



# The Hong Kong and China Gas Company Limited (0003.HK)

**FY2022 Annual Results** 

17 March 2023





### 2022 Review

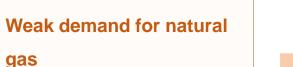
# Instability of International Situation

**Fluctuating** 

**Pandemic** 

& Extreme Weather

- Energy costs surged
- Gas source supply under tension



- Dollar margin narrowed
- Global Efforts in
  Emissions Reduction
- Distributed PV from 0 to 1
- Secure industrial parks contracts

### **Embrace Brightening Future**



- Mild energy prices volatility
- > Stabling gas sources supply



- Rebounding demand for natural gas
- Dollar margin increasing



- Seize share in industrial parks and expedite grid connection
- Realise profits in carbon/green power trading



### **2022 Business Highlights**





**Total Gas Sales Volume** 

**27,398** TJ



**Customers** 

2 million



**Total Revenue** 

8.5 billion



Tariff increased 4.4% in August, generating annual revenue of

320 million





**Accumulative** 

**80** Zero-carbon Industrial Parks

PV (As at March 2023)

Contracted: 1.8 GW

Grid-connected: 1 GW



**Total Revenue** 

8.7 billion

Hong Kong, China

2.1 billion



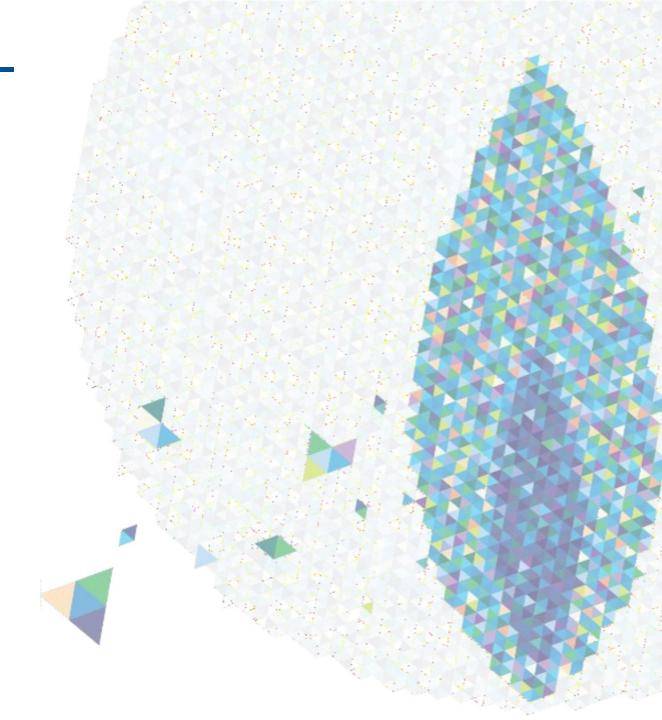
Mainland

**6.6** billion



(Unit: HK\$)

# **ESG**



### Maintain Industry Leading Role, Usher Sustainable Development



### **Symposium Covering All Aspects of**

E, S and G

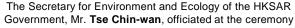
### Corporation





Invest Hong Kong







Summit – Over 20 experts and scholars took turns to speak on ESG-related hot topics

### Approximately 5,000 people attended online and onsite The TNF

Well-known professionals and scholars in the political, business and academic sectors from public utilities, financials investment, social welfare and corporate governance gave speeches and participated in round-table discussion

### Responding to Risks Related to Sustainable Development



#### **Climate-related and Nature-related Directive Guide**

The first company in Hong Kong to adopt the TNFD framework in ESG-related risk disclosures





#### **TCFD & TNFD**

Referenced both frameworks in responding to climate and nature-related risks and opportunities, as well as the impact of future operational plans on climate change and ecosystems

### The TNFD

Forum

#### **TNFD Forum**

Joined TNFD Forum, becoming one of the 800+ members of the global multi-disciplinary consultative group of institution

# **Continuous Promotion of ESG Development and Garner International Recognition**



**Upgrade in ESG rating** 

S&P Global 51->67 (Upgrading)

Included in the **Dow Jones** 

Sustainability Asia for the first time



Upgrade to "A" in 2022

### Major awards and recognition



**Garnered 4 awards in SDG Achievement Awards Hong Kong** 



Centre for Business Sustainability (CBS), The Chinese University of Hong Kong

No.1 of the Greater Bay Area Business Sustainability Index and the Hong Kong Business Sustainability Index



**HKICPA 2022 "Best Corporate Governance and ESG" Awards** 

### **Attain Recognition from Capital Market**





### Hong Kong Green and Sustainable Finance Awards 2022

Hong Kong and China Gas Company (0003.HK) won:

"Pioneering Organization in ESG Disclosure Enhancement" award

#### Towngas Smart Energy (1083.HK) won:

"Outstanding Award for Green and Sustainable Bond Issuer – (Smart Energy) Largest Single Sustainability Linked Bond" award

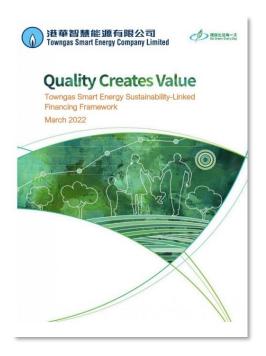




### The Asset Triple A Sustainable Capital Markets Awards 2022

The group issued US\$200 million sustainability-linked bond and won:

