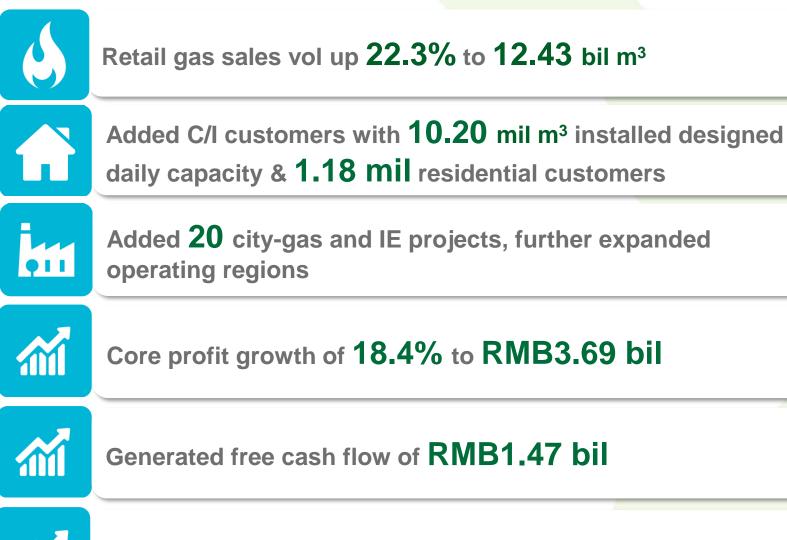


2021 Interim Results Company Presentation

23rd August 2021



Solid Results amid Challenging Environment

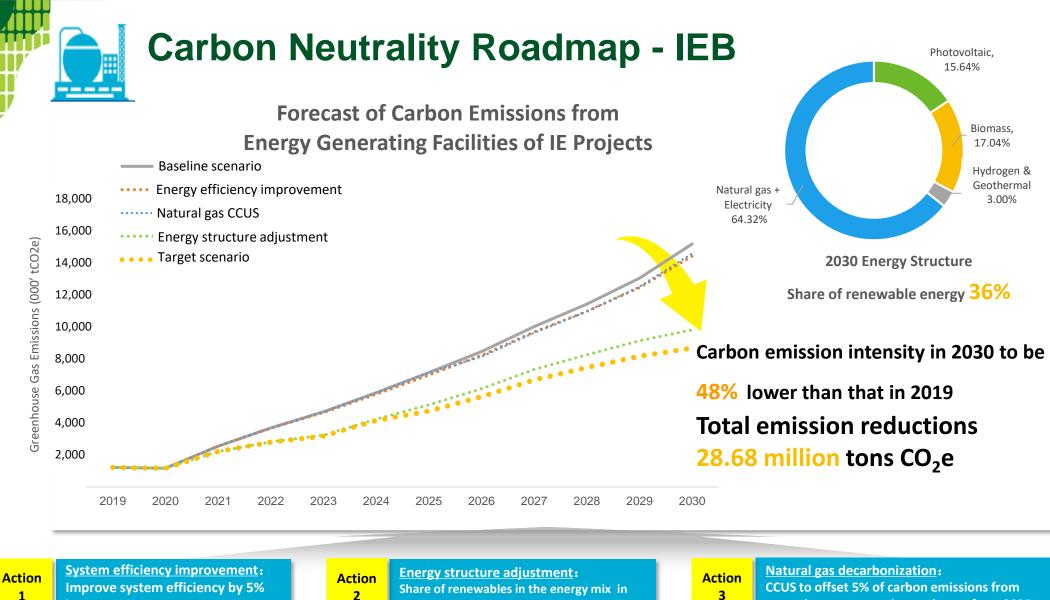


First interim dividend declared of HKD0.59/share



Carbon Neutrality Roadmap - City Gas

Methane Emission ("ME") Management	•	Join MGP & China Oil & Gas Methane Alliance, set 2025 ME target Establish for identification, monitoring a reporting standard of ME; Incorporate methane management into daily operati By the end of 2022, 100% coverage of cloud-based ME monitoring system at cir gate stations	on •	Disclose ME data align with MGP and refer to best practices, continue to optimize the quantification and transparency Build carbon management teams, and incorporate ME management KPIs in performance assessment and link with compensation		Control the ME intensity under 0.25% and continue to improve data transparency Continue to boost the application of methane measurement techniques and practices, and encourage business partners to improve the ME management and information disclosure.	ł	
Daily Operation Go Green	•	Improve utilisation of renewable energy, and realise full coverage of photovoltaic self-owned buildings, and promote coverage of photovoltaic in city-gate and gas refuelling stations. Carry out a low-carbon energy-efficiency, reform of the headquarters building by t end of 2021, aiming to reduce carbon emissions by 50% upon the reform. Encourage the replacement of self-owner business vehicles by new energy vehicles	in • I he	Green three-star standards for new office buildings. Replace 50% of self-owned vehicles with new energy vehicles.	•	Reduce energy consumption of self-owned buildings by 10%, aiming to reach 5% of electricity consumption generated by solar energy, and continuously increase th use of renewable energy Improve electrification of energy consumption; Purchase green power when appropriate		2050 Carbon Neutrality Carbon emission
Energy Transportation Decarbonization Others	•	No incremental oil-powered vehicles, accelerate the replacement of diesel vehicles by low-carbon fuels Continue to optimize and promote intelligent dispatching, in-transit cloud a other digital and smart tools to enhance efficiency and reduce empty-loaded rate		Phase out all diesel transportation trucks by 2025 Keep track of the development of hydrogen /bio-fuelled vehicles and refueling stations	•	Take low-carbon transportation as core requirement when engage with business partners Utilise zero-carbon fuel like hydrogen, bio-fuels when appropriate	K	intensity in 2030 to be 20% lower than that in 2019
202	21		2023	3 20)25		2030	2050



by 2030 Photovoltaic installations reaching

9900 MW in 2030, 16% of IEB **Photovoltaic** energy mix



2030 increase to 36%

2030, 17% of IEB energy mix

Increase in annual biomass consumption from

0.5 million tons in 2021 to 3.27 million tons in

3

natural gas consumption each year from 2025

3% of IEB energy mix by 2030 Hydrogen & Geothermal

Introduce hydrogen energy from 2025

Upholding our Safety-Oriented Principle

Pay High Attention to Safety

- ENN's Chairman Wang, Vice Chairman Mr. Zheng, President Mr. Zhang and other senior management have performed security inspections, incl. construction security management, old pipelines replacement & retrofitting, digital and smart safety applications and other aspects of member companies
- Adhere to the safety principle of "Safety Issues are Wellacknowledged, Visible and Properly Managed" and "Security is the Brand of ENN"

