

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

incorporated

Towngas China Co. Ltd. (1083 HK)

2018 Interim Results Presentation





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.



- 2018 Interim Results / Group Financial Overview
- Utilities Business
- New Energy Business
- Business Outlook



Aspire to be the Greenest Hong Kong based Company







Hong Kong Core City-gas & Telecommunications





Mainland Utilities City-gas
Water/Sewage





New Energy











Growth



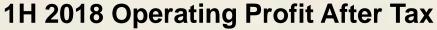






Group Financial Overview

Three Business Drivers









OPAT HK\$4.11Bn + 7%

Hong Kong (HC)

Mainland Utilities (MU)

New Energy (NE)

HK\$1.76Bn

+ 6%

HK\$2.08Bn

+ 6%

HK\$0.27Bn

+ 35%



City-gas

Bandwidth

+Data Centre



- City-gas (0003.hk + 1083.hk)
- Midstream
- Distributed Energy System
- Gas Storage
- Clean Transportation Fuels



 Water Supply/Sewage/ Bio-waste Treatment



- Renewables/Recycling
- Unconventional Fuels
- Clean Transportation Fuels
- Energy Infrastructure
- Clean Coal Technology Products



2018 First-half Results



The Hong Kong & China Gas (3 HK)

(HK\$ Mn)	1H 2018	1H 2017	Change
Revenue	19,242	15,431	+24.7%
Operating Profit	4,107	3,823	+7.4%
 Net financial 	55	59	-
 Provision for projects 	(200)	-	-
 IFC Revaluation: 	827	590	-
Profit Attributable to Shareholders	4,789	4,472	+7.1%
Earnings Per Share	HK 31.13 cents	HK 29.06 cents	+7.1%
Interim Dividends	HK 12 cents	HK 12 cents	-

2018 First-half Results



Towngas China (1083 HK)

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(HK\$ Mn)	1H 2018	1H 2017	Change				
Turnover Gas Sales & Others# Connection Fees	4,728 856	3,272 764	45% 12%				
	<u>5,584</u>	4,036	+38%				
Operating Profit before Finance Cost	916	817	+12%				
Profit Attributable to Shareholders	663	602	+10%				
Basic EPS (HK cents per share)	23.96	22.21	+8%				
# Gas Sales Dollar Margin (Rmb/m³)	2017 1H	0.67					
	2017 2H	0.59					
	2018 1H	0.61					

HKCG Group Financial Position as at 30 Jun 2018



НКСG (3 НК)	30 Jun 2018	31 Dec 2017	Change		20 Aug 2018	31 Dec 2017	Change
	HK\$ Bn	HK\$ Bn					
Total assets	134.9	131.1	+2%	Share price (HK\$)	15.90	13.93	+14%
Net asset value	71.6	70.2	+2%	Market cap. (HK\$ Bn)	244.6	214.3	+14%
Cash and Bank	12.8	12.8	-	No. of Shares (Bn)	15.39	15.39	-
Total borrowings	40.0	36.9	+8%	P/E Ratio	30.0x	26.1x	
Gearing (Net)	30%	28%		P/B Ratio	4.1x	3.5x	
		S T A	NDARD	Maany's			

Credit Ratings:

STANDARD & POOR'S RATINGS SERVICES

A+

Moody's

A1

Repayment of USD 1Bn 10-Year Bond



- - Repaid on 7 August 2018
 - Sources of fund
 - Pre-funding from MTN private placements
 - Bank loans
 - Cash on hand
 - Interest reduction by \$200Mn p.a. after repayment

TCCL Financial Position as at 30 Jun 2018



TCCL (1083 HK)	30 Jun 2018	31 Dec 2017	Change		20 Aug 2018	31 Dec 2017	Change
	HK\$ Bn	HK\$ Bn					
Total assets	33.8	32.8	+3%	Share price (HK\$)	6.81	6.28	+8.4%
Net asset value	17.4	17.2	+1%	Market cap. (HK\$ Bn)	19.1	17.4	+10.1%
Cash and Bank	1.7	1.7	-	No. of Shares(Bn)	2.81	2.77	+1.4%
Total borrowings	9.4	8.8	+7 %	P/E Ratio	14.0x	12.7x	
Gearing (Net)	33%	31%		P/B Ratio	1.2x	1.1x	

