

## Towngas Smart Energy (1083.HK)

## **FY2022 Annual Results**

16 March 2023



#### 2022 Review

## Instability of International Situation

Fluctuating

**Pandemic** 

- **Energy costs surged**
- Gas source supply under tension



- Weak demand for natural gas
- **Dollar margin narrowed**



- Distributed PV from 0 to 1
- Secure industrial parks contracts

#### **Embrace Brightening Future**



- Mild energy prices volatility
- Stabling gas sources supply



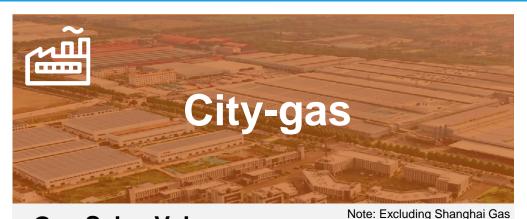
- Rebounding demand for natural gas
- **Dollar margin increasing**



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

#### **FY2022 Business Highlights**





**Gas Sales Volume** 

**15.25** billion m<sup>3</sup>

Eo/

J.ZJ billion m<sup>3</sup>

**City Gas Projects** 

183 projects

**7** new projects

**Customers** 

**15.93** million

**840,000** new customers

**Dollar Margin** 

**0.50** RMB

**0.01**RMB



#### **Accumulative**

**80** zero-carbon industrial parks

PV (As at March 2023)

Contracted: 1.8 GW

Grid-connected: 1 GW



## **ESG**

#### Maintain Industry Leading Role, Usher Sustainable Development



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

E, S and G

#### Corporation





Invest Hong Kong



The Secretary for Environment and Ecology of the HKSAR Government, Mr. **Tse Chin-wan**, officiated at the ceremony



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

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

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



#### Significantly improved in 3 ESG ratings

S&P Global

#### **Overall Rating**

| 2019 | 2020 | 2021 | 2022 |
|------|------|------|------|
| 15   | 19   | 43   | 68   |

Significantly improved



Upgraded to "A" in 2022



Attained "B" on climate change for the first time

#### Major awards and recognition



ESG Leading Enterprise Awards 2022

彭博商業周刊/中文版

#### **Bloomberg Businessweek / Chinese Edition**

ESG Leading Enterprise Awards and Asset Management Institutions Awards



## 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

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





#### **HKQAA**

## Hong Kong Green and Sustainable Finance Awards 2022

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

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

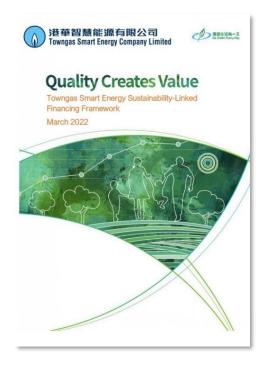




## The Asset Triple A Sustainable Capital Markets Awards 2022

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

"Best Sustainability-Linked Bond" award





## AGENDA

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Smart Energy

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"Gas+" Energy Management

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## Financial Highlights

## FY2022 Annual Results – Towngas Smart Energy (1083.HK)



| (Unit: HK\$ million)   | 2021                   | 2022                   | Changes   |
|--|------------------------|------------------------|---|
| Revenue Piped Gas & Energy Sales Connection Fees Extended Businesses       | 13,951<br>2,429<br>745 | 16,664<br>2,412<br>997 | <ul><li>19%</li><li>↓ 1%</li><li>134%</li></ul> |
|  | 17,125                 | 20,073                 | <b>17</b> %                                     |
| Operating Profit   | 2,121                  | 1,656                  | <b>4</b> 22%                                    |
| Corporate Financial Expenses   | (509)                  | (633)                  | <b>1</b> 24%                                    |
| Operating Net Profit   | 1,612                  | 1,023                  | <b>4</b> 37%                                    |
| Share of Loss of Shanghai Gas  | -                      | (589)                  | -   |
| Change in Fair Value of Embedded Derivative Component of Convertible Bonds | (359)                  | 531                    | -   |
| Profit Attributable to Shareholders  | 1,253                  | 965                    | <b>↓</b> 23%                                    |
| Basic Earnings per Share (HK Cents)  | 41.53                  | 30.17                  | <b>J</b> 27%                                    |
| Interest Coverage Ratio  | 6.1x                   | 4.3x                   | -   |