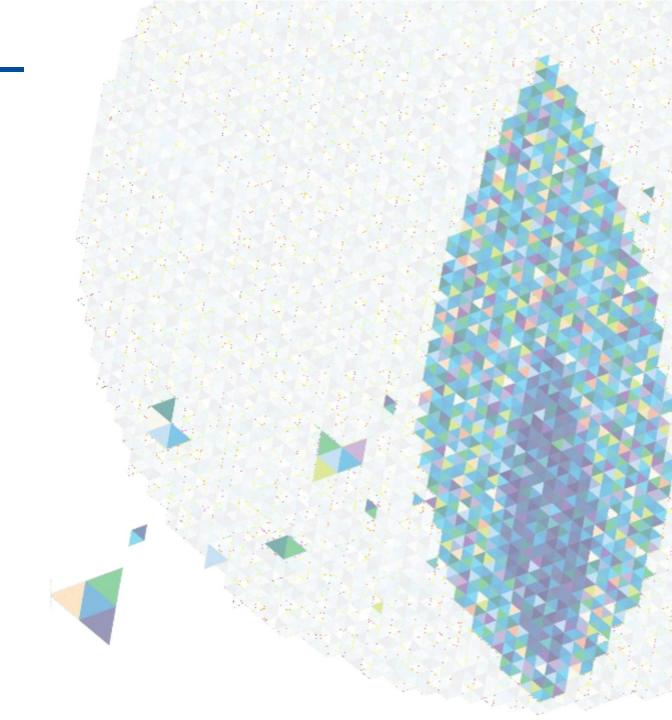
"Best Sustainability-Linked Bond" award



### **AGENDA**

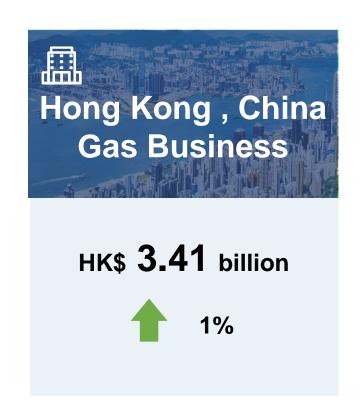
Financial Highlights	P.9
<b>Business Review</b>	
<ul> <li>Utility Businesses</li> </ul>	
<ul> <li>Hong Kong, China Gas Business</li> </ul>	P.14
<ul> <li>Mainland Gas Business</li> </ul>	P.20
<ul> <li>Water and Environmental Business</li> </ul>	P.26
<ul><li>Smart Energy</li></ul>	
<ul> <li>Renewable Energy</li> </ul>	P.29
<ul> <li>"Gas+" Energy Management</li> </ul>	P.37
<ul><li>Extended Business</li></ul>	P.41
<ul> <li>Business Guidance</li> </ul>	P.45

# FINANCIAL HIGHLIGHTS



### **Operating Profit after Tax**









Full Year Operating Profit after Tax: HK\$ 6.04 billion + 16%

# FY2022 Annual Results – The Hong Kong and China Gas Company (0003.HK)



(Unit: million HK\$)	FY2021	FY2022	Changes
Revenue	53,564	60,953	14%
Operating Profit after Tax	7,167	6,040	<b>1</b> 6%
Net Financial Expenses and Provision for Assets	(2,150)	(730)	-
IFC Revaluation Change	-	(62)	-
Profit Attributable to Shareholders	5,017	5,248	<b>1</b> 5%
Basic Earnings per Share (HK Cents)	26.9	28.1	<b>1</b> 5%
Dividends per Share (HK Cents)	35	35	-
Interest Coverage Ratio	8.4x	7.1x	-

### **Healthy Financial Position**



(Unit: billion HK\$)	31 Dec 2021	31 Dec 2022
Total Assets	168.1	168.5
Net Assets	81.8	75.1
Cash and Bank Balances	10.6	13.3
Total Borrowings	55.1	59.3
Net Gearing Ratio*	35.2%	38.0%
Average Cost of Debt	3.1%	3.1%

**Credit Rating:** 

Moody's: A1

**S&P Global**Ratings

**A-**

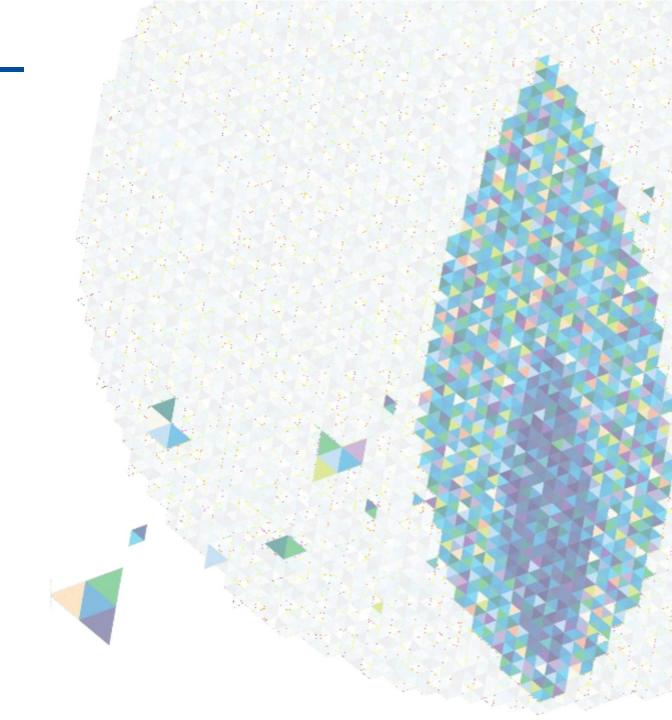
<sup>\*</sup>Note: After exiting from Shanghai Gas, the net gearing ratio will drop to around 35%