Credit Ratings:



BBB+



Rolling 3-Year Cashflow Projection



Healthy Growth

	Inflow						
		n					
ı		-1					
Į		J					

(HK\$ Bn
14
8
22
13
35
17
3
10
30



Cash Balance 5





Green City

Gas

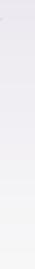
UTILITIES

HONG KONG & MAINLAND









City-gas Businesses (1H 2018)



Hong Kong

- The only territory-wide gas company
- **1.89Mn customer accounts**
- Gas sales: 16,158TJ (+1.6%)
 (NG equivalent: 462Mn m³)

Mainland

MU

26.5Mn customeraccounts(six months +1.1Mn)

TCCL

- Mainland city-gas operator
- 98 city-gas projects
- **11 midstream projects**

MU Gas Volume					
14.4Bn m ³ +21%					
City-gas Midstream					
11.5Bn m ³ 2.9Bn m ³					
+18% +33%					

Market View – Towngas China (1083 HK)



Bank	Headline Comments	Rating	Target Price	Issue Date
CCB Intl	1H18 earnings slightly below expection; Measures taken to defend margins in 2H18	Outperform	\$9.00	16 Aug
HSBC	Risk/reward remains attractive	Buy	\$8.60	16 Aug
Citi	1H18 Profit in Line; 1st Time Most Profit from Gas Sales	Buy	\$8.50	16 Aug
Daiwa	1H18 results a slight miss on connections and finance cost	Buy	\$8.50	16 Aug
Deutsche Bank	Volume/margin trends in line while connection slightly below DB estimate	Buy	\$8.30	16 Aug
DBS	Decline in dollar margin, offset by good volume growth	Buy	\$8.20	17 Aug
Morgan Stanley	No surprise on 1H18 results; 2018 guidance maintained	Equal-weight	\$7.70	16 Aug
Huatai	Results in line; gas sales volume growth stable	Hold	\$6.80	16 Aug
CICC	1H18 slightly miss; FY18 guidance at risk	Hold	\$6.29	17 Aug

Territorial Coverage Up to 31 Jul 2018





6 projects added, total to more than 165 projects in 24 provincial regions

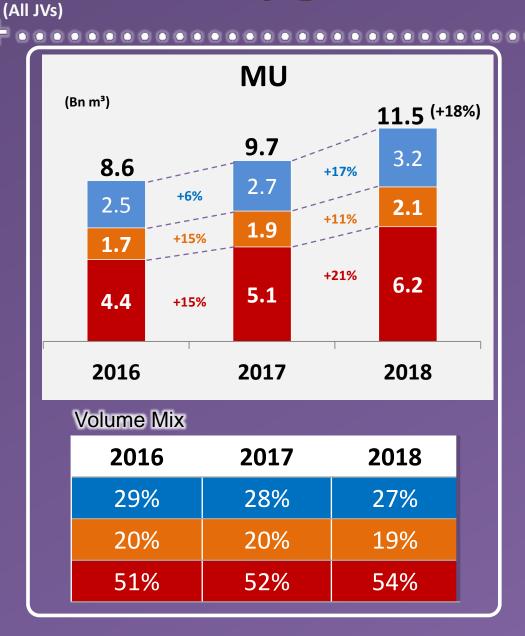
New Projects				
City-gas	0	1. Liuzhou, Guangxi		
Midstream	\triangle	2. Jinan – Liaocheng, Shandong		
Distributed Energy System	\Diamond	 Jiawang District, Xuzhou, Jiangsu Jimo Chuangzhi New District, Qingdao, Shandong Yangxin, Shandong Changchun, Jilin 		

Utilities: Number of projects						
City-gas	132 (HKCG: 34 ● + TCCL: 98 ●)					
Midstream	11 A HKCG: 7 A TCCL: 4					
Distributed Energy System	6 TCCL: 6					
Water, Sewage & Waste Treatment	7 HKCG: 7					
Others	11 • HKCG: 8 • TCCL: 3					

