

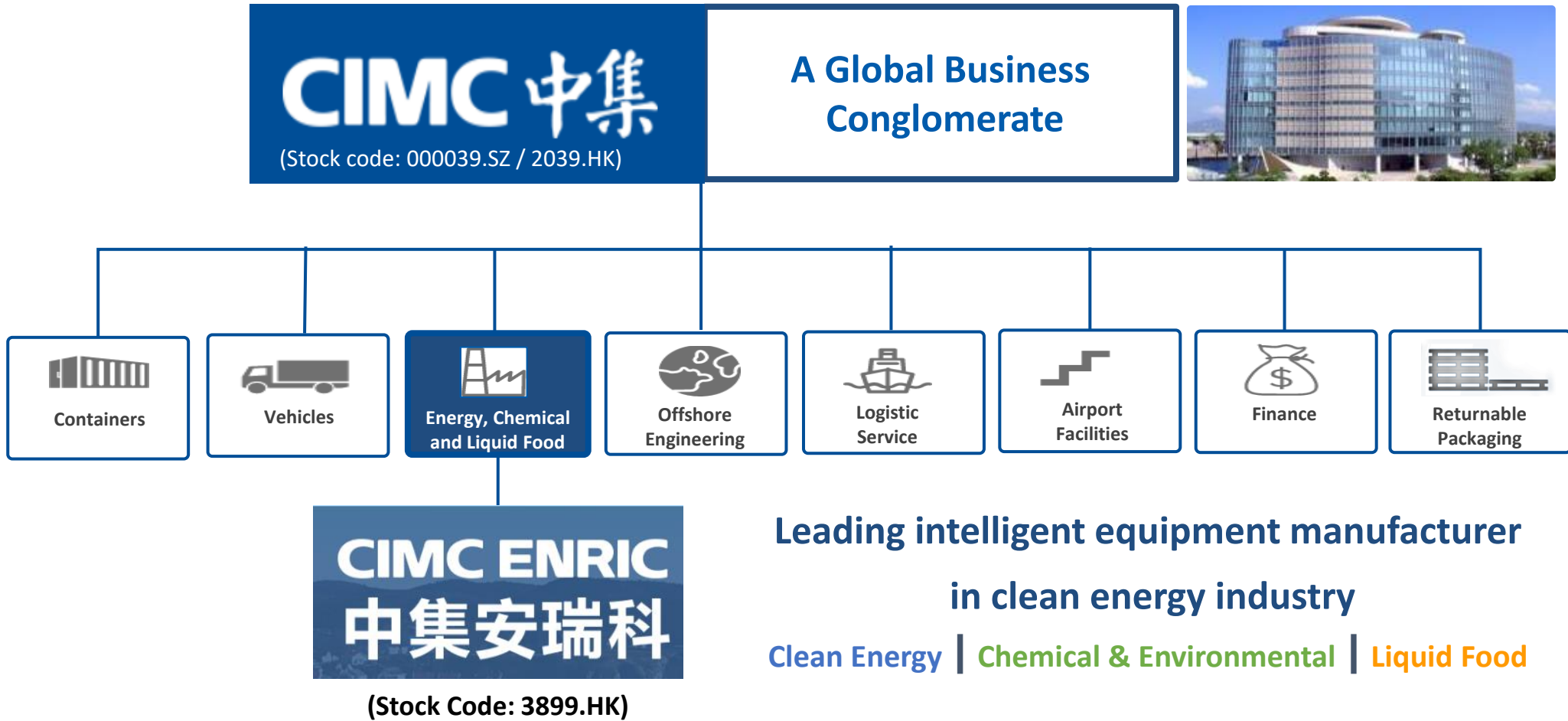


# CIMC ENRIC 中集安瑞科

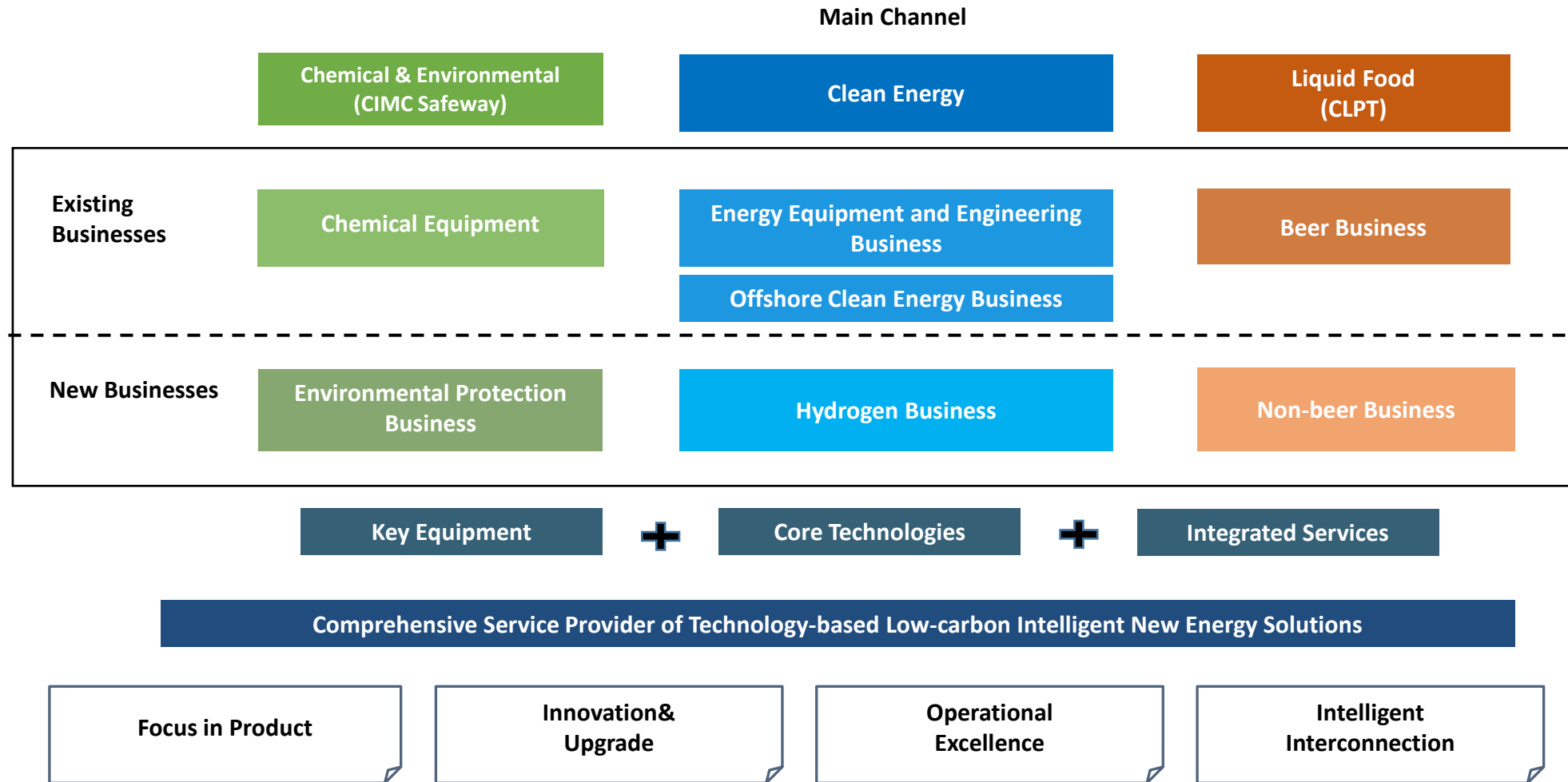
3899.HK

Your Reliable Partner of Decarbonisation

*H2 • RENEWABLE ENERGY*  
fostering the future,  
*CONNECTING the world*



# Adhering to the Main Channel, Developing New Areas, and Building an Industry-leading Integrated Comprehensive Service Capability



Make energy cleaner, make the environment more sustainable, and make life better!

# Global Market Expansion with Roots in China

20+ domestic and foreign member companies, 10+ overseas representative offices, 19 R&D centers at home and abroad.



CIMC Enric recorded revenue of **RMB23.63 Billion** in 2023

## Global Market Leader in

- ISO liquid tank container (No. 1)
- Brewery turnkey project (global leader)

## China's Market Leader in

- Cryogenic transportation equipment
- High-pressure gas transportation equipment
- LNG, CNG, LPG storage equipment



Clean Energy  
14.91B (63.1%)



Chemical & Environmental  
4.41B (18.7%)



Liquid Food  
4.29B (18.2%)

# The Future Development Strategy of CIMC Enric (3+2+N)



## Overall Positioning and Strategic Objectives:

Expanding from “equipment + engineering” to “comprehensive service provider”, aiming to create a digitally integrated and value-added industry format based on “key equipment + core processes + integrated services” and become a technology-driven, low-carbon, and comprehensive service provider for intelligent new energy solutions.



## Overall Business Development Strategy

- **Leadership Strategy: Prioritising Excellence in Top Tier Products**  
Strengthening the R&D of key equipment and core processes to enhance industry leadership; focusing on low-carbon, zero-carbon, and energy-saving and emission-reducing solutions
- **Innovation Strategy: Technological Innovation, Comprehensive Services**  
Supporting the expansion of integrated service business through technological innovation and business model innovation
- **Digital Strategy: Smart Interconnection, Value Rejuvenation**  
Establishing a unified network for both offshore and onshore, connecting end-to-end, and utilizing digitalization and intelligence to create comprehensive integrated service capabilities for clean energy
- **Organizational Strategy: Organizational Restructuring, Operational Excellence**  
Supporting the implementation of business strategies through product lines, engineering consortiums, and digital organizational restructuring, linking people, organizations, and mechanisms.



## Business Model Expansion: Key Equipment + Core Processes + Comprehensive Services

### Intelligent Interconnection

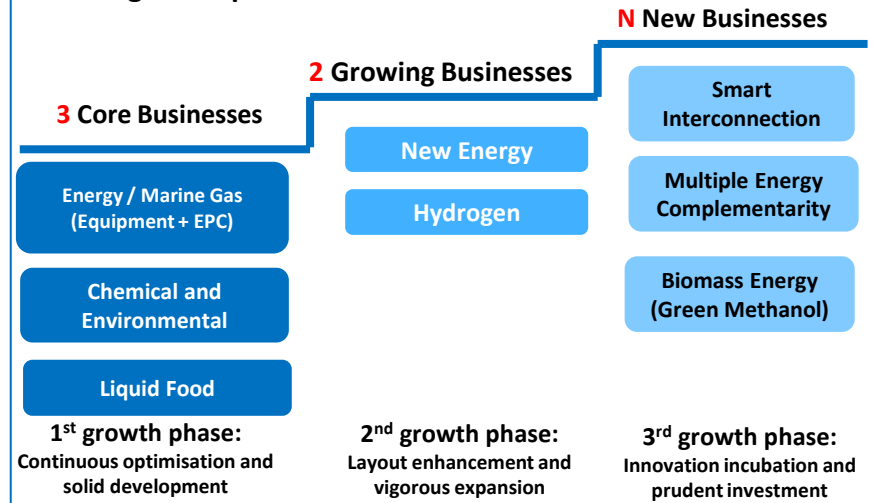


Supported by upstream resources, the integrated service business drives the comprehensive upgrading of the entire industry chain

Expanding from “Production, Storage, Transportation, Refuelling and Application” to upstream gas sources and downstream application scenarios



## Optimisation of Business Portfolio: Expanding from the first growth phase to the second and third growth phases



**Mission: Make Energy Cleaner, the Environment More Sustainable, and Our Lives Better**

# Continuous R&D and Technological Innovation



High-quality development	International Patent	Domestic Patent	Standard Development
<p><b>6 subsidiaries</b> were selected for the National specialized, refinement, differential and innovation (SRDI) "little giants" Enterprises</p>	<p><b>26</b> PCT international patent filings  <b>44</b> global patent applications  <b>25</b> granted patents</p>	<p><b>1,400+</b> domestic granted patents                      Over <b>200</b> invention patents  <b>4 China Patent Excellence Awards</b></p>	<p>Led or participated in the revision and formulation of <b>39</b> national standards  <b>68</b> industry standards in areas such as pressure vessels and hydrogen energy</p>

# MSCI ESG and Wind ESG Ratings upgraded to AA

## Sustainable Development Strategy

Technological innovation, smart interconnection, quality-driven growth, and the establishment of comprehensive integrated services for clean energy

### Environment



CO<sub>2</sub> emissions intensity

9%

Achieved Board's goals



- Green products driving energy transition
- Active implementation of green production and operations

Technological innovation

Overall transformation towards "clean energy as an increment"

Green development leading enterprises

3

Transitioning self-consumption to low-carbon energy

The installed capacity of self-use photovoltaics recorded an increase in 2023, reaching

12.6 MW

### Social

Safety culture construction

16

ISO 45001

2022: 13

100%

certification rate for specialized equipment and operators

R&D strength & innovative development

19

R&D centers in China and overseas

114

new invention patent applications

Emphasis on product quality

96%

Customer satisfaction

14

ISO 9001

Empowering industrial development

As one of the main drafting participants, GB/T 33145-2023 "Large Volume Seamless Steel Gas Cylinders", QB/T 5823-2023 "Workshop Beer Machinery Fermentation Tank"...

