The Hong Kong & China Gas Co. Ltd. (3 HK) incorporated
Towngas China Co. Ltd. (1083 HK)

# 2016 Annual Results Presentation



#### Hong Kong Core



# Mainland Utilities



#### **Corporate**



# New Energy & Telecom





# Opportunities Ahead





## 2016 Results at a Glance



• Revenue:	<b>2016</b> HK\$28.6Bn	<b>2015</b> HK\$29.6Bn
<ul> <li>Profit Attributable to Shareholders:</li> </ul>	HK\$7.34Bn	HK\$7.30Bn
<ul><li>Operation:</li><li>IFC Revaluation:</li></ul>	HK\$6.15Bn HK\$1.19Bn	HK\$6.13Bn HK\$1.17Bn
• Earnings Per Share:	HK 57.7 cents	HK 57.4 cents
<ul><li>Dividends:</li><li>Bonus Shares:</li></ul>	HK 35 cents 1 for 10	HK 35 cents 1 for 10

# 2016 Business Environment Hong Kong



- Visitors from the Mainland declined
- Hotel occupancy dropped
- Restaurants business held steady
- Extreme low oil price affected industrial gas sales in 1Q
- Average ambient temperature slightly favorable
- Inflation stayed low
- Employment rate remained high
- Housing supply increasing













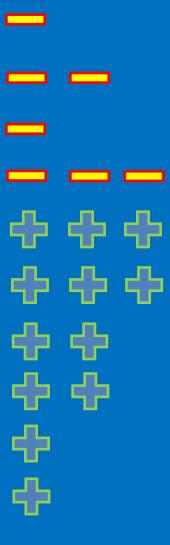




# 2016 Business Environment Mainland China

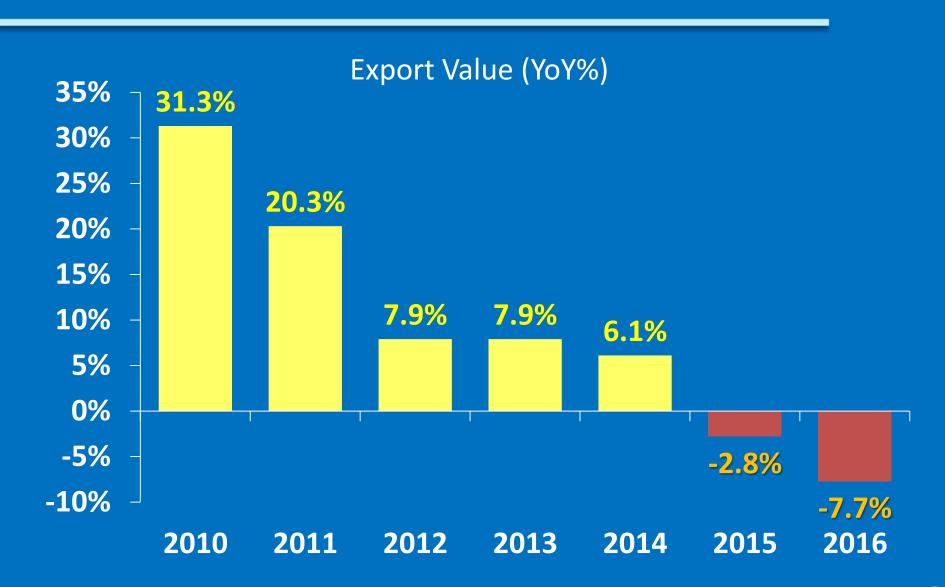


- Weak export & industrial output
- Low oil and LNG prices
- Sluggish high end consumption market
- Continuous RMB depreciation
- PNG city-gate price reduction
- Favourable clean energy policies
- Energy & commodities demand recovering
- New housing construction picking up
- Inflation stayed low
- Economic growth stabilizing at a mild rate