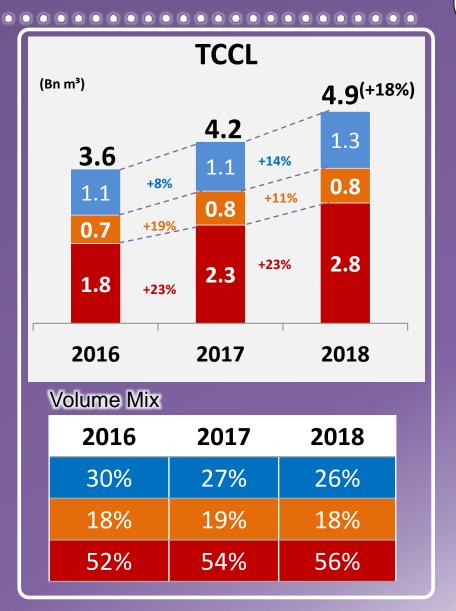
Mainland City-gas Volume Mix 1H 2018



(MU)







Mainland City-gas Customer Growth



1H 2018	MU	TCCL	
Total Customer Accounts	26.5Mn	12.2Mn	
New Connections (6 months)	0.9Mn	0.4Mn	

Mainland City-gas Other Energy to NG Conversion/ New Customers



		MU	TCCL		
1H 2018	Customers Gained	Annualized Volume (Mn m³)	Customers Gained	Annualized Volume (Mn m³)	
Commercial	8,790	220	4,650	120	
Industrial	953	620	466	270	
Total	9,743	840	5,116	390	

Distributed Energy System (DES)



New Projects _	Captured in 1H2018	9 Projects	
	in Discussion	40 Projects	
Number of Projects in Operation		19 Projects	
Gas Volume in 1H2018		110Mn m³	

Extended Businesses



Extended Businesses

Kitchen Solutions

Towngas Lifestyle
O2O Platform

(e-services, kitchenware, and eco-friendly food)

Insurance Sales

Gas Appliances
Sales

(Water Heater, Cooker, Gas Dryers and Space Heating System)

FY2018 Estimated Revenue: HKD 1.1 billion (+40% vs. 2017)

Opportunities & Challenges



- NDRC proposed new NG storage requirements to meet winter demand
- City-gate gas prices for Residential and Non-residential unified in June
- "Blue Sky" Policy
- ► LNG Terminals open access
- One National Natural Gas Grid Company
- Welcome investments on LNG importation

Market Leader of NG Storage Amongst PRC City-gas Operators 🕡 媒氣





Project Information	Cumulative
 Phase I capacity: (3 caverns) 	140Mn m³
• Completion:	Jan 2018
Phase II capacity: (+7 caverns)	440Mn m³
Construction Commencement:	Mar 2018
Phase III capacity: (+12 caverns)	1,000Mn m³

- Jintan NG carven storage with
 1Bn m³ capacity
- LNG terminals under discussion
 - With various parties in participating the setup of 5 to 6 LNG terminals (Southern, Eastern and Northern regions)
 - Buy NG/LNG storage services from upstream companies

Russian Gas Will Spark Volume Growth in Northern & North-Eastern Regions



(MU)

The 13th 5-Year Plan	2017	2020	2030
NG in Energy Mix	7%	10%	15%
Demand (Bn m³)	238	360	~480

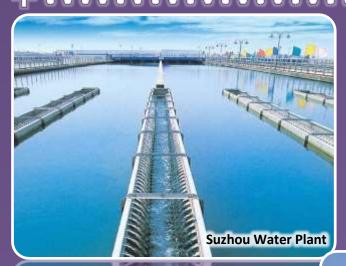
5 billion m³ Russian NG arrives in 4Q2019 & 38Bn m³ by 2024

North-Eastern	2017	2022E
Volume (Bn m³)	1.5	4.0
Volume Growth	CAGR: 22.4%	

Northern	2017	2022E
Volume (Bn m³)	2.5	5.4
Volume Growth	CAGR: 16.8%	

City-Water Businesses (1H 2018)





Mainland

- → 7 JVs
- ◆ 226 million m³ water sales (+6%)
- 67 million m³ sewage/waste water treated (+5%)
- Operating profit HK\$197 million (+19%)
- Concluding a project in Greater Bay Area which will expand our water business footprint in Southern China



