposits from customers                               | 6,076,565        | 5,198,722        |
| Net liabilities                                       | 46,566,650       | 51,388,802       |
| Total equity  | 94,194,167       | 98,144,353       |
| Total equity and net liabilities                      | 140,760,817      | 149,533,155      |
| Gearing ratio   | 33.08%           | 34.37%           |

#### (1) Notes receivable

|                               | 31 December 2022 | 31 December 2021 |
|-------------------------------|------------------|------------------|
| Trade acceptance notes        | 20,421           | 31,239           |
| Bank acceptance notes         | 379,621          | 252,058          |
| Less: Provision for bad debts | (713)            | (1,250)          |
|                               | 399,329          | 282,047          |

(a) As at 31 December 2022, the Company had no pledged notes receivable.

(b) As at 31 December 2022, the Group's notes receivable endorsed or discounted but unmatured are as follows:

|                        | Derecognised | Not derecognised |
|------------------------|--------------|------------------|
| Bank acceptance notes  | 167,368      | 34,702           |
| Trade acceptance notes |              | <u> </u>         |
|                        | 167,368      | 34,702           |

### (2) Accounts receivable

|                               | 31 December 2022 | 31 December 2021 |
|-------------------------------|------------------|------------------|
| Accounts receivable           | 13,827,940       | 12,283,858       |
| Less: Provision for bad debts | (3,634,058)      | (3,692,043)      |
|                               | 10,193,882       | 8,591,815        |

|  | 31 December 2022 |                            | 31 Decemb    | er 2021                    |
|--|------------------|----------------------------|--------------|----------------------------|
|  | Book balance     | Provision for<br>bad debts | Book balance | Provision for<br>bad debts |
| Individual provision (c)(iii)                  | 2,785,043        | (2,055,318)                | 2,702,797    | (2,329,119)                |
| Sovereign credit portfolio (b)                 | 690,314          | (478,967)                  | 1,140,600    | (961,470)                  |
| Ageing grouping of accounts receivable (c)(iv) | 10,352,583       | (1,099,773)                | 8,440,461    | (401,454)                  |
| _  | 13,827,940       | (3,634,058)                | 12,283,858   | (3,692,043)                |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 16 NOTES TO THE COMPANY'S FINANCIAL STATEMENTS (CONT'D)

#### (2) Accounts receivable (Cont'd)

(a) The analysis of ageing of accounts receivable

(i) The overdue ageing of accounts receivable is analysed as follows:

|                       | 31 December 2022 | 31 December 2021 |
|-----------------------|------------------|------------------|
|                       |                  |                  |
| Not overdue           | 5,368,878        | 4,255,317        |
| Overdue within 1 year | 3,020,458        | 2,680,438        |
| Overdue 1 to 2 years  | 1,884,419        | 1,514,111        |
| Overdue 2 to 3 years  | 949,134          | 1,073,954        |
| Overdue 3 to 4 years  | 557,751          | 803,498          |
| Overdue 4 to 5 years  | 238,917          | 500,035          |
| Overdue over 5 years  | 1,808,383        | 1,456,505        |
|                       | 13,827,940       | 12,283,858       |

(ii) The ageing of accounts receivable is analysed based on invoice date as follows:

|               | 31 December 2022 | 31 December 2021 |
|---------------|------------------|------------------|
|               |                  |                  |
| Within 1 year | 4,507,892        | 4,745,167        |
| 1 to 2 years  | 3,100,550        | 3,018,747        |
| 2 to 3 years  | 2,676,259        | 1,052,157        |
| 3 to 4 years  | 868,884          | 1,061,251        |
| 4 to 5 years  | 746,610          | 871,527          |
| Over 5 years  | 1,927,745        | 1,535,009        |
|               | 13,827,940       | 12,283,858       |

(b) As at 31 December 2022, accounts receivable with a book value of RMB690,314 thousand, provision for bad debts of RMB478,967 thousand, net book value of RMB211,347 thousand (31 December 2021: book value of RMB1,140,600 thousand, provision for bad debts of RMB961,470 thousand, net book value of RMB179,130 thousand) were accounts receivable with sovereign credit risk.

#### (2) Accounts receivable (Cont'd)

(c) Provision for bad debts

(i) Movements in provision for bad debts of accounts receivable are as follows:

| 31 December 2021             | 3,692,043 |
|------------------------------|-----------|
| Reversal in the current year | (57,985)  |
| 31 December 2022             | 3,634,058 |

- (ii) For the year ended 31 December 2022, the amount of bad debt allowance reversed in was RMB57,985 thousand.
- (iii) As at 31 December 2022, accounts receivable with provision for bad debts made on the individual basis are analysed as follows:

|                       | Book balance | Lifetime ECL<br>rates | Provision for bad debts | Reason                           |
|-----------------------|--------------|-----------------------|-------------------------|----------------------------------|
| Accounts receivable 1 | 881,600      | 74.14%                | 653,619                 | Part of it will not be recovered |
| Accounts receivable 2 | 834,346      | 99.80%                | 832,664                 | Part of it will not be recovered |
| Others                | 1,069,097    | 53.23% _              | 569,035                 | Part of it will not be recovered |
|                       | 2,785,043    | _                     | 2,055,318               |                                  |

#### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 16 NOTES TO THE COMPANY'S FINANCIAL STATEMENTS (CONT'D)

#### (2) Accounts receivable (Cont'd)

(c) Provision for bad debts

(iv) As at 31 December 2022, except for the accounts receivable with sovereign credit risk mentioned in (b), accounts receivable with provision for bad debts made on the grouping basis are analysed as follows:

|                       | Book balance | Provision for bad  | debts     |
|-----------------------|--------------|--------------------|-----------|
|                       | Amount       | Lifetime ECL rates | Amount    |
| Not overdue           | 5,368,878    | 0.1%-2%            | 62,421    |
| Overdue within 1 year | 3,000,752    | 3%-10%             | 248,146   |
| Overdue 1 to 2 years  | 875,737      | 7%-22%             | 173,893   |
| Overdue 2 to 3 years  | 511,987      | 8%-35%             | 153,257   |
| Overdue 3 to 4 years  | 196,066      | 15%-68%            | 98,944    |
| Overdue 4 to 5 years  | 100,532      | 20%-90%            | 76,847    |
| Overdue over 5 years  | 298,631      | 81%-100%           | 286,265   |
|                       | 10,352,583   |                    | 1,099,773 |