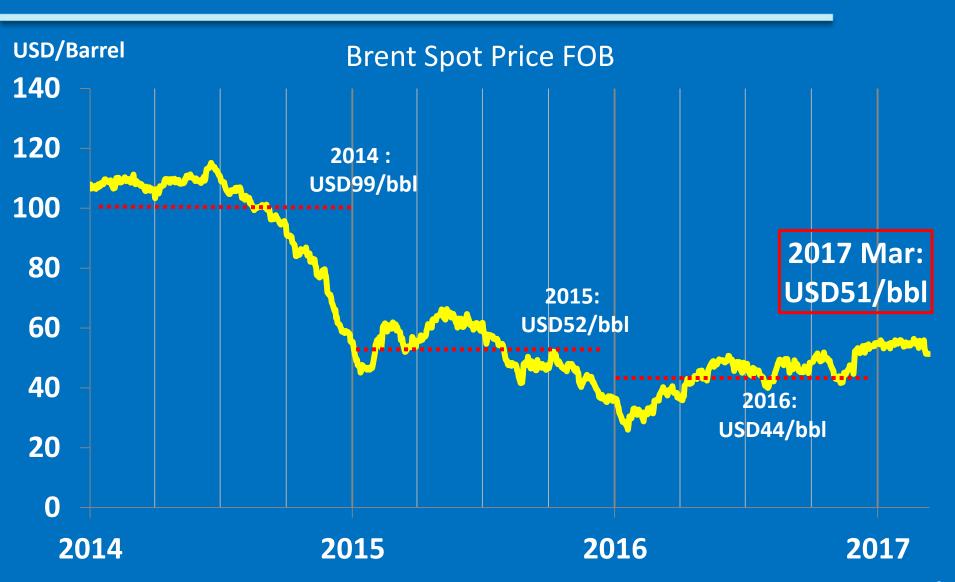
# Weak Export in China





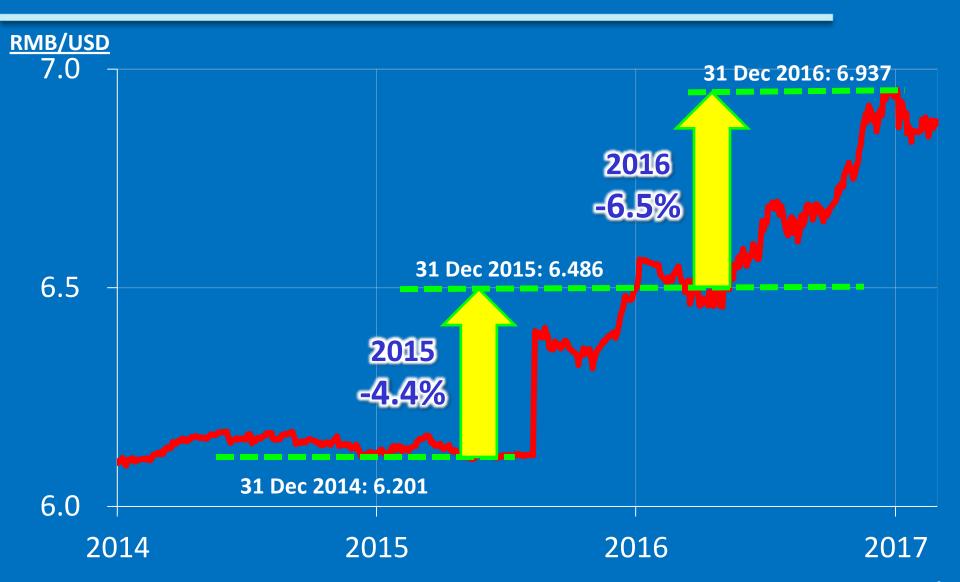
#### Oil Price Rebounds to US\$50 Level





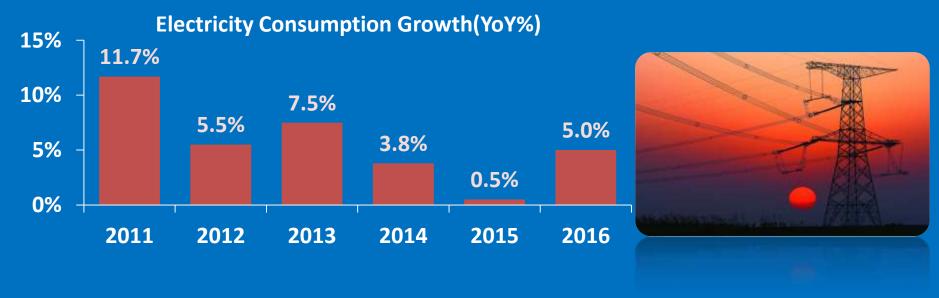
# Depreciation of RMB



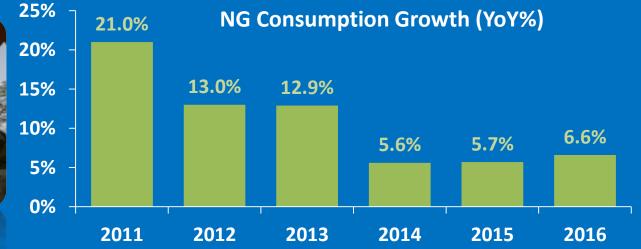


## **China Energy demand Recovery**



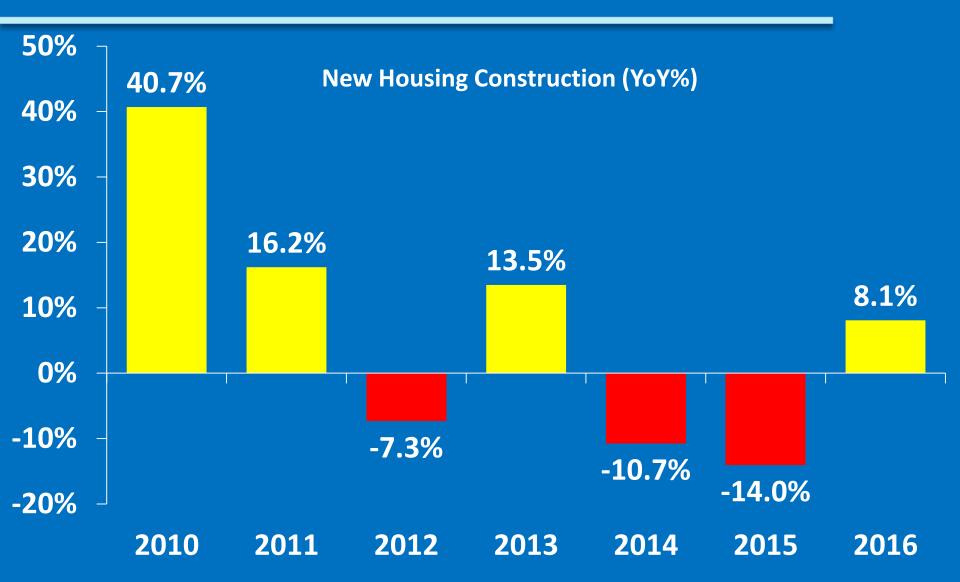






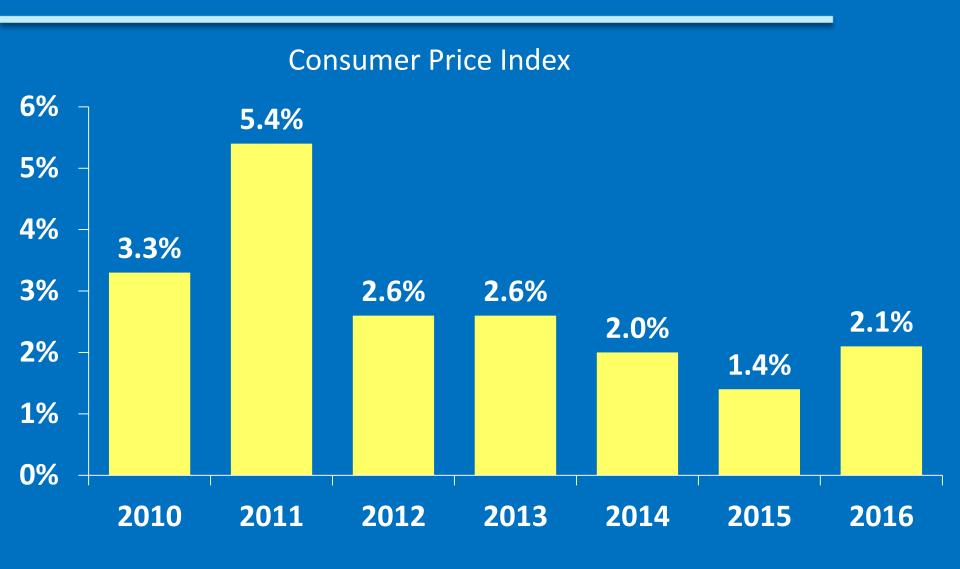
#### **New Housing Construction Picking Up**





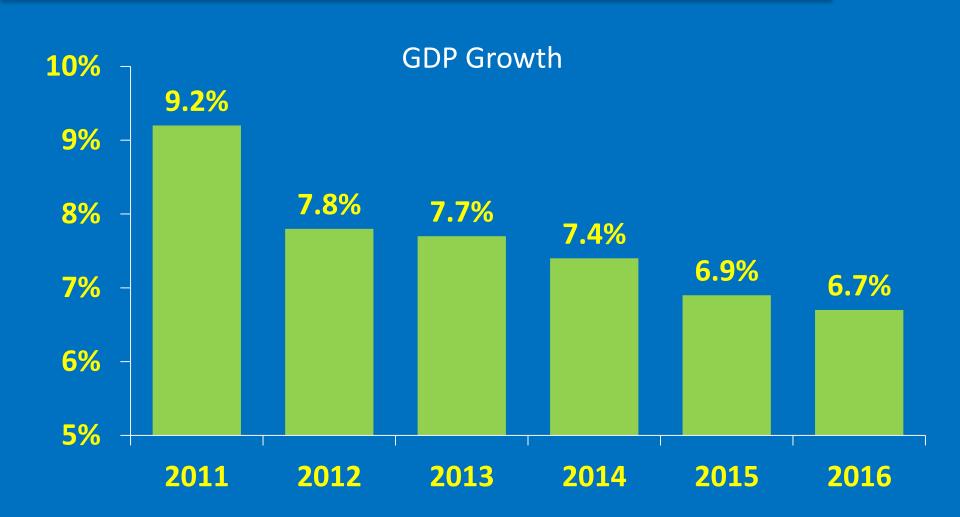
## **Mild Inflation**





## **China GDP Growth Within Target**





#### **Three Business Drivers**



#### **HK Core (HC)**

#### 

City-gas



Bandwidth + Data Centre

#### Mainland Utilities (MU)



- City-gas (0003.hk + 1083.hk)
- Mid Stream
- Gas Storage
- Clean Transportation Fuels



 Water Supply/Sewage/ Bio-waste Treatment

#### **New Energy (NE)**



- Energy Infrastructure
- Renewables/Recycling
- Unconventional Fuels
- Clean Transportation Fuels