Strengthen Process Monitoring

- Use smart security platform to conduct real-time monitoring of member companies' security data
- Perform engineering and operational security supervision and inspection and special security assessment
- Oversee every member company's efforts in guaranteeing safety and link such efforts to performance evaluation
- Require every member company to conduct a comprehensive emergency drill at least semi-annually



Smart security platform



Each regional company organizes a **skill competition** each year

Pipeline Network Safety

- Complete the replacement & retrofitting of old pipelines
- Leak testing + corrosion testing
- Pipeline positioning + GIS
- SCADA + online simulation

Citygate Station Safety

- Conduct safety assessment and control hidden hazards
- Process safety + leak testing + site inspection + peripheral security
- Real-time monitoring by laser camera
- Identification of unsafe behaviors via AI camera equipment

Engineering Safety

- Contractor management optimization
- Platform monitoring of key processes to guarantee engineering governance
- Management and control of dangerous operations
- Full-process visualization control and data tracking

User Safety

- Provide regular door-to-door inspection
- Optimize indoor design solutions
- Install alarms, self-closing valves, secure smart gas meters and other indoor security monitors
- Encourage users to use IoT meters
- Carry out safety promotion events to enhance user safety awareness
- Provide 24-hour hotline [95158]











Penetration rate of IoT meters of C/I customers reached 42%

Strong Safety Assurance Capabilities

Set a Solid Foundation

Ensure Security

High-pressure Pipeline Network

- ✓ Completed cathodic protection installations
- ✓ Use bluetooth leak detectors, laser inspection vehicles, remote monitoring, Beidou positioning and other smart devices to check the effectiveness of cathodic protection measures and pipeline corrosion protection

Medium and Low-pressure Pipelines

Pipelines have been constructed for 20 years or more:

✓ Retrofitting and repairing completed

Pipelines under 20 years:

monitoring

- Completed pipeline corrosion testing and evaluation
- Repair pipelines that corrode easily, and if it is difficult to make such repairs, strengthen cathodic protection and check the effectiveness of cathodic protection measures
- Bury low-pressure steel pipelines, check pipeline positioning before completion of the above work, and record information into GIS

Emergency Response



Professional and Efficient

- Formulate an integrated emergency management system to cover all business scenarios
- Arrange for all production business personnel to participate in **emergency drills** as requested and assess the results of such drills
- Arrange for all enterprises to dispatch emergency rescue teams to coordinate emergency management efforts with local government
- Ensure allocation of all **emergency** supplies
- Boost the construction of emergency storage stations, and improve the emergency gas storage and peak regulation capacity
- Consistently **check and improve** emergency response capacity in anti-epidemic, anti-flood and other emergencies

IoT Monitoring Timely Warning

Abnormal fluctuation in key parameters, warnings and interlocking Abnormal alarms of key sources of danger Key/high risk equipment abnormality/warning/defect		Leak, fire alarm (flame, combustible gas, toxic gas and harmful gas)	Al recognition of personnel operation Nonconformity/ violations	Personnel qualification and outstanding ability Weak points in key management
E Key parameter monito (pressure, temperatur traffic), and key inter	e and	anger		Leak monitoring & detection

ē

Improve Safety by Applying Digital and Smart Products

Establish a standardized, digitalized and smart safety management structure for all business scenarios

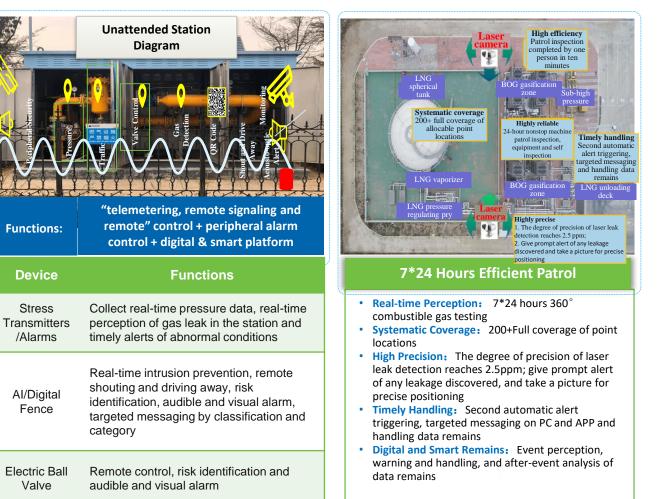
Construction Visualization

Business process Danger warning Danger warning Worker Danger warning Danger Warning Danger Warning Digital PC Digital PC

Scenario	Functions
Material Collection & Inspection Reporting	Protection of materials and AI recognition of pipeline blocking
Assembly and Welding	AI recognition and detection of personnel wearing and operation qualification
Damage Testing	Strict control of input parameters of automatic hot melt machines/electric welders
Anti-corrosion and Patching	Pipeline painting and AI recognition and detection
Blowing and Sweeping	Using smart pressure data acquisition equipment for real-time monitoring of pipeline testing process