(v) As at 31 December 2021, except for the accounts receivable with sovereign credit risk mentioned in (b), accounts receivable with provision for bad debts made on the grouping basis are analysed as follows:

|                       |              | 31 December 2021   |         |
|-----------------------|--------------|--------------------|---------|
|                       | Book balance | Provision for bad  | debts   |
|                       | Amount       | Lifetime ECL rates | Amount  |
| Not overdue           | 4,255,317    | 0.1%-1%            | 29,767  |
| Overdue within 1 year | 2,517,476    | 3%-10%             | 94,520  |
| Overdue 1 to 2 years  | 929,143      | 7%-22%             | 77,003  |
| Overdue 2 to 3 years  | 225,617      | 8%-21%             | 18,265  |
| Overdue 3 to 4 years  | 165,114      | 15%-65%            | 25,747  |
| Overdue 4 to 5 years  | 220,778      | 20%-90%            | 46,692  |
| Overdue over 5 years  | 127,016      | 81%-100%           | 109,460 |
|                       | 8,440,461    |                    | 401,454 |

#### (2) Accounts receivable (Cont'd)

(d) Accounts receivable derecognised due to transfer of financial assets are analysed as follows:

For the year ended 31 December 2022, the Company had no accounts receivable that were derecognised after the Company had applied a non-recourse factoring (2021: Nil).

#### (3) Other receivables

|   | 31 December 2022 | 31 December 2021 |
|---|------------------|------------------|
|   |                  |                  |
| Receivables from the Group's subsidiaries               | 9,982,082        | 11,447,941       |
| Receivables from third parties                          | 2,278,775        | 1,393,650        |
| Receivables from associates                             | 1,015,622        | 1,015,622        |
| Receivables from Electric Holdings and its subsidiaries | 2,625            | 2,625            |
| Dividends receivable                                    | 826,453          | 754,038          |
|   | 14,105,557       | 14,613,876       |
| Less: Provision for bad debts                           | (8,548,525)      | (8,241,253)      |
|   | 5,557,032        | 6,372,623        |

(a) As at 31 December 2022 receivables from Electric Holdings and its subsidiaries and dividends receivable of the Company were in Stage 1.

(b) As at 31 December 2022, other receivables with provision for bad debts made on the individual basis are analysed as follows:

|                     | Book balance | Lifetime ECL rates | Provision for bad<br>debts | Reason   |
|---------------------|--------------|--------------------|----------------------------|--|
| Other receivables 1 | 7,841,183    | 100%               | 7,841,183                  | Unrecoverable by estimation  |
| Other receivables 2 | 1,015,622    | 26%                | 260,521                    | After considering the credit situation of the debtor and the relevant credit enhancement, it is expected that part of it will not be recovered |
| Other receivables 3 | 793,781      | 34%                | 271,494                    | After considering the credit situation of the debtor and the relevant credit enhancement, it is expected that part of it will not be recovered |
| Other receivables 4 | 274,168      | 25%                | 68,542                     | After considering the credit situation of the debtor, it is expected that part of it will not be recovered                                     |
| Others              | 83,357       | 100% _             | 83,357                     | Unrecoverable by estimation  |
|                     | 10,008,111   | _                  | 8,525,097                  |  |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE COMPANY'S FINANCIAL STATEMENTS (CONT'D) 16

#### (3) Other receivables (Cont'd)

(c) Provision for losses and changes in book balance statement

As at 31 December 2022, other receivables with provision for bad debts made on the grouping basis are analysed as follows:

|  | 31           | December 202 | 22              | 31 December 2021 |                         |                 |  |  |
|--|--------------|--------------|-----------------|------------------|-------------------------|-----------------|--|--|
|  | Book balance | Provision fo | or bad debts    | Book balance     | Provision for bad debts |                 |  |  |
|  | Amount       | Amount       | Provision ratio | Amount           | Amount                  | Provision ratio |  |  |
| Stage 1 - 12 months ECL                      |              |              |                 |                  |                         |                 |  |  |
| Receivables within 1 year from third parties | 746,382      | 199          | 0%-1%           | 802,897          | 784                     | 0%-1%           |  |  |
| Stage 2 - Lifetime ECL                       |              |              |                 |                  |                         |                 |  |  |
| Receivables within 1 year from associates    |              |              | =               |                  |                         | -               |  |  |
| Stage 3 - Lifetime ECL                       |              |              |                 |                  |                         |                 |  |  |
| 1 to 2 years                                 | 44,842       | 1,397        | 0%-4%           | 411,749          | 134                     | 0%-2%           |  |  |
| 2 to 3 years                                 | 260,978      | 28           | 0%-2%           | 17,612           | -                       | 0%-2%           |  |  |
| Over 3 years                                 | 134,255      | 21,804       | 0%-20%          | 161,392          | 21,405                  | 0%-20%          |  |  |
|  | 440,075      | 23,229       |                 | 590,753          | 21,539                  |                 |  |  |

### (3) Other receivables (Cont'd)

(d) Movements in provision for bad debts of other receivables:

|                                  | Stage 1<br>12-month ECL | Stage 2<br>Lifetime ECL | Stage 3<br>Lifetime ECL | Total     |
|----------------------------------|-------------------------|-------------------------|-------------------------|-----------|
|                                  |                         |                         |                         |           |
| Balance at 31 December 2021      | 784                     | -                       | 8,240,469               | 8,241,253 |
| Net increase in the current year | (585)                   | <u>-</u>                | 307,857                 | 307,272   |
| Balance at 31 December 2022      | 199                     | _                       | 8,548,326               | 8,548,525 |

(e) As at 31 December 2022, other receivables from top five debtors in respect of outstanding balance are analysed as follows:

|                     | Nature                                    | Balance    | Ageing        | % of the total balance of other receivables | Provision for bad debts |
|---------------------|---|------------|---------------|---|-------------------------|
|                     |   |            |               |   |                         |
| Other receivables 1 | Receivables from the Group's subsidiaries | 7,841,183  | 3 to 4 years  | 56%   | 7,841,183               |
| Other receivables 2 | Related-party loans                       | 1,015,622  | 2 to 3 years  | 7%  | 260,521                 |
| Other receivables 3 | Purchase deposits                         | 793,781    | Within 1 year | 6%  | 271,493                 |
| Other receivables 4 | Purchase deposits                         | 274,169    | Within 1 year | 2%  | 68,542                  |
| Other receivables 5 | Export tax rebates                        | 118,123    | Within 1 year | 1%_   |                         |
|                     |   | 10,042,878 |               | _   | 8,441,739               |