#### 0003.HK Hong Kong & China Gas



#### (HKD) FY2016 Operating Profit After Tax By Businesses

HK Core (HC)

Mainland Utilities (MU)

New Energy (NE)

2.9Bn

+ 6.7%

3.4Bn

**-** 3.0% (**+** 3.0%\*)

0.3Bn

**-** 18.0%

OPAT 6.6Bn

**+** 0.3% (**+** 3.0%\*)

<sup>\*</sup> In Original Currency (Rmb)

# Mainland City Gas Business Opportunities and Challenges



- New project availability limited
- Retain large industrial users
- Deepen gas market penetration
  - Space heating
  - Clothes drying
  - Distributed energy centres (CHP)
- Ensure winter-load can be met

# Mainland City Gas Business Opportunities and Challenges (Con't)



- Innovate product/services expansion
  - Appliances
  - Kitchen solution
  - Insurance policy
- Ensure gas safety
- Improve service quality
- Raise productivity; contain costs

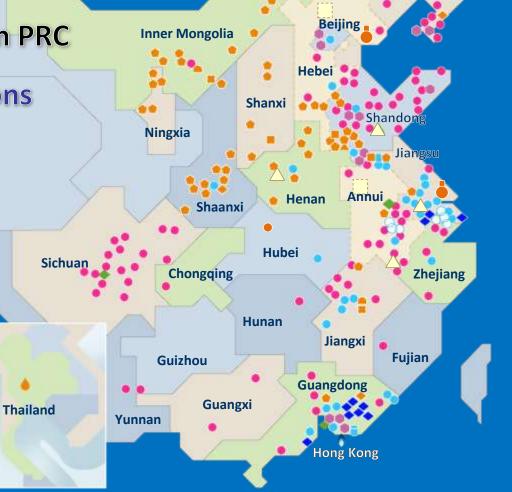


Total 242 projects in PRC

26 provincial regions



Up to 28 Feb 2017



Hainan

Heilongjiang

Jilin

Liaoning





# Green Technologies



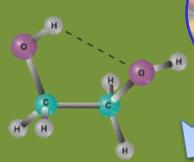
(NE)