Unattended High and Mediumpressure Citygate Stations

Patrol Inspection by Laser Camera





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Robust Growth

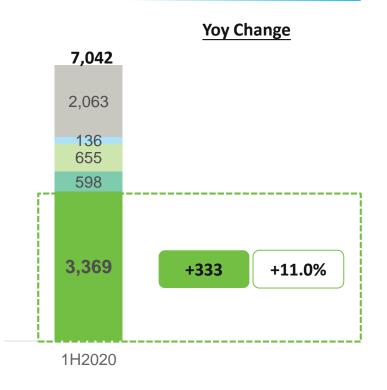
(RMB mil)	1H2021	1H2020	Change
Key financial data			
Revenue	41,232	31,543	^ 30.7%
Segment Revenue			
Retail Gas Sales	23,138	18,191	17.2% Vol growth, gas price hike
Integrated Energy Business	3,662	2,101	^74.3% Higher utilization, new projects commenced operation
Value Added Business	837	663	126.2% Enriched product mix & service
Wholesale of Gas	9,768	7,919	123.3% LNG price hike
Construction & Installation	3,827	2,669	 <u>43.4%</u> More connections & stable fee
Gross Profit	7,042	5,602	1 25.7%
EBITDA	6,634	5,407	↑22.7%
Profit attributable to Shareholders	3,765	2,693	↑ 39.8%
Core Profit*	3,685	3,112	18.4%
Core EPS (RMB)	3.26	2.77	^ 17.7%

*Core Profit = Profit attributable to shareholders - other gains and losses (excluding net settlement amount realised from commodity derivative contracts) and share-based payment expenses

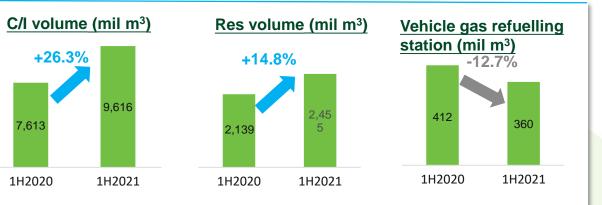
Retail Gas Sales Business

- > Natural gas consumption remained rapid growth driven by growing economy & low-carbon policy
- Adopted flexible pricing strategy and diversified resources to expand gas sales volume, seizing opportunities brought by the dual carbon goals, clean heating and coal replacement

1H2021 Gross Profit (RMB mil)



Interim Performance



Change in dollar margin

(RMB/m³)	1H2021	1H2020	1H2019
Residential	2.93	2.83	2.76
C/I	2.93	2.77	3.29
Vehicle gas station	3.78	3.51	4.08
ASP	2.95	2.81	3.24
Average cost	2.34	2.14	2.60
Dollar margin (ex VAT)	0.56	0.61	0.58

Change in customer mix, i.e. higher share of large customers

- ✓ LNG price surged due to strong demand
- ✓ Citygate price hike, delayed pass through to residential users

Retail gas sales
 Value added business
 Construction & installation

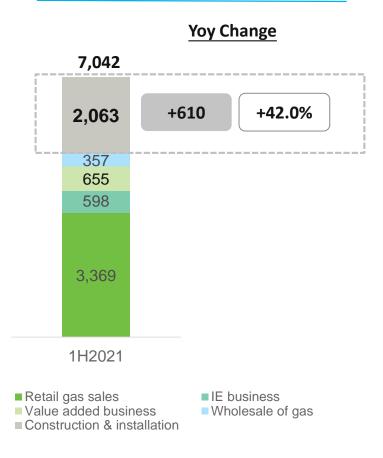
IE businessWholesale of gas

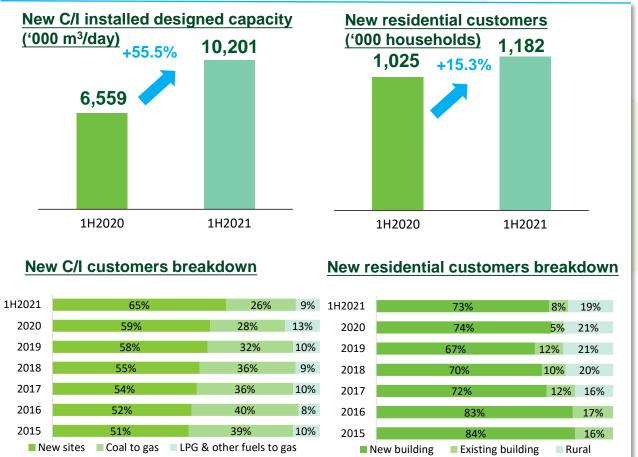
Construction & Installation

Continued to explore C/I users development potential, push forward industrial coal replacement progress
 Urbanisation & people's pursuit of quality life, brings huge opportunity of urban residential users development

1H2021 Gross Profit (RMB mil)

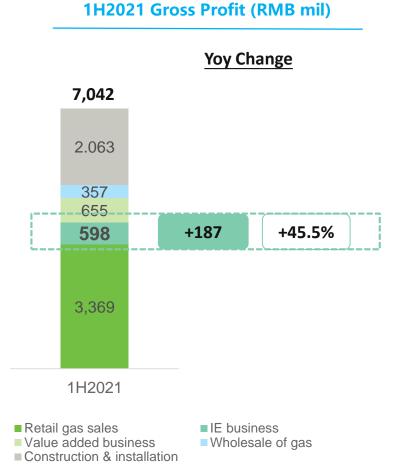
Interim Performance



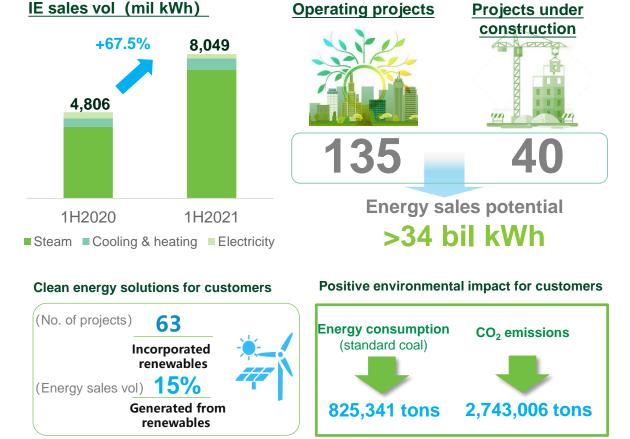


IE Business

- Projects gradually ramped up, integrated energy sales increased significantly
- Provided customers with low-carbon/zero-carbon energy solutions which were customer-oriented, adaptive to local conditions, renewables prioritized use



Interim Performance



IEB – Industrial Park

Developed the industrial park's IEB and support regional low-carbon improvement adaptive to local conditions and by focusing on energy saving and high efficiency, prioritizing the use of renewable energy and utilizing multi-energy sources