### Governance

Board independence

88.9%

Proportion of Non-executive Directors (including INED)

Diversity goals

20%

Proportion of women on the Board of Directors by 2028 or before



Corruption cases

Significant corruption complaints

0

Aligning with international best practices, enhancing ESG-related policies and information disclosure

Improving the "Whistle-blowing Policy"

Publishing the "Integrity and Compliance Code of Conduct"

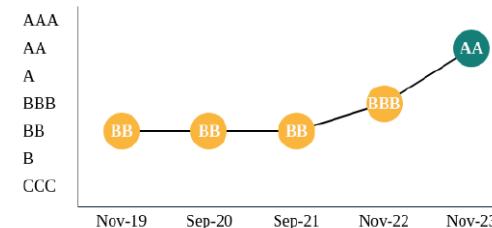
Enhanced Board's governance on climate change issues  
Substantial progress achieved in the implementation of TCFD project

## ESG Rating

MSCI ESG rating has been upgraded to

AA

ESG Rating history



ESG Rating history shows five most recent rating actions

Wind rating has improved to AA compared with last year, ranking among the top

10% in the industry



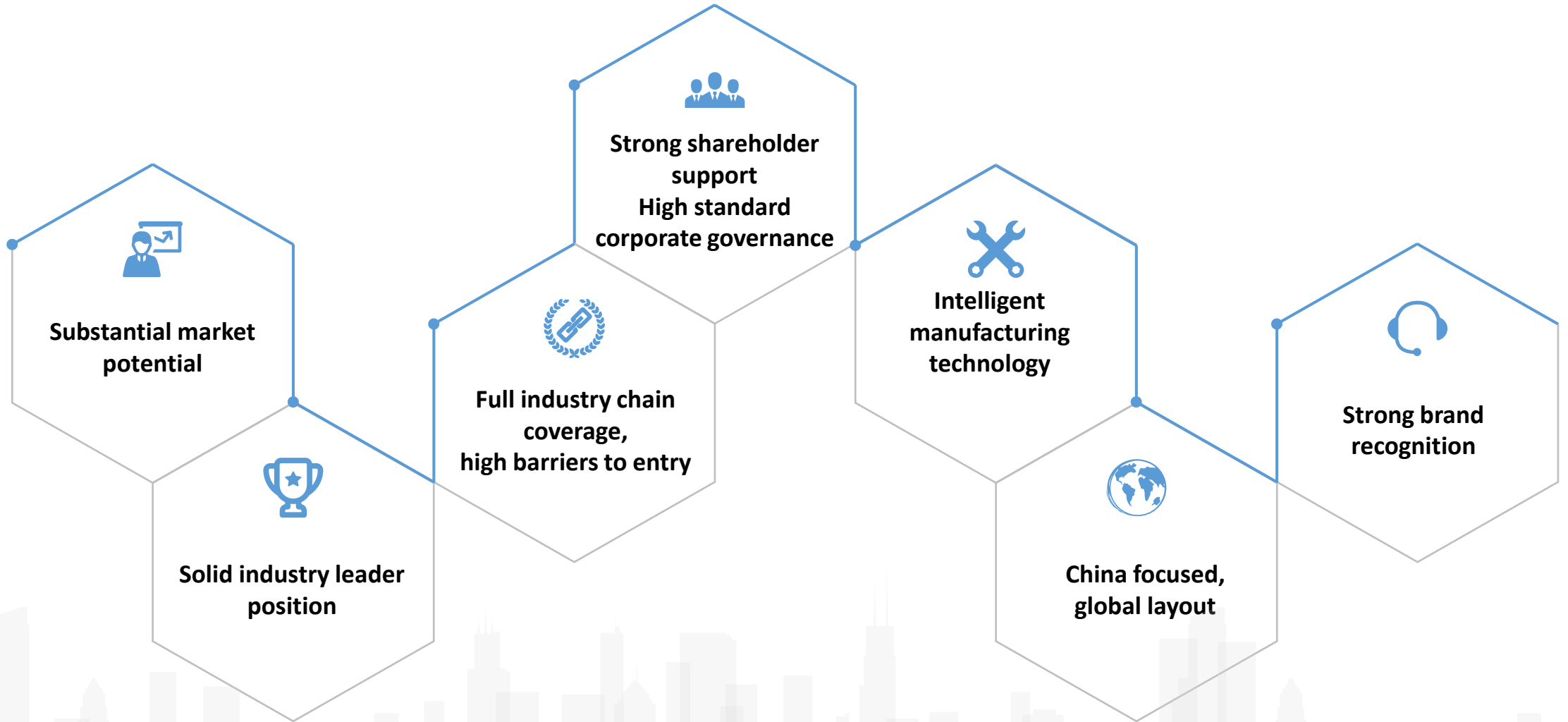
25.7 Medium Risk

MORNINGSTAR SUSTAINALYTICS

HSI ESG Index - Inclusion of constituent stocks in the Hang Seng Shanghai-Shenzhen-Hong Kong Stock Connect Hydrogen Themed Index

CIMC ENRIC

# Core Competitive Edges







Core Business | Clean Energy

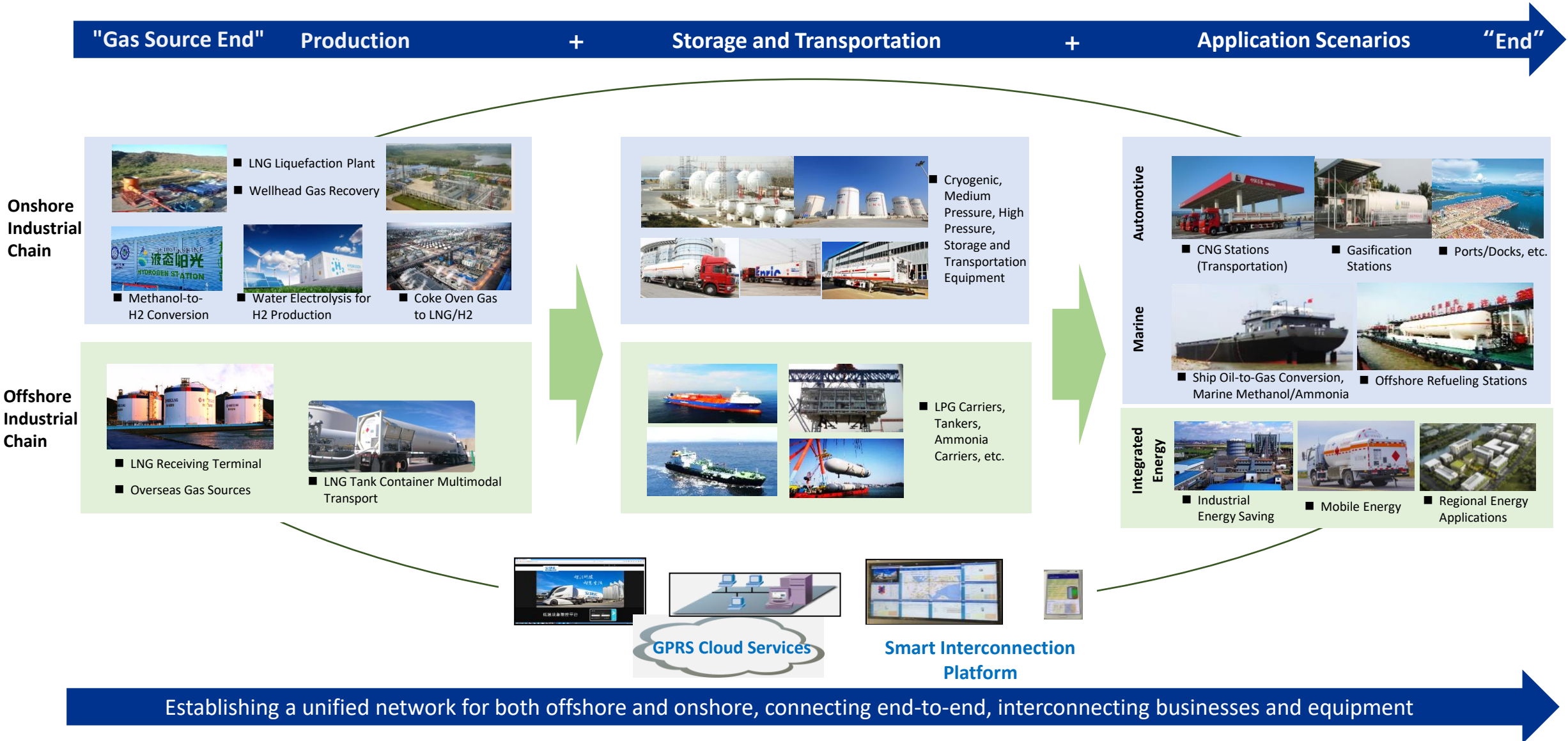
相约西安

筑梦

全运

屹立在行

# Using Digital Intelligence to Create End-to-end Integrated Clean Energy Services



# Key Equipment: Prioritising Excellence in Top Tier Products

## Offshore Clean Energy

### Upstream (Production)



Offshore oil & gas treatment module

### Midstream (Storage & Transportation)



Small and medium-sized liquefied gas carriers for LNG, LEG, liquid ammonia, and clean energy-powered LNG vessels



### Downstream (Refuelling & Application)



LNG bunkering vessel



LNG A, B, and C-type liquid cargo tanks And fuel tanks

## Onshore Clean Energy



Wellhead gas recovery package



LNG cryogenic storage tank



LNG tank container



Industrial gas cryogenic storage tank



Industrial gas tank container



on-vehicle LNG cylinder



Low-carbon energy station product (SL1500)

## Hydrogen



Liquefaction plant for natural gas, coal-bed methane and coke oven gas



Methanol reforming hydrogen production equipment



LNG tank Trailer



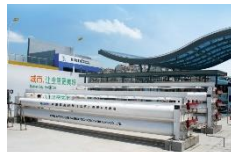
Industrial gas tank trailer



LPG trailer



Spherical tank



Stationary hydrogen tank container



Hydrogen spherical tank



Liquid hydrogen tank container



Liquid hydrogen tank trailer



Hydrogen tube bundle trailer (20MPa, 30MPa)



Liquid ammonia trailer



45MPa diaphragm compressor



90Mpa liquid-driven compressor



Skid-mounted hydrogen refuelling station



Type III on-vehicle hydrogen cylinders and supply systems

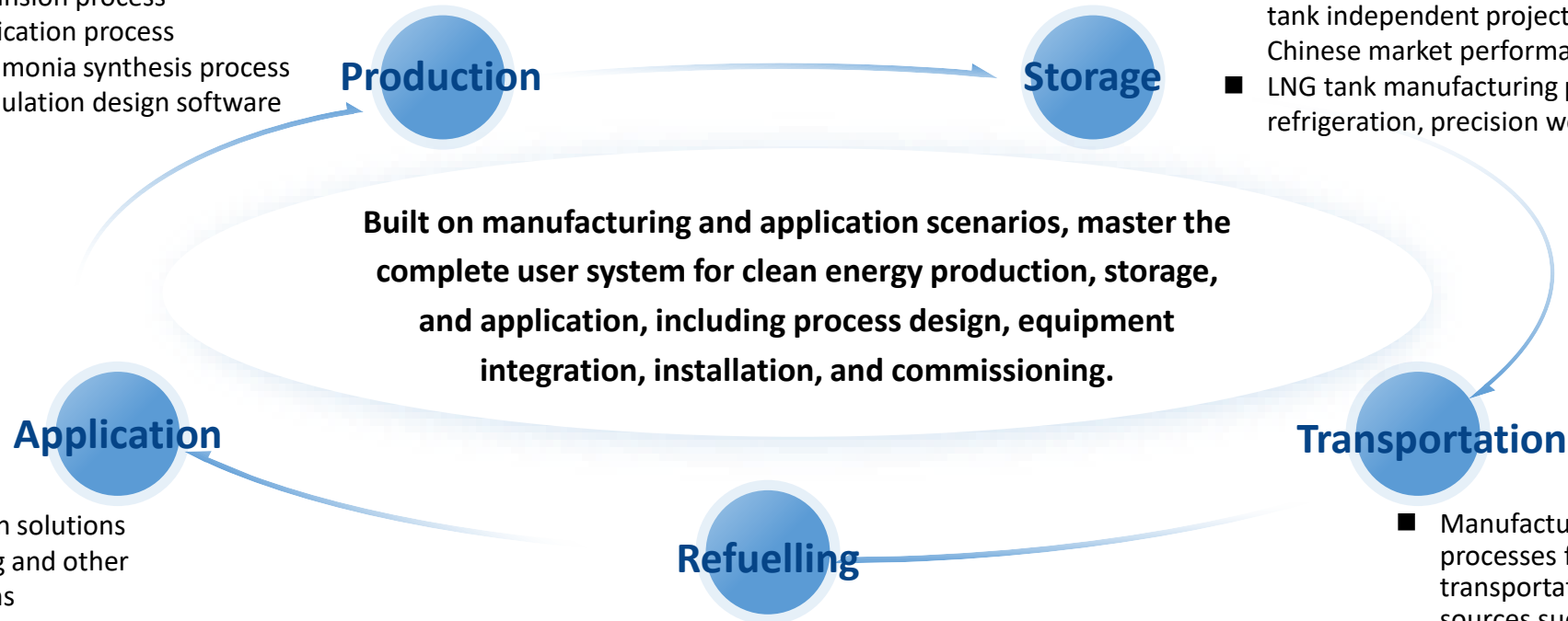


Designated as core champion products in clean energy

# Core Processes: For Clean Energy (Natural Gas, H2, Ammonia, Methanol) Whole Industry Chain

- MRC mixed refrigeration process
- Nitrogen expansion process
- Biomass gasification process
- Methanol/ammonia synthesis process
- Advanced simulation design software

- 29 years of experience in large-scale cryogenic tank independent project, leading in global and Chinese market performance
- LNG tank manufacturing processes: sealing, refrigeration, precision welding



- Industrial application solutions
- Commercial building and other commercial solutions
- Distributed application solutions

- Natural Gas: involving in LNG unloading, storage, vaporisation, and natural gas treatment encompass a variety of equipment, technologies, and safety measures.
- H2, Methanol and Other Clean Energy Sources: supporting systems for water and land use, such as H2 unloading systems, booster systems, H2 storage systems, H2 refuelling systems, nitrogen systems, venting systems, and technical defense systems.