**Bio-diesel / LNG** 

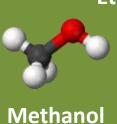
**Fuels** 

1

**Chemicals** 



**Ethylene Glycol** 



Feedstocks Upgrade

**Materials** 



**Carbon Materials** 



## Technologies to be Commercialized

(NE)

- Biomass → Chemicals
- Coal Tar Oil → Carbon Materials
- Methanol → Ethanol
- Powder Coal → Tar oil / Semi-coke
- Syngas → Chemicals

oke
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# Projects in Progress









# New Energy Highlights (con't)

- Focus on in-house technology development
- Innovation / R&D Centres for technology development
- Successfully swing away from crude price sensitive products

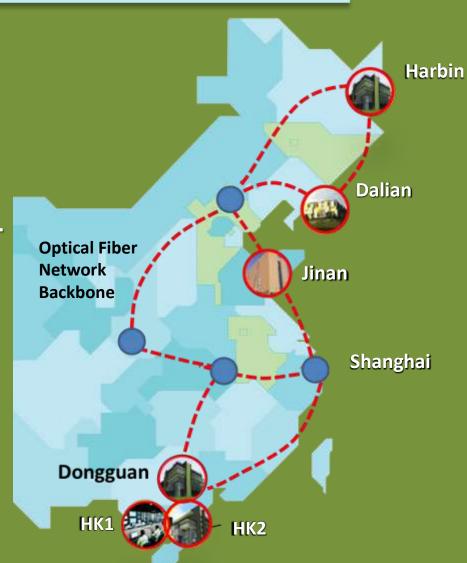


#### (HC)

### **Telecommunication Business**

#### Internet Plus (Big Data Era)

- To be a major HK/Mainland networked data centre service provider
- Six data centres as a countrywide backbone established
- Well positioned to capture secured data storage, processing and transmission markets
- Foundation laid; Ready to expand



# Telecommunication Business (con't) (HC)

**Ultimate Capacity** 

14,350 racks

**Installed Capacity** 

~5,000 racks

**Occupancy Rate** 

~60%



**PAT** 

HK\$77Mn









#### **Profit After Tax**

HK\$2.9Bn + 6.7%

**Town Gas** Sales

28,814TJ

**+** 1.4%

**Total Customers** 

1.86Mn

**+** 20,153

Household **Penetration** 

74%

Coverage

86%

Fuel cost variation fully pass through

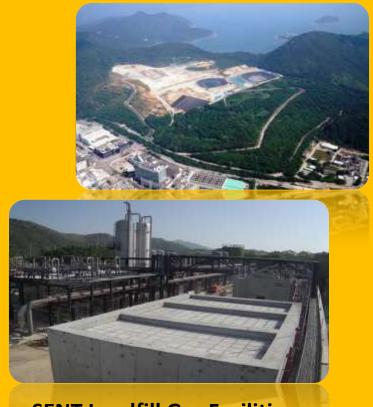
#### (HC)

# **Hong Kong Operation Updates**



#### **Nethersole Hospital CHP System**

- Commissioned in Dec 2016
- First kind in Hong Kong
- Thermal efficiency: 80%+
- Carbon emission: -20%



#### **SENT Landfill Gas Facilities**

- To be commissioned in Jun 2017
- Town gas feedstock sharing: 3%

#### **Future Additional Gas Sales**

(HC)

Absorption chiller applications

- (250TJ)
- Disneyland, Ocean Park, data centers
- Diesel to gas conversion projects

(60TJ)

- Hospitals, hotels, food processing factories
- New projects

(200TJ)

HKJC, children hospital, laundry plants,
 West Kowloon Cultural District

# 1083.HK Towngas China Co., Ltd. FY2016

(MU)

Revenue	HK\$7.2Bn	<b>-7</b> %
Profit from project Companies	Rmb1.2Bn	<b>49%</b> *
Profit Attributable to Shareholders	HK\$0.97Bn	+21%
Dividend per Share	HK 12 cents	+ 20%

<sup>\*</sup> in Original Currency (Rmb)

(MU)

# 1083.HK Towngas China Co., Ltd. FY2016

	2016	Change
Gas volume	7.1Bn m <sup>3</sup>	<b>+</b> 8.5%
Total customers	10.9Mn	+ 0.9Mn
New connections	1.1Mn	<b>+</b> 5%
Refilling station volume	231Mn m <sup>3</sup>	<b>+</b> 6.6%
Number of city-gas projects	97	

## Mainland Utilities FY2016

(TCCL inclusive)

# **Operating Profit After Tax**

**HKCG Group** 

HK\$3.4Bn = 3.0% (+ 3.0%\*)

	City-gas	Water	Midstream
Volume:	+ 10.3% 17.1Bn m³	+ 5.0% 455Mn ton	+ 3.7% 3.2Bn m <sup>3</sup>
Total projects:	131	7	8

# Mainland Utilities FY2016

(TCCL inclusive)

	City-gas  HKCG Group	Water HKCG Group
Total Customers:	+ 2.2Mn 23.1Mn	+ 74,395 1.2Mn
New Connections:	+ 3% 2.1Mn	
Refilling Station Volume:	<b>+</b> 1% 321Mn m³	
Number of Refilling Stations:	109	

#### (MU)

#### **Natural Gas Price Reform**



- Towards a more structured & market oriented industry
- Open up upstream & downstream (price flexibility); regulate midstream
- Seasonal gas pricing
  - Back to pre-November 2016 in mid-March 2017
  - Possible reduction in summer

# City-gas Business

#### (MU)

#### **Growing Gas Sales Volume**



#### Market Development

(MU)

5-Year-Plan (2016 to 2020) for Social & Environmental

- Energy mix targets by 2020
  - Target to lower coal to 58% (from 64% in 2015)
  - Natural gas target reaching 10% (from 6% in 2015)
- Promote clean space heating in the northern region
  - Replacement of using coal: >3 million households
  - Shut down all small coal-fired boilers at prefectural-level cities
- Further promote urbanization
  - New urban residents: 13 million in 2017
  - Development of small & medium cities and towns
  - Urbanization rate: +1% p.a.