#### **Healthy Financial Position**



| (Unit: HK\$ billion)             | 31 Dec 2021 | 31 Dec 2022 |
|----------------------------------|-------------|-------------|
| Total Assets                     | 54.2        | 52.9        |
| Net Assets                       | 25.2        | 23.9        |
| Cash and Bank Balances           | 4.1         | 4.0         |
| Total Borrowings                 | 19.5        | 19.7        |
| Net Gearing Ratio*               | 37.9%       | 39.7%       |
| Headquarter Average Cost of Debt | 3.9%        | 3.8%        |

Credit Rating: Moody's: Baa1

S&P Global Ratings : BBB+

\*Note: After exiting from Shanghai Gas, the net gearing ratio will drop to around 30%



## **BUSINESS REVIEW**

- Gas Business
- Smart Energy
  - Renewable Energy
  - o "Gas+" Energy Management

#### **Steady Improvement in Operating Scale Despite the Impact of the Pandemic**



#### **Total Gas Sales Volume** \*

Total

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



Dollar Margin

**0.50** RMB



City-gas **Projects** 

183 projects

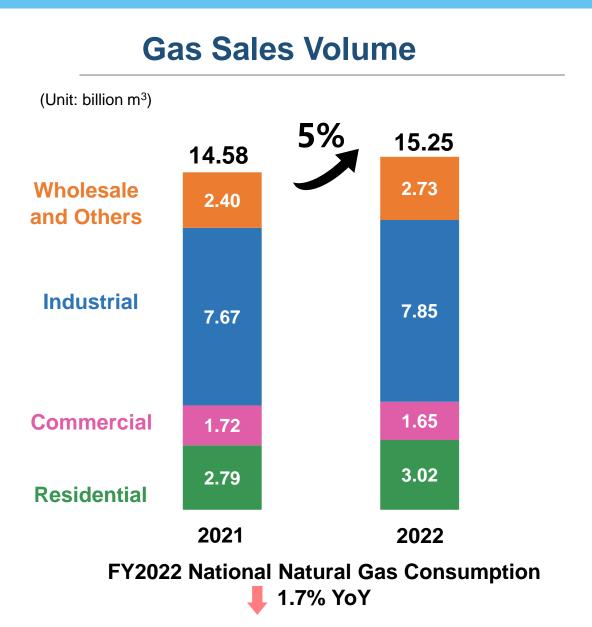
**Customers** 

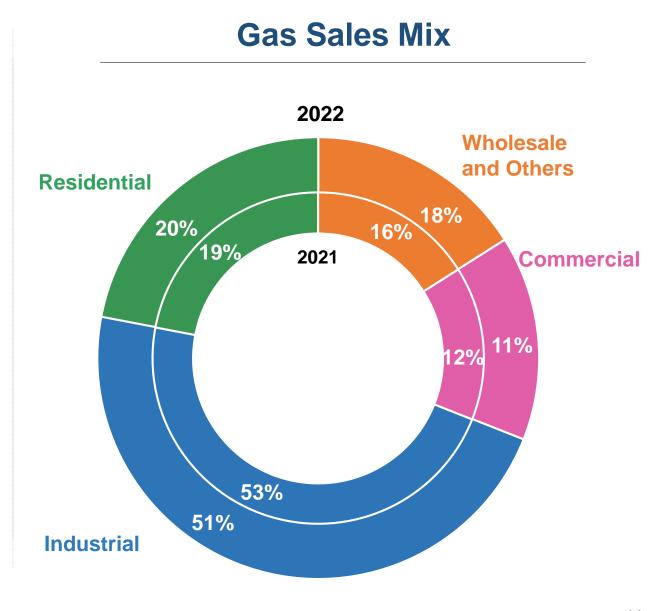
15.93 million

<sup>\*</sup> Note: Excluding Shanghai Gas

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





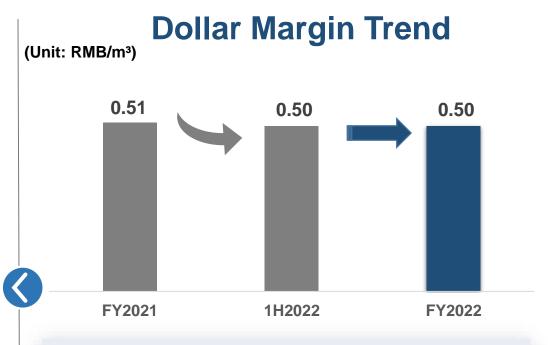


## **Upstream Gas Cost Surged Sharply, Dollar Margin Gradually Stabilised**



#### Selling Price, Cost and Dollar Margin

| (Unit: RMB/m³)        |             | 2021 | 2022 | Changes        |
|-----------------------|-------------|------|------|----------------|
| Selling               | Residential | 2.65 | 2.71 | 1 0.06         |
|                       | Commercial  | 3.11 | 3.46 | 0.35           |
| Price                 | Industrial  | 2.94 | 3.74 | 1 0.80         |
|                       | Wholesale   | 2.83 | 3.27 | 1 0.44         |
| Average Selling Price |             | 2.90 | 3.49 | 0.59           |
| Average Gas Cost      |             | 2.39 | 2.99 | 1 0.60         |
| Dollar Margin         |             | 0.51 | 0.50 | <b>I</b> -0.01 |

