



## The Hong Kong & China Gas Co. Ltd. (3 HK)

incorporated

Towngas China Co. Ltd. (1083 HK)

## **2019 Interim Results**

20 August 2019





### Disclaimer

This presentation and subsequent discussion may contain certain forward-looking statements. These forward-looking statements reflect the company's view on some future events and involve known and unknown risks and uncertainties and other factors which may cause actual performance and development differ materially. Past performance cannot be relied on as a guide for future performance.



## 2019 First-half Results



### The Hong Kong & China Gas (3 HK)

(HK\$ Mn)	1H 2019	1H 2018	Change
Revenue	20,352	19,242	+6%
Profit after tax before property revaluation	3,752	3,963	-5%
IFC revaluation gains	137	827	-83%
Profit attributable to shareholders	3,889	4,789	-19%
Earnings per share^	HK 23.0 cents	HK 28.3 cents	-19%
Interim dividends per share	HK 12 cents	HK 12 cents	



### **Business Sectors**

2019 First-half Operating Profit After Tax



OPAT HK\$3.88Bn - 5% in constant Rmb)

Hong Kong (HC)

**Mainland Utilities (MU)** 

New Energy (NE)

HK\$1.67Bn

**-** 5%

HK\$2.12Bn

+ 2%

HK\$0.09Bn

**- 67**%

(Gas Volume -2.4%)

(+ 7.8% in Rmb)

(Falling commodity prices)



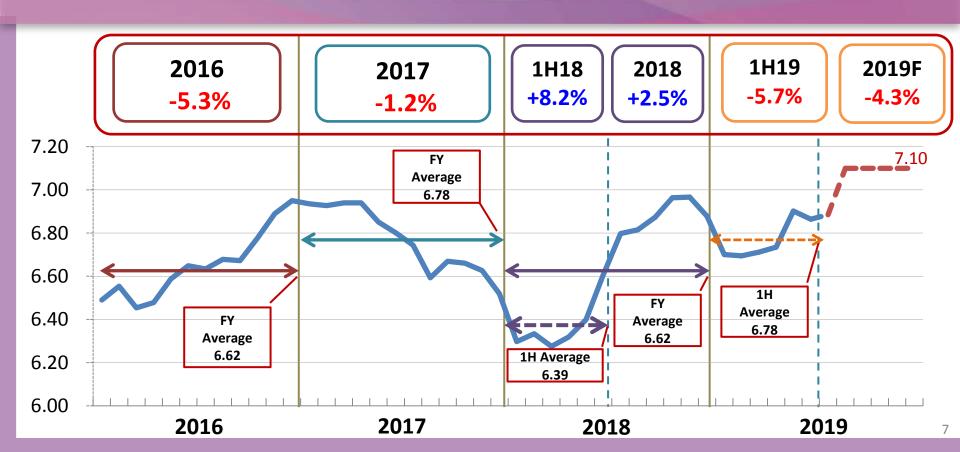
## 2019 First-half Results

Towngas China (1083 HK)

(HK\$ Mn)	1H 2019	1H 2018	Change
Turnover Gas Sales & Others Connection Fees	5,619 893	4,728 856	+19% +4%
	6,512	5,584	+17%
Operating Profit before Finance Costs	955	916	+4%
Less: Finance Costs	199	253	-21%
Profit Attributable to Shareholders	756	663	+14%
Earnings per Share	HK 26.89 cents	HK 23.96 cents	+12%



## RMB/USD Average Exchange Rate



## HKCG Group Financial Position

### M 煤氣 Towngas

### as at 30 Jun 2019

нкс <b>G (3 нк)</b>	30 Jun <b>201</b> 9	31 Dec 2018	Change	19 Aug 31 Dec 2019 2018	nange
	HK\$ Bn	HK\$ Bn			
Total assets	135.3	132.7	+2%	Share price (HK\$)^ 16.92 14.73 +	+15%
Net asset value	73.2	70.2	+4%	Market cap. (HK\$ Bn) 286.3 249.3 +	+ <b>15</b> %
Cash and Bank	7.5	8.8	-15%	P/E Ratio 30.8x 26.8x	
Total borrowings	36.9	35.7	+4%	P/B Ratio 4.6x 4.0x	
Interest Coverage	<b>10.4</b> x	10.7x		STANDARD & POOR'S A	
Gearing (Net)	31%	29%		& POOR'S A Credit Ratings:	
				Moody's A1	