### (4) Long-term equity investments

|  | 31 December 2022 | 31 December 2021 |
|--|------------------|------------------|
| Subsidiaries (a)   | 46,190,874       | 46,807,497       |
| Joint ventures (b)   | 552,543          | 454,207          |
| Associates (c)   | 2,266,196        | 2,152,197        |
|  | 49,009,613       | 49,413,901       |
| Less: Provision for impairment of long-term equity investments | (933,823)        | (216,801)        |
|  | 48,075,790       | 49,197,100       |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE COMPANY'S FINANCIAL STATEMENTS (CONT'D) 16

(4) Long-term equity investments (Cont'd)

(a) Subsidiaries

|   | Movements in the current year |                  |                         |                         |                          |                 |        |                        |                     |                          | Cash  |
|---|-------------------------------|------------------|-------------------------|-------------------------|--------------------------|-----------------|--------|------------------------|---------------------|--------------------------|---|
|   | 31<br>December<br>2021        | New<br>additions | Increase in investments | Decrease in investments | Provision for impairment | Other decreases | Others | 31<br>December<br>2022 | Shareholding<br>(%) | Provision for impairment | dividends<br>declared in<br>the current<br>year |
| Shanghai Electric Wind Power  | 4725700                       |                  |                         |                         |                          |                 | 2.704  | 4 720 502              | 600/                |                          | 01.000  |
| Group Co., Ltd. Shanghai Electric Hong Kong Co.,  | 4,725,799                     | -                | -                       | -                       | -                        | -               |        | 4,728,503              | 60%                 | -                        | 91,080  |
| Ltd. Shenzhen Yinghe Technology Co.,  | 4,455,493                     | -                | _                       | -                       | -                        | _               | 190    | 4,455,683              | 100%                | -                        | -   |
| Ltd.  | 4,107,488                     | -                | -                       | -                       | (314,692)                | -               | -      | 3,792,796              | 28%                 | (314,692)                | 18,477  |
| Shanghai Electric Leasing Co., Ltd.   | 3,091,379                     | -                | -                       | -                       | -                        | -               | -      | 3,091,379              | 100%                | -                        | -   |
| Shanghai Electric Investment Co., Ltd.  | 2,889,047                     | -                | -                       | -                       | -                        | -               | -      | 2,889,047              | 100%                | -                        | -   |
| Shanghai Electric Group Asset<br>Management Co., Ltd.                                     | 2,221,529                     | -                | -                       | -                       | -                        | -               | 682    | 2,222,211              | 100%                | -                        | -   |
| Shanghai Electric Nuclear Power Equipment Co., Ltd.                                       | 2,096,479                     | -                | -                       | -                       | -                        | -               | 952    | 2,097,431              | 58%                 | -                        | (110,000)                                       |
| Shanghai Prime Mingyu<br>Machinery Technology Co., Ltd.                                   | 2,690,416                     | -                | -                       | -                       | -                        | -               | -      | 2,690,416              | 96%                 | -                        | -   |
| Shanghai Mechanical & Electrical Industry Co., Ltd.                                       | 1,671,054                     | -                | -                       | -                       | -                        | -               | -      | 1,671,054              | 49%                 | -                        | 142,411   |
| Shanghai Electric Industrial Co.,<br>Ltd.   | 1,356,038                     | -                | -                       | -                       | -                        | -               | 379    | 1,356,417              | 52%                 | -                        | 193,599   |
| Shanghai Electric Group Finance<br>Co., Ltd.  | 1,331,019                     | -                | -                       | -                       | -                        | -               | 895    | 1,331,914              | 75%                 | -                        | 164,175   |
| Shanghai Institute of Mechanical & Electric Engineering Co., Ltd.                         | 1,105,281                     | -                | -                       | -                       | -                        | -               | -      | 1,105,281              | 51%                 | -                        | -   |
| Shanghai Boiler Works Co., Ltd.<br>Shanghai Electric Science and                          | 1,087,602                     | -                | -                       | -                       | -                        | -               | 1,403  | 1,089,005              | 100%                | -                        | -   |
| Technology Venture Capital Co.,<br>Ltd.   | 1,024,087                     | -                | 13,600                  | -                       | -                        | -               | 18     | 1,037,705              | 100%                | -                        | -   |
| Shanghai Electric Transmission & Distribution Group Co., Ltd. Shanghai Electric (Nantong) | 1,016,843                     | -                | -                       | -                       | -                        | -               | 1,027  | 1,017,870              | 50%                 | -                        | -   |
| Technology Innovation Centre Co., Ltd.  | 826,000                       | -                | -                       | -                       | -                        | -               | -      | 826,000                | 100%                | -                        | -   |
| Shanghai Electric Group Shanghai<br>Electric Machinery Co., Ltd.                          | 754,231                       | -                | -                       | -                       | -                        | -               | -      | 754,231                | 100%                | -                        | -   |
| Shanghai Turbine Company, Ltd.<br>Suzhou Thvow Technology Co.,                            | 728,140                       | -                | 44,567                  | -                       | -                        | -               | -      | 772,707                | 100%                | -                        | =   |
| Ltd.  | 664,943                       | -                | -                       | (664,943)               | -                        | -               | -      | -                      | 15%                 | -                        | -   |

## (4) Long-term equity investments (Cont'd)

(a) Subsidiaries (Cont'd)

