# Project Profiles Hongkong Electric / Infrastructure Investments



#### Hongkong Electric, Hong Kong

CKI shareholding	38.87%
Installed capacity	3,305 MW
Business	Exclusive right to generate and distribute electricity to Hong Kong Island, Ap Lei Chau and Lamma Island
	Over 100 years of profitable operation since 1890 Scheme of Control renewed to 2008
2001 net profit	HK\$6,507 million

#### **Envestra Limited, Australia**

CKI shareholding	Approximately 19%
Business	Distribution of natural gas in the states of
	South Australia, Queensland, the Northern
	Territory, Victoria and New South Wales
Natural gas distribution network	17,500 km
Consumer coverage	875,000 consumers





#### **ETSA Utilities, South Australia, Australia**

CKI shareholding	50% (another 50% held by Hongkong
	Electric)
Business	To operate the electricity distribution network
	in the state of South Australia for 200 years
Electricity distribution network	75,050 km
Consumer coverage	747,000 consumers

#### Powercor Australia Limited, Victoria, Australia

CKI shareholding	50% (another 50% held by Hongkong Electric)
Business	To operate the electricity distribution network covering an area of over 150,000 square km in the state of Victoria.
Electricity distribution network	80,000 km
Consumer coverage	590,000 distribution customers





#### Fushun Cogen Power Plants, Liaoning

Location	Fushun, Liaoning Province
Total capacity	150 MW
Joint venture contract date	1997
Joint venture expiring	2017
Operational status	Operational
Total project cost	HK\$690 million
CKI's interest	HK\$414 million
Interest in JV	60%

#### **Qinyang Power Plants, Henan**

Location	Qinyang, Henan Province
Total capacity	110 MW
Joint venture contract date	1997
Joint venture expiring	2017
Operational status	Operational
Total project cost	HK\$457 million
CKI's interest	HK\$224 million
Interest in JV	49%





## Shantou Chaoyang Power Plant, Guangdong

Location	Shantou, Guangdong Province
Total capacity	90 MW
Joint venture contract date	1993
Joint venture expiring	2010
Operational status	Operational
Total project cost	HK\$383 million
CKI's interest	HK\$230 million
Interest in JV	60%

## Shantou Chenghai Power Plant, Guangdong

Location	Shantou, Guangdong Province
Total capacity	75 MW
Joint venture contract date	1993
Joint venture expiring	2010
Operational status	Operational
Total project cost	HK\$320 million
CKI's interest	HK\$192 million
Interest in JV	60%





## Shantou Tuopu Power Plant, Guangdong

Location	Shantou, Guangdong Province
Total capacity	114 MW
Joint venture contract date	1993
Joint venture expiring	2010
Operational status	Operational
Total project cost	HK\$485 million
CKI's interest	HK\$291 million
Interest in JV	60%

# Siping Cogen Power Plants, Jilin

Location	Siping, Jilin Province
Total capacity	200 MW
Joint venture contract date	1997
Joint venture expiring	2018
Operational status	Operational
Total project cost	HK\$1,610 million
CKI's interest	HK\$725 million
Interest in JV	45%





# Zhuhai Power Plant, Guangdong

Location	Zhuhai, Guangdong Province
Total capacity	1,400 MW
Joint venture contract date	1995
Joint venture expiring	2019
Operational status	Operational
Total project cost	HK\$9,493 million
CKI's interest	HK\$1,284 million
Interest in JV	45%



## Eastern Harbour Crossing Rail Tunnel, Hong Kong

CKI shareholding	50%
Road type	Rail tunnel
Length	2.2 km
Rail franchise period	1986 - 2008

# Changsha Wujialing and Wuyilu Bridges, Hunan

Location	Changsha, Hunan Province
Road type	Bridge
Length	5 km
No. of lanes	Dual two-lane
Joint venture contract date	1997
Joint venture expiring	2022
Operational status	Operational
Total project cost	HK\$465 million
CKI's interest	HK\$206 million
Interest in JV	44.2%





#### Guangzhou East-South-West Ring Road, Guangdong

Location	Guangzhou, Guangdong Province
Road type	Expressway
Length	39 km
No. of lanes	Dual three-lane
Joint venture contract date	1997
Joint venture expiring	2032
Operational status	Operational
Total project cost	HK\$4,220 million
CKI's interest	HK\$1,169 million
Interest in JV	44.4%



# Jiangmen Chaolian Bridge, Guangdong

Location	Jiangmen, Guangdong Province
Road type	Bridge
Length	2 km
No. of lanes	Dual two-lane
Joint venture contract date	1997
Joint venture expiring	2028
Operational status	Operational
Total project cost	HK\$130 million
CKI's interest	HK\$65 million
Interest in JV	50%