### (MU)

## **Market Development**







Industrial Sector Coal-to-Gas Conversion	2015	2016
JVs with government subsidies & supporting policy	54	94
Converted Customer	1,010	1,380
Capacity (Steam tons)	4,460	8,073
Annualised NG Demand (Mn m³/p.a.)	580	1,050

Commercial Sector	2015	2016
Newly Acquired Customer	10,000	12,000
Annualised NG Demand (Mn m³/p.a.)	250	300

### (MU)

## Market Development







- 20 CHP potential projects
  - NG consumption: 500Mn m³ p.a.
- Domestic space heating system
  - Market potential: >100,000 units p.a.
  - 10X gas consumption
  - 100Mn m³ p.a.
- Gas Clothes Dryer
  - Market potential: >20,000 units p.a.
  - +30 to 50% gas consumption

### Market Development

(MU)

#### Water Business – Food Waste Treatment

- Suzhou Industrial Park
- Capacity: 500tons/day
- By-products:
  - Natural Gas
  - Bio fuel



- Target commissioning date: (2Q2018)
- ► Target IRR: ~15%
- Two potential projects under negotiation



## Territorial Coverage



5 projects added, total 5 projects in 24 provincial regions

#### **New Projects**

Other



- Shanghai Petroleum and Natural Gas Exchange
- 2. Sichuan Distributed Energy System
- Hua Yan Environmental Industry Development (Suzhou)
- Towngas Energy (Qianhai)

City-gas



5. Zhongxian, Hubei

#### **Utilities: Number of projects**

Midstream

City-gas

Water, Sewage & Waste Treatment

**Refilling stations** 

Others

132 (HKCG: 34

: 34 🔵 + TCCL: 98 🧶 )

8 🖊 нксс

7

3 🁚 нксс



TCCL





TCCL





# HKCG Financial Position as at 31 Dec 2016



HKCG (003 HK)	FY16		FY16
	HK\$ Bn		
Total assets	116.7	Current ratio	108%
Net asset value	62.9	Interest coverage	9.4x
Cash and Bank	11.5	<b>Return on Equity</b>	14%
Total borrowings	33.2	Gearing (net)	27.9%
Market cap	190.0	Credit STANDARD & POOR'S RATINGS SERVICES	A+
		Ratings Moody's	<b>A1</b>
		TVICODI S	

### **HKCG Group EBITDA Return on Revenue**



	нк с	Core Mainland Utilities		New Energy		
	2016	2015	2016	2015	2016	2015
Revenue (HK\$Bn)	9.0	8.8	16.7	18.0	2.1	2.1
EBITDA (HK\$Bn)	4.5	4.3	4.6	4.5	0.6	0.7
EBITDA (%)	49.9%	48.1%	27.7%	25.1%	30.7%	33.1%

# TCCL Financial Position as at 31 Dec 2016



TCCL (1083 HK)	FY16		FY16
	HK\$ Bn		HK\$ Bn
Total assets	28.0	P/B	0.9x
Net asset value	14.7	P/E	12.7x
Market cap	12.0	Gearing (net)	31.7%
Cash & bank	1.6	STANDARD & POOR'S	BBB+
Total borrowings	7.8	Ratings Moody's	Baa1

## RMB Impact



RMB rates	2016	2015
Closing rate	-6.5%	-4.4%
Average rate	-5.5%	-1.9%
нксб (нк\$м)		
Operating Profit	(195)	(70)
Foreign currencies net debts	(88)	(385)
TCCL (HK\$M)		
Operating Profit	(80)	(27)
Foreign currencies net debts	(90)	(301)

## **CNY/USD FX Rate Forecast**



	2017 Yr End 10 Feb 2017	<u>2016 Yr End</u>
Citibank	7.05	
Standard Chartered	7.06	
ANZ	7.10	
JP Morgan	7.10	
Nomura	7.15	
Mizuho	7.17	
HSBC	7.20	
Morgan Stanley	7.30	2017 Forecast
Credit Suisse	7.32	Depreciate ~49/
Barclays	7.35	~4%
Rabobank	7.75	
Average	7.23	6.945