|   |                        |                  | Mo                      | vements in t            | he current y             | ear             |        |                        |                     |                          | Cash  |
|---|------------------------|------------------|-------------------------|-------------------------|--------------------------|-----------------|--------|------------------------|---------------------|--------------------------|---|
|   | 31<br>December<br>2021 | New<br>additions | Increase in investments | Decrease in investments | Provision for impairment | Other decreases | Others | 31<br>December<br>2022 | Shareholding<br>(%) | Provision for impairment | dividends<br>declared in<br>the current<br>year |
| Shanghai No.1 Machine Tool  |                        |                  |                         |                         |                          |                 |        |                        |                     |                          |   |
| Works Ltd.  | 621,528                | -                | -                       | -                       | -                        | -               | 503    | 622,031                | 100%                | -                        |   |
| Shanghai Electric (Qidong)<br>Water Development Co., Ltd.               | 516,046                | -                | -                       | -                       | -                        | -               | -      | 516,046                | 98%                 | -                        |   |
| Shanghai Denso Fuel<br>Injection Co., Ltd.                              | 454,960                | _                | _                       | _                       | _                        | _               | _      | 454,960                | 61%                 | _                        | 270,189   |
| Shanghai Electric SHMP  |                        |                  |                         |                         |                          |                 |        |                        |                     |                          | 270,102   |
| Casting & Forging Co., Ltd.   | 451,697                | -                | -                       | -                       | -                        | -               | 361    | 452,058                | 100%                | -                        | -   |
| Shanghai Xinji Machine Tool<br>Co., Ltd.                                | 428,730                | -                | -                       | -                       | -                        | -               | -      | 428,730                | 100%                | -                        | -   |
| Shanghai Electric Lingang<br>Heavy Machinery Equipment<br>Co., Ltd.     | 409,535                | -                | -                       | _                       | -                        | -               | 290    | 409,825                | 100%                | -                        |   |
| Shanghai Electric<br>Environmental Thermal Power<br>(Nantong) Co., Ltd. |                        | -                | -                       | -                       | -                        | -               | -      | 364,663                |                     | -                        |   |
| Shanghai Electric Gas Turbine Co., Ltd.                                 | 360,000                | -                | -                       | -                       | (360,000)                | -               | -      | -                      | 60%                 | (360,000)                | -   |
| Shanghai Jinshajiang Asset<br>Management Co., Ltd.                      | 356,995                | -                | -                       | -                       | -                        | -               | -      | 356,995                | 54%                 | -                        |   |
| Shanghai Power Station<br>Auxiliary Machinery Factory<br>Co., Ltd.      | 356,979                | -                | -                       | -                       | -                        | -               | 101    | 357,080                | 100%                | -                        |   |
| Shanghai Electric (Huaibei)<br>Water Development Co., Ltd.              | 324,000                | -                | -                       | -                       | -                        | -               | -      | 324,000                | 90%                 | -                        | -   |
| Shanghai Electric (Anhui)<br>Investment Co., Ltd.                       | 300,000                | -                | -                       | -                       | -                        | -               | -      | 300,000                | 100%                | -                        | -   |
| Shanghai Electric Guoxuan<br>New Energy Technology Co.,<br>Ltd.         | 237,000                | -                | -                       | _                       | -                        | -               | -      | 237,000                | 47%                 | -                        | -   |
| Zhangjiagang Twentsche Cable Co., Ltd.                                  | 234,144                | -                | -                       | =                       | -                        | =               | -      | 234,144                | 95%                 | -                        | 18,002  |
| Shanghai Machine Tool Works<br>Co., Ltd.                                | 209,390                | -                | -                       | -                       | -                        | -               | 457    | 209,847                | 100%                | -                        |   |
| Shanghai Electric (Xinjiang)<br>New Energy Investment Co.,<br>Ltd.      | 202,000                | -                | -                       | -                       | -                        | -               | -      | 202,000                | 100%                | -                        |   |
| Shanghai Electric Group<br>Automation Engineering Co.,<br>Ltd.          | 200,000                | -                | -                       | -                       | -                        | -               | -      | 200,000                | 100%                | -                        |   |

# FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE COMPANY'S FINANCIAL STATEMENTS (CONT'D) 16

(4) Long-term equity investments (Cont'd)

(a) Subsidiaries (Cont'd)

|  |                        |                  | Mov                     | vements in t            | he current ye            | ear             |        |                        |                     |                          | Cash<br>dividends                  |
|--|------------------------|------------------|-------------------------|-------------------------|--------------------------|-----------------|--------|------------------------|---------------------|--------------------------|------------------------------------|
|  | 31<br>December<br>2021 | New<br>additions | Increase in investments | Decrease in investments | Provision for impairment | Other decreases | Others | 31<br>December<br>2022 | Shareholding<br>(%) | Provision for impairment | declared in<br>the current<br>year |
| Thales SEC Transportation System<br>Limited Company<br>Shanghai Electric Group (Dandong)                   | 193,348                | -                | -                       | -                       | -                        | -               | 170    | 193,518                | 50%                 | -                        | 35,995                             |
| Environmental Protection Technology Co., Ltd.  | 155,130                | -                | -                       | -                       | -                        | -               | -      | 155,130                | 88%                 | -                        | -                                  |
| Shanghai Electric Group Digital<br>Technology Co., Ltd.  | 153,629                | -                | 7,500                   | -                       | -                        | -               | 410    | 161,539                | 100%                | -                        | -                                  |
| Shanghai Electric SHMP Pulverising & Special Equipment Co., Ltd.   | 151,749                | -                | -                       | -                       | -                        | -               | 371    | 152,120                | 100%                | =                        | -                                  |
| Shanghai Machinery Manufacturing<br>Technology Research Institute Co., Ltd.                                | 136,175                | -                | -                       | -                       | -                        | -               | -      | 136,175                | 100%                | -                        | -                                  |
| Shanghai Electric Group (Huaiyuan)<br>Water Treatment Co., Ltd.  | 127,399                | -                | -                       | -                       | -                        | -               | -      | 127,399                | 89%                 | -                        | -                                  |
| Shanghai Electric-SPX Engineering & Technologies Co., Ltd.   | 126,621                | -                | -                       | -                       | -                        | -               | 95     | 126,716                | 55%                 | (14,775)                 | -                                  |
| Shanghai Electric Group (Ma'anshan)<br>Water Treatment Co., Ltd.   | 108,900                | -                | -                       | -                       | -                        | -               | -      | 108,900                | 90%                 | -                        | -                                  |
| Shanghai Electric Automation Design and Research Institute Co., Ltd.                                       | 102,947                | -                | -                       | -                       | -                        | -               | 246    | 103,193                | 100%                | -                        | -                                  |
| Shanghai Electric Nuclear Power<br>Group Co., Ltd.   | 93,280                 | -                | 30,000                  | -                       | -                        | -               | -      | 123,280                | 100%                | -                        | -                                  |
| Shanghai Electric (Rudong) Water<br>Development Co., Ltd.  | 91,456                 | -                | -                       | -                       | -                        | -               | -      | 91,456                 | 90%                 | -                        | -                                  |
| Shanghai Electric (Rudong) Water<br>Environment Treatment Co., Ltd.<br>Shanghai Electric Group (Fengcheng) | 79,676                 | -                | -                       | -                       | -                        | -               | -      | 79,676                 | 95%                 | -                        | -                                  |
| Environmental Protection Energy Co.,<br>Ltd.   | 62,902                 | -                | -                       | -                       | -                        | -               | -      | 62,902                 | 70%                 | -                        | -                                  |
| Shanghai Electric (India) Co., Ltd.  | 62,285                 | -                | -                       | -                       | -                        | -               | -      | 62,285                 | 100%                | -                        | -                                  |
| Shanghai Electric Group Enterprise<br>Service Co., Ltd.  | 58,145                 | -                | -                       | -                       | -                        | -               | -      | 58,145                 | 80%                 | -                        | -                                  |
| Shanghai Centrifugal Machinery<br>Research Institute Co., Ltd.   | 56,258                 | -                | -                       | -                       | -                        | -               | -      | 56,258                 | 100%                | (14,629)                 | 13,831                             |
| Shanghai Electric Group Intelligent<br>Transportation Technology Co., Ltd.                                 | 53,235                 | -                | -                       | -                       | -                        | -               | -      | 53,235                 | 52%                 | -                        | -                                  |