### **Group Capital Expenditure: HK\$ 8.32 billion**

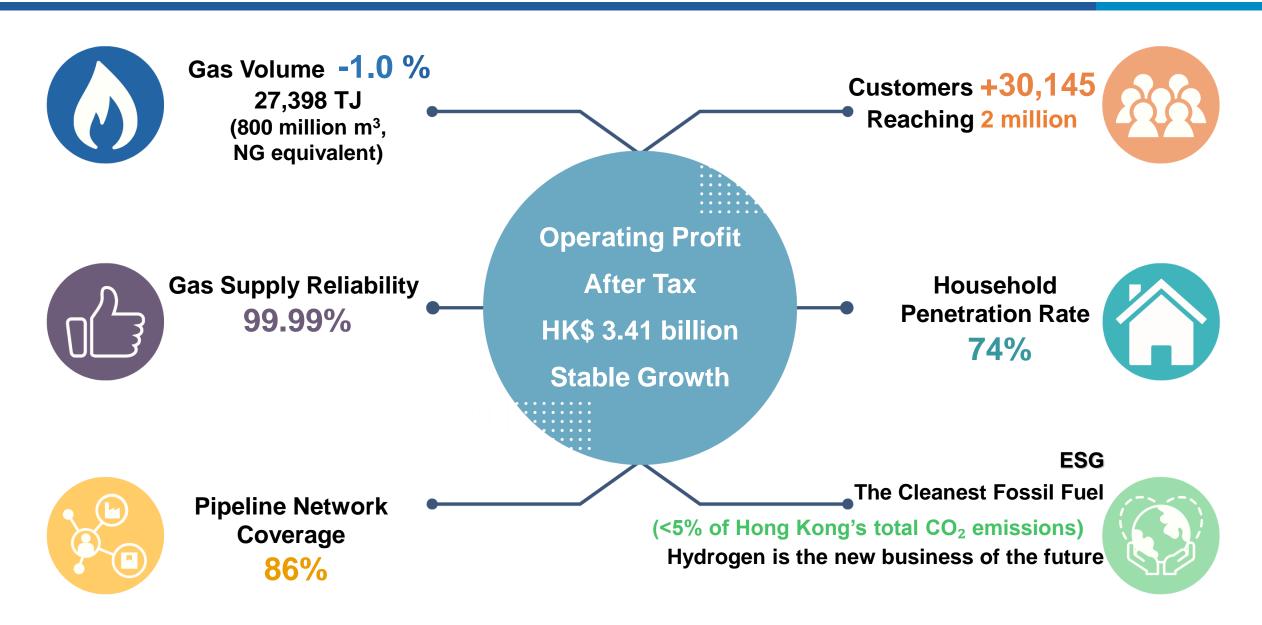
(Unit: HK\$ billion)	2021	2022
0003.HK (including 1083.HK)	8.39	8.32
1083.HK	2.78	3.37

# HONG KONG, CHINA GAS BUSINESS



### **Stable Operation Resisting Pressure**





### **Gas Sales Growth in Hong Kong, China**



Classification	Ta	FY2022	As of 2027	
Residential	Domestic Use (Cooking, clothes dryer, bathroom hot water supply, etc.)	222,700 New customers over the five years	74 TJ	545 TJ
Industrial and Commercial  Hydrolindoo	Gas Cooling/ Heating Applications	Ocean Park, Towngas Telecom, airport and North District Hospital		1,370 TJ
	Diesel Replacement Projects	Hospitals, food production plants and laundries		
	New Projects	Hotels, hospitals, crematoriums and Maxim's new food processing plant	195 TJ	
	Hydrogen Energy Projects	Franchised bus companies, heavy duty vehicles		
	Indoor Air Quality (Dehumidification)	Hotels, hospitals and office		

### **Promotion of Carbon Reduction Programs**





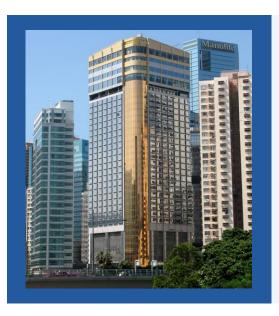
## North District Hospital

Landfill gas: **1.5 MW** combined Heat and Power (CHP) system



 Residual heat at Tai Po Gas Plant used for dehumidification in food production





### Regal Hong Kong Hotel

- With 481 rooms in downtown Causeway Bay
- Steam boilers converted from diesel to gas

## Kwai Chung Crematorium

 4 crematoriums converted from diesel to gas



### Hydrogen Energy Development Advantages and Policy Support



#### **Hydrogen Energy Development Advantages**



A **3,700-kilometre** pipeline network stretching across all districts



Relatively low production and transportation costs



**160 years** of experience in safe operations



Endless supply without the need of large storage

### **Supported by Government Policy**

- Hong Kong's Climate Action Plan 2050: trials of hydrogen fuel cell bus and heavy duty vehicles
- Hong Kong Roadmap on Popularization of Electric Vehicles: development and applications of hydrogen fuel cell vehicles and its infrastructure

The secretary of the Environment and Ecology, Mr. Tse Chin-wan, visited the hydrogen energy system



The convenor of the Executive Council, Ms. Lau Suk-yee, visited the hydrogen energy system



