

# PROJECT PROFILES

## Investment in POWER ASSETS



### **POWER ASSETS HOLDINGS LIMITED** *HONG KONG*

Power Assets Holdings Limited is a global investor in power and utility-related businesses with investments in electricity generation, transmission and distribution, renewable energy, gas distribution and energy-from-waste

#### **HK OPERATIONS**

##### **Business**

Owns 49.9% HKEI which supplies electricity to Hong Kong Island and Lamma Island

##### **Installed capacity**

3,736 MW

##### **Consumer coverage**

More than 569,000 customers

#### **OPERATIONS OUTSIDE HK**

##### **Business**

Power Assets has also established a strong global presence with investments in the United Kingdom, Australia, New Zealand, the Netherlands, Mainland China, Canada and Thailand, bringing sustainable energy and lighting up the lives of millions around the world

##### **CKI's shareholding**

38.87%

## Infrastructure Investment in UNITED KINGDOM



### **UK POWER NETWORKS HOLDINGS LIMITED** *THE UNITED KINGDOM*

#### **Business**

One of UK's largest power distributors comprises three regional networks with a distribution area that covers London, South East England and the East of England; and non-regulated business comprising commercial contracts to distribute electricity to a number of privately owned sites

#### **Network length**

Underground – 134,767 km

Overhead – 47,391 km

#### **Consumer coverage**

Approximately 8 million customers

#### **CKI's shareholding**

40% (another 40% held by Power Assets)



### **NORTHUMBRIAN WATER GROUP LIMITED** *THE UNITED KINGDOM*

#### **Business**

One of the ten regulated water and sewerage companies in England and Wales. It supplies water and sewerage services in the North East of England and supplies water services to the South East of England

#### **Network length**

Water mains – 25,545 km

Sewers – 29,724 km

Water treatment works – 57

Sewage treatment works – 418

Water service reservoirs – 338

#### **Consumer coverage**

Serves a total population of 4.5 million

#### **CKI's shareholding**

40%

## PROJECT PROFILES

### Infrastructure Investment in UNITED KINGDOM (CONT'D)



#### **NORTHERN GAS NETWORKS LIMITED** *THE UNITED KINGDOM*

##### **Business**

One of the eight major gas distribution networks in the United Kingdom

##### **Natural gas distribution network**

37,000 km

##### **Consumer coverage**

Serves a total population of 6.7 million

##### **CKI's shareholding**

47.1% (another 41.3% held by Power Assets)



#### **SEABANK POWER LIMITED** *BRISTOL, THE UNITED KINGDOM*

##### **Business**

Owns and operates Seabank Power Station near Bristol. The electricity is sold under a long-term contract to SSE Energy Supply Ltd.

##### **Consumer coverage**

Approximately 1,140 MW

##### **CKI's shareholding**

25% (another 25% held by Power Assets)



#### **WALES & WEST UTILITIES LIMITED** *THE UNITED KINGDOM*

##### **Business**

A gas distribution network that serves Wales and the South West of England

##### **Natural gas distribution network**

35,000 km

##### **Consumer coverage**

Serves a total population of 7.5 million

##### **CKI's shareholding**

30% (another 30% held by Power Assets)



#### **SOUTHERN WATER SERVICES LIMITED** *THE UNITED KINGDOM*

##### **Business**

Supplies water and waste water services to the South East of England

##### **Length of mains/sewers**

Water mains – 13,700 km

Length of sewers – 39,000 km

##### **Consumer coverage**

Water – Serves a population of 2.4 million

Recycles wastewater – Serves a population of 4.5 million

##### **CKI's shareholding**

4.75%

## Infrastructure Investment in AUSTRALIA



### SA POWER NETWORKS SOUTH AUSTRALIA, AUSTRALIA

#### Business

Primary electricity distribution business for the state of South Australia

#### Electricity distribution network

More than 87,500 km

#### Consumer coverage

Approximately 839,000 customers

#### CKI's shareholding

23.07% (another 27.93% held by Power Assets)



### CITIPOWER I PTY LTD. VICTORIA, AUSTRALIA

#### Business

Operates the electricity distribution network in the CBD and inner suburban areas of Melbourne, Victoria

#### Electricity distribution network

Approximately 6,500 km

#### Consumer coverage

Approximately 320,000 customers

#### CKI's shareholding

23.07% (another 27.93% held by Power Assets)



### POWERCOR AUSTRALIA LIMITED VICTORIA, AUSTRALIA

#### Business

Operates a major electricity distribution network, covering an area of 150,000 sq km in the state of Victoria

#### Electricity distribution network

Approximately 84,000 km

#### Consumer coverage

Approximately 750,000 customers

#### CKI's shareholding

23.07% (another 27.93% held by Power Assets)



### TRANSMISSION OPERATIONS (AUSTRALIA) PTY LTD VICTORIA, AUSTRALIA

#### Business

To operate a transmission link which transports renewable energy from the wind farm to Victoria's power grid. The project was completed in November 2013.