^2018 figures were adjusted for the bonus share issue in 2019

## TCCL Group Financial Position

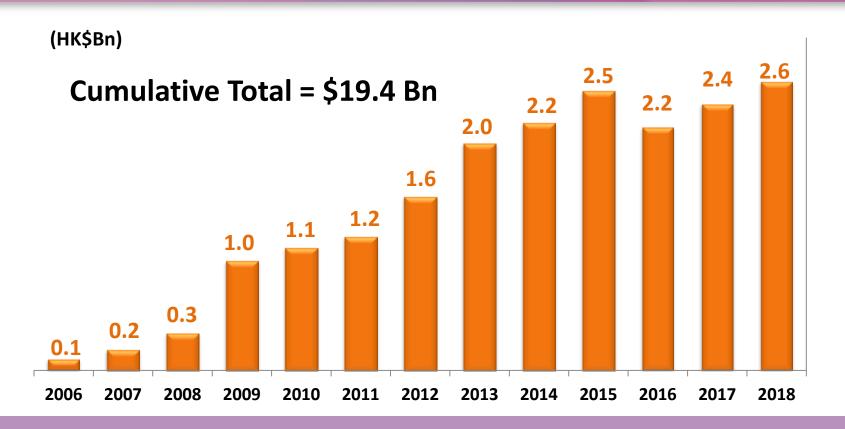


### as at 30 Jun 2019

TCCL (1083 HK)	30 Jun 2019	31 Dec 2018	Change		19 Aug 2019	31 Dec 2018	Change
	HK\$ Bn	HK\$ Bn					
Total assets	35.4	34.0	+3%	Share price (HK\$)	5.45	5.81	-6%
Net asset value	18.0	17.8	+3%	Market cap. (HK\$ Bn)	15.6	16.3	-4%
Cash and Bank	2.0	1.7	+18%	No. of Shares (Bn)	2.87	2.81	+2.2%
Total borrowings	10.2	9.5	+8%	P/E Ratio	11.6x	13.3x	
Interest Coverage	8.4x	8.6x		P/B Ratio	0.9x	1.0x	
Gearing (Net)	33%	33%		Cradit Batings	TANDARD POOR'S	BBB+	
				1	Moody's	Baa1	



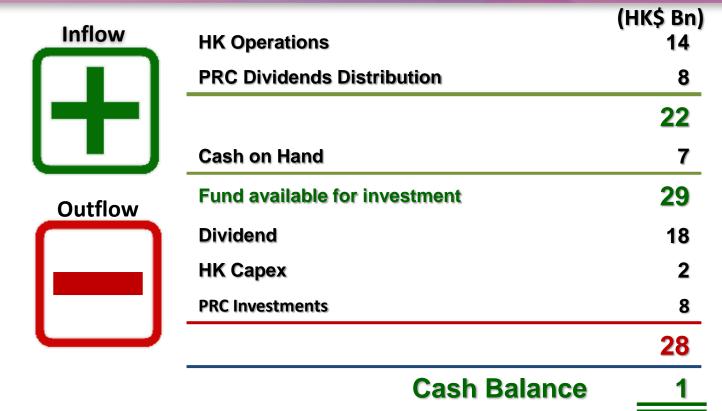
### Strong Dividend from Joint Ventures





## Rolling 3-Year Cashflow Projection

Healthy Position







## Hong Kong Business 1H 2019



Gas 15,776TJ Sales -2.4%

Basic tariff increase 1.1¢/MJ (4.4%) effective 1 August 2019

 Additional income: HK\$270Mn p.a.

FCVC fuel cost pass-through mechanism









Network Coverage

86%



## Business Challenges & Opportunities

- More housing units
- New gas applications
- Kitchen cabinet: ~ 30% market share on private housing
- CAPEX will remain at a low level



## More Housing Units

2019-20 HK	Government	Budget

	Supply in coming 5 years		
Public	100K		
Private	100K		
	Around 200K units		



### More Commercial & Industrial Gas Sales

	Target Customer	Additional Annual Gas Volume
Gas Cooling and Heating Applications	Disneyland, Ocean Park, Data Centres, HK Airport	500TJ
Diesel Conversion Projects	Hospitals, Food Factories, Laundries	590TJ
New Projects	Children Hospital, Kai Tak Hospital, Hospital Redevelopment Projects, Hotels, Food Factories Expansion, HKJC new Clubhouse	280TJ
Potential Project	Waste Paper Recycle Plant (Tuen Mun)	1,000TJ