A Food Processing Industrial Park in Shandong

Rooftop sola

Updraft fixed

bed gasifier

Rice

hull

✓

 \checkmark

Gas

gasifier

electricity services

Steam

400V low voltage

grid-connected

grid-connect

Sell

Steam

Plan: Biomass integrated energy station + steam pipe

network + Solar power generation + biomass charcoal +

safety technology, energy-saving technology service and

Total investments: RMB59.18 million, average annual

energy station

Steel

nlant



- Plan: Waste heat from garbage-burning power plant + steam ✓ differential pressure to generate electricity + distributed PV
 - + thermal oil boiler hosting + energy management platform + medium and long-term gradual development of "zerocarbon" smart energy demonstration project through electricity services, energy storage, hydrogen and carbon sinks
- Total investments: RMB99.77 million, average annual √ revenue: RMB107 million
- IRR: 15%, payback period: 7 years







Clean electricity 8.95 million kWh/year



Biomass charcoal 18,000 tons/year

revenue: RMB46.92 million

✓ IRR: 20%, payback period: 5 years

132.000 tons/vear

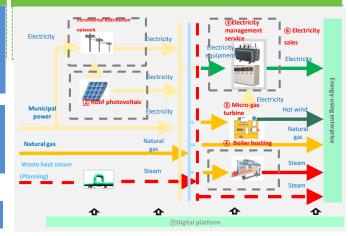


Reduce Co₂ emissions 58,000 tons/year

220,000 tons/year

Reduce Coal

An Economic Development Zone in Anhui



- ✓ Plan: Solar power generation + natural gas distributed power generation + power and thermal facilities energy saving and operation services + biomass waste heat steam + green power trading services
- ✓ Total investments: RMB26.57 million, average annual revenue: RMB67.58 million
- ✓ IRR: 15%, payback period: 7 years

Steam

Electricity



Reduce coal 29,000 tons/year



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IEB - Solar

- Boosted the sales of gas, electricity and heat leveraging on distributed solar, established smart integrated energy system in the region
- 19 projects in operation and under construction, installed capacity of 55MW, expect to reach 400MW by the end of the year

2MW Solar Project of Daging

Dongcheng Water Plant

Management,

operation

and

boiler management &

operatio

Natural gas supply

maintenance

q

electricity facilitie:

Distributed solar + electricity sales

Policy support:

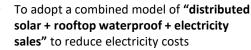
- Notice on Organizing the Application for the Pilot Scheme for the Development of the Roof Distributed Solar of the Whole County (District, City) by National Energy Administration
- 23 provinces (autonomous regions, municipalities) have issued pilot documents for the promotion of rooftop distributed solar

Customer needs:

 In the context of the dual carbon goals, customers' demand for cost and carbon reduction as well as energy efficiency have increased

Resources advantages:

- ENN Energy has huge C/I user rooftop resources (>3GW)
- Synergy between citygas concessions, integrated energy projects and incremental power distribution networks



- Energy-saving service, regular inspection, operation and maintenance, and other services for electricity facilities
- Boiler management helps customers reduce heating costs in winter
- Investment amount: RMB 10,400,000
- Average annual revenue: RMB 1,630,000
- Power generation: 2.73 million kwh
- CO₂ emission reduction: **23,397 tons**





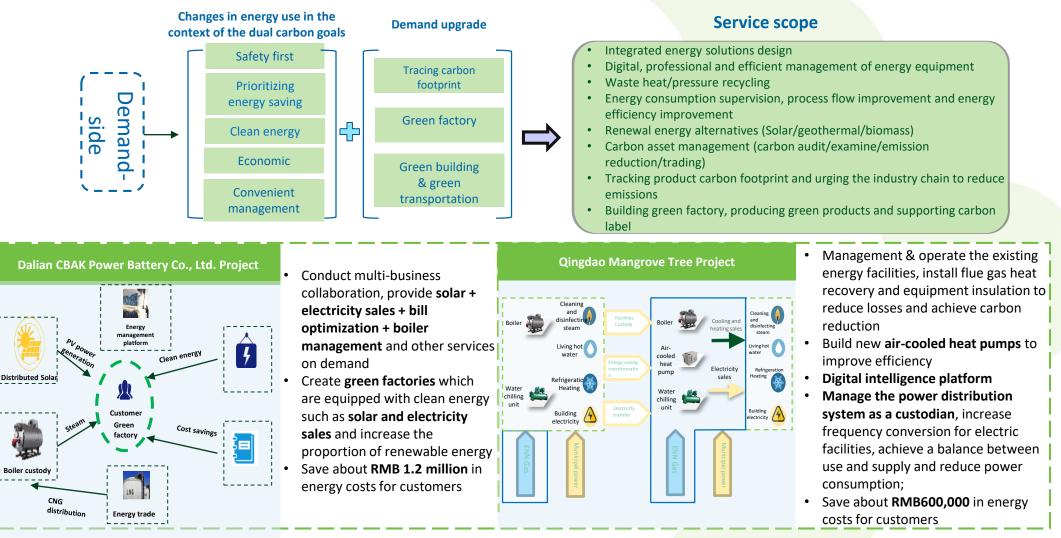
IEB – EV Charging and Battery Swap Station

Utilized existing gas refuelling stations and customer resources to actively carry out EV charging and battery swapping business, tap into energy storage, facilitate the achievement of the dual carbon goals
 13 charging stations in operation & more than 20 stations are under construction, 1 battery swap station in operation & 5 stations are under constructions, mainly located in Shanghai and Quanzhou