### **Provide PV Solutions in Cooperation with China Power (SPIC)**



# Large-scale Industrial Parks

Projects Under Construction of Industrial Park : 2.4MW



### **Industrial Customers**

Hung Hom Industrial Building Project: 175KW





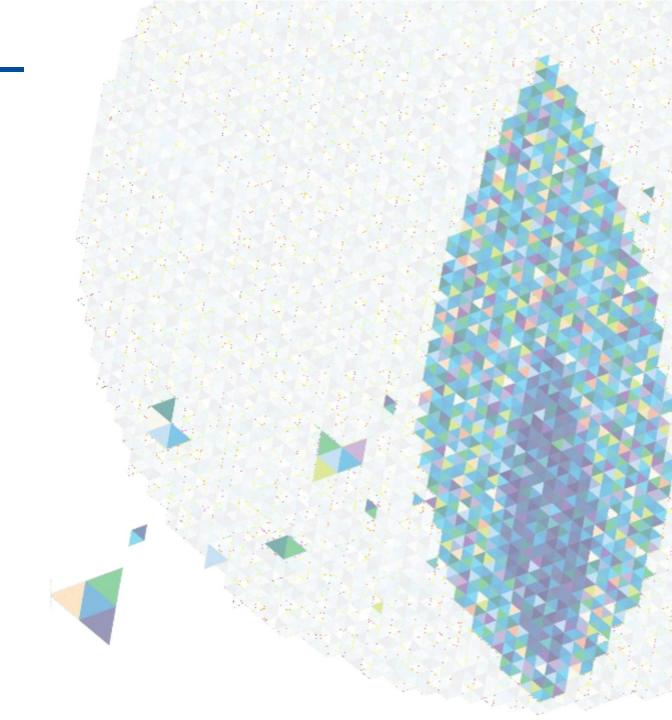
### **Business Customers**

Sha Tin Commercial Building Project: 150KW





# MAINLAND GAS BUSINESS



### **Steady Growth in Operating Scale Amid Pandemic**



# Total Volume of Gas Sales\*

**Total Gas Volume** 

41.8 billion m<sup>3</sup> 15%

**City Gas** 

32.1 billion m<sup>3</sup> 13%

**Dollar Margin** 

0.42 RMB 0.06

City-gas Projects

315

12
new projects

customers

37.29 million

**1** 2.25 million

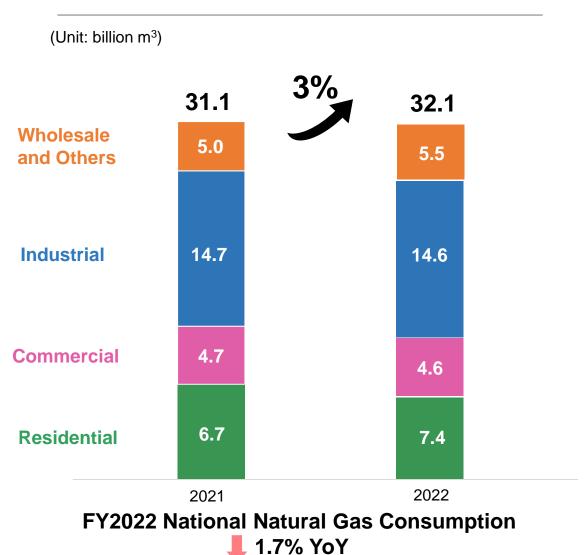
new customers

Note: \*Excluding Shanghai Gas

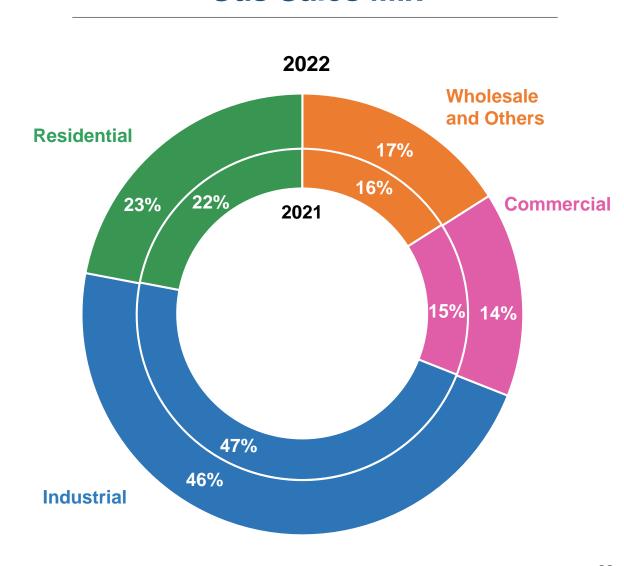
# **Continuous Growth in Gas Volume, Stable Gas Sales Mix**



### **Gas Sales Volume**



### **Gas Sales Mix**



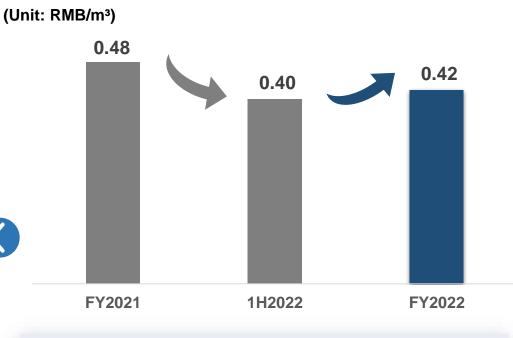
# **Upstream Gas Cost Surged Sharply, Dollar Margin Gradually Stabilised**



### Selling Price, Cost and Dollar Margin

(Unit: RMB	3/m³)	2021	2022	Changes
Selling Price	Residential	2.69	2.71	1 0.02
	Commercial	3.05	3.47	1 0.42
	Industrial	2.98	3.73	1 0.75
	Wholesale	2.75	3.41	0.66
Average	Selling Price	2.91	3.42	0.51
Average Gas Cost		2.43	3.00	0.57
Dollar Margin		0.48	0.42	-0.06

### **Dollar Margin Trend**



- Non-residential gas price achieved cost pass through
- Diversified gas supply sources, with 14% from non-Three Major supplier
- Several provincial capitals are supported by government subsidies

# Enhance the Commercial Value of Resources of the Group and the Ability to Coordinate Supplies of Natural Gas



### Capability of self-managed gas source coordination

2022: ≈1 billion m³ 2023: estimated to reach 2 billion m³, reducing the gas cost by 0.1 RMB/m³



Speed up project construction and secure LNG import by long-term contracts

Will be in operation in mid-2023.