## (4) Long-term equity investments (Cont'd)

(a) Subsidiaries (Cont'd)

|  | -                      |                  | Mov                     | ements in th            | ne current ye            | ear             |           |                        |                     |                          | Cash<br>dividends                  |
|--|------------------------|------------------|-------------------------|-------------------------|--------------------------|-----------------|-----------|------------------------|---------------------|--------------------------|------------------------------------|
|  | 31<br>December<br>2021 | New<br>additions | Increase in investments | Decrease in investments | Provision for impairment | Other decreases | Others    | 31<br>December<br>2022 | Shareholding<br>(%) | Provision for impairment | declared in<br>the current<br>year |
|  |                        |                  |                         |                         |                          |                 |           |                        |                     |                          |                                    |
| Shanghai Electric New Era Co., Ltd.  | 50,000                 | -                | -                       | -                       | -                        | -               | -         | 50,000                 | 100%                | -                        |                                    |
| Shanghai Electric Group (Suning)<br>Environmental Protection Technology<br>Co., Ltd. | 50,000                 | -                | 62,968                  | -                       | -                        | -               | -         | 112,968                | 100%                | -                        |                                    |
| Shanghai Guangye Optical Cable Co.,<br>Ltd.  | 44,649                 | -                | -                       | -                       | (31,881)                 | -               | -         | 12,768                 | 55%                 | (31,881)                 |                                    |
| Shanghai Electric Group Battery<br>Technology Co., Ltd.                              | 44,000                 | -                | -                       | -                       | -                        | -               | -         | 44,000                 | 55%                 | -                        |                                    |
| Shanghai Mutual Inductor Factory Co.,<br>Ltd.  | 43,479                 | -                | -                       | -                       | -                        | -               | -         | 43,479                 | 100%                | (29,667)                 |                                    |
| Shanghai Electric (Anhui) Energy<br>Storage Technology Co., Ltd.                     | 30,000                 | -                | -                       | -                       | -                        | -               | -         | 30,000                 | 60%                 | -                        |                                    |
| Shanghai Capital Numerical Control<br>Co., Ltd.                                      | 26,279                 | -                | -                       | -                       | -                        | -               | -         | 26,279                 | 100%                | -                        |                                    |
| Shanghai Electric Fuji Electric<br>Technology Co.,Ltd.                               | 25,969                 | -                | -                       | -                       | -                        | -               | 77        | 26,046                 | 51%                 | -                        |                                    |
| Shanghai Electric Distributed Energy<br>Technology Co., Ltd.                         | 25,250                 | -                | -                       | -                       | -                        | -               | -         | 25,250                 | 70%                 | -                        |                                    |
| Shanghai Electric Group Medical<br>Technology Development Co., Ltd.                  | 25,000                 | -                | -                       | -                       | -                        | -               | -         | 25,000                 | 100%                | -                        |                                    |
| Qingdao Huachen Weiye Power<br>Technology Engineering Co., Ltd.                      | 23,000                 | -                | -                       | -                       | -                        | -               | -         | 23,000                 | 46%                 | -                        |                                    |
| Sida Machine Tool Manufacturing Co.,<br>Ltd.   | 22,600                 | -                | -                       | -                       | -                        | -               | -         | 22,600                 | 100%                | (27,692)                 |                                    |
| Shanghai Shendiantong Rail Transit<br>Technology Co., Ltd.                           | 15,300                 | -                | -                       | -                       | -                        | -               | -         | 15,300                 | 51%                 | -                        |                                    |
| Shanghai Electric Liangyuan<br>Photothermal Engineering Co., Ltd.                    | 10,449                 | -                | -                       | -                       | (10,449)                 | -               | -         | -                      | 50%                 | (10,449)                 |                                    |
| Shanghai Electric Group Europa Co.,<br>Ltd.  | 9,899                  | -                | -                       | -                       | -                        | -               | -         | 9,899                  | 100%                | -                        |                                    |
| Shanghai Electric Panama Co., Ltd.   | 4,434                  | -                | -                       | -                       | -                        | -               | -         | 4,434                  | 100%                | -                        |                                    |
| Shanghai Electric Communication<br>Technology Co., Ltd.                              | -                      | -                | -                       | -                       | -                        | -               | -         | -                      | 40%                 | (20,000)                 |                                    |
| Others   | 456,718                | 80,030           | 6,754                   | (9,200)                 | -                        | -               | (199,230) | 335,072                | _                   | (110,038)                |                                    |
|  | 46,590,696             | 80,030           | 165,389                 | (674,143)               | (717,022)                | -               | (187,899) | 45,257,051             | _                   | (933,823)                | 837,75                             |

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE COMPANY'S FINANCIAL STATEMENTS (CONT'D) 16

(4) Long-term equity investments (Cont'd)

(b) Joint ventures

|  |                        |                         |                         |   | N                                   | lovements in the  | current year  |   |   |                          |        |                        |                          |
|--|------------------------|-------------------------|-------------------------|---|-------------------------------------|---|---|---|---|--------------------------|--------|------------------------|--------------------------|
|  | 31<br>December<br>2021 | Increase in investments | Decrease in investments | Share of<br>net profit/<br>(loss) under<br>equity<br>method | Share of other comprehensive income | Subsidiary<br>combined<br>from business<br>combination<br>involving<br>enterprises not<br>under common<br>control | New<br>associate<br>combined<br>from<br>enterprises<br>not under<br>common<br>control | Share<br>of other<br>changes in<br>equity | Cash<br>dividends<br>or profits<br>declared | Provision for impairment | Others | 31<br>December<br>2022 | Provision for impairment |
| Shanghai Fanuc<br>Intelligent Machines Co.,<br>Ltd.                  | 382,807                | -                       | -                       | - 153,676   |                                     |   | -   | -   | (100,748)                                   | -                        | -      | 435,735                | -                        |
| Jinzhai Zhichu New<br>Energy Technology Co.,<br>Ltd.                 | 71,400                 | -                       | -                       | - (47)  |                                     |   | -   | -   |   |                          | -      | 71,353                 | -                        |
| Shanghai Shendian<br>Green Power Technology<br>Development Co., Ltd. |                        | 45,000                  |                         | 455   |                                     |   |   |   |   | <del>-</del>             |        | 45.455                 |                          |
|  | 454,207                | 45,000                  |                         | 154,084   | _                                   |   | _   |   | (100,748)                                   |                          | -      | 552,543                |                          |