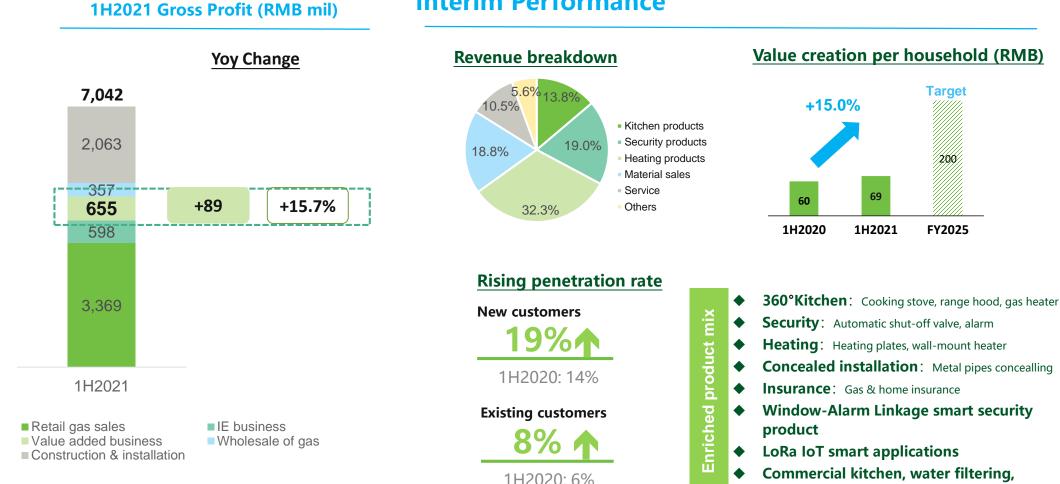
IEB – Integrated Services

Proactively expanded demand-side energy services incorporating carbon asset management, to enhance customer loyalty



Value Added Business

- Tapped into full range of home lifestyle services leveraging on kitchen solutions, innovative and diversified product mix and in-depth understanding on customer needs
- Strive to expand market share with kitchen products sales, heating solutions in Yantze River areas and smart home security products



Interim Performance

energy saving materials

VAB – Clean Heating in Yangtze River Areas

- It is estimated that the heating market in the middle and lower Yangtze River areas will reach RMB 400-500 billion in the next ten years
- Currently covers a heating area of 6.03 million square meters and a contracted area of 15 million square meters
 - 34.7%
 28.6%

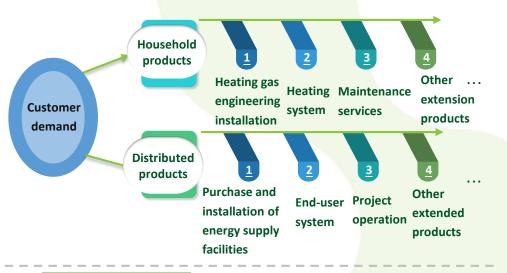
 National
 Proportion of population

 GDP ratio
 Image: Comparison of population

 Huber
 Anh
 Shanghai

 Huber
 Image: Comparison of population
 Image: Comparison of population

 Munan
 Image: Comparison of population
 Image: Comparison of population
- Integrate resources, enrich the series of heating equipment supporting products, capitalize on the our customer base, through different product combinations to provide customers with **one-stop and the most cost-effective** products and services



Typical cases



- Place of project: Huai'an, Jiangsu
- Heating area: 298,000 m²
 - Technical solutions: Distributed, gas heat pump + floor heating
- Product portfolio: Natural gas + floor heating + extended products

Dongyuan Yinaowan

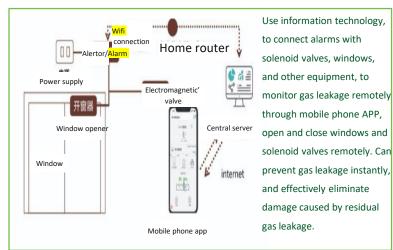


- Place of project: Xiaoshan, Zhejiang
- ✓ Number of homes heated: 260
- Technical solutions: Individual home heating, wall-mounted boiler + floor heating
- Product portfolio: Natural gas + heating services + extended products

VAB - Innovative Products and Services

Based on precise understanding of customer needs for aesthetics, safety and smart home, adopting LoRa, a remote data collection system, and a variety of intelligent applications, to expand value added business

Window-alarm linkage system



blogy, ws, to motely APP, rs and ly. Can tantly, te dual biler Smart wall-hung Smart Wall-hung Smart TV Smart Smart washing refrigerator Water meter Electricity meter

LoRa IoT Smart Application Products

Concealed pipe installation



Customer needs:

Safe, convenient and smart products

Core strategy:

- Product: Window-alarm linkage system
 + window + design + installation
- Target customers: Real estates developers, C/I users and customers whose alarms expired

Customer needs:

- Pursuing personalized and high-quality energy supply
- Government's demand for smart industrial park construction

Core strategy:

- Enriching end-user smart products and smart services solutions based on IoT
- Target customers: Real estates, municipal administration and industrial parks

Customer needs:

 Safe, beautiful and comfortable home environment

Core strategy:

 Product: Concealed combination packages including copper pipes, metal bellow, etc. Target customers: Real estates, property management, renovation companies and other ecosystem partners





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Key Financial Metrics

Gross profit & gross profit margin (RMB mil)



EBITDA & EBITDA margin



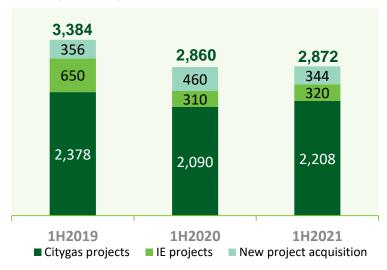
SG&A, SG&A to revenue ratio (RMB mil)



Core profit & core profit margin (RMB mil)



Superior Financial Management

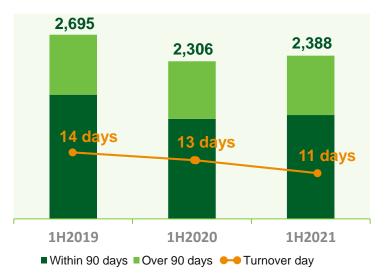


CAPEX (RMB mil)

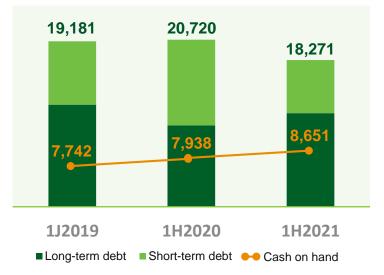
Net debt & net gearing ratio (RMB mil)



Account receivables & turnover days (RMB mil)