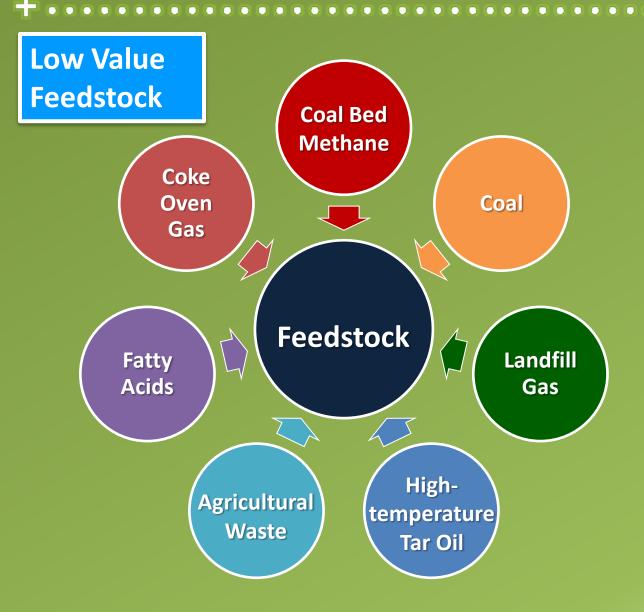




New Energy Strategy:

Turn Low Value Feedstock to High Value Products





Through environmental-friendly process

New Energy Strategy:

Turn Low Value Feedstock to High Value Products

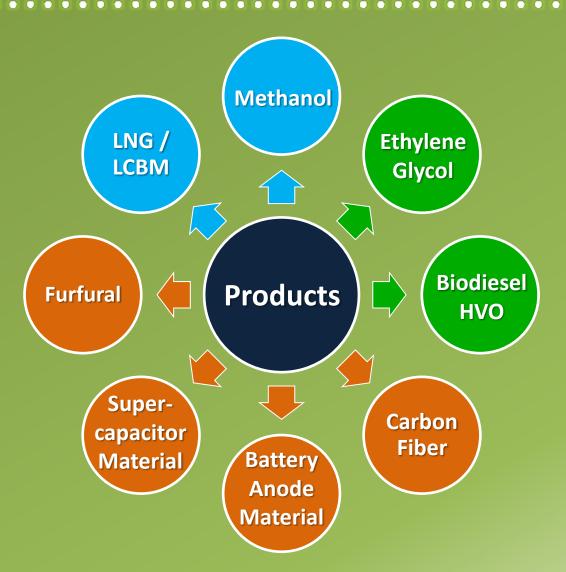


First Plant: Stages

In operation

Pre-production

Under construction





Downstream product of EG



Polyester Fiber



Polyester Film



Antifreeze





Fatty Acid



Palm Acid Oil

- A residual sludge from palm oil extraction from the fruit
- Very acidic

Used Cooking Oil

Separate out from kitchen waste, or used oil from food industry

Hydro-treated Vegetable Oil (HVO)



- Second generation of biodiesel, made completely from wastebased feedstock coming from animal or vegetable fat/oil
- Advantages
 - > Renewable
 - > Oxidization free
 - High cetane number
 - High energy intensity
 - > Low CFPP



Furfural



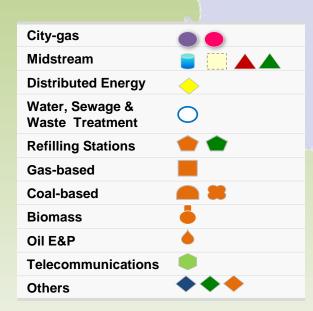
- An important renewable, non-petroleum based chemical feedstock, for the production of:
 - Thermoset polymer matrix composites (cements, adhesives, casting resins, coatings)
 - > Herbicide additive
 - Chemical solvent



Territory Coverage

Total 251 projects in PRC

26 provincial regions







Green Company



- Clean Energy NG Distribution / Utilization
- Energy Efficiency Enhancement
- **◆** Wastes (city, agricultural, industrial) → Fuels/Chemicals
- Clean Coal Technologies









Business Outlook







Business Outlook

Hong Kong Core Business

- Increasing new housing supply
- High hotel occupancy rate
- Develop new markets:
 LFG utilization, gas cooling and dehumidification
- Promising "kitchen solution" market
- Mild tariff adjustments to offset rising costs
- Extend gas supply network to new housing sites