- Manufacturing, materials, and testing processes for onshore and offshore transportation equipment for energy sources such as LNG, H2, liquid nitrogen, etc.



# Comprehensive Service——COG to LNG/H2/Ammonia/Methanol Co-Production

Confirmed production capacity: H2 - 50,000 tons, LNG - 400,000 tons  
 Targeted production capacity by 2027: H2 - 200,000 tons, LNG - 1,000,000 tons

3 replications of H2 production projects

Commencing in 2024, the projects will be progressively put into production, providing high-purity H2 and LNG

Establishment of a comprehensive “end-to-end” business cycle encompassing H2, LNG and other clean energy

## Angang Steel Project

- ◆ Location: Yingkou, Liaoning
- ◆ Annual production capability: 15,000 tons of H2, 100,000 tons of LNG
- ◆ Already put into production in 2024



## Shougang Shuigang Project

- ◆ Location: Liupanshui, Guizhou
- ◆ Annual production capability: 15,000 tons of H2, 160,000 tons of LNG
- ◆ Planned start of production: 3Q2025



## Linggang Steel Project

- ◆ Location: Chaoyang, Liaoning
- ◆ Annual production capability: 20,000 tons of H2, 147,000 tons of LNG
- ◆ Planned start of production: 1Q2025



# End-to-End Integrated Services for Coke Oven Gas To Hydrogen Production

Angang Steel project: converting industrial waste gas into hydrogen, expanding energy efficiency and emission reduction applications and creating end-to-end comprehensive service demonstrations

## Internal Application of Angang Steel



**Transportation:**  
hydrogen fuel cell heavy truck, LNG heavy-duty trucks



**Hydrogen metallurgy**



①  
Langfang integrated LNG and hydrogen filling equipment  
4 sets

②  
CIMC Sanctum low-temperature storage tank  
10,000 m<sup>3</sup>

③  
CIMC Shenleng Energy liquefaction cryogenic equipment  
1 set

④  
Nantong Transport Energy refrigerant storage equipment  
4 sets

⑤  
CIMC Tianjin Lanshui DCS control system  
1 set

## Comprehensive applications in adjacent districts



**LNG:**

LNG heavy-duty trucks, industrial boilers, and residential gas utilization



**Hydrogen:**

Glass products, biopharmaceuticals, pesticides, hydrogen refuelling stations, etc.

# Demonstration: Angang Steel Co-Production Project

Providing “end-to-end” ecological solution for high value utilisation of coke oven gas (COG)  
Injecting new quality productivity into traditional industries, assisting steel industry in energy saving  
and carbon reduction

## Resource End

### EPC Capability for COG to H<sub>2</sub> co-production LNG

#### Langfang Integration

LNG and H<sub>2</sub> refuelling equipment  
4 sets

#### CIMC Sanctum

Cryogenic storage tank  
10,000 m<sup>3</sup>

#### CIMC Lanshui

DCS control system  
1 set

#### CIMC Shenleng Energy

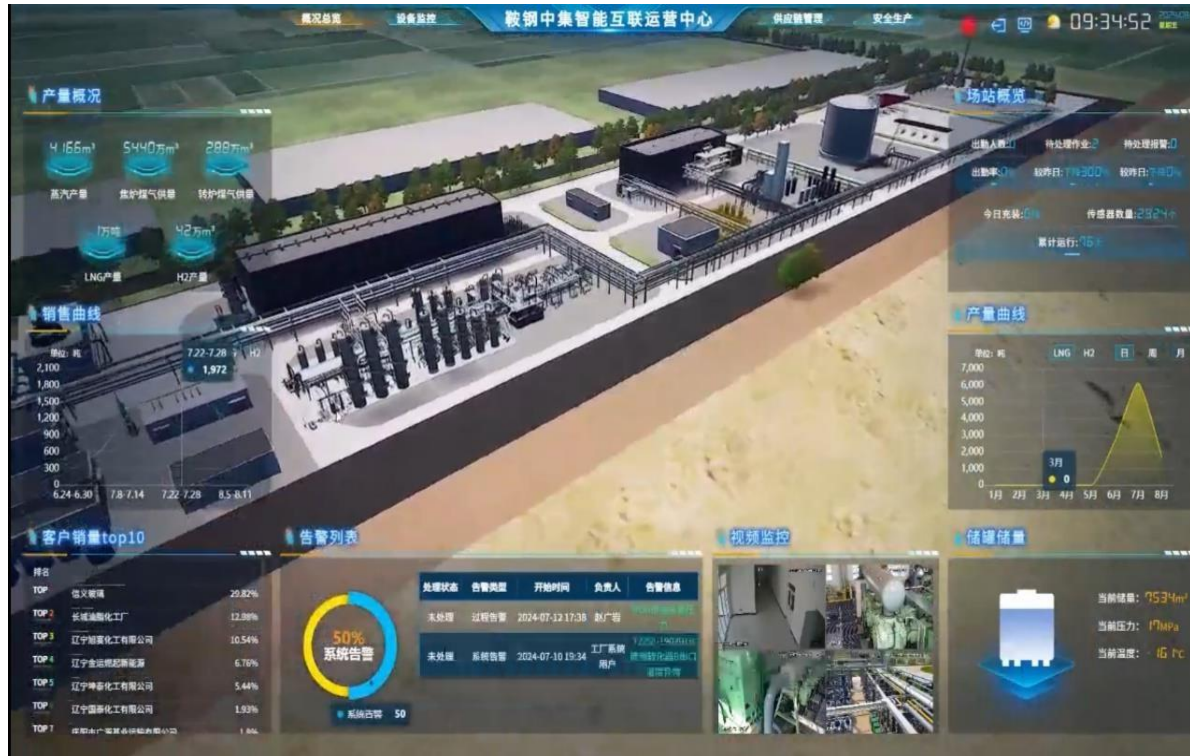
Liquefaction cryogenic equipment  
1 set

#### Nantong Transport Energy

Cryogenic storage equipment  
4 sets

### Integrate the core team of Beijing Zhongliansheng

- Engineering design and technical capabilities, with project experience for comprehensive utilisation of COG (including the production of H<sub>2</sub>, LNG, methanol, ammonia, etc.);
- Reinforcing the upstream production engineering capability



## Application End

### Application of Angang Steel



**Transportation:** H<sub>2</sub> fuel cell heavy truck, LNG heavy-duty trucks



**H<sub>2</sub> metallurgy**

### Other applications



**LNG:** LNG heavy-duty trucks, industrial boilers, and residential gas utilisation



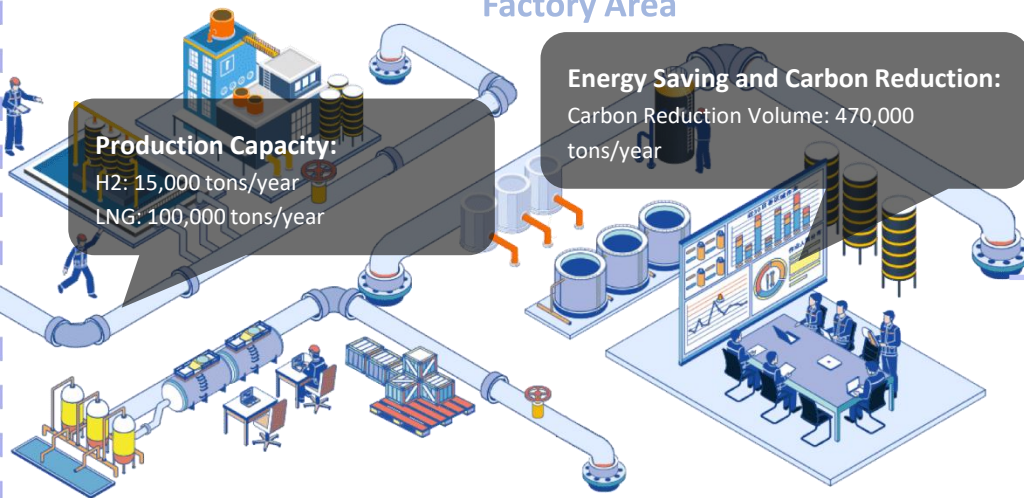
**H<sub>2</sub>:** Glass products, biopharmaceuticals, semiconductor, pesticides, H<sub>2</sub> refuelling stations, etc.

### Digital Upgrade

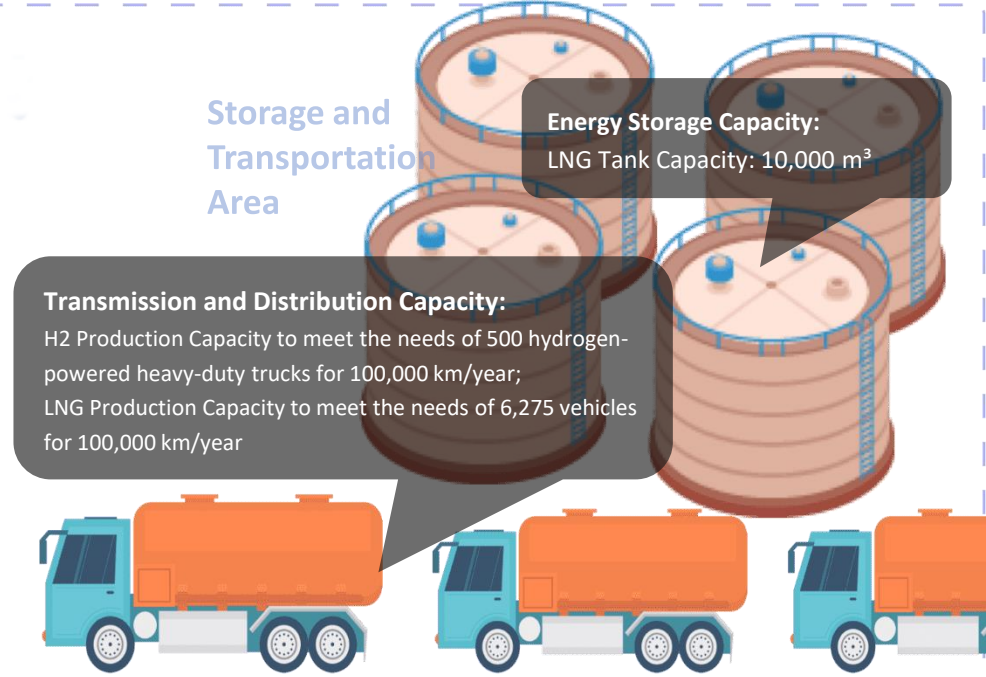
- Developed independently by CIMC Anjiehui; First in China to combine digital intelligence technology with the entire energy production, storage, transportation, sales, and application scenarios.

# Demonstration: Angang Steel Co-Production Project

## Factory Area



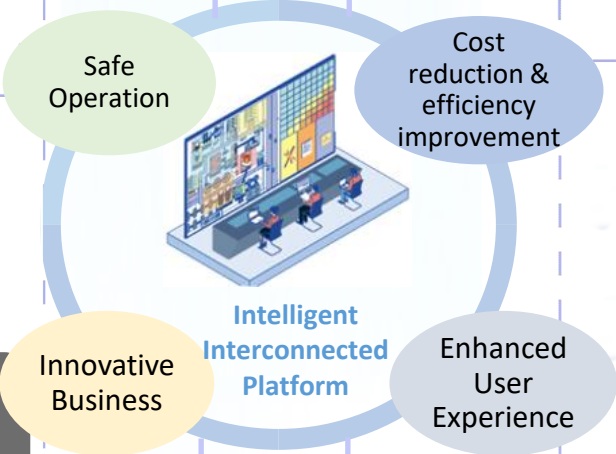
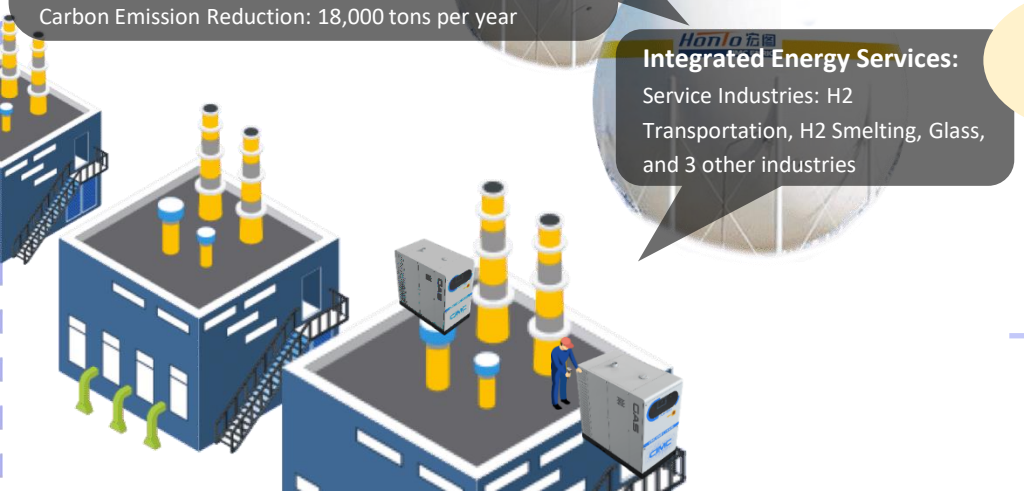
## Storage and Transportation Area



## End Customers:

Customer A – H2 Application in the Glass Industry: 470 tons per year  
Carbon Emission Reduction: 2,500 tons per year  
Customer B – H2 Smelting: 1,173 tons per year  
Carbon Emission Reduction: 18,000 tons per year