#### CNY / USD



## **TCCL** Debt Re-financing

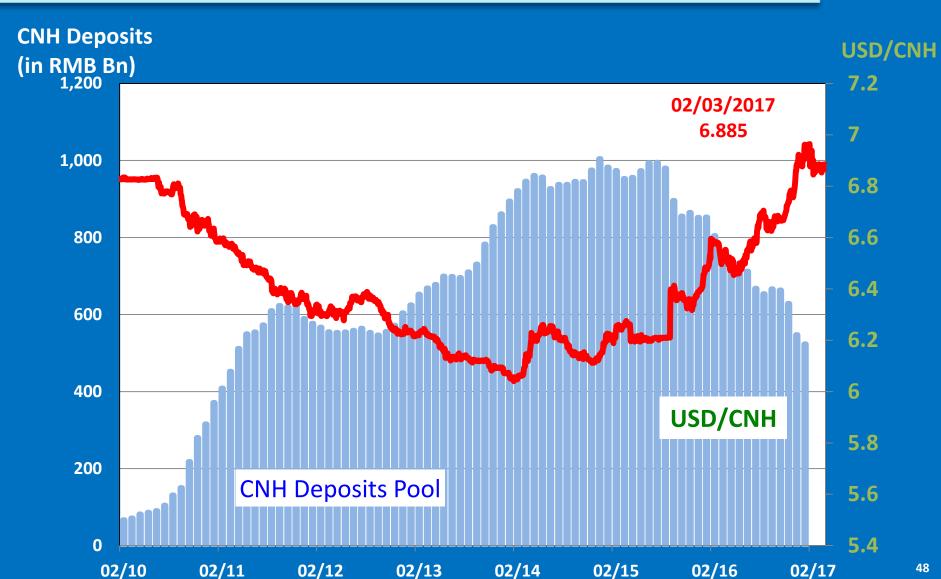


(HKD Mn)	After Re-financing	Maintain Off-shore Debts	<u>+/-</u>
Off-shore interest expenses	237	153	+84
Average interest cost	3%	2%	
Exchange Loss	90	518	-428
Total	327	671	-344

Saving

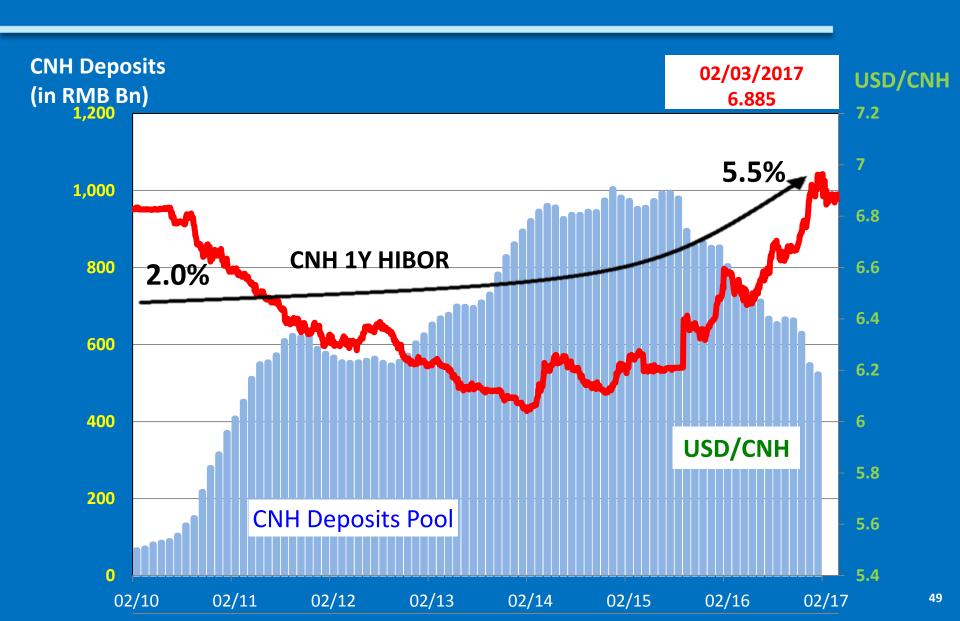
## Interest Cost - CNH





### Interest Cost - CNH





### **TCCL RMB Funding Cost**



## Off-shore Debt Funding Cost

2016: 3%

2017: ~ 4-5%

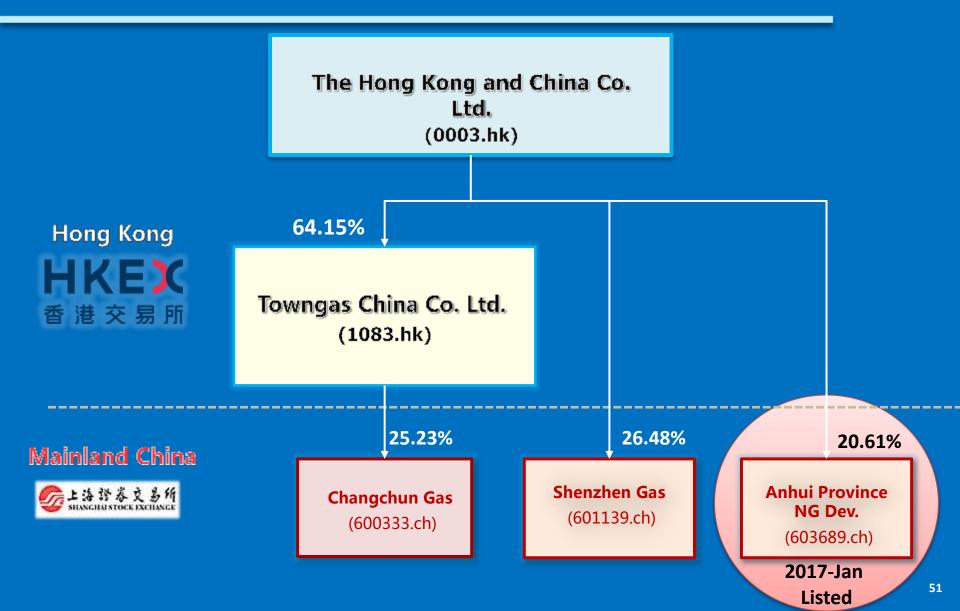
#### **CNH HIBOR**

Tenor	Fixing Rate
ON	2.76532
1W	5.62050
2W	5.59050
1M	5.23167
2M	5.20067
3M	5.18617
6M	5.26200
1Y	5.41033

Historic data (22 Feb 2017)