# (4) Long-term equity investments (Cont'd)

(c) Associates

|  | _                      |                         |                         |   | Мо                                  | vements in t  | ne current y  | ear   |   |   |                                |         |                        |                                |
|--|------------------------|-------------------------|-------------------------|---|-------------------------------------|---|---|---|---|---|--------------------------------|---------|------------------------|--------------------------------|
|  | 31<br>December<br>2021 | Increase in investments | Decrease in investments | Share of net<br>profit/(loss)<br>under equity<br>method | Share of other comprehensive income | Subsidiary<br>combined<br>from<br>business<br>combination<br>involving<br>enterprises<br>not under<br>common<br>control | New<br>associate<br>combined<br>from<br>enterprises<br>not under<br>common<br>control | Associates<br>transferred<br>to other<br>non-current<br>financial<br>assets | Share<br>of other<br>changes<br>in equity | Cash<br>dividends<br>or profits<br>declared | Provision<br>for<br>impairment | Others  | 31<br>December<br>2022 | Provision<br>for<br>impairment |
| Shanghai Rail Traffic  |                        |                         |                         |   |                                     |   |   |   |   |   |                                |         |                        |                                |
| Equipment Development Co., Ltd.  | 571,814                | -                       | -                       | 22,432  | -                                   | -   | -   | -   | -   | (13,206)                                    | -                              | -       | 581,040                |                                |
| Zhejiang Zhuji Lianchuang<br>Yongjun Equity Investment<br>Partnership (Limited<br>Partnership)<br>Shanghai Siemens | 194,125                | -                       |                         | (1,593)   | -                                   |   | -   |   | -   | -   | -                              | -       | 192,532                |                                |
| Switchgear Co., Ltd.   | 189,174                | -                       | -                       | 95,855  | -                                   | -   | -   | -   | -   | (101,814)                                   | -                              | -       | 183,215                |                                |
| Legend Electric (Shenyang)<br>Co., Ltd.  | 142,408                | -                       | -                       | 46,445  | -                                   | -   | -   | -   | -   | (54,600)                                    | -                              | -       | 134,253                |                                |
| KSB Shanghai Pumps Co.,<br>Ltd.  | 132,487                | -                       | -                       | 13,618  | -                                   | -   | -   | -   | -   | (17,600)                                    | -                              | -       | 128,505                |                                |
| Shanghai Schneider Power<br>Distribution Electrical<br>Apparatus Co., Ltd.   | 86,955                 | _                       |                         | 104,906   | _                                   |   | _   |   | _   | (113,953)                                   | _                              | _       | 77,908                 |                                |
| Shanghai Schneider<br>Industrial Control Co., Ltd.   | 83,844                 | -                       | _                       | 59,152  | -                                   |   | -   |   | -   | (=0.004)                                    | -                              | -       | 70,090                 |                                |
| Shanghai ABB Transformers Co., Ltd.  | 82,975                 | -                       |                         | 20,216  | -                                   |   | -   |   | -   | (33,792)                                    | -                              | -       | 69,399                 |                                |
| SEC Alstom (Shanghai<br>Baoshan) Transformers Co.,<br>Ltd.   |                        |                         |                         |   |                                     |   |   |   |   |   |                                |         |                        |                                |
| Shanghai Cooper Power Capacitor Co., Ltd.  | 76,450                 | -                       | -                       | 376   | -                                   | -   | -   | -   | -   | =   | -                              | -       | 76,826                 | -                              |
| Shanghai Ansaldo Gas<br>Turbine Co., Ltd.  | 48,738<br>33,694       | _                       | _                       | 6,782<br>5,832  | -                                   |   | -   |   | _   | _   | -                              | _       | 55,520<br>39,526       |                                |
| Shanghai Electric Fuji<br>Electric Technology (Wuxi)   | JJ,UJ4                 |                         |                         | 5,032   |                                     |   |   |   |   | -   |                                |         | 37,320                 |                                |
| Co., Ltd.  | 31,190                 | -                       | -                       | 1,465   | -                                   | -   | -   | -   | -   |   | -                              | -       | 32,655                 |                                |
| Others   | 478,343                | 9,200                   |                         | 97,912  |                                     |   |   |   |   | (160,728)                                   |                                | 200,000 | 624,727                |                                |
|  | 2,152,197              | 9,200                   | -                       | 473,398   | -                                   | -   | -   | -   | -   | (568,599)                                   | -                              | 200.000 | 2,266,196              | _                              |

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

### 16 NOTES TO THE COMPANY'S FINANCIAL STATEMENTS (CONT'D)

### (5) Capital surplus

|  | 31 December<br>2021 | Increase in the current year | Decrease in the current year | 31 December<br>2022 |
|--|---------------------|------------------------------|------------------------------|---------------------|
|  |                     |                              |                              |                     |
| Share premium (Note 4(51))   | 16,853,555          | -                            | -                            | 16,853,555          |
| Effect of convertible bond on equity   | 3,381,592           | -                            | -                            | 3,381,592           |
| Capital contribution by shareholders due to equity incentive  Amount recorded in owners' equity arising from | 256,109             | -                            | (256,109)                    | -                   |
| share-based payment arrangements (Note 4(51))  | 152,309             | 32,276                       | -                            | 184,585             |
| Others   | 173,104             | <u> </u>                     | <u> </u>                     | 173,104             |
| _  | 20,816,669          | 32,276                       | (256,109)                    | 20,592,836          |
|  |                     |                              |                              |                     |
|  | 31 December<br>2020 | Increase in the current year | Decrease in the current year | 31 December<br>2021 |
|  |                     |                              |                              |                     |
| Share premium (Note 4(51))   | 16,853,555          | -                            | -                            | 16,853,555          |
| Effect of convertible bond on equity   | 1,214,919           | 2,166,673                    | -                            | 3,381,592           |
| Capital contribution by shareholders due to equity incentive   | 256,109             | -                            | -                            | 256,109             |
| Amount recorded in owners' equity arising from share-based payment arrangements (Note 4(51))                 | 157,815             | (5,506)                      | -                            | 152,309             |
| Others   | 173,104             | <u> </u>                     | <u> </u>                     | 173,104             |
|  | 18,655,502          | 2,161,167                    | _                            | 20,816,669          |