### The commercial functions of Jintan Gas Storage Tank gradually emerging

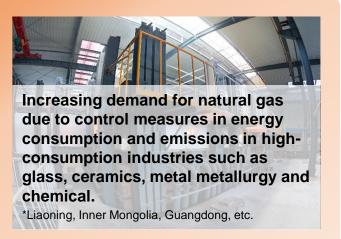
- -Trade volume increased: the trade volume was 400 million m³ in 2022, achieving a turnover three times that of the working gas volume, and is expected to increase to 600 million m³ in 2023.
- Wide variety of business: storage trading, storage services, gas sales, etc.

### **Primary Natural Gas Consumption and the Proportion of Primary Energy Consumption Continue to Rise**



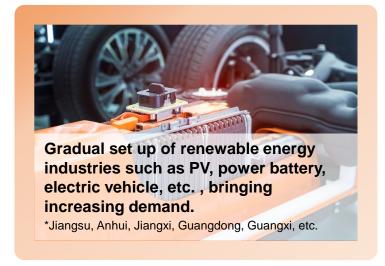
The proportion of national natural gas consumption to primary energy consumption continue to rise from 8.5% in 2022 to 15% in 2040.

# Industria



# me ommerc Sto

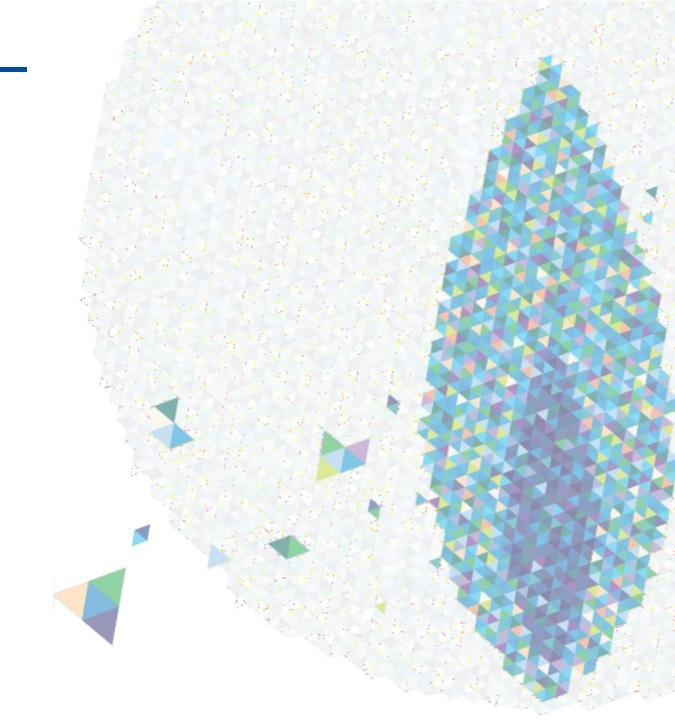






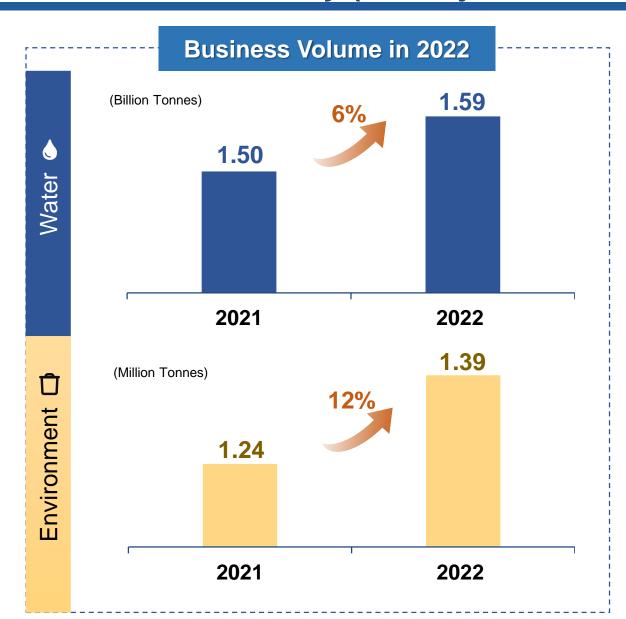


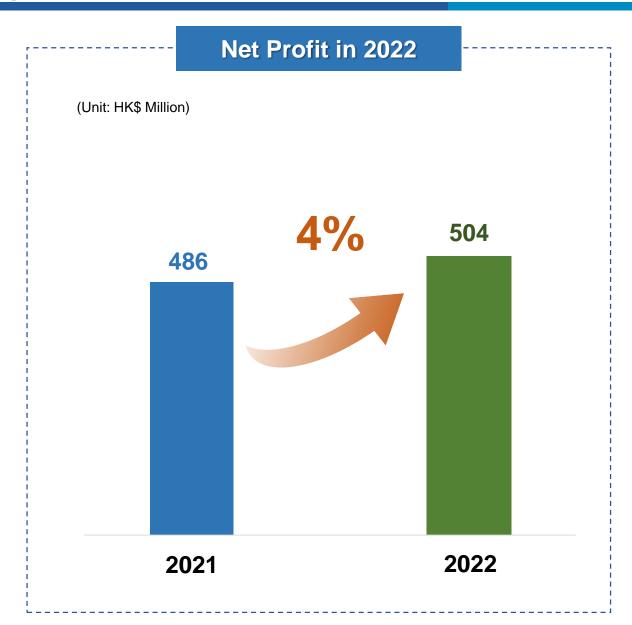
# MAINLAND WATER & ENVIRONMENT



# Profits Increased with Steady Development Despite Downward Pressure of Economy (14 Projects in Total)







### Focus on Project Progress, Actively Expand Core Business



Target the advancement of environmental projects; focus on the development of industrial wastewater and sanitation businesses and comprehensive wastewater management of industrial parks and related businesses in East China.