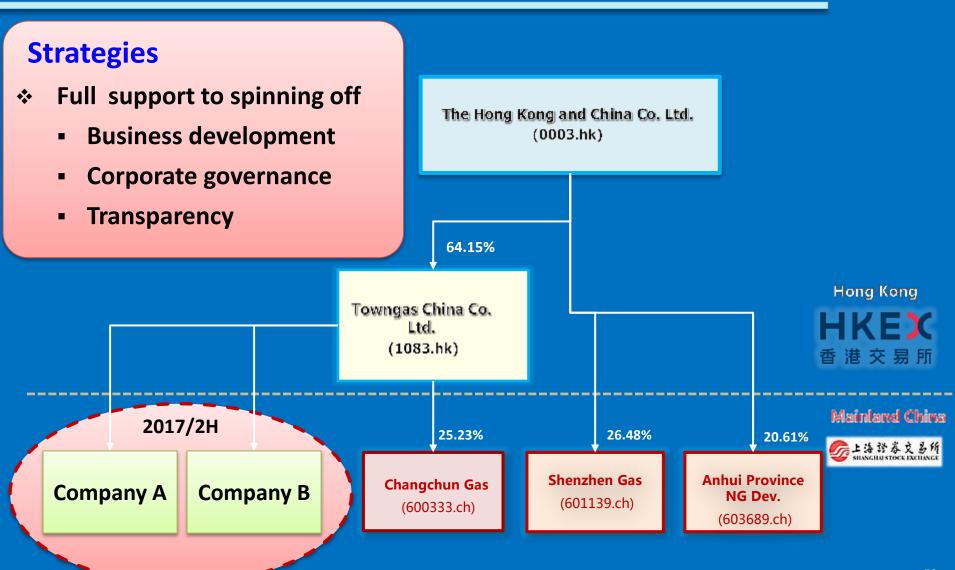
## **Mainland Utilities Spinning Off**





## **Mainland Utilities Spinning Off**





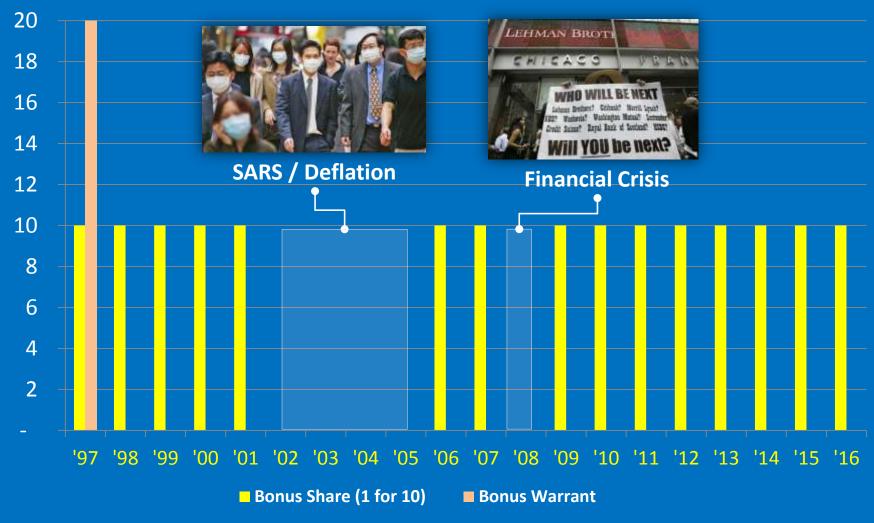
## Dividend



	HKCG (0003 HK)	TCCL (1083 HK)
Dividend (HK cents)	35.00	12.00
EPS (HK cents)	57.72	36.26
Pay-out Ratio	60 %	33 %
Bonus Issue	1 for 10	_