# Mainland Utilities Territorial Coverage



**5** projects added, total 178 projects

in **24** provincial regions

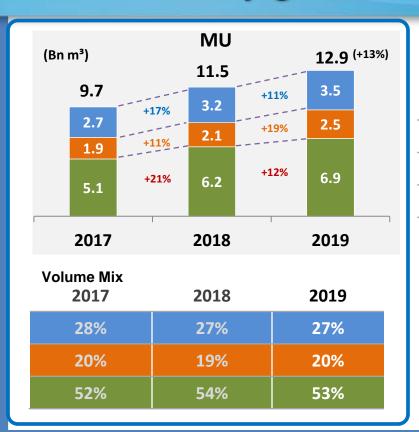


Jr.V	Total projects	New Projects
City-gas	131	-
Midstream $\triangle$	12	-
Distributed Energy System	14	<ol> <li>Maanshan Economic and Technological Development Zone South District</li> <li>Luanzhou Economic Development Zone Chemical Industrial Park</li> </ol>
<i>o, ,</i>		<ul><li>3. Xinmi Yinji International Tourism Resort</li><li>4. Shenzhen</li></ul>
Water	8	-
Others	13	5. U-Tech (Guangdong) Engineering Construction

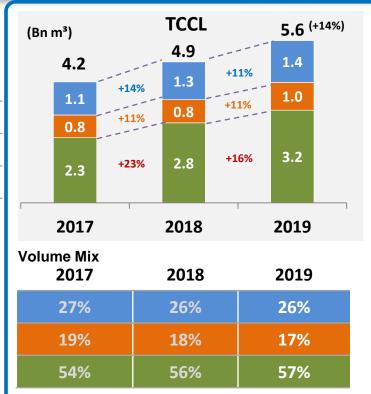
Hainan



## Mainland City-gas Volume(All JVs) 1H 2019









## Mainland City-gas Customer Gain

1H 2019	MU	TCCL
New Customers	<b>1.0Mn</b>	0.5Mn
Total	28.5Mn	13.0Mn



## Mainland City-gas Business Environment (1)

#### 1. National Gas Volume Growth Continues

	2018	2020	2030
National Annual Consumption	280 Bn m³	360 Bn m³	480 Bn m³
Share of Primary Energy	8%	10%	15%

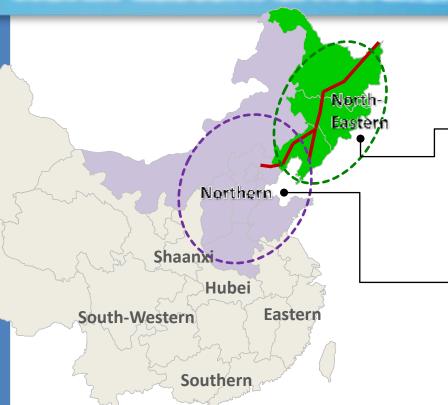
#### 2. Lift restriction on foreign ownership of city-gas JVs

- Restriction on majority foreign ownership for cities with population >500,000 was lifted
- Open up city-gas business investment for foreign investors
- Reduce the risk of taking away majority shareholding status when the city expands
- City-gas business will be more market oriented

## Russian Gas Will Spark Volume Growth in



## North-Eastern & Northern Regions



Russian NG arriving in Dec 2019 with volume of 38 Bn m<sup>3</sup> p.a. by 2024

North-Eastern	2018	2019F	2023F	
Number of projects	25	25	>30	
Volume (Bn m³)	1.7	2.0	4.6	
<b>Volume Growth</b>	CAGR: 22%			

Northern	2018	2019F	2023F	
Number of projects	38	38	>40	
Volume (Bn m³)	3.0	3.4	6.0	
Volume Growth	CAGR: 15%			



## Mainland City-gas Business Environment (2)

#### 3. Set up National Oil and Gas Pipeline Company

- Open access to pipelines and NG importation
- Free flow of NG, LNG nationwide
- Lower procurement cost
- Gas shortage in certain regions will be reduced

#### 4. NDRC on Connection Fees Policy

- The guidelines issued in June 2019 is more liberal
- Provincial and municipal authorities will discuss with city-gas operators considering local situations
- Unless exceptionally high, connection fees arrangement should be allowed to continue



## Mainland City-gas Business Environment (3)

#### 5. Coal-to-Gas Conversion Policy

- Chinese government continues to reduce carbon emission and improve air quality
- Step up boiler conversion: 10 to 35 steam tons (eqv. 2,800 m³ NG/hour)

Benefits to MU	2017	2018	2019F	Cumulative
Annualized Gas Consumption Capacity (Bn m³)	1.2	1.2	1.0	3.4

Key driver for gas sales volume growth



### Mainland City-gas Opportunities & Strategies



Project Information	<u>Cumulative</u>
• Phase 1-1 capacity: (3 caverns)	140Mn m³
• Completion:	Jan 2018
Phase 1-2 capacity: (+7 caverns)	460Mn m³
Construction Commencement:	Mar 2018
Phase 2 capacity: (+12 caverns)	>1,000Mn m³