# Jiangmen Jianghe Highway, Guangdong

Location	Jiangmen, Guangdong Province
Road type	Expressway
Length	20 km
No. of lanes	Dual two-lane
Joint venture contract date	1996
Joint venture expiring	2028
Operational status	Operational
Total project cost	HK\$421 million
CKI's interest	HK\$211 million
Interest in JV	50%





# Jiangmen Jiangsha Highway, Guangdong

Location	Jiangmen, Guangdong Province
Road type	Class 1 highway
Length	21 km
No. of lanes	Dual two-lane
Joint venture contract date	1996
Joint venture expiring	2026
Operational status	Operational
Total project cost	HK\$207 million
CKI's interest	HK\$103 million
Interest in JV	50%



## Nanhai Road Network, Guangdong

Location	Nanhai, Guangdong Province
Road type	Class 1 road
Length	91 km
No. of lanes	Dual two/three-lane
Joint venture contract date	1996
Joint venture expiring	2020 - 2024
<b>Operational status/Operation commencing</b>	Operational/2002
Total project cost	HK\$1,624 million
CKI's interest	HK\$903 million
Interest in JV	49% - 64.4%

# National Highway 107 (Zhumadian Sections), Henan

Location	Zhumadian, Henan Province
Road type	Class 2 highway
Length	114 km
No. of lanes	Dual two-lane
Joint venture contract date	1997
Joint venture expiring	2024
Operational status	Operational
Total project cost	HK\$461 million
CKI's interest	HK\$304 million
Interest in JV	66%





# Panyu Beidou Bridge, Guangdong

Location	Panyu, Guangdong Province
Road type	Bridge
Length	3 km
No. of lanes	Dual three-lane
Joint venture contract date	1999
Joint venture expiring	2024
Operational status	Operational
Total project cost	HK\$164 million
CKI's interest	HK\$66 million
Interest in JV	40%



## Shantou Bay Bridge, Guangdong

Location	Shantou, Guangdong Province
Road type	Bridge
Length	6 km
No. of lanes	Dual three-lane
Joint venture contract date	1993
Joint venture expiring	2028
Operational status	Operational
Total project cost	HK\$665 million
CKI's interest	HK\$200 million
Interest in JV	30%

# Shen-Shan Highway (Eastern Section), Guangdong

Location	Lufeng/Shantou, Guangdong Province
Road type	Expressway
Length	140 km
No. of lanes	Dual two-lane
Joint venture contract date	1993
Joint venture expiring	2028
Operational status	Operational
Total project cost	HK\$2,619 million
CKI's interest	HK\$877 million
Interest in JV	33.5%





# Shenyang Changqing Bridge, Liaoning

Location	Shenyang, Liaoning Province
Road type	Bridge
Length	3 km
No. of lanes	Dual three-lane
Joint venture contract date	1996
Joint venture expiring	2028
Operational status	Operational
Total project cost	HK\$269 million
CKI's interest	HK\$81 million
Interest in JV	30%



# Shenyang Da Ba Road and South-West Elevated Sections, Liaoning

Location	Shenyang, Liaoning Province
Road type	Class 1 highway
Length	23 km
No. of lanes	Dual three-lane
Joint venture contract date	1996 & 1997
Joint venture expiring	2027
Operational status	Operational
Total project cost	HK\$1,504 million
CKI's interest	HK\$451 million
Interest in JV	30%

## Shenyang Gongnong Bridge, Liaoning

Location	Shenyang, Liaoning Province
Road type	Bridge
Length	1 km
No. of lanes	Dual three-lane
Joint venture contract date	1996
Joint venture expiring	2028
Operational status	Operational
Total project cost	HK\$121 million
CKI's interest	HK\$36 million
Interest in JV	30%





#### Shenyang Shensu Expressway, Liaoning

Location	Shenyang, Liaoning Province
Road type	Class 1 highway
Length	12 km
No. of lanes	Dual three-lane
Joint venture contract date	1996
Joint venture expiring	2028
Operational status	Operational
Total project cost	HK\$395 million
CKI's interest	HK\$118 million
Interest in JV	30%



## Tangshan Tangle Road, Hebei

Location	Tangshan, Hebei Province
Road type	Class 2 highway
Length	100 km
No. of lanes	Dual one-lane
Joint venture contract date	1997
Joint venture expiring	2019
Operational status	Operational
Total project cost	HK\$187 million
CKI's interest	HK\$95 million
Interest in JV	51%

# Zengcheng Lixin Road, Guangdong

Location	Zengcheng, Guangdong Province
Road type	Class 1 highway
Length	30 km
No. of lanes	Dual two-lane
Joint venture contract date	1997
Joint venture expiring	2022
Operational status	Operational
Total project cost	HK\$200 million
CKI's interest	HK\$102 million
Interest in JV	51%