### (6) Other comprehensive income

|   | Other comp                           | orehensive inco                       | ome in the bal  | ance sheet                    | Other comprehensive income in the income statement |   |   |  |  |  |
|---|--------------------------------------|---------------------------------------|---|-------------------------------|--|---|---|--|--|--|
|   | 31<br>December<br>2021               | Increase<br>in the<br>current<br>year | Reclassification<br>of other<br>comprehensive<br>income | 31<br>December<br>2022        |  | Less: Transfer-out<br>of previous other<br>comprehensive<br>income in the<br>current year | Less:<br>Income<br>tax<br>expenses                    | Other<br>comprehensive<br>income after<br>income tax     |  |  |
| Other comprehensive income items which will be reclassified to profit or loss Provision for credit impairment of other debt investments and receivables financing (Note) Share of other comprehensive income items which will be  | -                                    | -                                     | -   | _                             | -  | _   | -   | -  |  |  |
| reclassified to profit or   | <b></b>                              |                                       |   | (                             |  |   |   |  |  |  |
| loss under equity method  | (30,627)                             |                                       |   | (30,627)                      |  |   |   | -  |  |  |
|   | (30,627)                             | -                                     | -   | (30,627)                      | -  | -   | _   | -  |  |  |
|   |                                      |                                       |   |                               |  |   |   |  |  |  |
|   |                                      | orehensive inco                       |   | ance sheet                    | Amount   | Less: Transfer-out  | ne in the incom                                       |  |  |  |
|   |                                      | Increase<br>in the<br>current<br>year | Reclassification of other                               | ance sheet  31  December 2021 | Amount   |   | ne in the incom<br>Less:<br>Income<br>tax<br>expenses | e statement  Other comprehensive income after income tax |  |  |
| Other comprehensive income items which will be reclassified to profit or loss Provision for credit impairment of other debt investments and receivables financing (Note) Share of other comprehensive income items which will be reclassified to profit or loss under equity method | Other comp<br>31<br>December<br>2020 | Increase<br>in the<br>current         | Reclassification<br>of other<br>comprehensive           | 31<br>December<br>2021        | Amount incurred before income                      | Less: Transfer-out<br>of previous other<br>comprehensive<br>income in the                 | Less:<br>Income<br>tax                                | Other comprehensive income after                         |  |  |
| income items which will<br>be reclassified to profit or<br>loss<br>Provision for credit<br>impairment of other<br>debt investments and<br>receivables financing<br>(Note)<br>Share of other<br>comprehensive income<br>items which will be  | Other comp<br>31<br>December<br>2020 | Increase<br>in the<br>current         | Reclassification<br>of other<br>comprehensive<br>income | 31<br>December                | Amount incurred before income                      | Less: Transfer-out<br>of previous other<br>comprehensive<br>income in the                 | Less:<br>Income<br>tax                                | Other comprehensive income after                         |  |  |

Note: In 2021, as a result of changes in business model for accounts receivable, the Company reclassified related receivables financing to accounts receivable and transferred out the accumulated gains or losses previously included in other comprehensive income, with a corresponding adjustment made to the carrying amount of accounts receivable.

## FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### NOTES TO THE COMPANY'S FINANCIAL STATEMENTS (CONT'D) 16

#### (7) Surplus reserve

|                           | 31 December 2021 | Increase in the current<br>year | Decrease in the current year | 31 December 2022 |
|---------------------------|------------------|---------------------------------|------------------------------|------------------|
|                           |                  |                                 |                              |                  |
| Statutory surplus reserve | 2,639,825        |                                 |                              | 2,639,825        |
|                           |                  |                                 |                              |                  |
|                           |                  | Increase in the current         | Decrease in the              |                  |
|                           | 31 December 2020 | year                            | current year                 | 31 December 2021 |
|                           |                  |                                 |                              |                  |
| Statutory surplus reserve | 2,639,825        |                                 |                              | 2,639,825        |

### (8) Retained earnings

|  | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--|--|--|
|  |  |  |
| Retained earnings at the beginning of the year           | 1,905,104                              | 12,794,008                             |
| Add: Net loss in the current year                        | (3,131,640)                            | (9,761,529)                            |
| Dividends payable to the Company's ordinary shareholders |  | (1,127,375)                            |
| Retained earnings at the end of the year                 | (1,226,536)                            | 1,905,104                              |

### (9) Revenue and operating cost

|                                      | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|--------------------------------------|--|--|
|                                      |  |  |
| Revenue from main operations         | 20,993,013                             | 17,947,614                             |
| Revenue from other operations        | 249,978                                | 344,376                                |
|                                      | 21,242,991                             | 18,291,990                             |
| Operating cost from main operations  | 21,322,330                             | 19,459,590                             |
| Operating cost from other operations | 104,071                                | 279,704                                |
|                                      | 21,426,401                             | 19,739,294                             |

Revenue from main operations refers to sales income from energy equipment, integration services, etc. Operating cost refers to cost of products related to main operations.

#### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 16 NOTES TO THE COMPANY'S FINANCIAL STATEMENTS (CONT'D)

#### (9) Revenue and operating cost (Cont'd)

|   |                        | For the year ended 31 December 20                  |               |           |  |               |                    |         |            |
|---|------------------------|--|---------------|-----------|--|---------------|--------------------|---------|------------|
|   | Sale of goods Projects |  |               |           |  |               |                    |         |            |
|   | China                  | Other Asian<br>countries/<br>geographical<br>areas | Other regions | China     | Other Asian<br>countries/<br>geographical<br>areas | Other regions | Labour<br>services | Others  | Total      |
| Revenue<br>Including:<br>Recognised                     | 14,617,372             | 86,621   | 1,049         | 1,629,675 | 4,272,623  | 380,055       | 5,618              | -       | 20,993,013 |
| at a time<br>point<br>Recognised<br>within a<br>certain | 14,617,372             | 86,621   | 1,049         | -         | -  | -             | 5,618              | -       | 14,710,660 |
| period  | -                      | -  | -             | 1,629,675 | 4,272,623  | 380,055       | -                  | -       | 6,282,353  |
| Revenue from other operations                           |                        |  |               |           |  |               |                    | 249,978 | 249,978    |
|   | 14,617,372             | 86,621   | 1,049         | 1,629,675 | 4,272,623  | 380,055       | 5,618              | 249,978 | 21,242,991 |