Business Outlook

Mainland Utility Business

- Aggressive Coal to Gas policy drives gas demand growth
- Urbanization continues
- Winter tight gas supply stays a short-term issue
- Opening up the cross-country pipeline for 3rd party access
- Arrival of Russian gas within sight
- More imported LNG under planning
- Develop DES business
- Capitalizing on strong customer base for extended business
- Develop kitchen waste treatment/utilization





Business Outlook

New Energy Business

- Crude price now stands within a favorable range
- Several new facilities are in pre-production or under construction stage
- Demand for the NE fuel/chemical products are high
- New plants are expandable/multipliable
- Several R&D projects are in the pipe-line





Q1) Will downstream NG margin be further reduced?

- Unit gas margin might be squeezed
- Fast gas sales volume growth
- Growth in gas sales profit continues





Q2) Will 7% ROA adversely affect city gas profits?

- Apply to gas distribution only (excluding connection fees)
- Most JVs have not reached that level
- JVs will continue to invest in fixed assets to meet the high demand growth, hence enlarging the asset base
- Implementation of 7% ROA across the board will be complicated and may vary amongst different provinces





Q3) Will the high gas cost situation in winter time continue?

- New NG supply from Russia in 2019
- More LNG supply sources (e.g. Qatar, Australia, etc.)
- Policy to increase storage capacity for peak shaving
- By 2020, the storage requirement for upstream is 10%, downstream is 5%; city government is 3 days
- Gas Cost Pass-through mechanism progresses well



Q4) Will connection fee practice be abolished?

- Is likely to stay
- May go for market competition
- Safety & quality of engineering work must be regulated
- Future maintenance needs provide opportunities





Q5) How well will gas consumption growth continue?

- Government committed to Paris Agreement
- Smog issues must be tackled
- NG's share of primary energy consumption

2015: 5% 2020: 10% 2030: 15%

Consumption forecast (BCM)

2015: 193 2020: 360 2030: 480



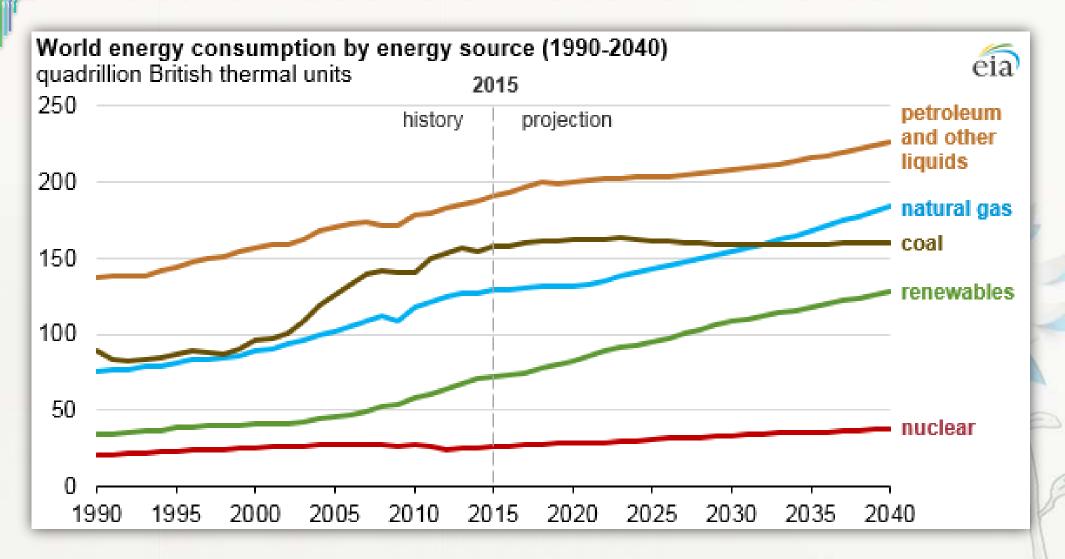


Q6) Will NG (a fossil fuel) be replaced by renewable energies?

- NG is the cleanest fossil fuel & the backbone energy
- Coal and oil will be replaced by NG
- High supply reliability & ease of storage
- Renewable energy will grow but take longer time
- Most of the renewables requires storage
- Electric passenger cars may replace CNG vehicles
- LNG is the clean fuel for heavy-duty trucks & marine vessels











Q7) What is HKCG's plan in securing more NG sources?