## Energy Consumption Area



## Refuelling Area



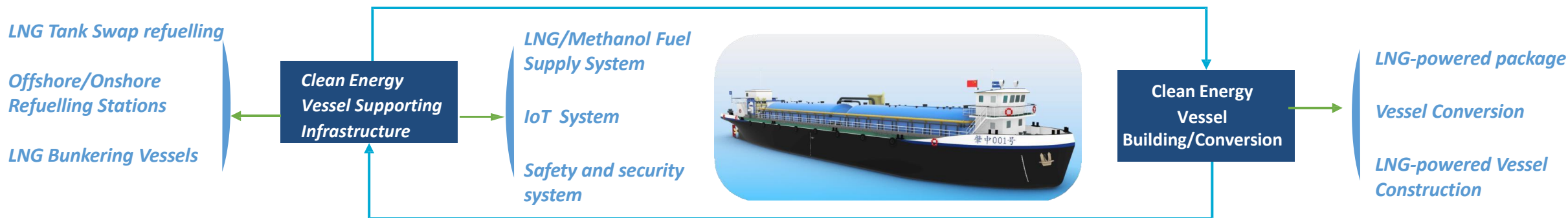


# Comprehensive Service: Offshore Vessel Oil-to-Gas Conversion



## Jining Energy's "Gasification of Canal" Project (Reported by CCTV's Morning News on August 26, 2024)

- Collaborating with Jining Energy to establish a clean energy shipyard, power pack systems, gas source supply, and comprehensive service areas along the Grand Canal, jointly creating an end-to-end integrated cooperation model;
- Providing LNG-powered packages and support services to facilitate the implementation of the "Jining-Suzhou Green Crossing of the Yangtze River" project.
- Constructing LNG bunkering vessels and refuelling systems to meet the LNG refuelling needs of clean vessels on the Grand Canal
- Offering a one-stop solution of "equipment + technology + service" to support the green upgrade of inland waterways



## Gasification Pearl River Project

- Guangdong Province invested RMB550 million in subsidies for the oil-to-gas conversion of over 200 vessels
- Cooperation with leading engine manufacturer Weichai
- Awarded over 100 conversion orders, securing over 70% market share



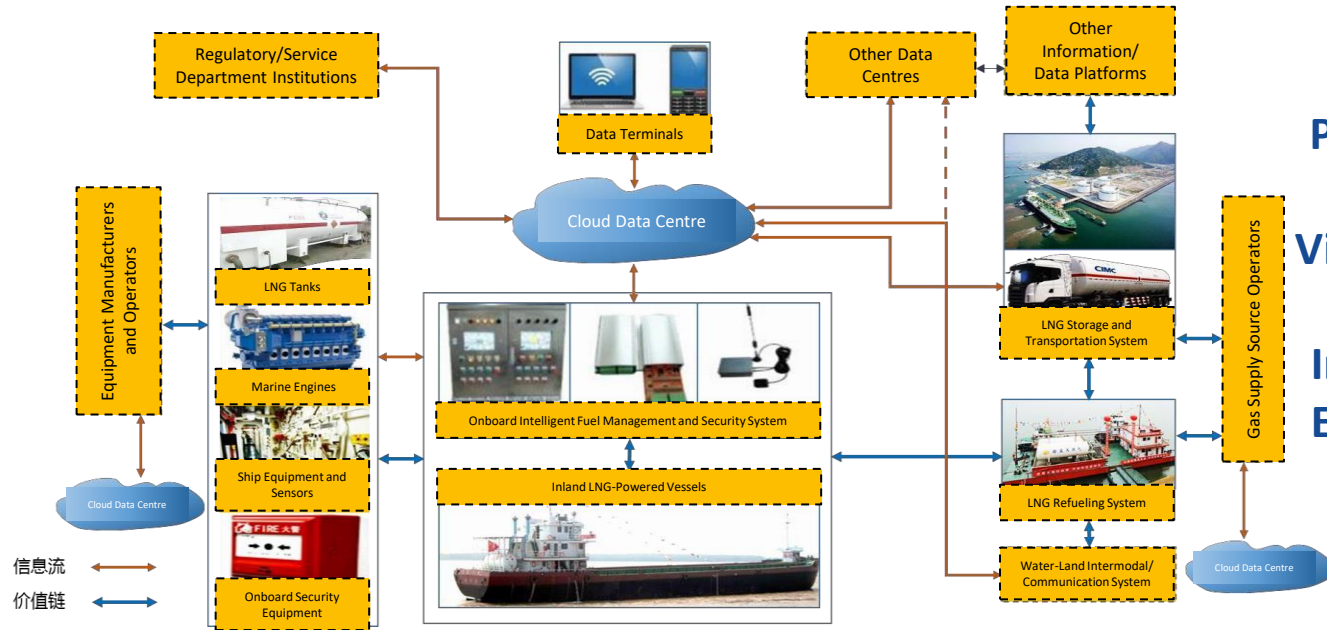
## LNG-powered vessel construction; Pilot project for LNG tank swap solution

- Constructing four 12,500-ton clean energy river-sea through dry bulk carriers for CSC Bulk Shipping for the "Gasification of Yangtze River"
- Initiating LNG fuel tank swap refuelling solution in the Yangtze River to solve refuelling problems



# Demonstration - Ship Internet: Comprehensive Value-Added Services

To address the real-time monitoring of LNG-powered vessels and facilitate communication between the ship and shore, the company in the process of establishing an Internet information services network centered around LNG-powered vessels, linked through an intelligent fuel management and security system. This initiative aims to provide comprehensive value-added services for customers transitioning from oil to gas.



Perception  
 Visualisation  
 Internet of Everything



- The independently developed high-end core controller is based on an embedded electric control system, featuring a variety of communication interfaces, including RS232, RS485, CAN, and TCP/IP. This allows for easy integration of additional data acquisition modules and embedding within a big data collection system.
- Dual-mode positioning with BeiDou Navigation Satellite and GPS, along with communication capabilities that include maritime satellite data, 2G, 4G, 5G, and BeiDou regional short message communication, ensures seamless connectivity.
- An IoT-powered multi-party operational management platform is being developed to integrate ship operators, equipment operators, energy providers, and relevant government departments.

# Demonstration - Green Methanol Industry Chain Layout

Starting January 1, 2024, the shipping industry will officially be included in the EU Emissions Trading System (EU ETS).

Comparison of Four Alternative Maritime Fuels at 100 MJ

Fuel	LNG	Green Methanol	Green ammonia	Biodiesel
Cost (yuan)	8.7	19.8	31.3	17.2
Carbon emission (Kg)	4.95	0	0	0
Technological Maturity	★★★★☆	★★★★☆	★	★★★★★

According to current market prices, LNG has the lowest cost and a relatively mature technological support system. In comparison, green methanol and green ammonia are less cost-effective. Under the current carbon tax regime associated with quota payments, LNG remains the most cost-effective choice.

Given the current trends in carbon management, alternative fuels for green shipping will be a necessity. Considering the calorific value, cost, and maturity of green methanol, it remains the best option for future decarbonisation.

## Currently, there is a mismatch between supply and demand for green marine fuels globally:

- From the demand perspective, by 2025, the projected delivery quantities of green methanol and green ammonia-fueled vessels are 356 and 125, respectively. The annual demand for a single methanol-fueled vessel is estimated at 50,000 tons, while that for an ammonia-fueled vessel is 10,000 tons. *If the proportion of green fuel usage is estimated at 20%, the total demand for methanol and ammonia by 2025 will reach 3.56 million tons and 250,000 tons, respectively.*
- From the supply side, due to limitations related to green certification and production timelines, the actual implementation of announced projects remains uncertain. Based on a 2-3 year timeline for planning to production, *the actual global supply of green methanol by 2025 is expected to be less than 2 million tons.*

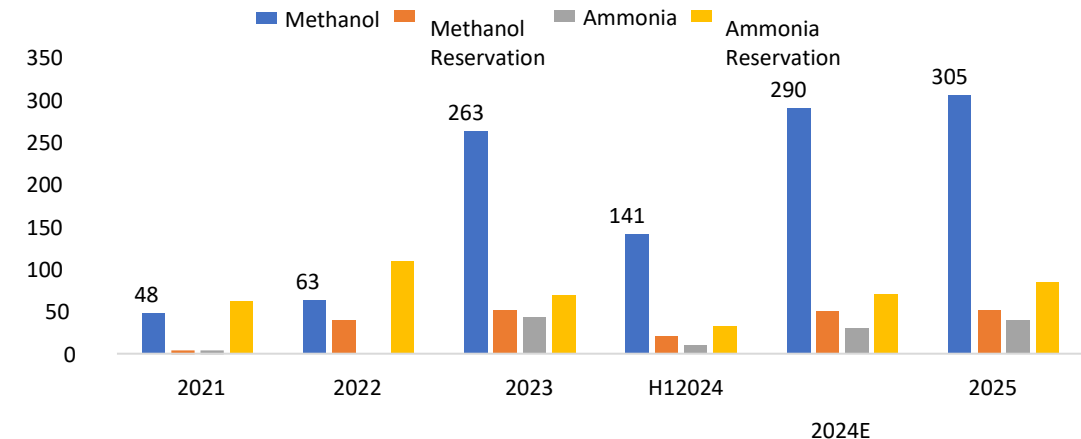
## Signing of Memorandum of Understanding (MOU) with Maersk



CIMC Enric has established a strategic partnership with the global container shipping and logistics giant Maersk, aiming to explore the establishment of a long-term and close cooperation relationship based on the green methanol project in the clean energy sector.

## Order Data for Ammonia and Methanol-Fueled Vessels: High Order Volumes Projected for 2024-2025

Unit: Vessels



Data Source: Company statistics combined with publicly available industry data

# Demonstration- Pilot Project for Green Methanol Industry Chain ("5+20" Thousand Tons)

## Location: Zhanjiang, Guangdong

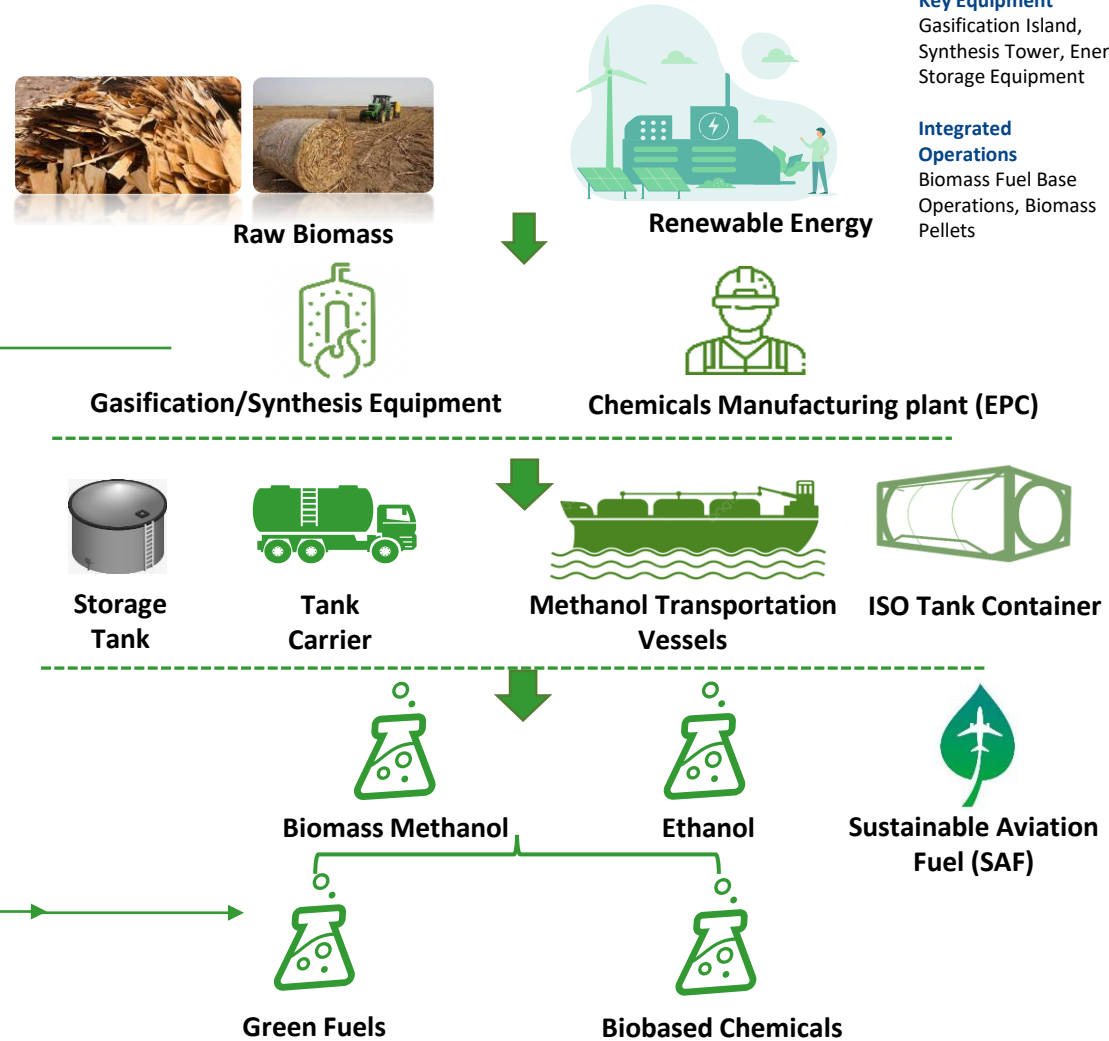
adjacent to the deep-water port terminal and chemical tank area of Zhanjiang, which is close to the Guangdong-Hong Kong-Macao Greater Bay Area and the Beibu Gulf International Logistics Hub



The distance to the Port of Shanghai is only 1,200 nautical miles to the north, and to Singapore is just 1,400 nautical miles to the south, providing greater convenience and options for international delivery and refuelling of methanol.