Industrial wastewater project in Wujin District, Changzhou (Under construction and in operation in July 2023)



Changzhou waste incineration power generation project
(Under construction and expected in operation by the end of 2025)

> The A-share listing of Foshan Water is expected to be in 1H 2024.



- RENEWABLE ENERGY
- "GAS+" ENERGY MANAGEMENT

## Positive Policy Environment Supports Prosperous Achievements in 2023



### Industrial Distributed PV

### User-side Energy Storage

## Energy & Carbon Management

# Policy & Market

### Tariff during peak demand increased

- Module prices dropped
- Time-of-use tariff adjustment in Shandong
- Increase PV investment
- Maintain PIRR above market average

- Peak-trough price difference widened
- PV with energy storage
- Subsidy policy in energy storage

in provinces and cities with favorable policies

- Control measures in total carbon emissions and intensity
- Expand carbon trading industries and entities
- Surging demand for green electricity
- Batch promotion of lowcarbon plants
- Expand carbon and green electricity trading

# Towngas Strategy

### **Achieved 1GW Grid-connected PV in High-quality Industrial Parks**



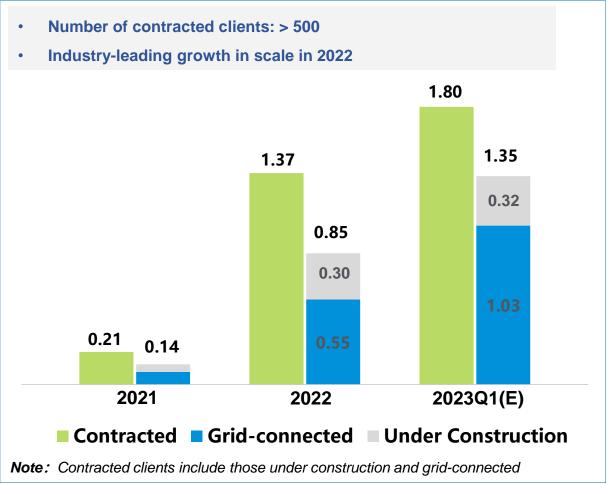


### **Zero-carbon Industrial Parks (80)**





### PV: Accumulative Contracted and Gridconnected (GW)



### An Industry Leader with Rapid Development in Industrial Park PV



### Average Contract Capacity > 30MW (Industrial Parks established for 1 year )



### **Key Success Factors**

- Marketing: Government support, gas synergy
- Service: Carbon management, energy efficiency management, green power trading
- **Engineering:** GW-grade construction, operation and maintenance management
- Risk Management: Compliance process, professional teams, efficient tools
- Intelligence: Management platform, PV cloud, device cloud

### Return on PV Projects above Industry Average



### Average PIRR >10%

(Projects in operation for over 6 months)

#### PIRR of Industrial Park Model **Outperformed**

#### **TSEL**

#### **Development** Cost

**PV Tariff** 

**Procurement** Cost

**Operating and Maintenance Efficiency** 

High (PV+Service, Strong **Bargaining Power)** 

Low (Independent Batch **Development)** 

✓ Low (Joint Procurement)

High (Industrial Park-centric)

#### Market

PV only

3<sup>rd</sup> party Development

**Individual Project Procurement** 

Dispersed

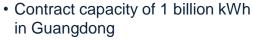
#### **Policy & Market Favor Return of Projects**

- PV module prices dropped
- Peak tariff increased
- Distributed power trading
- Time-of-use tariff adjustment in

**Shandong (short-term impact)** 

### **Establish A Leading One-stop Energy Management Enterprise**





Nationwide trading licenses



 Carbon service contracts worth millions of RMB Towngas
Carbon Asset

Carbon Management & Trading Towngas
Green Power

Green Power Trading

Intelligent Platform & VPP

**Towngas** 

**Digital Energy** 

- PV cloud/Energy&Carbon Services/VPP
- Large-scale client services

#### • High standard HSE

GW-grade construction capability

Towngas
Energy Engineering

Engineering, Operation & Maintenance **Distributed PV** 

Towngas
Energy Conservation

Low-carbon Plants

- Business ecosystem established
- Low-carbon plants demonstration

Towngas
Energy Storage

Industrial
Park Energy
Storage

Towngas
Energy Academy

Zero-carbon Technology

- H2/Energy Storage/VPP Joint Research Centre
- ¥ 10 million subsidy

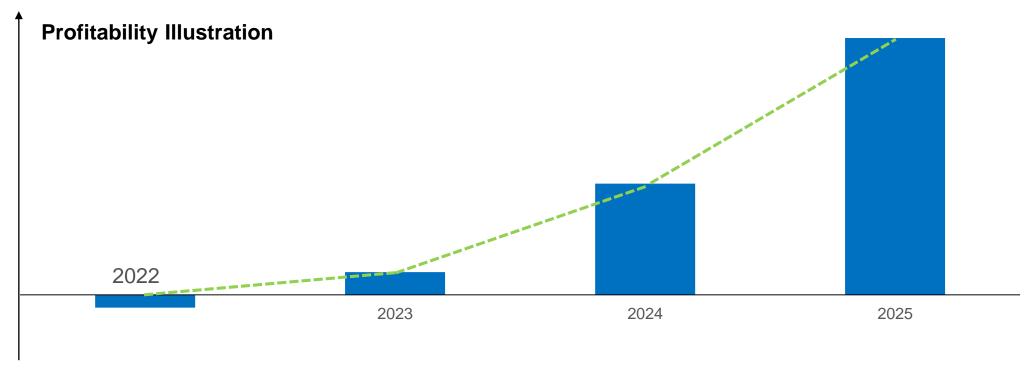
Major product launched

Exemplification in Zhejiang

### **Realise Profits in 2023**



### > Consider IPO at an appropriate time



PV Grid- connected *	Only 0.1GW of annualized effective grid-connected due to pandemic	>1.2GW of annualized effective grid-connected	>3.5GW of annualized effective grid-connected	>6GW of annualized effective grid-connected
Energy/Carbon Services	Capability building with capital investment	Generate primary profits by clients accumulation	Realize profits in scale with expanded client base	Develop VPP
Personnel Deployment	Key energy professionals	Key professionals related to industrial parks	Professionals in place, productivity enhanced	Network of 200 zero-carbon industrial parks

<sup>\*</sup>PV Grid-connected: Refers to annualized effective grid-connected, which equals to the scale of PV operated for a full year.