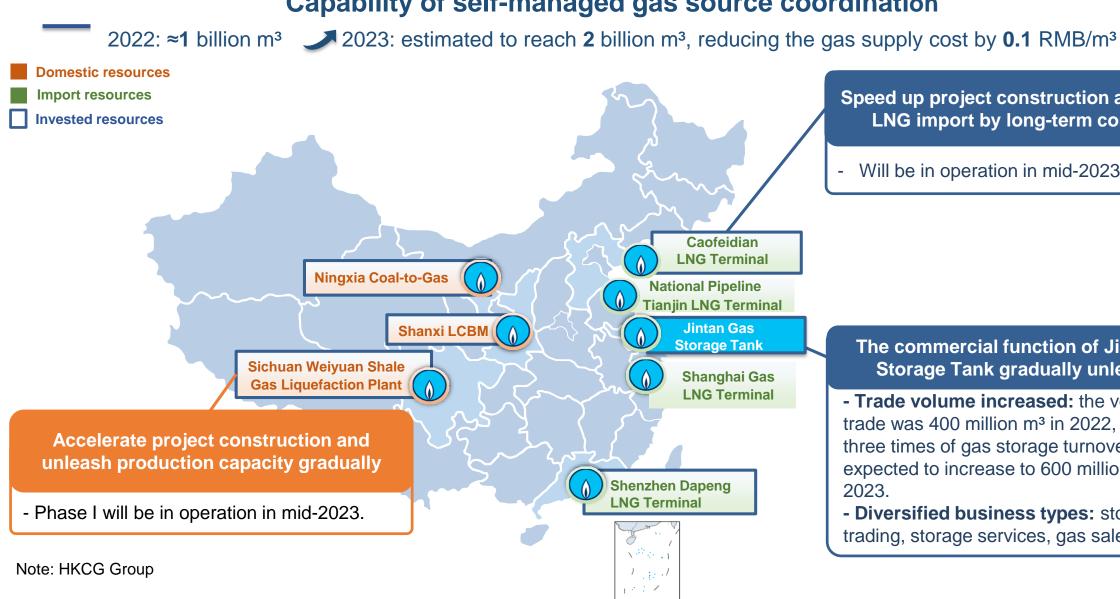


- Gas cost improvement by sourcing non-Three Major gas sources.
- The average gas purchasing price in 2022 increased by 0.60 RMB/m³ compared with 2021.
- Cost pass through and subsidies offset 0.59
   RMB/m³.

#### **Enhance the Commercial Value of the Group's Superior Resources and Gas Source Distribution Capability**



#### Capability of self-managed gas source coordination



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

Will be in operation in mid-2023.

#### The commercial function of Jintan Gas Storage Tank gradually unleashed

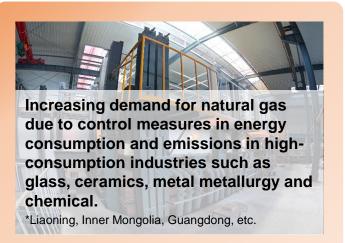
- Trade volume increased: the volume of trade was 400 million m<sup>3</sup> in 2022, achieving three times of gas storage turnover, and is expected to increase to 600 million m<sup>3</sup> in 2023.
- Diversified business types: storage trading, storage services, gas sales, etc.

#### National Natural Gas Consumption and the Proportion to One-off **Consumable Energy Continue to Rise**



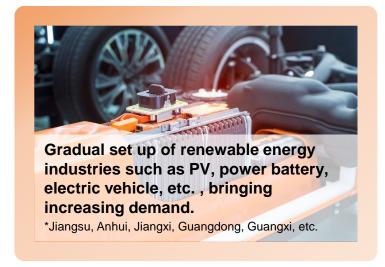
The proportion of amount of national natural gas consumption to one-off consumable energy continue to rise from 8.5% in 2022 to 15% in 2040.