#### Electricity transmission network

21 km

#### CKI's shareholding

50% (another 50% held by Power Assets)

## PROJECT PROFILES

### Infrastructure Investment in AUSTRALIA (CONT'D)



#### **ENVESTRA LIMITED** *AUSTRALIA*

##### **Business**

One of Australia's largest distributors of natural gas

##### **Natural gas distribution network**

About 22,500 km

##### **Consumer coverage**

Over 1.2 million customers

##### **CKI's shareholding**

Approximately 17.5%

### Infrastructure Investment in NEW ZEALAND



#### **WELLINGTON ELECTRICITY LINES LIMITED** *WELLINGTON, NEW ZEALAND*

##### **Business**

Operates the electricity distribution network in New Zealand's capital city, Wellington, and the surrounding greater Wellington area

##### **Electricity distribution network**

Over 4,600 km

##### **Consumer coverage**

About 165,000 customers

##### **CKI's shareholding**

50% (another 50% held by Power Assets)



#### **SPARK INFRASTRUCTURE GROUP** *AUSTRALIA*

##### **Business**

An infrastructure company listed in Australia with seed assets being a 49% stake in each of SA Power Networks, Powercor and CitiPower

##### **CKI's shareholding**

8.5%



#### **ENVIRO WASTE SERVICES LIMITED** *NEW ZEALAND*

##### **Business**

A diversified, vertically integrated waste management business that has national coverage in New Zealand

##### **Facilities**

A network of collection facilities at 18 locations nationwide, 14 transfer stations, 3 landfills and a fleet of over 290 vehicles

##### **Consumer coverage**

About 500,000 commercial and residential customers

##### **CKI's shareholding**

100%

## Infrastructure Investment in NETHERLANDS



### **AVR-AFVALVERWERKING B.V.** **THE NETHERLANDS**

#### **Business**

The largest energy-from-waste player in the Netherlands, operating 2 waste treatment plants, one in Rozenburg and another in Duiven; as well as 4 transfer stations

#### **Capacity (plants)**

Energy from Waste – 1,700 kilo tonnes per year

Biomass Energy – 140 kilo tonnes per year

Liquid Waste – 325 kilo tonnes per year

Paper Residue Incineration – 200 kilo tonnes per year

#### **Capacity (transfer stations)**

1,000 kilo tonnes per year

#### **CKI's shareholding**

35% (another 20% held by Power Assets)

## Infrastructure Investment in CANADA



### **CANADIAN POWER HOLDINGS INC.** **CANADA**

#### **Business**

Owens 49.99% share of TransAlta Cogeneration, L.P. which operates five power plants in the provinces of Ontario and Alberta as well as 100% of the Meridian Cogeneration Plant in Saskatchewan

#### **Generation capacity**

Six power plants with total gross capacity of 1,362 MW

#### **CKI's shareholding**

50% (another 50% held by Power Assets)

## PROJECT PROFILES

### Infrastructure Investment in CHINA



#### SHEN-SHAN HIGHWAY (EASTERN SECTION) GUANGDONG, CHINA

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



#### TANGSHAN TANGLE ROAD HEBEI, CHINA

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



#### SHANTOU BAY BRIDGE GUANGDONG, CHINA

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



#### CHANGSHA WUJIALING AND WUYILU BRIDGES HUNAN, CHINA

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



### JIANGMEN CHAOLIAN BRIDGE GUANGDONG, CHINA

<b>Location</b>	<b>Joint venture expiry date</b>
Jiangmen, Guangdong Province	2027
<b>Road type</b>	<b>Total project cost</b>
Bridge	HK\$130 million
<b>Length</b>	<b>CKI's investment</b>
2 km	HK\$65 million
<b>No. of lanes</b>	<b>CKI's interest in JV</b>
Dual two-lane	50%
<b>Joint venture contract date</b>	
1997	



### PANYU BEIDOU BRIDGE GUANGDONG, CHINA

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



### JIANGMEN JIANGSHA HIGHWAY GUANGDONG, CHINA

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

## PROJECT PROFILES

### Investment in INFRASTRUCTURE RELATED BUSINESS



#### ALLIANCE CONSTRUCTION MATERIALS LIMITED HONG KONG

##### CONCRETE DIVISION

###### Business

Hong Kong's largest concrete producer

###### Total capacity

4 million cubic meters per annum

###### CKI's interest

50%

##### QUARRY DIVISION

###### Business

2 quarries in Hong Kong and 1 quarry in China, with sole distribution rights for another quarry in China for sales into Hong Kong

###### Total capacity (aggregates)

5 million tonnes per annum

###### CKI's interest

50%



#### GREEN ISLAND CEMENT COMPANY, LIMITED HONG KONG

###### Business

The only fully integrated cement producer in Hong Kong

###### Total capacity

Clinker – 1.5 million tonnes per annum

Cement grinding – 2.5 million tonnes per annum

###### CKI's interest

100%



#### ANDERSON ASPHALT LIMITED HONG KONG

###### Business

Hong Kong's largest asphalt producer, pavement contractor and recycler

###### Total capacity

Asphalt – 1 million tonnes per annum

Recycling – 0.5 million tonnes per annum

###### CKI's interest

100%



#### GREEN ISLAND CEMENT (YUNFU) COMPANY LIMITED GUANGDONG, CHINA

###### Location

Yunfu, Guangdong Province

###### Total capacity

Clinker – 1.5 million tonnes per annum

Cement grinding – 1.3 million tonnes per annum

###### Operational status

Fully operational during the 4th quarter of 2013

###### CKI's interest

100%





**GUANGDONG GITIC GREEN ISLAND CEMENT CO. LTD.**  
**GUANGDONG, CHINA**

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**Location**

Yunfu, Guangdong Province

**Business**

Cement production

**Total capacity**

Clinker – 0.8 million tonnes per annum

Cement grinding – 1.5 million tonnes per annum

**CKI's interest**

67%



**SIQUIJOR LIMESTONE QUARRY**  
**PHILIPPINES**

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**Location**

Siquijor, Philippines

**Business**

Limestone quarry

**Total capacity**

2 million tonnes per annum

**CKI's interest**

40%