
GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains explanations of certain technical terms used in this prospectus in connection with our Group and our business. As such, these terms and their meanings may not correspond to standard industry meanings or usage of these terms.

“approved capacity”	the capacity of our projects approved by NDRC or the relevant provincial DRC based on the estimated capacity to be reached after construction work of the projects is completed and the projects become fully operational
“attributable installed capacity” or “attributable capacity under construction”	the aggregate installed capacity or capacity under construction (as the case may be) of our project companies or individual projects under one project company in which we have an interest in proportion to the level of our ownership in each of those companies. It is calculated by multiplying our percentage ownership in each project company in which we have an interest, whether or not such interest is a controlling interest, by its total installed capacity or total capacity under construction (as the case may be). Both attributable installed capacity and attributable capacity under construction include the capacity of both our subsidiaries and associated companies but only to the extent of our equity ownership
“attributable installed heat energy generation capacity” or “attributable heat energy generation capacity under construction”	the aggregate installed heat energy generation capacity or heat energy generation capacity under construction (as the case may be) of our project companies or individual projects under one project company in which we have an interest in proportion to the level of our ownership in each of those companies. It is calculated by multiplying our percentage ownership in each project company in which we have an interest, whether or not such interest is a controlling interest, by its total installed heat energy generation capacity or total heat energy generation capacity under construction (as the case may be). Both attributable installed heat energy generation capacity and attributable heat energy generation capacity under construction include the capacity of both our subsidiaries and associated companies but only to the extent of our equity ownership

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“auxiliary electricity”	electricity consumed by a power plant in the course of generation and transmission
“availability factor”	$(\text{Available Hours}/\text{Total Hours}) \times 100\%$. Available Hours means the hours when the wind turbine or the power plant is considered as available to produce power; Total Hours means the total hours during the availability measurement period
“average consolidated installed capacity”	the aggregate amount of consolidated installed capacity by the end of each month in a specified period (in MW) divided by the number of months in the same period
“average consolidated installed heat energy generation capacity”	the aggregate amount of consolidated installed heat energy generation capacity by the end of each month in a specified period (in MW) divided by the number of months in the same period
“average utilization hours”	the consolidated gross power generation in a specified period (in MWh or GWh) divided by the average consolidated installed capacity in the same period (in MW or GW)
“biomass”	plant material, vegetation, or agricultural waste used as a fuel or energy source
“capacity under construction”	the capacity of our power plants where construction work has commenced and where we have obtained project approval from the NDRC or the relevant provincial DRC but which have not commenced commercial operation
“CDM”	the Clean Development Mechanism, an arrangement under the Kyoto Protocol allowing industrialized countries to invest in projects that reduce greenhouse gas emissions in developing countries in order to earn emission credits
“CDM EB”	the CDM Executive Board, which supervises the CDM under the authority and guidance of the Conference of the Parties to the United Nation Framework Convention on Climate Change
“CERs”	certified emission reductions, which are carbon credits issued by CDM EB for emission reductions achieved by CDM projects and verified by a DOE under the Kyoto Protocol

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“clean energy”	energy, that when generated, causes little or no harm to the environment, including, among others, wind, natural gas and hydropower energy generated using fuel efficient technologies that reduce pollutants
“coal heat value”	the amount of potential energy in coal that can be converted into heat energy
“cogeneration” or “cogen”	the use of a heat engine or a power plant to simultaneously generate both electricity and heat
“combined cycle”	a gas turbine generator generates electricity and the heat is used to make steam to generate additional electricity via a steam turbine, thereby increasing the efficiency of electricity generation
“commercial operation date” or “COD”	the date a power plant commences commercial operations; usually determined following the end of construction and acceptance test to confirm plant actual generating capacity and operating characteristics; and upon the issuance of certificates/ consent by regulators
“connected capacity”	the capacity of those wind turbines or power generators that have been completely assembled and erected and which have been connected to the power grid or the construction of the auxiliary power transmission project within its power plant or wind farm has been completed and ready to be connected; connected capacity is used to provide an understanding of both China’s wind farm construction and the status of development of its corresponding power grid constructions, in light of the currently noteworthy grid congestion problems throughout China. Compared to connected capacity, installed capacity is used to measure the capacity of the Company’s power generating projects, and is the basis of the Company’s measurement of its operational data
“consolidated gross power generation” or “consolidated net power generation”	the aggregate gross power generation or net power generation (as the case may be) of our project companies that we fully consolidate in our consolidated financial statements for a specified period