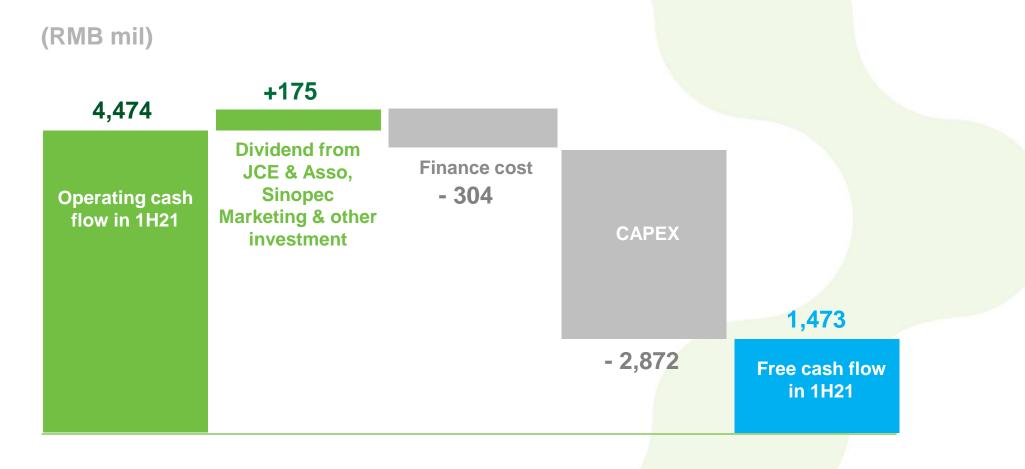


Total debt & cash on hand (RMB mil)

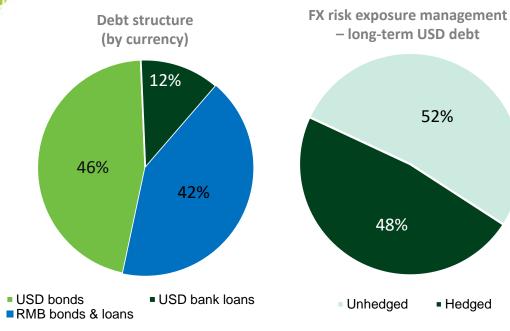


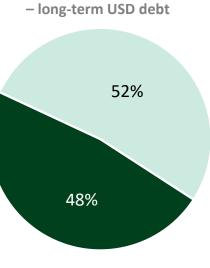
Cash Flow Analysis

- Steady growth of business and superior financial management, operating cash flow recorded an increase of RMB1,261 mil
- Free cash flow increased by RMB1,384 mil



Ample Financial Resources & Liquidity





Hedged

Unhedged

> Low interest rate environment, and preferential rates obtained by project companies



Investment-grade credit ratings

Rating agency	1H21
S&P Global Ratings	BBB
MOODY'S INVESTORS SERVICE	Baa2
Fitch Ratings	BBB

Sufficient financial resources

RMB mil	Available quota
Unutilized credit facilities	12,061
Green bond quota approved by NDRC	5,000

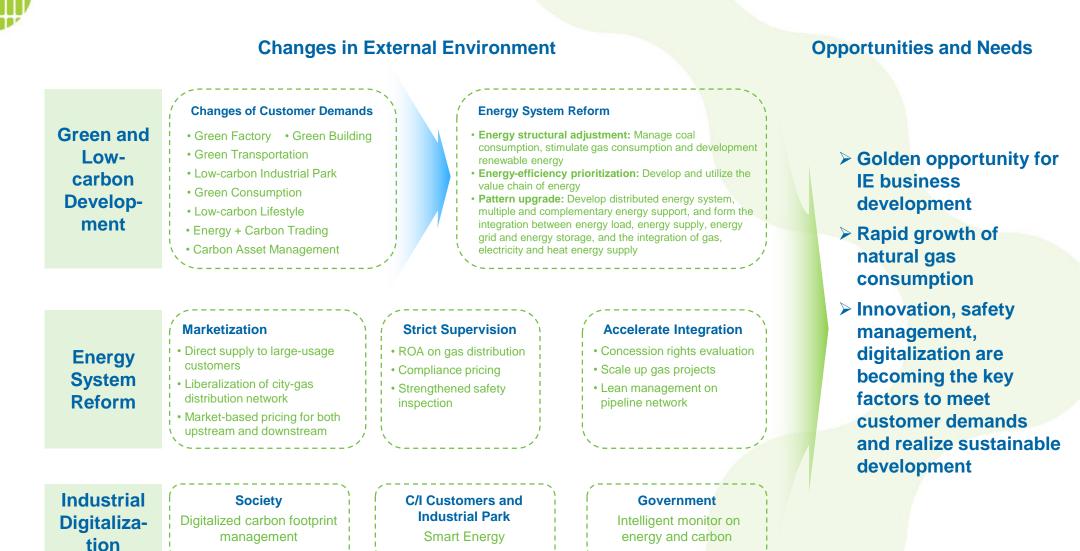


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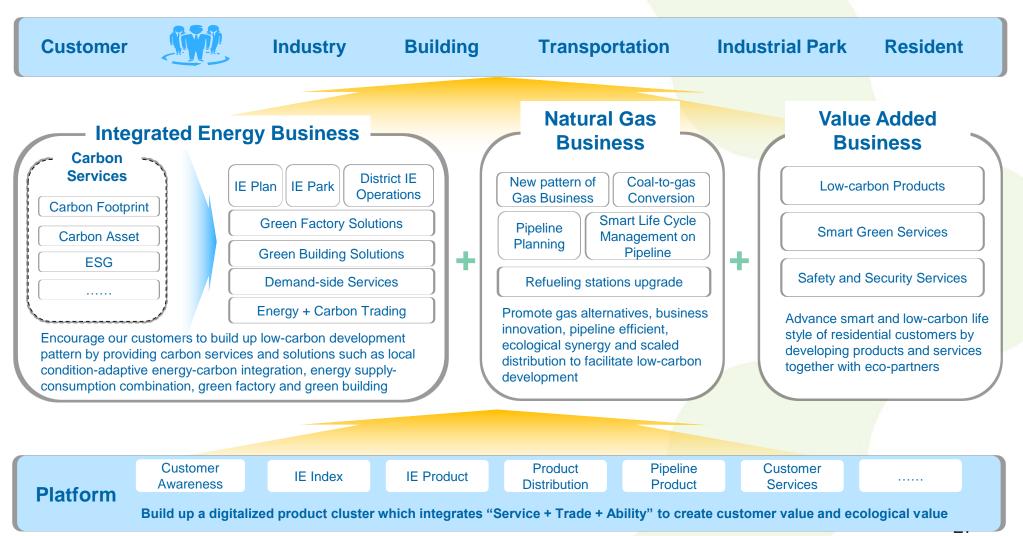


Opportunities and Needs Driven by Market Changes



Energy-Carbon Integration and Digitalization

For developing the "Energy-carbon Integration" solutions for customers and moving forward to the new era, we keep investigating changes of customer demands, business upgrade and digitalization.