|           |  | )22   |   |   |  |   |  |   |
|-----------|--|---|---|---|--|---|--|---|
| Sa        | le of good   | s   |   | Projects  |  |   |  |   |
| China     | Other Asian<br>countries/<br>geographical<br>areas | Other regions   | China   | Other Asian<br>countries/<br>geographical<br>areas  | Other regions  | Labour<br>services  | Others   | Total   |
| 8,679,312 | 18,598   | 1,226   | 4,705,057   | 3,902,137   | 569,228  | 72,056  | -  | 17,947,614  |
| 8,679,312 | 18,598   | 1,226   | -   | -   | -  | 58,226  | -  | 8,757,362   |
| -         | -  | -   | 4,705,057   | 3,902,137   | 569,228  | 13,830  | -  | 9,190,252   |
| 9 670 312 | 19 509   | 1 226   | 4 705 057   |   | - 560 228  | -<br>72.056   | 344,376  | 344,376<br>18,291,990   |
|           | <b>China</b> 8,679,312                             | China Other Asian countries/ geographical areas  8,679,312 18,598  8,679,312 18,598 | Other Asian countries/geographical areas   Other Asian countries/geographical areas   Other regions | Sale of goods           Other Asian countries/ geographical China         Other regions         China           8,679,312         18,598         1,226         4,705,057           8,679,312         18,598         1,226         -           -         -         4,705,057           -         -         4,705,057 | Sale of goods         Projects           Other Asian countries/ geographical areas         Other Asian countries/ geographical areas         Other Asian countries/ geographical areas           8,679,312         18,598         1,226         4,705,057         3,902,137           8,679,312         18,598         1,226         -         -         -           -         -         4,705,057         3,902,137           -         -         4,705,057         3,902,137 | Sale of goods         Projects           China         Other Asian countries/ geographical areas         Other regions           8,679,312         18,598         1,226         4,705,057         3,902,137         569,228           -         -         -         4,705,057         3,902,137         569,228           -         -         -         4,705,057         3,902,137         569,228 | China         Other Asian countries/ geographical areas         Other regions         China         Other Asian countries/ geographical areas         Other Rsian countries/ geographical geographical areas         Other Asian countries/ services         Association areas         Association areas | Other Asian countries/ geographical areas   Other services   Others |

- As at 31 December 2022, the Company's income corresponding to the performance obligations that have been (i) signed but not yet fulfilled or not yet completed was RMB11,576,106 thousand, of which RMB4,042,626 thousand was expected to be recognised in 2022 and RMB7,533,480 thousand was expected to be recognised in 2023 and beyond.
- For the year ended 31 December 2022, the Company had no extra award due to the completion of services in (ii) advance.

### (10) Investment income

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
|   |  |  |
| Income from long-term equity investments accounted for using the cost method            | 837,759                                | 2,295,452                              |
| Income from long-term equity investments accounted for using the equity method          | 627,482                                | (610,422)                              |
| Interest income of entrusted loans  | 256,304                                | 367,703                                |
| Investment income obtained during the holding of other non-<br>current financial assets | -                                      | 68,651                                 |
| Investment (losses)/income from disposal of subsidiaries                                | (101,359)                              | 1,502,073                              |
| Investment losses from disposal of associates   | -                                      | (12,434)                               |
| Investment income from disposal of other non-current financial assets                   | <u></u>                                | 15,555                                 |
| _   | 1,620,186                              | 3,626,578                              |

# SUPPLEMENTARY INFORMATION TO THE FINANCIAL STATEMENTS

### FOR THE YEAR ENDED 31 DECEMBER 2022

(All amounts in RMB'000 Yuan unless otherwise stated)

#### 1 Statement of non-recurring profit or loss

|   | For the year ended 31<br>December 2022 | For the year ended 31<br>December 2021 |
|---|--|--|
| Profit or loss from disposal of non-current assets  | 560,440                                | 183,064                                |
| Government grants recognised in profit or loss for the current period   | 1,012,719                              | 929,196                                |
| Profit or loss from debt restructuring<br>Recombination expenses, such as staff resettlement expenditure<br>and integration charges   | 359                                    | 341                                    |
| Gains or losses arising from changes in fair value of financial assets or liabilities at fair value through profit or loss, and investment income from disposal of financial assets or liabilities at fair value through profit or loss, debt investments, other debt investments and other non-current financial assets besides those relevant to the effective hedging business related to the Company's normal operations and investment business of Finance Company | (58,326)                               | 872,034                                |
| Reversal of provision for impairment of receivables tested for impairment on the individual basis  Reversal of provision for impairment of contract assets tested for   | 325,592                                | 32,913                                 |
| impairment on the individual basis  | 38,311                                 | 5,318                                  |
| Investment income from disposal of subsidiaries   | (56,045)                               | 935,262                                |
| Non-operating income and expenses other than aforesaid items  | 48,801                                 | 548,485                                |
|   | 1,871,851                              | 3,506,613                              |
| Effect of income tax  | (391,624)                              | (875,970)                              |
| Effect of minority interests (net of tax)   | (336,959)                              | (729,043)                              |
| _   | 1,143,268                              | 1,901,600                              |

Basis for preparation of statement of non-recurring profit or loss

Pursuant to the Explanatory Announcement for Information Disclosure of Companies Offering Securities to the Public No. 1 - Non-recurring Profit or Loss (2008) issued by China Securities Regulatory Commission, non-recurring profit or loss refers to profit or loss arising from transactions and events those are not directly related to the Company's normal course of business, also from transactions and events those even are related to the Company's normal course of business, but will interfere with the right judgement of users of the financial statements on the Company's operation performance and profitability due to their special nature and occasional occurrence.

### 2 Reconciliation of statement prepared under HKFRS and CAS

On 15 April 2020, with the approval of the Company's extraordinary general meeting, the Group will use the consolidated financial statements prepared in accordance with China's accounting standards for business enterprises as information disclosure in the stock exchange of Hong Kong since 2019. Therefore, the Group does not need to prepare the difference adjustment statement of domestic and foreign financial statements in the current period.

#### 3 Return on equity and earnings per share

|   | Weighted average return on equity (%)        |  | Earnings per share (RMB Yuan)                |  |  |  |
|---|--|--|--|--|--|--|
|   |  |  | Basic earnings per share                     |  | Diluted earnings per share                   |  |
|   | For the year<br>ended 31<br>December<br>2022 | For the year<br>ended 31<br>December<br>2021 | For the year<br>ended 31<br>December<br>2022 | For the year<br>ended 31<br>December<br>2021 | For the year<br>ended 31<br>December<br>2022 | For the year<br>ended 31<br>December<br>2021 |
| Net profit<br>attributable<br>to ordinary<br>shareholders of<br>the Company<br>Net profit<br>attributable<br>to ordinary<br>shareholders of<br>the Company<br>after deducting | -6.31  | -15.69                                       | -0.23  | -0.64  | -0.23  | -0.64  |
| non-recurring<br>profit or loss   | -8.33  | -18.64                                       | -0.30  | -0.76  | -0.30  | -0.76  |