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“consolidated installed capacity,” “consolidated capacity under construction”, “consolidated connected capacity” or “consolidated estimated capacity”	the aggregate installed capacity, capacity under construction, connected capacity or estimated capacity (as the case may be) of our project companies that we fully consolidate in our consolidated financial statements only. It is calculated by including 100% of the installed capacity, capacity under construction, connected capacity or estimated capacity of our project companies that we fully consolidate in our consolidated financial statements and are deemed as our subsidiaries. Consolidated installed capacity, consolidated capacity under construction, consolidated connected capacity and consolidated estimated capacity do not include the capacity of our associated companies
“consolidated installed heat energy generation capacity” or “consolidated heat energy generation capacity under construction”	the aggregate installed heat energy generation capacity or heat energy generation capacity under construction (as the case may be) of our project companies that we fully consolidate in our consolidated financial statements only. It is calculated by including 100% of the installed heat energy generation capacity or heat energy generation capacity under construction of our project companies that we fully consolidate in our consolidated financial statements and are deemed as our subsidiaries. Consolidated installed heat energy generation capacity and consolidated heat energy generation capacity under construction do not include the capacity of our associated companies
“desulphurization”	chemical process, to remove sulphur dioxide (SO ₂) during fuel combustion
“dispatch”	the schedule of production for all the generating units on a power system, generally varying at short notice to match production with power requirements. As a verb, to dispatch a plant means to direct the plant to operate
“dispatch priority”	the ranking or preference of one producer or source of electricity generation capacity over other available producers or sources of electricity generation capacity
“DOE”	designated operating entity accredited for monitoring CDM projects under the Kyoto Protocol

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“electricity sale”	the actual amount of electricity sold by a power plant in a particular period of time, which equals gross power generation less auxiliary electricity and transmission loss
“estimated capacity”	the capacity of those wind turbines or power generators of our pipeline projects that we estimate
“excess output”	the amount by which the total output of a power plant in a particular year exceeds its planned output for such year
“g”	metric gram
“gangue”	waste substances in metallic ore
“gross power generation”	for a specified period, the total amount of electricity produced by a power plant in that period, including auxiliary electricity
“GW”	unit of energy, gigawatt. 1 GW = 1,000 MW
“GWh”	unit of energy, gigawatt-hour. 1 GWh = 1,000 MWh
“heat energy generation capacity under construction”	the capacity to generate heat energy of our gas-fired cogeneration plants and heat energy generation plant where the construction work has commenced and where we have obtained project approval from the NDRC or the relevant provincial DRC but which have not commenced commercial operation
“HESA”	heat energy supply agreements
“installed capacity”	the capacity of those wind turbines or power generators that have been completely assembled and erected and which have been commissioned and started commercial production of electricity
“installed heat energy generation capacity”	the capacity to generate heat energy of those gas-steam combined cycle cogeneration systems (including boiler) that have been completely assembled and which have been commissioned and started commercial production of heat energy
“IPP”	independent power producer
“Kcal”	unit of energy, kilocalorie. 1 Kcal = 1,000 calorie
“kg”	unit of weight, kilogram. 1 kg = 1,000 g