The proximity of logistics facilities significantly reduces the carbon footprint associated with methanol delivery.

## Our Mission Focused on Converting Waste into Energy



## Our Four Core Competencies

**Key Equipment**  
Gasification Island, Synthesis Tower, Energy Storage Equipment

**Core Processes and Engineering**  
Biomass Gasification, Methanol Synthesis

**Integrated Operations**  
Biomass Fuel Base Operations, Biomass Pellets

**Green Certification**  
Mastering Green Certification Standards, Navigating the Green Certification Process

# Clean Energy Hydrogen Business

氢气

下次检验日期 年 月

公路运输

禁止堆码

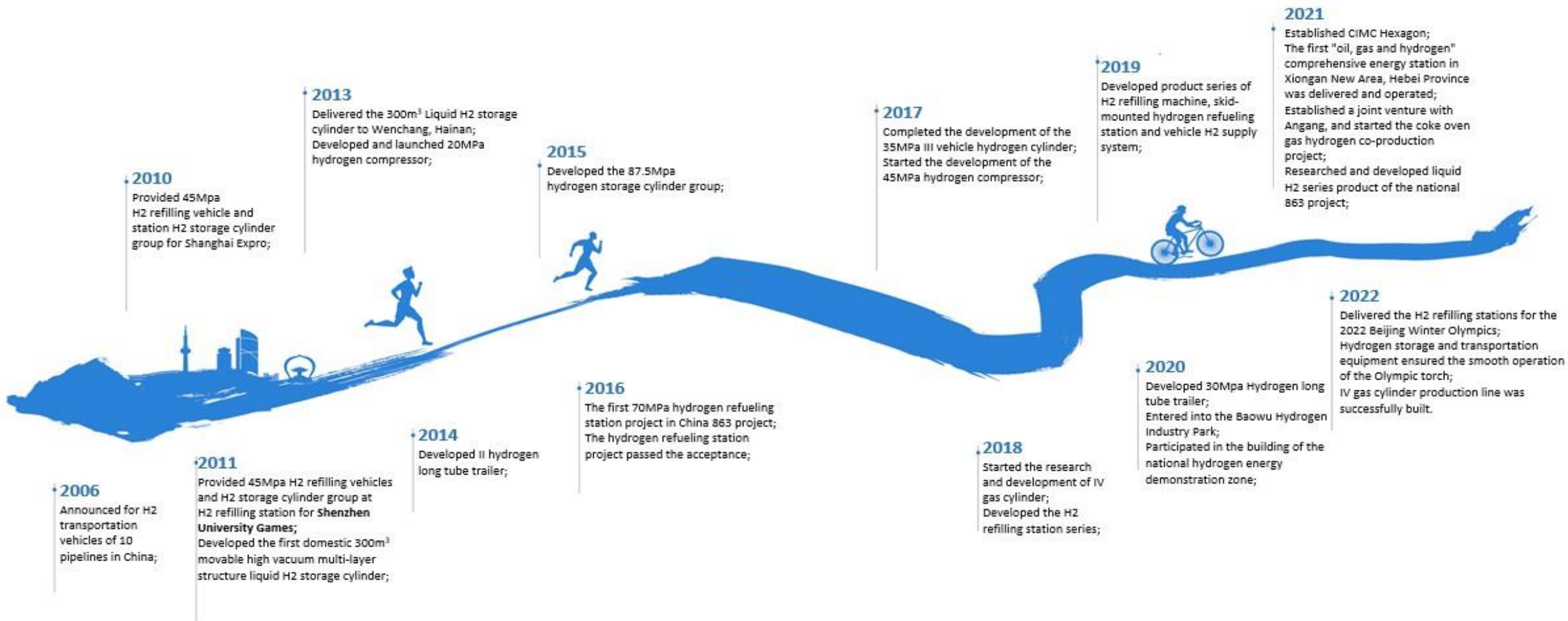
**Enric** 安瑞科  
**CIMC ENRIC**

石家庄安瑞科气体机械有限公司制造  
服务热线 400-0989-666

冀N 13089

CIMC-ENRIC  
400-0989-666

# Hydrogen Energy Foot Print



# Integrated Business for the Whole Hydrogen Industry Chain

CIMC Hydrogen Energy Technology Co., Ltd. (CIMC Hydrogen), as a development platform dedicated to domestic and international hydrogen energy businesses under CIMC Enric, strategically focuses on the three major fields of transportation, hydrogen power, and hydrogen gas. It is committed to becoming an industry-leading technology-based enterprise in the field of hydrogen energy.

**To build an integrated business of hydrogen production, storage, transportation, refuelling, application scenarios, and smart hydrogen energy**

After years of development, CIMC Hydrogen Energy Technology has established 2 wholly-owned subsidiaries, 2 joint ventures, 5 major business departments, and 7 internationally leading equipment manufacturing bases located in Shijiazhuang, Langfang, Nantong, Zhangjiagang, Qidong, and Jingmen. With an international perspective and group operation model, it has formed an industrial pattern covering the entire hydrogen energy industry chain of "production, storage, transportation, refuelling, and application". Its business scope is centered on Beijing-Tianjin-Hebei, Yangtze River Delta, and Guangdong-Hong Kong-Macao Greater Bay Area, and radiates to more than 10 countries including Korea, Japan, Russia, Denmark, Switzerland, and the United States, providing customers with comprehensive solutions for green, convenient, and economical hydrogen energy utilization.



Shijiazhuang High Pressure Hydrogen Division



Langfang Integrated Division



Shijiazhuang Type IV On-vehicle Hydrogen Cylinder and Supply System Joint-ventures



Jingmen Ammonia-Hydrogen Business Division



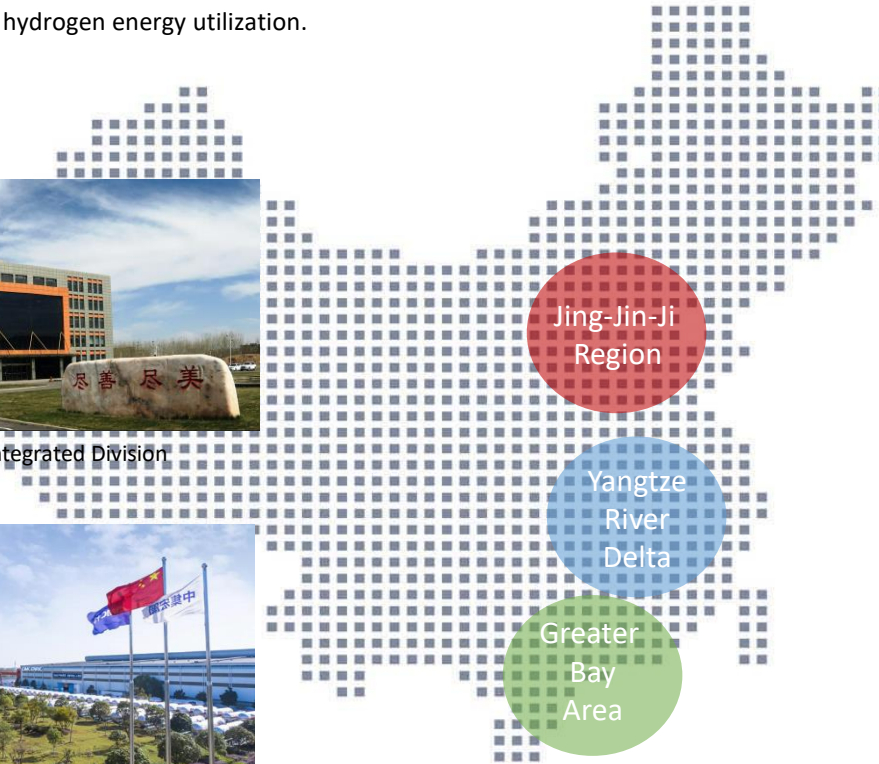
Zhangjiagang Liquid Hydrogen Division



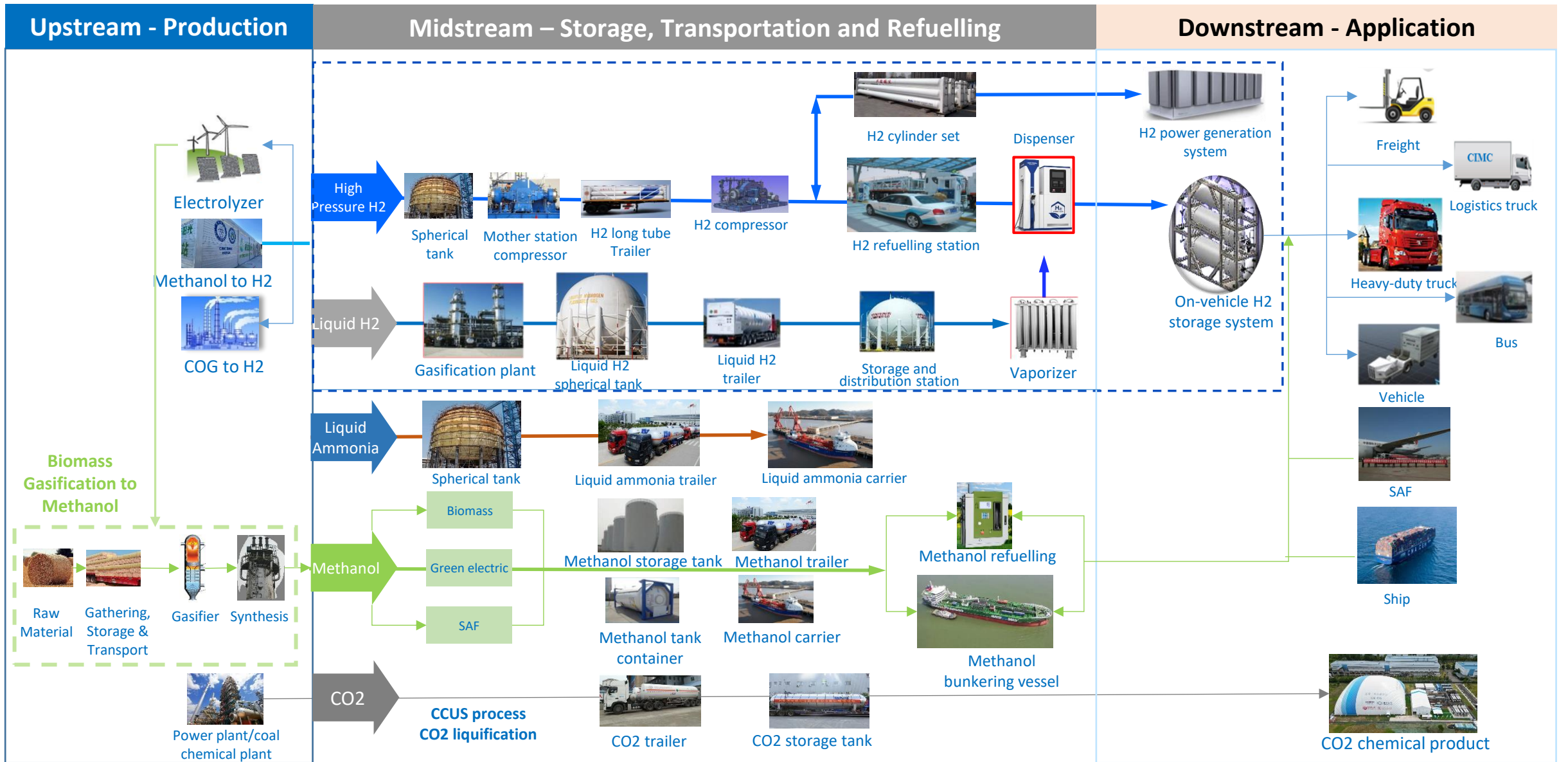
Qidong Offshore Hydrogen Energy Division



Nantong Type III On-vehicle Hydrogen Cylinder and Supply System Division



# Strategic Layout for Hydrogen Energy Business





# Comprehensive Industry Chain Products and Solutions

## Products and Solutions

## Product Category

**High-pressure gaseous hydrogen storage equipment**

20MPa\30MPa hydrogen trailers  
45MPa\99MPa\103MPa stationary hydrogen storage vessels



**Hydrogen liquid storage and transportation equipment**

Liquid hydrogen tankers, Liquid hydrogen storage tanks, Liquid hydrogen spherical tanks, Liquid hydrogen tanks, On-board liquid hydrogen cylinders



**Hydrogen refuelling station solutions**

Hydrogen refuelling stations, fixed hydrogen refuelling stations, skid-mounted hydrogen refuelling stations, integrated energy stations

**Type III Cylinder, Type IV Cylinder and systems**

35MPa Type III cylinders and supply system  
35 and 70MPa Type IV cylinders and supply system



**Hydrogen energy storage system**

700w fuel cell - hydrogen power modules  
5kw fuel cell - hydrogen power modules



**Water electrolysis for hydrogen production system**

Alkaline water electrolysis for hydrogen production with 1000Nm<sup>3</sup>/h, steam reforming of the methanol, biomass electroreforming coupled to green hydrogen generation

# Demonstration: Green Hydrogen-Ammonia-Methanol Integrative Pilot

Comprehensive H<sub>2</sub> industry chain layout; Industry benchmark in storage and transportation;  
Integrated solution gains market recognition



## Construction of China's first commercial liquid H<sub>2</sub> spherical tank

- Overcame multiple technical challenges;
- A total volume of 400m<sup>3</sup>, capable of holding over 25 tons of liquid H<sub>2</sub>;



## Completion of the Type IV H<sub>2</sub> cylinder production line

- Pilot production in 2H2024;
- Covering China and Southeast Asia markets;



## Delivery of several H<sub>2</sub> refuelling stations

- Awarded a H<sub>2</sub> refuelling station in Hebei Province
- Awarded a liquid H<sub>2</sub> refuelling station in Anhui Province, with expected delivery in 2H2024



## Awarded China's largest green hydrogen-ammonia-methanol spherical tank project

- Awarded the H<sub>2</sub> storage project of the largest green hydrogen-ammonia-methanol integrative project in China,
- Including 15 H<sub>2</sub> storage spherical tanks and 8 sets of compressor buffer tank equipment



# Chemical & Environmental

Enhance strengths, accumulate experiences,  
expand to new businesses

BASD 450665 6  
5MK2 L4BH  
RID/ADR  
IMPACT APPROVED



HEAVY DUTY 63  
C 24 3  
S 25 3  
M.A.V.P.