### **Industry Exemplification and Large-scale Replication**



### Zero-carbon Industrial Park - Hailing, Taizhou



### Low-carbon Development in Top 100 Industrial Districts

- Intelligent energy/carbon management
- 2022 Topics in Focus

### Near-zero Carbon Business - Futian, Shenzhen



Near-zero Carbon Business

District in the Greater Bay Area

- VPP demonstration
- Exemplification of near-zero carbon institutions

### Low-carbon Plants - IPE Group



#### **Low-carbon Plants Benchmark**

- Meeting the pressing need in carbon footprint in exports
- Carbon neutrality certification of Guangzhou Emissions Exchange

### Smart Energy Storage - Jiaxing, Zhejiang



**User-side Energy Storage** 

- High-safety energy storage products
   launched
- Invested by power grid company; a demonstration at the park

## **SMART ENERGY**

- RENEWABLE ENERGY
- "GAS+" ENERGY

MANAGEMENT



# "Gas+": Intelligent Energy Management to Improve Efficiency and Reduce Costs



#### **Penetrate Energy Service Module**



Gas



Heating

Hot water

Geo-thermal energy

**Biomass** 

Combined of heat and power

Combined cooling, heating and power (CCHP)

District Heating

- low-carbon and clean
- safe, reliable

- C&I-Integrated Energy Supply
- Complementary multiple energies
- Lower cost, higher efficiency

- Residential Heating Service
- Warm and comfortable
- Quality assurance





Commercial & Public Industrial customers







C&I-Integrated Energy Supply

176



20

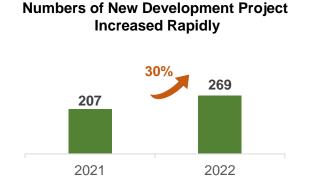
269

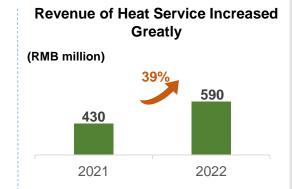
Accumulated Developed Projects

### Overview of "Gas+" Energy Management Development in 2022





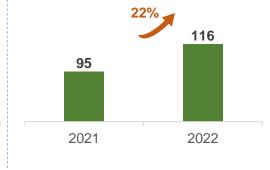




#### Synergic Increase in Energy and **Gas Sales** (Unit: million m³) (Unit: billion kWh) 12% 1.99 93.82 1.78 83.53 2022 2021 2021 2022 **Energy Sales Driving Direct Sales** of Gas



(RMB million)



### 2 billion m³ gas sales volume will be generated after 5 years

Enlarge the value of city gas assets Build new growth potential

# Comprehensive Green, Low Carbon Energy Service Solutions

National heat market capacity: 5 trillion kW

District
Heating

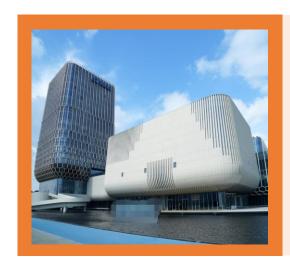
Individual
Power Supply

Energy
Custody

- Rich project reserve
- Robust operation areas
- 50,000+ key target customers
- Industry-leading partners
- Full process service capability
- High reliability & brand reputation

### **Key Projects of "Gas+" Energy Management**





# Well-known pharmaceutical company in Suzhou industrial park

Total installation of 41MW, comprehensive solutions in cooling, heating, steaming and PV

## Secondary school in Zhongshan city

 One-stop services in heating, integrated electric energy and operation and maintenance in a 2000-people boarding school





## Commercial office building in Jinan city

 Provide energy-saving, stable and reliable cooling and heating service, 48,000 m<sup>2</sup> in total

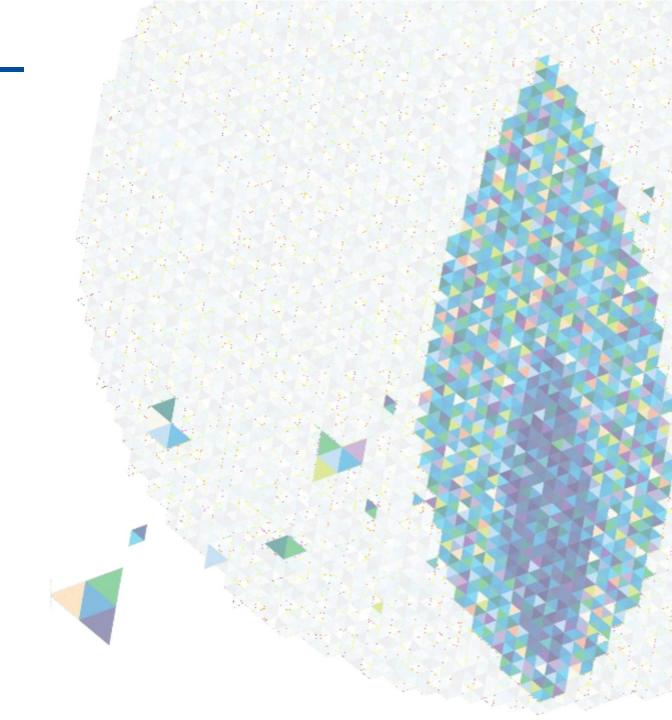
## Industrial park in Tongling city

Obtained concession rights

 on heating to supply steaming
 by residual heat from power
 plant, a total capacity of 199MW