Enhance the Quality & Quantity of Gas Business Development

Seizing the development opportunities, we executes innovatively, digitally and ecologically to optimize and upgrade our gas business

Gas Distribution Business



Develop the low-carbon energy plan for customer's energy reduction needs

Carbon Benchmark

Carbon + Energy + Investment



Satisfy customer's needs on energy with diversified product portfolio



Carbon Management Extended Services

Provide portfolio includes resources optimization + digital operation + carbon management, etc. to empower ecological development

Pipeline Network Operation





Avoid methane leakage

Laser Monitoring	Pipeline	Pip
System on Methane	simulation system	Ass

Digital Products

Customer Awareness -related Product Smart Distribution Product Smart Operation Product

Digitalized Engineering Product

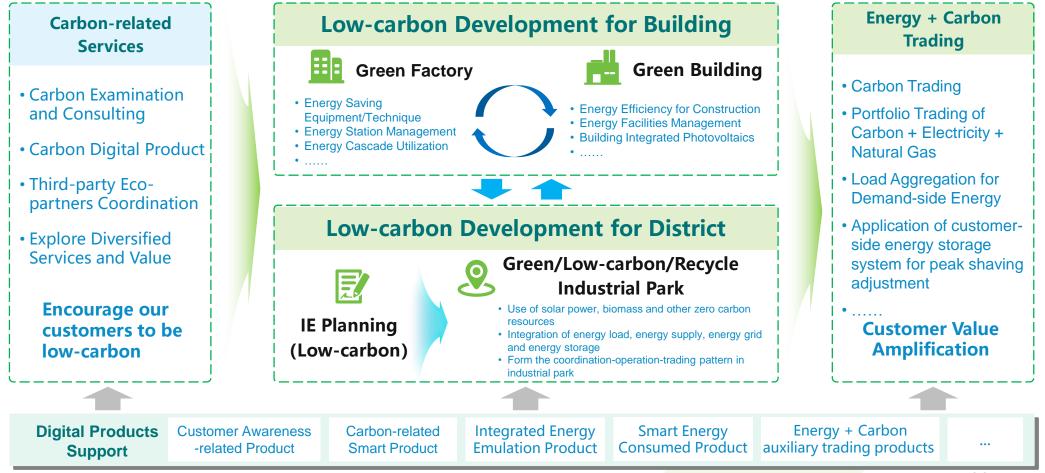
Smart Dispatch luct Product

ct Digitalized Safety Product Pipeline Risk Assessment

. . .

Develop IE Services incorporating Energy & Carbon Management

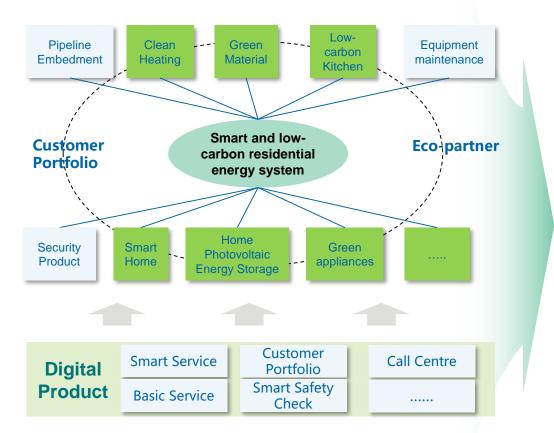
Diversifying services to meet the low-carbon needs of industry, building, industrial park and city, supporting our customers to realize carbon reduction and facilitating development of IEB



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Advance VAS Development with Various Measures

Providing diversified products to residential customers with product innovation and green product coverage, supporting residential customers to cultivate intelligent and low-carbon lifestyle, creating greater value





Apply digitalization to understand our customer precisely



Establish diversified "Online + Offline" communication channels



Provide smart, low-carbon and highquality products + services



Advance the value-sharing mechanism thus to motivate talents and expand business



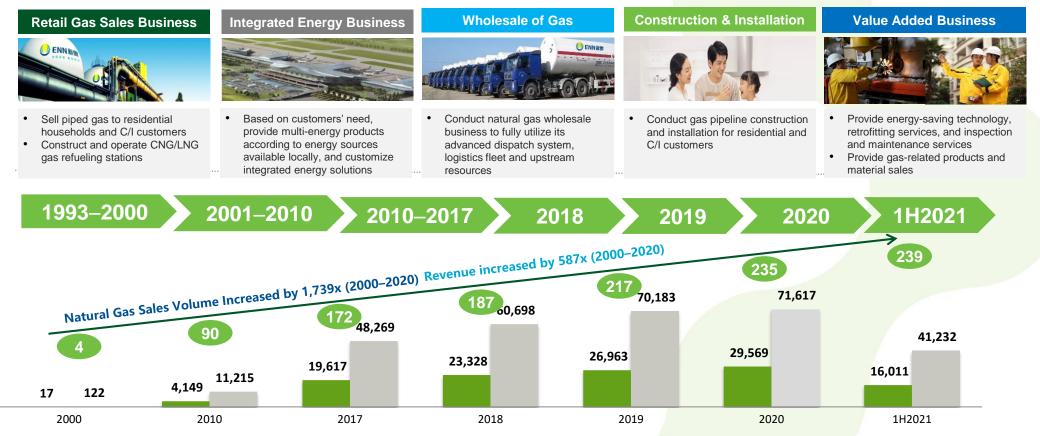


ENN – To Build an Industry-leading Integrated Energy Service Provider

Company Profile

- Established in 1993, ENN is one of the leading private-owned clean energy distributor in China.
- ENN's principal business includes investment in, and the operation and management of gas pipeline infrastructure, vehicle/ship gas refueling stations and IE stations, sales and wholesale of piped gas, LNG and other energy, integrated energy business, sales and distribution of piped gas, LNG and multiple energy forms. It also develops integrated energy business and wholesale of gas business, while providing other energy-related value added business.
- ENN was listed on the GEM in 2001 and transferred to the Main Board of HKEX (stock code: 2688) in 2002