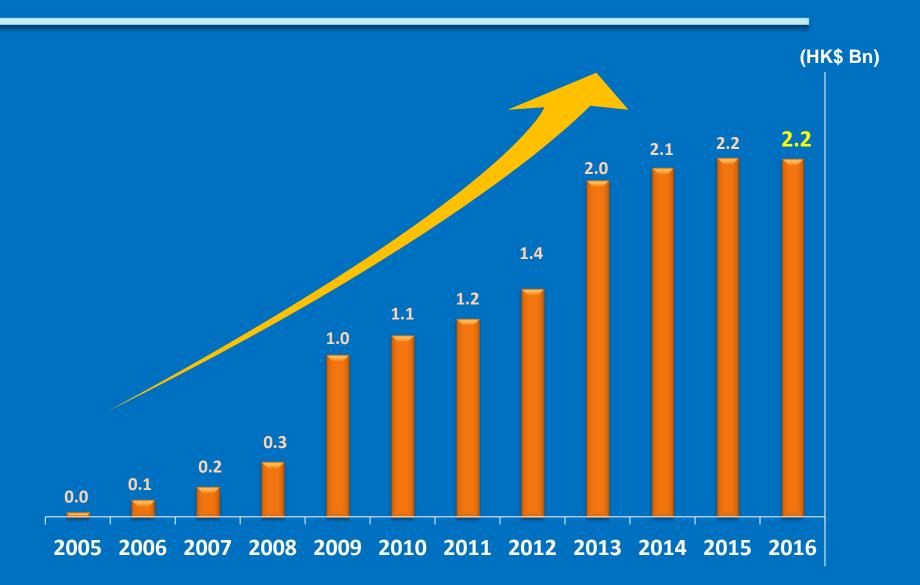
### **Bonus Shares Issue**





### **Strong Dividend from Mainland Utilities**





# Rolling 3-Year Cashflow Projection Healthy Cashflow



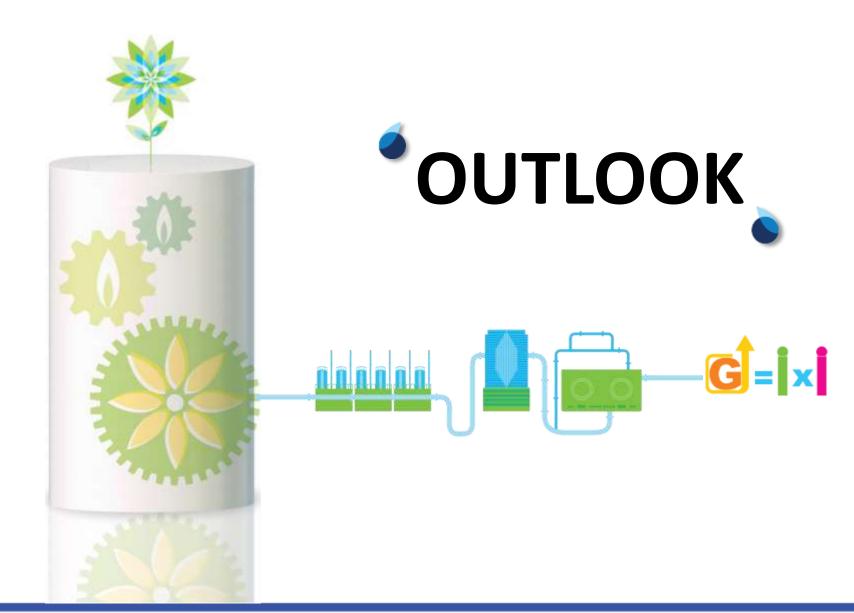


	(HKD Bn)
Group Operation	13
PRC Dividends Distribution	7
	20
Cash on Hand	12
Fund available for investment	<b>32</b>
Dividend	14
HK Capex	3
PRC Investments	10
	27

Outflow

	_	N		
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### **Full of Opportunities**

China's Commitments on Carbon Emission Intensity Reduction

**■** 2020: **>** 40 ~ 45%

■ 2030: > 60 ~ 65% (Emission amount capped)

Smog Issue Accelerates the Use of Cleaner Fuels

13-5 Plan: Natural Gas Share

■ 2015: 6% 193bcm

**2020: 10%** 360bcm

2030: 15% (projection) 480bcm

**CAGR: 6.3%** 



### **Full of Opportunities**

#### 13-5 Plan Natural Gas Key Consumption Growth

	<u>bcm p.a.</u>
<ul> <li>Coal-to-gas conversion (boilers, furnaces</li> </ul>	+45
<ul><li>Distributed energy centres (CHP)</li></ul>	+60
<ul><li>Urbanization</li></ul>	+27
<ul><li>Transportation fuel (land &amp; marine)</li></ul>	+25
	+157

#### Abundant Supply; Sufficient Infrastructures

- Indigenous PNG
- Imported PNG
- Imported LNG



### **Full of Opportunities**

### Utilities Opportunities

- 4 to 6 new city-gas projects p.a.
- Gas sales volume growth at mid-teen rate

### Market Regulatory Regime

- Open up up-stream
- Regulate mid-stream
- More market oriented down-stream

### Sufficient Storage and Peak-Shaving Capacities

- LNG, U/G caverns, hi-pressure pipelines
- Facilitate capture of winter load markets



### **Full of Opportunities**

- Clean Utilization of Biomass and Waste become a Trend
  - Food waste
  - Coke oven gas
  - Tar oil
  - Agricultural waste
  - Powder coal
- Capitalizing on the 23Mn Strong Customer-base
  - Extended products/services

## **Looking Forward**



### HC

### MU

### NE

Remains as a <u>stable</u>, <u>low-growth</u>

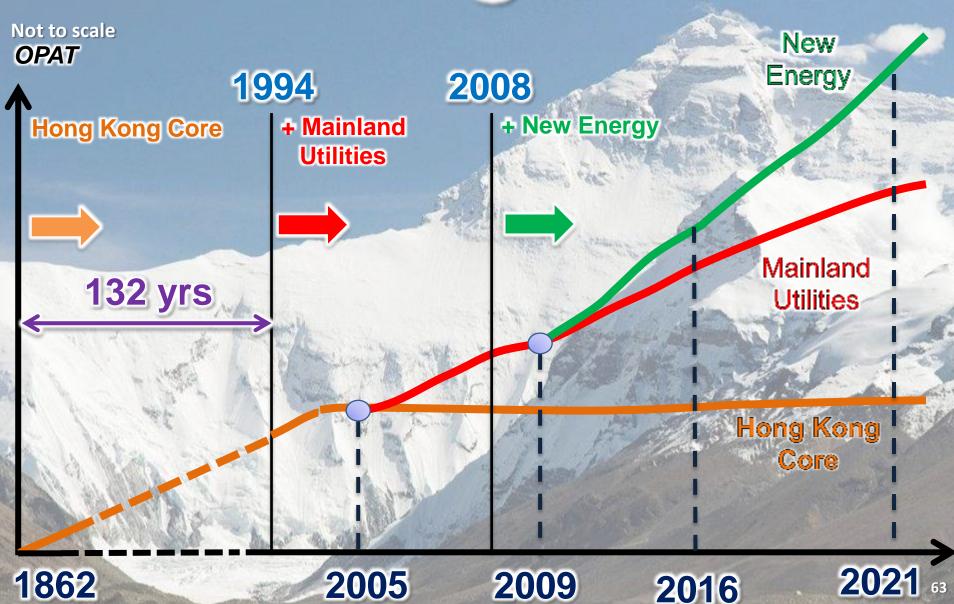
cash generating business

Continues to be a mid-growth

locomotive having market share & organic volume expansion while capturing the environmental & urbanization opportunities

Positioned to be a high-growth driver focusing on renewable/recycling & clean fuels, while developing proprietary technologies, at the same time establishing energy infrastructures

# **Sustaining Growth**





## G=ixi

## Thank You

**EXPANDING** 

**NEW HORIZONS** 



### **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.