# EXTENDED BUSINESS





### Total Revenue from Extended Business: 8.7 billion



Hong Kong, China:

2.1 billion



**Mainland:** 

6.6 billion

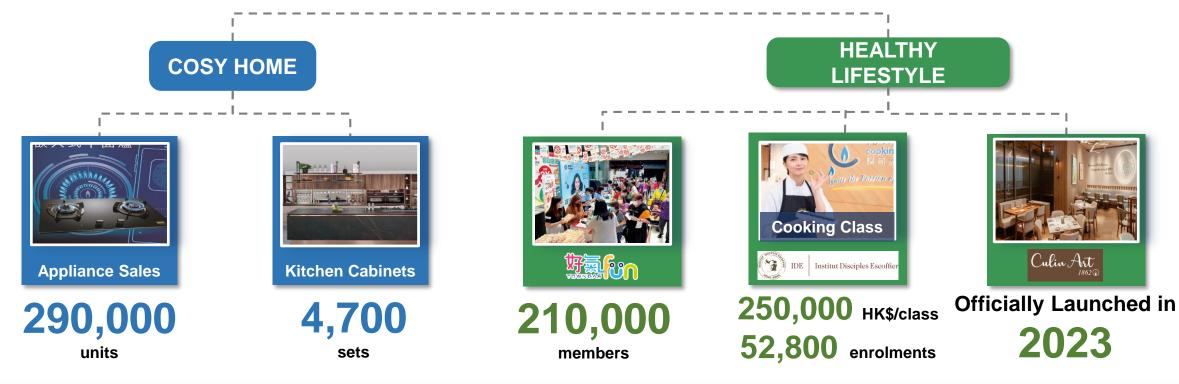
> Consider IPO at an appropriate time

(Unit: HK\$)

### **Business Overview: Hong Kong, China**



## Revenue: 2.1 billion





Mia Cucina





Note: FY2021 revenue of Hong Kong, China (excluding U-TECH) was 2 billion

(Unit: HK\$)

#### **Business Overview: Mainland**



### Revenue: 6.6 billion

COSY HOME 1.7 billion

**HEALTHY LIFESTYLE** (Including gas insurance)

0.6 billion

(Including gas-related engineering)

4.3 billion













**↑19% 11,000** sets **↑22%** 

**Kitchen Cabinets** 

**1** 20%

**1** 25%

130 million times



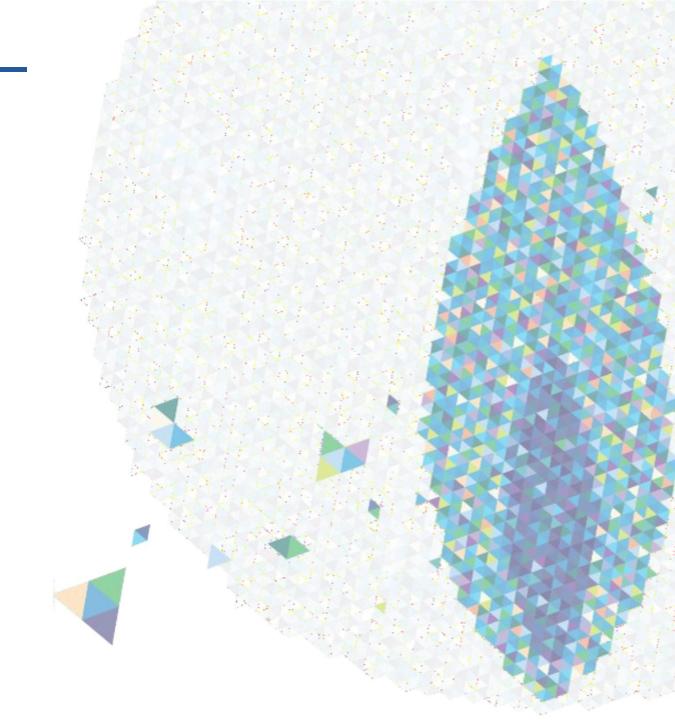
1 Million Active customers on the Platform





(Unit: HK\$)

# BUSINESS GUIDANCE



#### 2023 Business Guidance





**Gas Sales Volume** 



**Number of Customers** 



**Tariff Adjustment Brings Annual Revenue of** 

HK\$ 320 million

Leading Hong Kong, China to the first year of Hydrogen Era



**Gas Sales Volume** 



**Number of Connections** 



2.1 million

**Dollar Margin** 

0.45 RMB/m<sup>3</sup>



Zero-carbon Industrial Parks



Accumulated PV Grid-connected

3 GW



**Total Revenue of Extended Business in 2023:** 

HK\$ 8.9 billion

Hong Kong, China

HK\$ 2.1 billion

**Mainland** 

HK\$ 6.8 billion

**Gross Margin Rate:** 

Around 30%





## **THANK YOU**



### **Disclaimer**



This presentation and corresponding discussion may contain certain forward- looking statements, including statements regarding our intent, belief or current expectations with respect to The Hong Kong and China Gas's businesses and operations, market conditions, results of operation and financial condition, capital adequacy, specific provisions and risk management practices. Readers are cautioned not to place undue reliance on these forward looking statements in relation to holding, purchasing or selling securities or other financial products or instruments. The Hong Kong and China Gas does not undertake any obligation to publicly release the result of any revisions to these forward looking statements to reflect events or circumstances after the date hereof or the occurrence of unanticipated events. Past performance cannot be relied on as a guide for future performance.