# Industria



## me ommerc Sto









## **Shanghai Gas Updates**



- On 16 March 2023, TSEL entered into a legally binding MOU with Shenergy Group and Shanghai Gas, pursuant to which the Parties agreed to the exit of TSEL from its entire investment of 25% equity interest in Shanghai Gas.
- The consideration payable to TSEL for the Exit is to be agreed between the Parties to the MOU based on a valuation of Shanghai Gas as at 28 February 2023 to be conducted by a valuer and approved by the required governmental supervisory authority. Pursuant to the MOU, from 1 March 2023, TSEL ceased to have any rights and responsibilities of Shanghai Gas.
- will establish deep and solid strategic relationships in the fields of, among others, natural gas
  resources and supply chain, renewable energy business, extended services, energy, and low-carbon
  technology.



## **BUSINESS REVIEW**

- Gas Business
- Smart Energy
  - 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

Towngas Strategy

- 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 provinces and cities with favorable policies

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

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



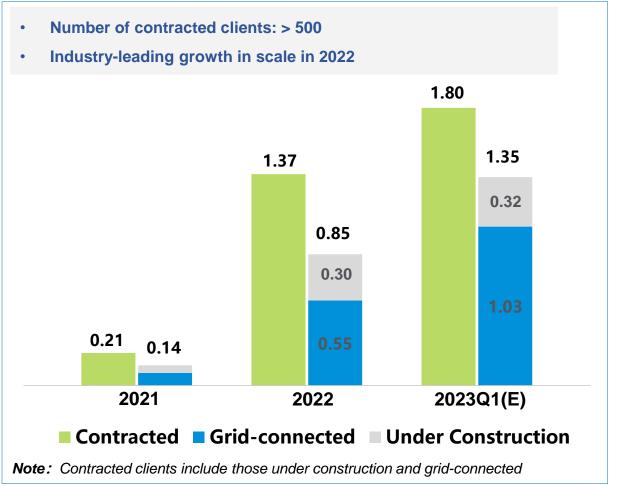


#### **Zero-carbon Industrial Parks (80)**





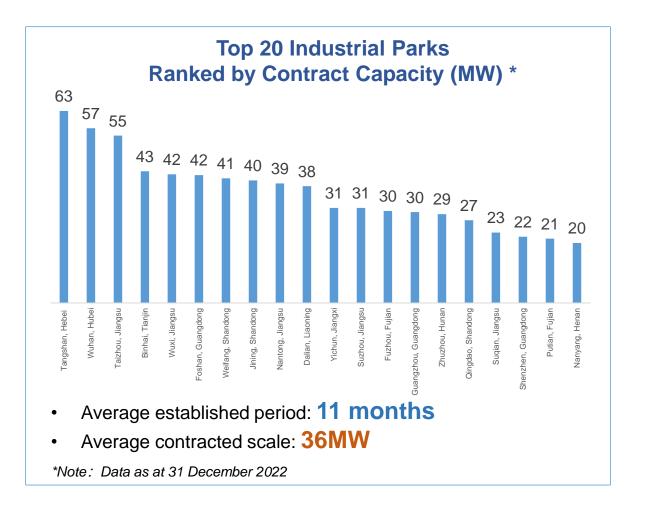
#### PV: Accumulative Contracted and Gridconnected (GW)



#### 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**

**PV Tariff** 

**Development** 

Cost

- High (PV+Service, Strong **Bargaining Power)**
- Low (Independent Batch **Development)**
- **Procurement** Cost
- **Operating and** Maintenance **Efficiency**
- ✓ Low (Joint Procurement)
- High (Industrial Park-centric)

#### Market

PV only

3<sup>rd</sup> party Development

**Individual Project Procurement** 

Dispersed

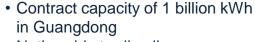
#### **Policy & Market Favor Return of Projects**

- PV module prices dropped
- Peak tariff increased
- **Cross-premise power trading**
- Time-of-use tariff adjustment in