- New NG supplies from Myanmar & Russia
- Invest in LNG receiving and gasification terminals
- National grid for 3rd party access
- Invest in provincial networks
- Expand NG storage for peak shaving and gas trading







Q8) How to sustain a high profit growth for NE?

- High demand for EG and HVO. Will expand the capacity.
- In-house developed technologies will be commercialized in 2019
 - Carbon fiber
 - Battery materials
 - Agricultural waste utilization
- Successful technologies can be multiplied





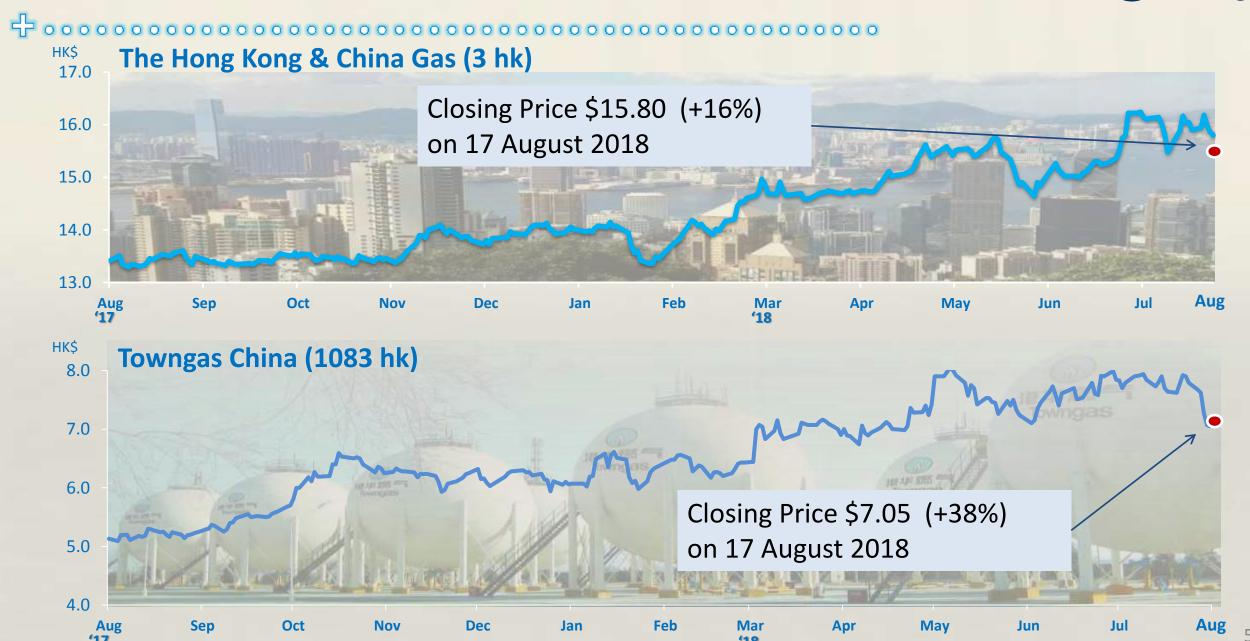
Q9) What are HKCG's plans on "Belt and Road" & "Greater Bay Area" Initiatives?

- Will observe the development of "Belt & Road"
- Operating 20 projects in the Bay Area
- Accelerate the investment in gas, water and waste treatment in Bay Area

52 Weeks Share Price (HSI: -0.5%)











- Steady HK city gas business
- Natural gas will become backbone energy for China
- Mainland city gas will sustain mid growth (fewer new city gas projects)
- Mainland city water will expand to cover city waste treatment/utilization
- Promising NE R&D projects; multipliable; hi-growth
- Tap the Greater Bay Area potentials
- Capitalize on the 26Mn+ customer-base
- US-Sino trade conflict's impact is uncertain
- RMB's depreciation is a concern



We Aspire to be the Greenest Hong Kong Based Company

- Natural Gas (replaces coal, oil)
- Wastes Treatment / Utilization
 - > City Waste
 - > Agricultural Waste
 - > Industrial Waste
- Clean Coal Technologies



Thank You