#### Gas storage in Jintan, Jiangsu

- To meet winter peak demand
- Sharing investment cost among JVs
- National pipelines facilitates free flow of NG
- NG trading opportunities
- Shanghai Gas is a partner of Phase 1
   with 25% shareholding
- Total investment Rmb1.2Bn (22 caverns)



### Distributed Energy System (DES) Strategies

- Green Energy Integrated Services
- Enhance energy efficiency with more gas sales
- Projects
  - Central space heating
  - Central steam supply for industrial parks
  - Air-conditioning
  - Electricity
  - Pipelines for steam supply from power plants
- Target: one project per JV





## Expanding Extended Businesses

2019 Full Year Revenue Forecast: HK\$1,500Mn

Revenue **HK\$140Mn** 

**Kitchen Solution** 



Towngas Lifestyle
O2O platform

7Mn

**Members** 

Revenue

HK\$200Mn

Gas Related Insurance





Revenue

HK\$1,160Mn



### Water Business

1. Total 8 projects serving more than 2.2Mn customers

	Water Supply	Sewage	Food & Organic Waste	Heavy Metals Sewage Treatment
Mn ton p.a.	431	189	0.31	2.4





- 2. 27% shareholding in Foshan Water company signaling a new era for business expansion in the Greater Bay Area
- 3.  $1H\ 2019\ profit = HK$239Mn$
- 4. 2019 profit growth target: >15%





### Food Waste Treatment Business

- First food waste project located in Suzhou Industrial Park
- Commissioned in Nov 2018
- Investment: Rmb290Mn
- Capacity: 500 tons/day, with capacity for expansion
- By-products:
  - ❖ Natural Gas
  - Gutter oil
  - ❖ Biomass solid fuel
- Expect to add 6 projects in the coming 3 years
- Project IRR: 10-12%







### Business Development of Different Sectors

### City Gas

Gas Distribution

- Distributed energy centers Appliance/kitchen cabinets Customer-based consumer items
- **Space-heating system installations**

#### City Water

- Waste Distribution/ **Sewage Treatment**
- New Energy
  - Unconventional Fuels/ Clean Coal Utilization

- Municipal waste economy Industrial waste treatment

- **→** Sustainable biomass fuels/chemicals
  - Palm sludge oil/used cooking oil Agricultural waste

  - High temperature tar oil (HTTO)



## Sustainable Biomass Economy

**20**<sup>th</sup> Century: Crude oil Utilization of Fossil Resources

Heavy oil, Light oil, Gasoline, Kerosene, Naphtha

Innovative technology

**Petrochemical Process** 

Energy, Chemical products, Materials

**Consumption Society** (Carbon Emission)

21st Century: Plants
Utilization of Biomass & Waste Resources

Syngas, Sugar group, Oil

**Bioprocess** 

Energy, Chemical products, Bio-materials

**Sustainable Society** (Carbon Neutral)

# New Energy & Materials Projects (Technologies Developed by ECO's R&D)

#### Advanced Biofuel

ZhangJiaGang, Jiangsu

Biomass → HVO

### Agricultural waste Utilization

- Tangshan, Hebei

Corn Stalks → Furfural, Paper Pulp

Cangzhou, Hebei

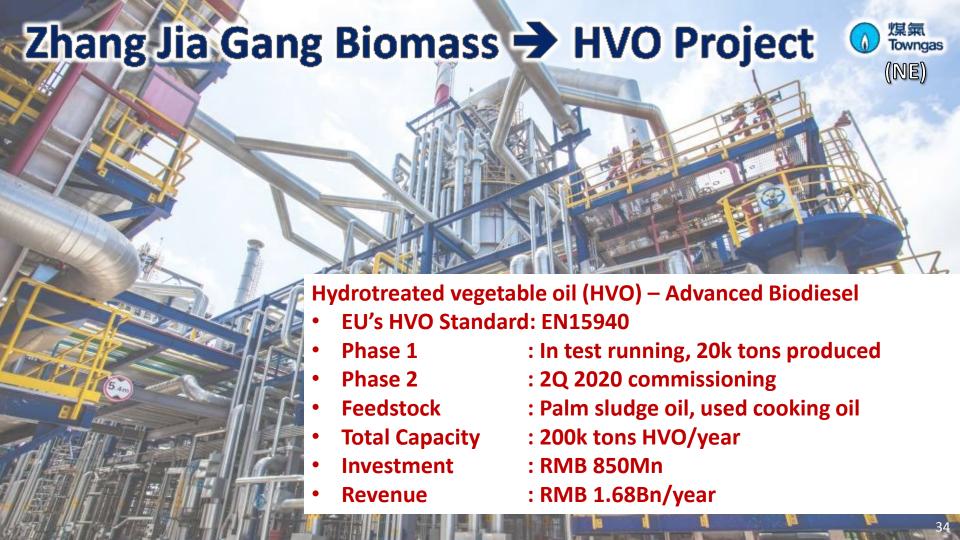
**Corn Cobs** → **Furfural, Bio-Ethanol, Xylose** 