**Shandong (short-term impact)** 

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





Nationwide trading licenses

#### Scale acquisition of CEA

 Carbon service contracts worth millions of RMB

#### Towngas Carbon Asset

Carbon Management & Trading

## Towngas Green Power

Green Power Trading

Digital Energy
Intelligent Platform
& VPP

**Towngas** 

- 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

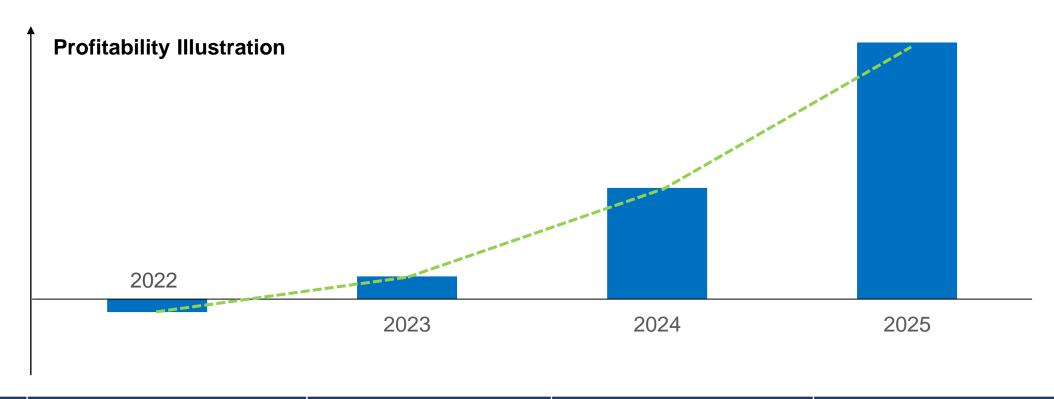
- H2/Energy Storage/VPP Joint Research Centre
- ¥ 10 million subsidy

Major product launched

Exemplification in Zhejiang

#### **Realise Profits in 2023**





| / Grid-<br>onnected *   | <ul> <li>Only 0.1GW of annualised<br/>effective grid-connected due to<br/>pandemic</li> </ul> | >1.2GW of annualised effective grid-connected    | >3.5GW of annualised effective grid-connected                         | >6GW of annualised effective grid-connected |
|-------------------------|---|--|---|---|
| nergy/Carbon<br>ervices | Capability building with capital investment   | Generate primary profits by clients accumulation | Realise profits in scale with expanded client base                    | Develop VPP                                 |
| ersonnel<br>eployment   | Key energy professionals  | Key professionals related to industrial parks    | <ul> <li>Professionals in place,<br/>productivity enhanced</li> </ul> | Network of 200 zero-carbon industrial parks |

\*PV Grid-connected: Refers to annualised 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

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



## Large-scale Industrial Parks

Projects Under Construction of Industrial Park: 2.4MW



#### **Industrial Users**

Hung Hom Industrial
Building Project: 175KW





#### **Business Users**

Shatin Commercial Building Project: 150KW







## **BUSINESS REVIEW**

- Gas Business
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  - o "Gas+" Energy Management

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



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



Gas

Vapour

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



Government Industrial Parks



Commercial & Public Industrial customers



customers

District Heating 39



C&I-Integrated Energy Supply

108



19

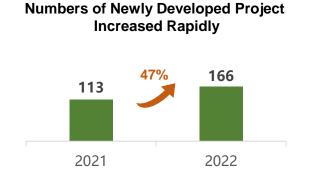
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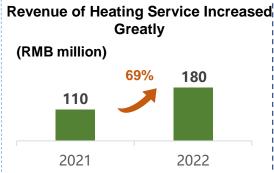
Accumulated Developed Projects

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



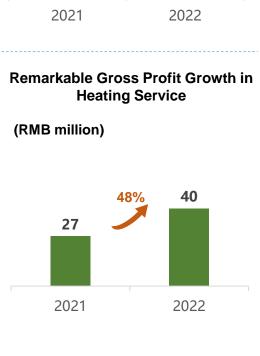
#### **Initial Results of Development**





# (Unit: billion kWh) (Unit: million m³) 30% 0.42 19.14 2021 2022 2021 2022 Energy Sales Driving Gas Volume Sales

Synergic Increase in Energy and Gas



## 1.2 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



- 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**





#### **Factory in Qingyuan**

8 Tonnes of steam/hour
Gas Boiler+Pipe with high
efficiency, saving industrial
energy production cost

## Higher Vocational Education Industrial Park in Nanjing

 Air-sourcing + efficient Air Conditioning + Gas Condensing Boiler, covering the heating and cooling demand of nearly 200,000 people





#### **Community in Wuhu**

High-efficient Gas Pump +
 Household Floor Heating
 construction providing a
 residential area of 140,000
 sqm with clean and reliable
 district heating service

## **Industrial Park in Maanshan**

 Gas + distributed energy franchise providing 25MW for energy station, meeting steam and heating demand of the community





## **Business Guidance**

#### **2023 Business Guidance**





**Gas Sales Volume** 



12%

**New Connections** 



900,000

**Dollar Margin** 

**0.52** RMB/m<sup>3</sup>



**Zero-carbon Industrial Parks** 



40

**Accumulated PV Grid-connected Capacity** 

**3** GW



## **THANK YOU**

#### **Disclaimer**



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