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“KGJ”	unit of energy, kilo gigajoule. 1 KGJ = 10^{12} joule
“KJ”	unit of energy, kilojoule. 1 KJ = 1,000 joule
“kV”	unit of voltage, kilovolt. 1 kV = 1,000 volts
“kW”	unit of energy, kilowatt. 1 kW = 1,000 watts
“kWh”	unit of energy, kilowatt-hour. The standard unit of energy used in the electric power industry. One kilowatt-hour is the amount of energy that would be produced by a generator producing one thousand watts for one hour
“Kyoto Protocol”	a protocol to the United Nations Framework Convention on Climate Change and was adopted on December 11, 1997
“MW”	unit of energy, megawatt. 1 MW = 1,000 kW The installed capacity of power plants is generally expressed in MW
“MWh”	unit of energy, megawatt-hour. 1 MWh = 1,000 kWh
“net power generation”	for a specified period, the total amount of electricity delivered by a seller to the agreed delivery points in that period, which equals to gross power generation less (i) auxiliary electricity and (ii) transmission loss. Income attributable to the sales of electricity generated during the construction and testing period is not included in the revenue of electricity sales, but is offset against the cost of property, plant and equipment
“net standard coal consumption rate”	measured in grams/kWh and represents the weight of standard coal consumed in a year or period divided by net power generation in that year or period
“net steam extraction”	the actual amount of steam sold by a plant in a particular period of time, which equals total steam output less losses incurred during the transmission from the plant to the steam customer
“operating projects”	projects that the construction work has been fully completed, and all the generators or wind turbines installed in the project have started commercial production of electricity

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“peak shaving”	as the electricity load in a power grid varies frequently, the power plants within the grid coverage are required to alter their generator output accordingly to maintain the stability of the grid, which is known as “peak shaving”
“pipeline projects”	power projects that have been identified and reserved for future development pursuant to the energy investment and development agreements that (i) we entered into with various levels of local government under which we are authorized to develop wind farms or power plants at specified sites with certain estimated total capacity or (ii) third parties entered into with various levels of local government under which such third parties are authorized to develop wind farms or power plants at specified sites with certain estimated total capacity; such third parties having undertaken to assign the development rights to us. We classify our wind power pipeline projects into “Tier 1,” “Tier 2” and “Tier 3”
“planned output”	the amount of power sold by a power plant in accordance with annually determined target gross power generation level in a particular year, which equals total output less excess output and output subject to competitive bidding
“PPA”	power purchase agreement
“projects under construction”	projects for which the construction work on the roads, foundations or electrical infrastructure has commenced, and the project company has received the project approval from the NDRC or provincial DRC
“rated wind speed”	the minimum wind speed below which a wind turbine cannot achieve its maximum capacity under standard circumstances
“renewable energy sources”	sustainable sources that are regenerative or, for all practical purposes, cannot be depleted, such as wind, water or sunlight
“sq. m.” or “m ² ”	square meters
“standard coal”	coal with an energy content of 7,000 Kcal/kg
“ton”	metric ton

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“total installed capacity” or “total capacity under construction”	the aggregate installed capacity or capacity under construction (as the case may be) of our project companies or individual projects under one project company, which is calculated by including 100% of the installed capacity or capacity under construction of the project companies in which we have an interest, regardless of the level of our ownership in each of those companies. Both total installed capacity and total capacity under construction include the capacity of both our subsidiaries and associated companies
“total installed heat energy generation capacity” or “total heat energy generation capacity under construction”	the aggregate installed heat energy generation capacity or heat energy generation capacity under construction (as the case may be) of our project companies or individual projects under one project company, which is calculated by including 100% of the installed heat energy generation capacity or heat energy generation capacity under construction of the project companies in which we have an interest, regardless of the level of our ownership in each of those companies. Both total installed heat energy generation capacity and total heat energy generation capacity under construction include the capacity of both our subsidiaries and associated companies
“total technically exploitable capacity”	the amount of the gross theoretical capacity that can be exploited within the limits of current technology
“TWh”	unit of energy, terawatt-hour. 1 TWh = 1 billion kWh
“utilization hours”	The gross electricity generation in a specified period divided by the average installed capacity in the same period. Utilization hours is a way of measuring the volume of energy generated
“VERs”	Voluntary Emission Reductions that are carbon credits which are not mandated by any law or regulation, but originate from an organization’s desire to take active part in climate change mitigation efforts
“wind power density”	measured in watts per square meter (W/m ²) and is an indication of how much energy is available at the site for conversion by a wind turbine