Key Business Segments



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Application of Low-carbon Energy - Hydrogen

Government's front: President Xi pointed out that China would take strong regulations pledged to reach peak level of carbon emission by 2030, and carbon neutral by 2060 during the General Assembly of the United Nations **Characteristics of H2**: High heat value, zero emission, burns fast

77

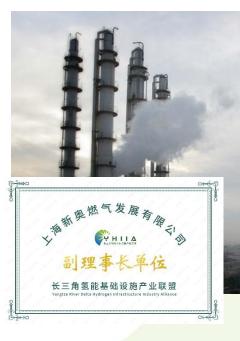
Competitive Edge:

- H2 can be blended into natural gas pipelines at specific concentration (10% or below according to international practice) and pressure, can be supplied to commercial and residential users as fuel, reduce carbon emission
- ENN's technological know-hows of operating CNG & LNG transportation & storage provide support to develop compressed H2 or liquified H2 business
- Possesses resources and technology of natural gas to hydrogen production
- Founding member of "Yangtze River Delta Hydrogen Infrastructure Industry Alliance", aims at exploring the development of hydrogen refueling infrastructure following policies of "Yangtze River Delta G60 Hydrogen Corridor"

Hydrogen Supply Project – A Pharmaceutical Company in Liaoning Huludao

Overview:

- Summary
- H2 production capacity: 1,500m³/h
- Customer's need: 12.48mil m³/year
- Use of existing pipelines, factories and land for free, reduced investment cost, revitalized customer's assets
- Investment amount: RMB17.39mil
- Expected return: IRR 20%
- Status: Commenced operation in June 2021

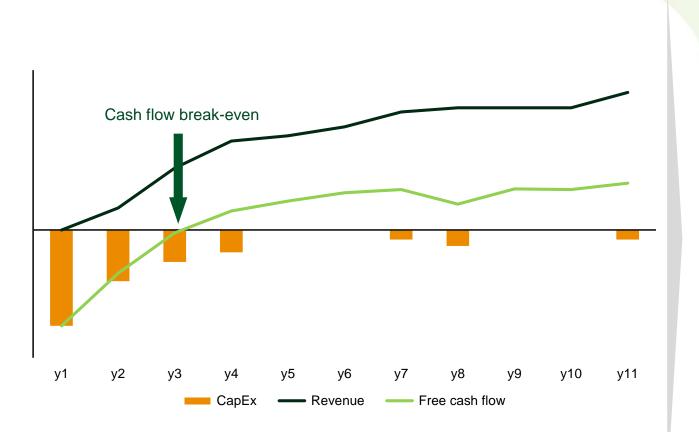


Natural Gas to Hydrogen:

- 1. Compressed and gasified feedstock gas
- 2. Desulphurization
- 3. Conversion
- 4. PSA H2 extraction



Typical Industrial Park IE Project - Cash Flow Projection



1. Stable & Recurring Income

 Integrated energy solutions reduce customers' overall energy bills **\\$10%**

• Selling the types of energy customer need increases their stickiness

2. Rapid Cash Flow Generation

• Capex are invested by stages depending on the number of customers and their energy consumption scale

 Our projects are mostly industrial parks with existing customers, once the energy stations completed, energy sales can be generated

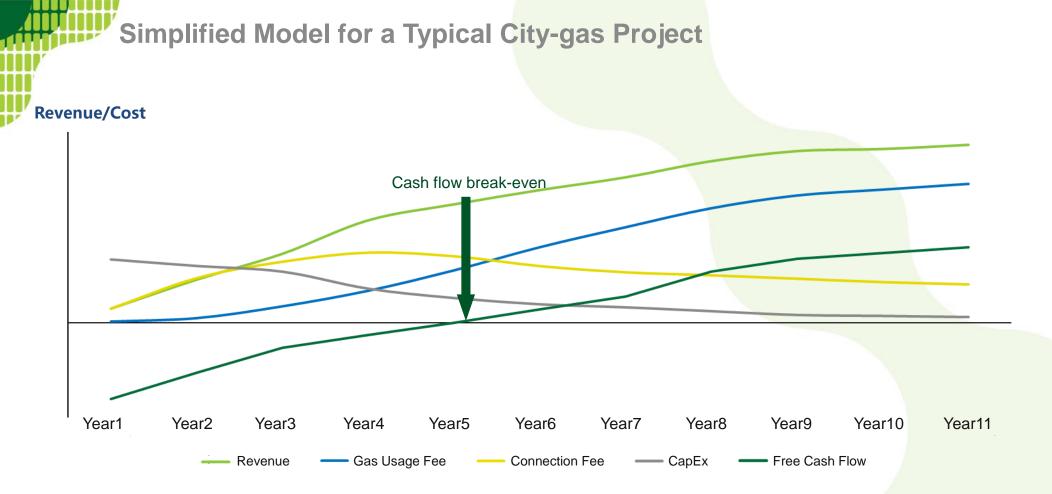
Payback period: **7-8** years

3. Low Risk

• Diversified customer base in industrial parks helps reduce cyclical risks of certain industry

• Sign minimum energy offtake volume and establish automatic passthrough mechanism with customers

• Market-oriented business model with low regulatory risk



Connection fee dominates in early years when the project companies are signing up new customers

Gas usage increases as projects mature, becoming the major source of recurring income

Prior to the completion of the whole pipeline network in cities, revenue will be generated as soon as gas supply becomes available in certain districts. Each connection contract normally takes 6–12 months to complete

In general, gas projects would generate positive free cash flow after 5 years of operation



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