# Project Profiles Infrastructure Materials and Infrastructure-related Businesses



#### Anderson Asphalt, Anderson Asia, Hong Kong

Total capacity: 1.5 million tonnes per annum	
Founded in 1977	
One of Hong Kong's largest asphalt producers	
Specially designed mastic asphalt for Tsing Ma Bridge, Jiangyin Bridge and	
Irtysh River Bridge	
Operates in Hebei, Shandong and Jiangsu provinces in China	

#### Asia Stone, Anderson Asia, Hong Kong

Total capacity: 2 million tonnes per annum	
Origins date back to 1968	
One of Hong Kong's four contract quarries	
Sole distributor of a PRC quarry in Hong Kong	
Aggregates mainly for in-house purpose	





#### Bonntile, Anderson Asia, Hong Kong

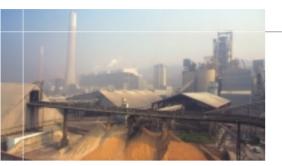
- Established in 1973
- Exterior wall spray-coating system specialist

Sole distributor for Hong Kong, Macau and the Mainland for a leading Japanese spray-coating manufacturer since 1998

#### Ready Mixed Concrete, Anderson Asia, Hong Kong

Total capacity: 4.7 million cubic meters per annum	
One of Hong Kong's largest concrete producers	
11 strategically-located batching plants throughout Hong Kong	
Over 220 mixer trucks	
The only commercial producer of high performance and strength concrete (100+ MPa)	
since 1997	
Leader in product innovation	





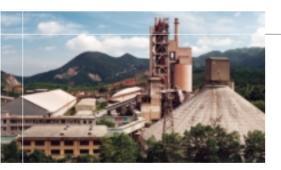
#### **Green Island Cement, Hong Kong**

- Total capacity: 1.5 million tonnes (clinker), 2.5 million tonnes (cement grinding) per annum Origins date back to 1887
- Hang Seng constituent stock prior to privatisation in 1987
- Only integrated cement producer in Hong Kong
- About one-third Hong Kong market share
- Only producer of high early strength and low alkaline cement in Hong Kong

#### Shantou Cement Grinding Plant, Guangdong

Location : Shantou, Guangdong Province Total capacity: 600,000 tonnes per annum Clinker grinding facilities, commissioning 1999 Produce blended cement under the Golden Eagle brand name CKI's interest: 100%





#### Guangdong GITIC Green Island Cement Co. Ltd., Guangdong

- Location: Yunfu, Guangdong Province
- Total capacity: 680,000 tonnes per annum

Cement production facilities upgraded in 1998 to produce high-quality cement

CKI's interest: 67%

# Project Profiles Infrastructure Materials and Infrastructure-related Businesses



#### **Siquijor Limestone Quarry, Philippines**

Location: Siquijor, Philippines
Total capacity: 5 million tonnes per annum
Limestone quarry acquired in 1995 for 25 years
CKI's interest: 40%

#### Polyphalt Inc., Canada

CKI shareholding	63.5%	T + T
Business	Develops and commercialises polymer	I INCOMENT
	modified asphalt technology, products and	
	services. The Company blends several of its	the state of the second
	asphalt technologies with plastics and	CAT
	rubbers, including recycled materials.	
Licensee locations	13 licensees in North America, Northern	
	Europe, Australia and Asia.	



#### Stuart Energy Systems Corp., Canada

CKI shareholding	12.5%
Business	Develops and supplies hydrogen generation
	& supply systems through its proprietary
	water electrolysis technology
CKI's distribution right	To market Stuart Energy's technology and
	products in Asia Pacific on an exclusive
	basis until 2012



# Yueyang Water Plants, Hunan

Location	Yueyang, Hunan Province
Total capacity	400,000 tonnes per day
Joint venture contract date	1998
Joint venture expiring	2016
Operational status	Operational
Total project cost	HK\$140 million
CKI's interest	HK\$69 million
Interest in JV	49%

# bioSecure Systems Limited, Hong Kong

CKI shareholding	62%
Business	Develops and supplies biometrics products
	and systems (including the exclusively
	licensed fingerprint matching technology
	from Chinese University of Hong Kong and
	through partnership with world leading
	biometrics technology providers).
Applications	Multiple security applications including
	access control, time and attendance records,
	smart ID cards, law enforcement system,
	e-commerce, etc.



# e-Smart System Inc., Hong Kong

CKI shareholding	50%	
Business	Applications of the patented "EYECON"	
	microprocessor-based contactless smart card	
	technology in the Asia Pacific Region.	
Applications	Multiple applications including stored value,	
	fare collection, access control, time and	
	attendance record, loyalty programmes, web	
	transactions, and national identification.	