**BASF**  
We create chemistry

CIMC 中集

BASD 450667 7  
5MK2 L4BH  
RID/ADR  
IMPACT APPROVED



HEAVY DUTY 63  
C 24 3  
S 25 3  
M.A.V.P.

**BASF**  
We create chemistry

CIMC 中集

BASD 520143 5  
PMK2 L4BH  
RID/ADR  
IMPACT APPROVED



HEAVY DUTY 73  
C 24 3  
S 25 3  
M.A.V.P.

**BASF**  
We create chemistry

CIMC 中集

# Top 1 in Global Market Share of Chemical Tank Containers for 20 Consecutive Years

**CIMC SAFEWAY (301559.SZ) Shenzhen Exchange Listed Company**

## Long-term leading position in the global tank container market in terms of market share

- CIMC Safe Tech is a global chemical logistics equipment manufacturer and full life cycle service provider integrated with business of tank container design and development, manufacturing and sales with the **world's largest manufacturing scale, most complete series of varieties and leading technology**
- In response to the development of different emerging industries, it has continued to **R&D new products**, such as the semiconductor industry's new liner tank containers, customised tank containers to meet the needs of electrolyte precision temperature control of new energy lithium battery industry, medical nuclear magnetic equipment products



## Continuously expanding after-sale service outlets to build full life cycle service capability

- Providing professional repair, cleaning, refurbishment and modification services **for all tank containers in the market**
- Establishing after-sale service outlets in the world's major chemical industry clusters and tank container logistics hubs, such as **Netherlands, Jiangsu and Zhejiang**
- Demand for tank container cleaning and maintenance in chemical industry clusters and the growth in tank container ownership are driving the growth of the after-sales service business



Daily tank maintenance cost: ~RMB5,200/year, tank ownership: ~848,000 units



Market space for tank container after-sales services: ~ RMB4.17 billion/year

# Liquid Food

Global Layout, excellent operation, grasp the wave of consumption upgrade



# A Global Brand of Liquid Food Equipment, CLPT

## Owned World-Renowned Brands in the Field of Liquid Food Equipment in Global Market



- CLPT is a globally renowned enterprise engaged in the manufacturing and service of liquid food equipment under CIMC Enric.



- Since 1732, it has been providing quality products and services to the world's leading enterprises in the distilled liquor, beer, and food industries.



- It is a subsidiary of Briggs, a well-known British manufacturer of copper distillation equipment founded in 1867.



- It is a German enterprise that is regarded as an industry pioneer in the production of stainless steel tanks and related intelligent process equipment.



- It is headquartered in Canada and has been committed to providing solutions for craft beer enterprises for decades.



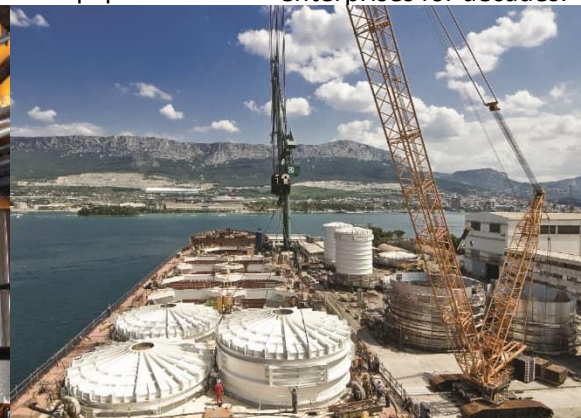
- Founded in 1922 and headquartered in Germany, is a leading medium-sized machinery manufacturing company specialising in the global beverage/brewing industry.



Large brewery fermentation tank and project



Craft beer technology, equipment, system and engineering



Liquid food storage tanks and engineering such as dairy products

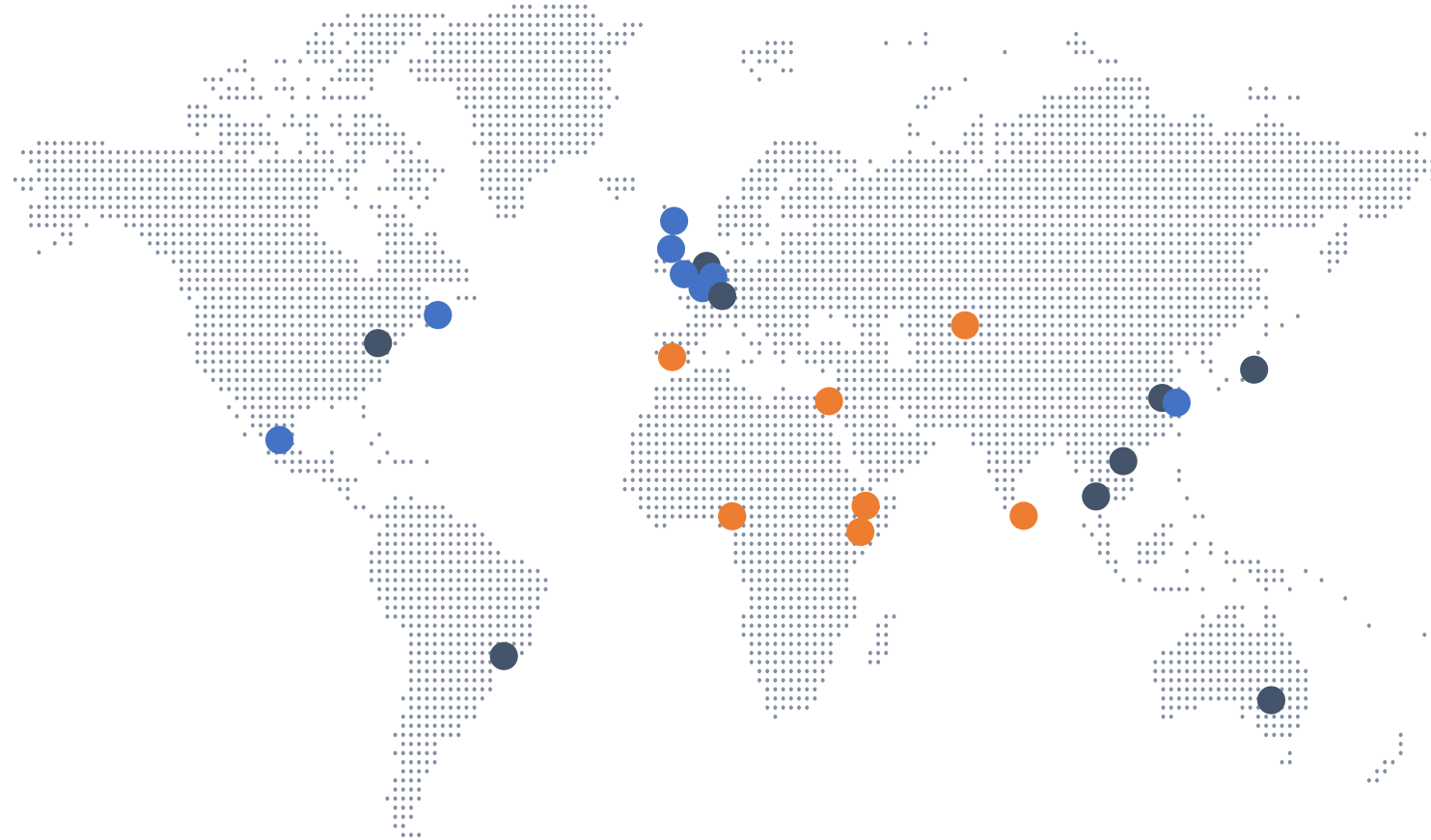


Storage tanks for other industries such as pharmaceuticals, etc.

# CLPT Global Layout



- Belgium, Menen
- Brazil, São Paulo
- Canada, Charlottetown
- China, Nantong
- China, Shanghai
- Ethiopia, Addis Abeba
- Germany, Ludwigsburg
- Germany, Buerstadt
- Germany, Mainleus
- Israel, Tel Aviv
- Japan, Tokyo
- Kenya, Nairobi
- Mexico, Monterey (start 2024)
- Nigeria, Lagos
- Scotland, Prestonpans
- Spain, Madrid
- Sri Lanka, Colombo
- Thailand, Bangkok
- The Netherlands, Zwolle
- UK, Burton on Trent
- USA, Rochester
- Uzbekistan, Tashkent
- Vietnam, Hanoi



- Thousands of equipped customers
- 8 production facilities
- 8 sales & PM offices
- Global sales & service representatives



# Financial Summery

35.08

18.88

22.88

38.99

19.66

35.08

18.88

56.18

11.66

26.68

38.99

19.66

35.08

56.18

38.99

18.88

38.99

22.88

26.68

22.88

19.66

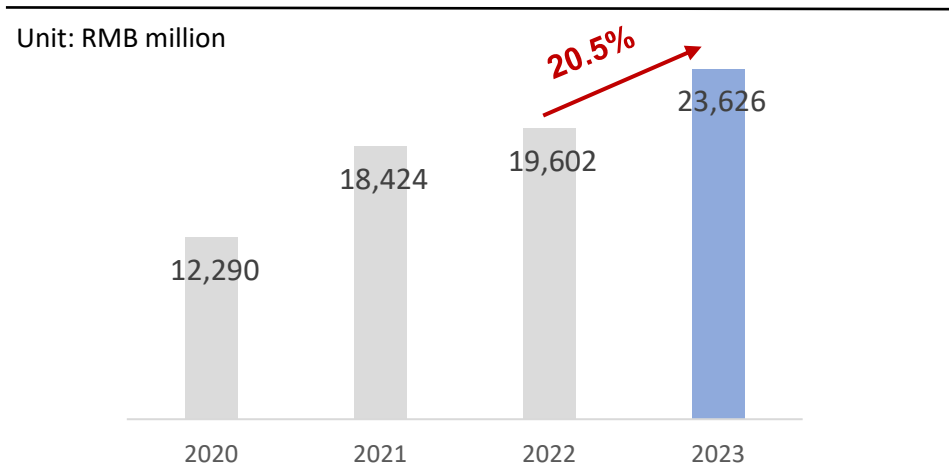
12.98

11.66

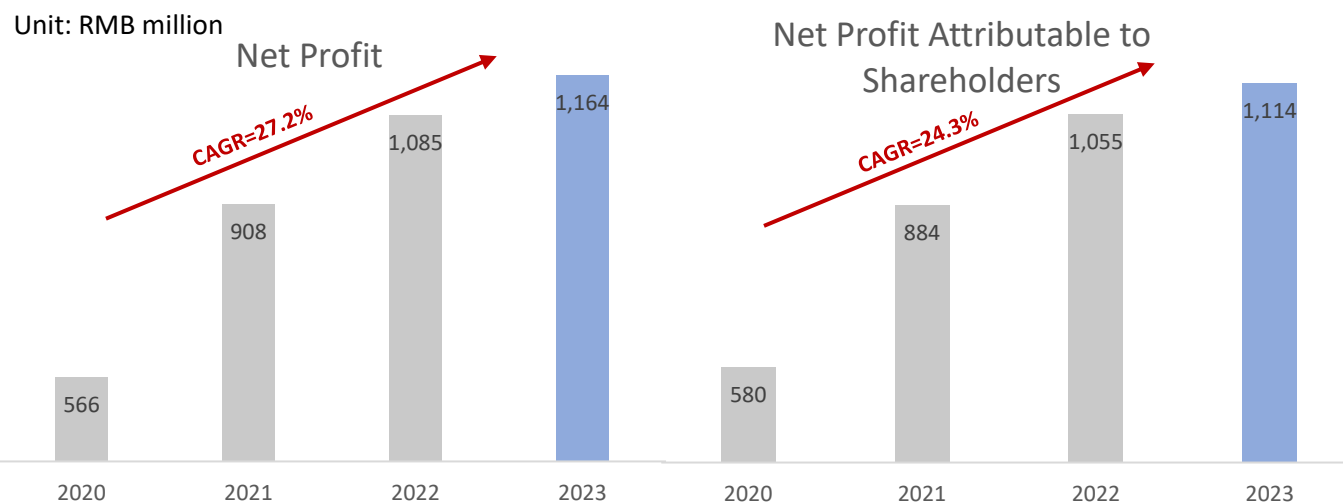


# Income and Net Profit Reached a Historic High in 2023, Dividend Payout Ratio Increased to 50%

Revenue increased significantly by 20.5% YoY, 2020-2023 CAGR=24.3%,  
Gross Profit Margin Remained Stable



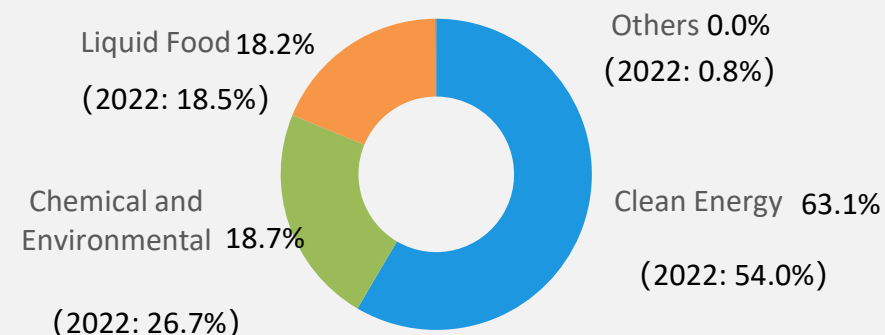
Net Profit and Net Profit Attributable to Shareholders up 7.2% and 5.6% YoY