### Carbon Material

- Erdos, IM

**High Temperature Tar Oil Utilization** 

- Super Capacitor Material
- Carbon Fibre

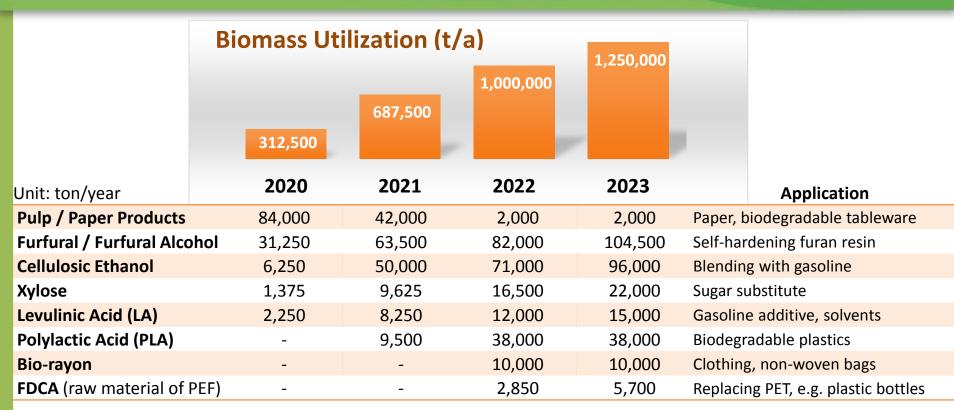








## Agricultural Waste Utilization Plan (2020 - 2023)



### Erdos High Temperature Tar Oil → Carbon Materials Project



Phase 1 : 4Q 2020 commissioning

Feedstock : HTTO, 7,000 tons/year

Total Capacity : 400 tons supercapacitor activated carbon/year

800 tons spinnable pitch/year (intermediate product)

Investment : RMB 500Mn

Revenue : RMB 250Mn/year

### Erdos High Temperature Tar Oil → Carbon Materials Project



Phase 2 : 4Q 2021 commissioning

Feedstock : HTTO, 7,000 tons/year

Total Capacity : 400 tons supercapacitor activated carbon/year

640 tons carbon fibre/year

Additional Investment : RMB 125Mn

Revenue : RMB 525Mn/year

(Phase 1+2)

(Phase 1+2)



## 2019: A Challenging Year

- Global economy at stake
- Sino-US trade war
- Social unrest & decline in tourist visits (HK)
- An exceptionally hot 7 months so far (HK)
- RMB weakening
- Commodity prices slump
- GDP growth slowing down
- Winter gas supply shortage



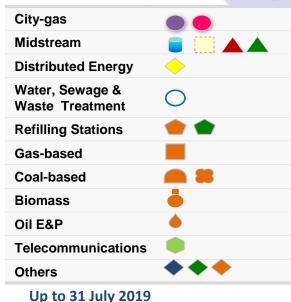
#### Conclusion

- Steady city gas business with increasing housing supply, expanding gas cooling and dehumidification markets (HK)
- Natural gas becoming mainstream clean energy for China; more gas supply sources from Russia and LNG terminals
- Winter peak gas supply need to be addressed
- Extending gas markets to CHP, space heating/cooling & laundry
- NDRC's new guidelines on city gas are being handled
- City water growth drivers : waste treatment/utilization
- NE R&D projects: multipliable; hi-growth; intellectual properties
- Greater Bay Area potentials: city gas, water, waste treatment
- Capitalizing on 30Mn+ customer-base opportunities

# **Group Project Coverage**



Total 260 projects in PRC 26 provincial regions









## 2019 Outlook

**Expecting a difficult** second half

Continuing to seek investment opportunities



## **Investment Opportunities**

- LNG Importation Terminals
- LNG Storage Tank Farms
- Underground Cavern CNG Storage
- High Pressure Pipeline Connecting to Upstream Sources
- Distributed Energy Systems
- Laundry Business

- Bio Waste Conversion Facilities
- Agricultural Waste Treatment Plants
- Carbon Material R&D and Manufacturing
- Enhance Efficiency Through Smart Technologies





## Our Aspiration







# Thank You