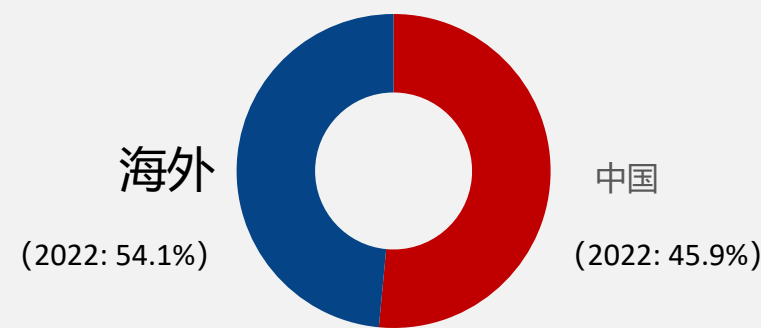
• Dividend per share: HKD0.3 (RMB0.27); Net operating cash flow: RMB1.78 billion

\*All financial data is in RMB, except for dividend per share

## Revenue breakdown by segment



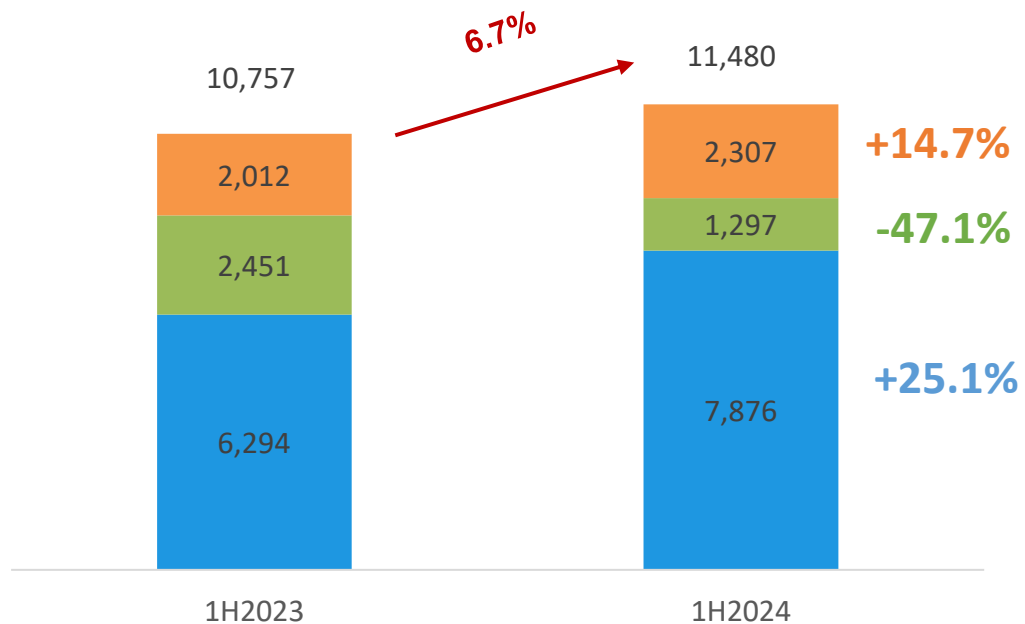
## Revenue breakdown by location



# 1H2024 Overall Revenue Increased YoY, with Robust Growth in Clean Energy Revenue

Clean energy revenue increased significantly by **25.1% YoY**

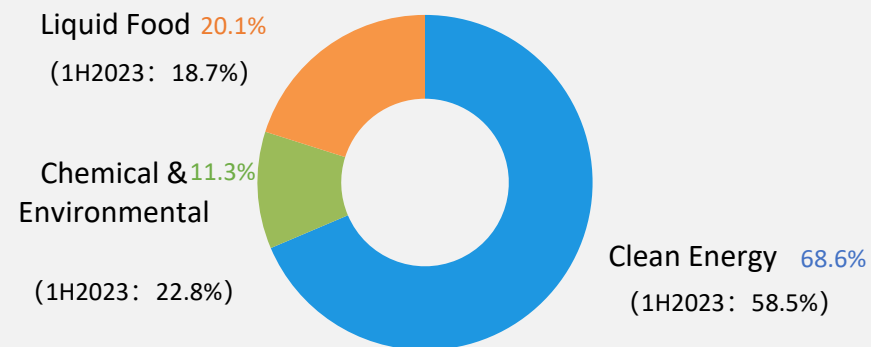
Unit: RMB million



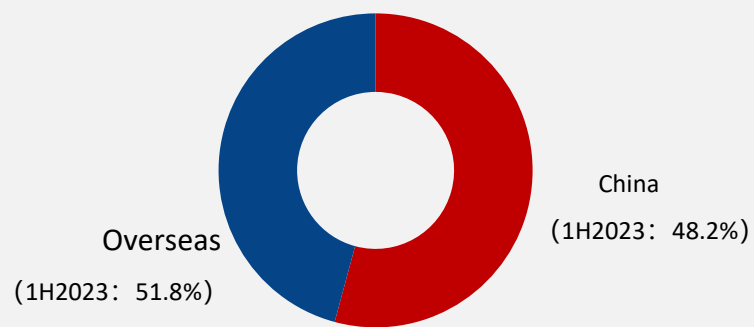
■ Clean Energy ■ Chemical and Environmental ■ Liquid Food

- 1H2024 hydrogen energy business revenue: **RMB450 million, up 65.2% YoY**
- Cash inflow from operating activities: **RMB620 million**

## Revenue breakdown by segment



## Revenue breakdown by region

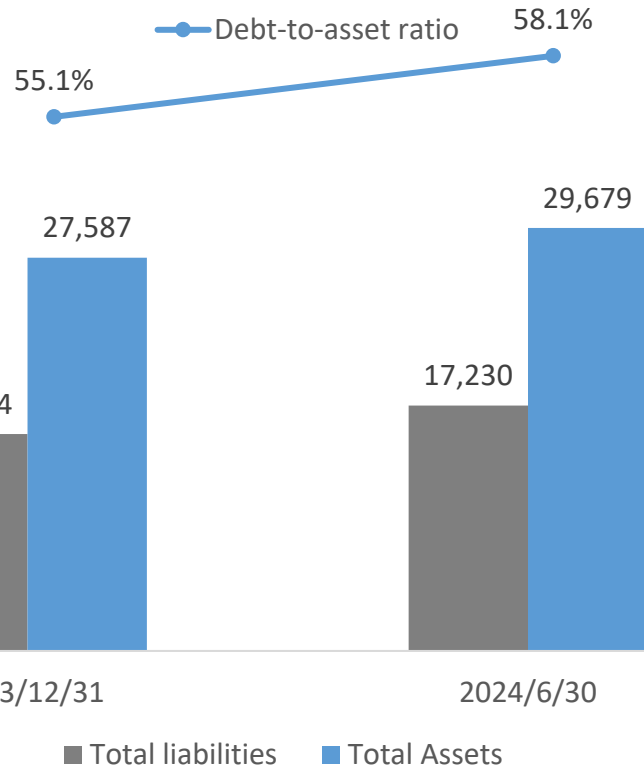


\*All financial data currency is in RMB

# Long-term Robust Asset-liability Structure

## Robust asset-liability structure

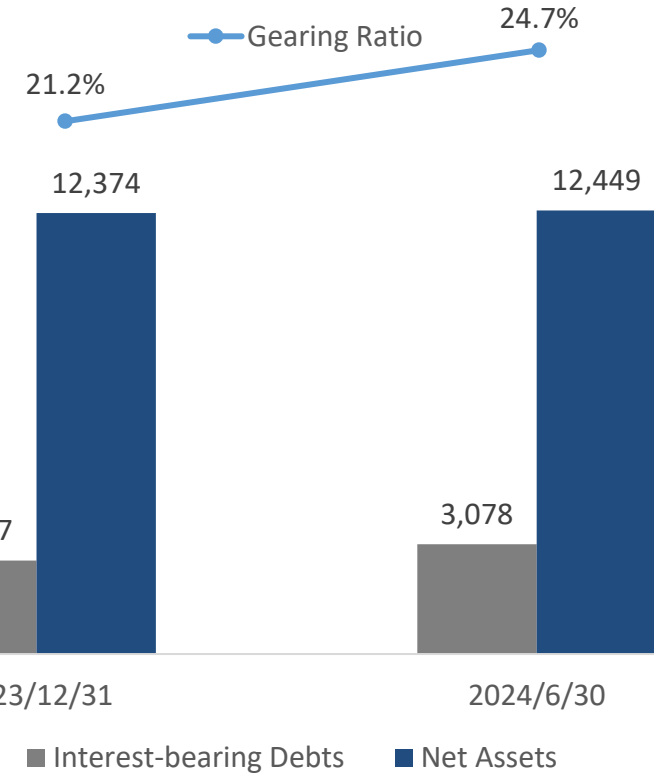
Unit: RMB million



- Total liabilities of RMB17.23 billion included accounts payable, contract liabilities, interest-bearing debts, etc.
- Interest-bearing debts was RMB3.08 billion.

## Gearing ratio up slightly

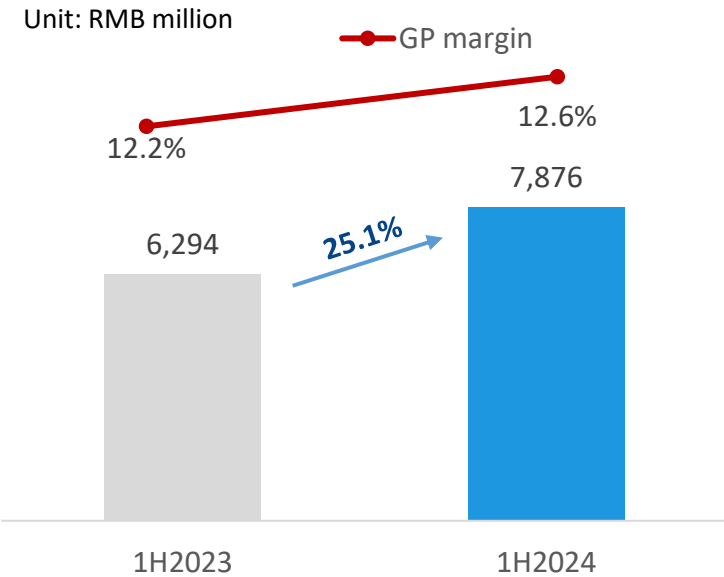
Unit: RMB million



- Interest-bearing debts included zero-coupon convertible bonds of RMB1.51 billion, medium-term notes of RMB500 million and loans from financial institutions of RMB1.07 billion
- Excluding the effect of convertible bonds, the gearing ratio was 12.6%.

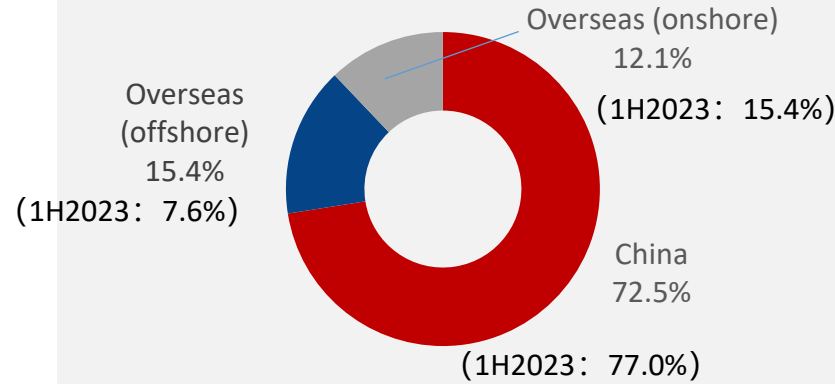
# Clean Energy Segment Performance

## Revenue sharply increased by 25.1%

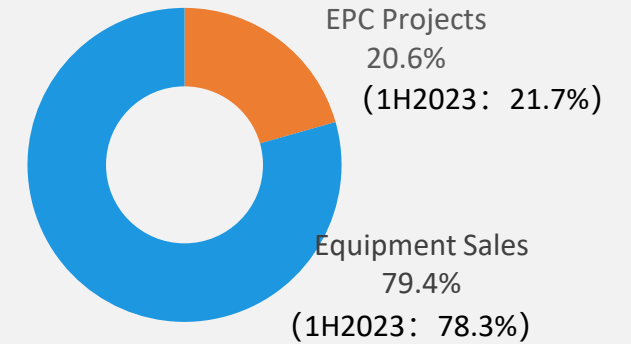


- 1H2024 hydrogen energy business revenue: **RMB450 million, up 65.2% YoY**
- 1H2024 offshore clean energy revenue: **RMB1.77 billion, up 48.9% YoY**

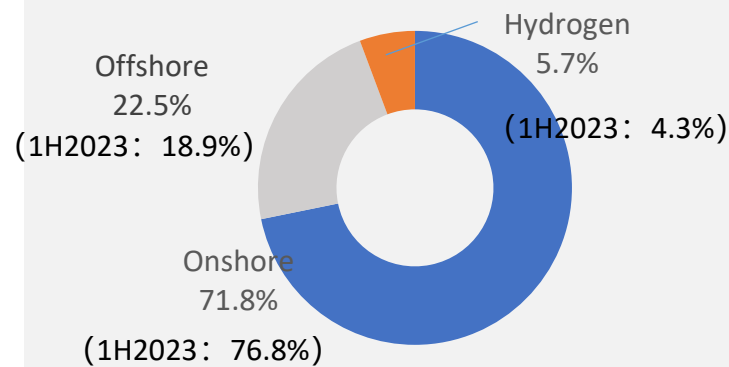
### Revenue breakdown by location



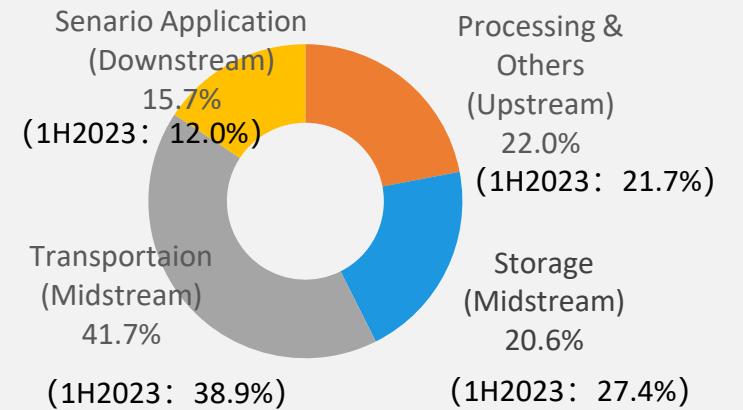
### Revenue contribution from EPC



### Revenue breakdown by business

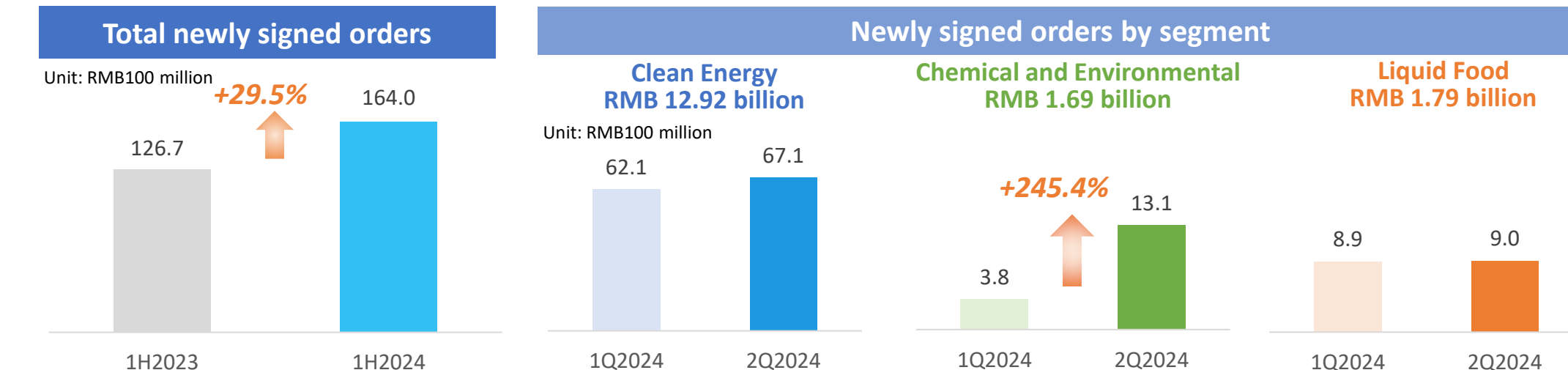


### Revenue breakdown by industry chain



## Newly Signed Orders – Clean Energy Soared

- Newly signed orders for clean energy soared 63.3% to RMB12.92 billion, with offshore clean energy up 128.0% YoY to RMB6.86 billion, and overseas onshore clean energy up 48.8% YoY to RMB1.51 billion fueled by strong overseas business expansion;
- Newly signed orders for chemical and environmental segment in 2Q2024 surged 245.4% QoQ, up 28.6% YoY;
- Liquid food segment secured several domestic whisky projects. As more large-scale beer projects were awarded in 1H2023, including a major turnkey beer project in Mexico valued at EUR180 million (RMB1.43 billion), newly signed orders in 1H2024 comparatively decreased YoY.



Newly signed orders in 1H 2024 (Unit: RMB 100 million)			
Clean Energy Categories	Current Period	Same Period Last Year	YoY Change
Storage	24.7	20.3	21.3%
Transportation	87.6	44.3	97.7%
Scenario Application	14.5	8.7	66.6%
Processing and others	2.4	5.8	-58.4%
<b>Total</b>	<b>129.2</b>	<b>79.1</b>	<b>63.3%</b>

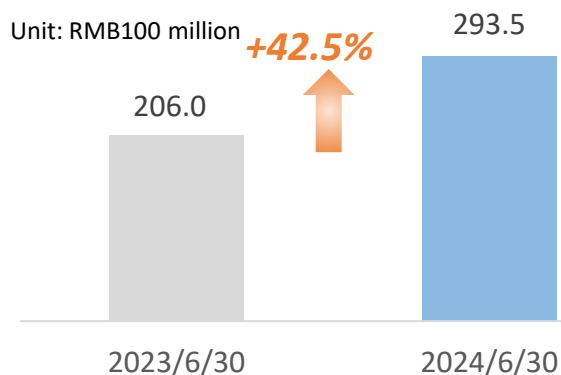
Newly signed orders in 1H 2024 (Unit: RMB 100 million)			
Clean Energy Categories	Current Period	Same Period Last Year	YoY Change
Onshore Clean Energy	56.1	45.6	23.1%
Offshore Clean Energy	68.6	30.0	128.0%
Hydrogen Energy	4.5	3.5	29.3%
<b>Total</b>	<b>129.2</b>	<b>79.1</b>	<b>63.3%</b>

- Newly signed orders: Cumulative value of all orders signed in 1H2024
- The change in ratios is consistent with 2024 Interim Results Announcement

# Backlog Orders Reached A New High

- Backlog orders amounted to RMB29.35 billion, significantly up 42.5% YoY
- New lighthouse production line for LNG on-vehicle cylinders commenced operation during the period, with a significant increase in production capacity and delivery efficiency

## Overall backlog orders



## Backlog orders by segment



- Clean Energy: RMB22.93 billion, surged significantly by 70.7%
- Offshore Clean Energy: RMB15.06 billion, up 136.9%
- QoQ improvement for chemical and environmental
- Maintained robust backlog orders for liquid food

Clean Energy Categories	Clean Energy Categories		
	Current Period	Same Period Last Year	YoY Change
Storage	46.9	40.5	15.7%
Transportation	164.0	75.0	118.5%
Scenario Application	10.1	10.8	-6.4%
Processing and others	8.3	8.0	4.0%
<b>Total</b>	<b>229.3</b>	<b>134.4</b>	<b>70.7%</b>

Clean Energy Categories	Clean Energy Categories		
	Current Period	Same Period Last Year	YoY Change
Onshore Clean Energy	75.4	67.1	12.4%
Offshore Clean Energy	150.6	63.6	136.9%
Hydrogen Energy	3.3	3.7	-11.0%
<b>Total</b>	<b>229.3</b>	<b>134.4</b>	<b>70.7%</b>

- Backlog orders: Backlog orders as of 30 June 2024
- The change in ratios is consistent with 2024 Interim Results Announcement

# Vision and Mission

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## Mission

To provide high-quality and reliable smart equipment and services to customers, generate sound returns for shareholders and staff, and create sustainable value to the society.

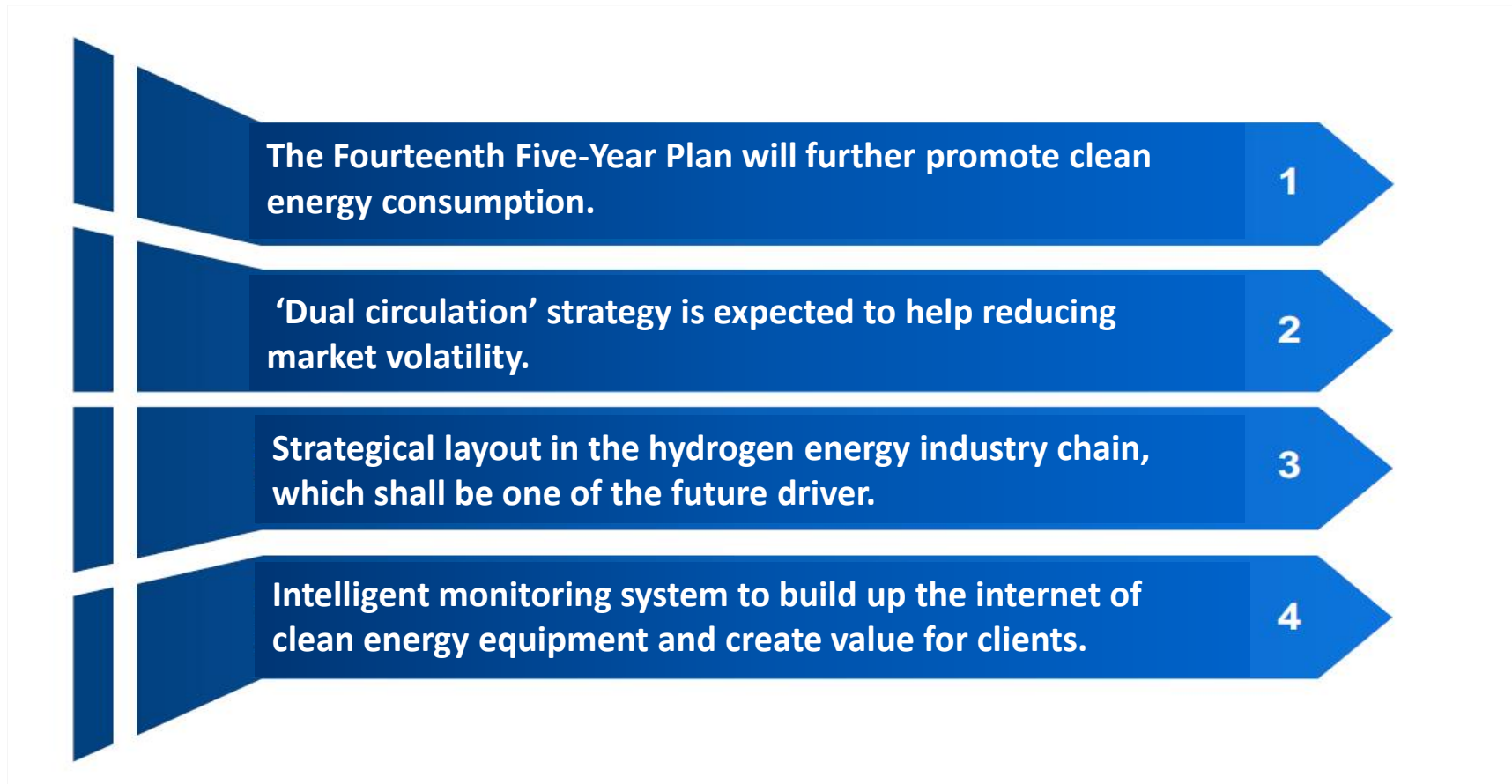
## Vision

To be a respected world-leading enterprise in Clean energy, chemical and environmental, and liquid food industries.



## Industrial Outlook

Aim to build an interactive value-added industry based on “key equipment + core technology + comprehensive services”, and become a **Comprehensive Service Provider of Technology-based Low-carbon Intelligent New Energy Solutions**





# Appendix: Milestone of CIMC ENRIC

## 2007

CIMC Group acquired “Enric Energy Equipment Holdings Ltd”, a Hong Kong listed company



## 2008

Acquired Jingmen Hongtu and entered into the realm of LPG and other medium-pressure storage and transportation equipment



## 2009

Zhangjiagang Sanctum, a LNG cryogenic equipment company, Nantong CIMC Tank (currently known as CIMC Safe Tech), a chemical tank container company and Holvrieka, a beer fermentation tank brand, were introduced by CIMC Group to Enric Energy Equipment Holdings Ltd, completing the business layout of clean energy, chemical and environmental and liquid food segments, renamed as “**CIMC Enric Holdings Limited**”

## 2010

Provided hydrogen equipment for Shanghai World Expo

## 2011

Acquired Nanjing Yangzi Petrochemical Design & Engineering Co., Ltd., developing relatively complete capabilities in the realm of energy and chemical engineering

## 2012

Acquired Ziemann, a world-class brewing system design and EPC turnkey brand, to improve industrial beer turnkey engineering capabilities

## 2013

Delivered 300m<sup>3</sup> liquid hydrogen storage tank to Wenchang, Hainan



Included in Hong Kong Hang Seng Composite Index constituent stock

## 2014

NCLS, a company engaged in liquid food storage tank and beer turnkey project business, was introduced by CIMC Group to CIMC Enric, accelerating development in China market

## 2015

Bought out Dutch BURG SERVICE B.V, initiating the chemical logistics after-sales business layout



## 2016

Acquired Briggs, a British renowned spirits equipment and engineering supplier, diversifying into spirits, yeasts, pharmaceutical, biofuels and other industries

## 2017

Acquired SOE, enhancing offshore natural gas equipment and engineering capabilities

Established Anjiehui, initiating the intelligent business

Developed 35MPa Type III on-vehicle hydrogen cylinder



## 2018

Contracted to build the first 70MPa hydrogen refueling station in China under the National 863 Program, and successfully passed the inspection and acceptance

Nantong CIMC Tank (currently CIMC Safe Tech) was awarded the “Manufacturing Industry Champion Demonstration Enterprise” by the Ministry of Industry and Information Technology

## 2019

Acquired DME, a North American craft beer engineering designer and brewing machine maker, opening a new chapter in product diversification and North American market expansion

# Appendix: Milestone of CIMC ENRIC

## 2020

Completed R&D of 103MPa hydrogen storage containers and 30MPa hydrogen tube bundle vessels



Nantong CIMC Tank Equipment Co., Ltd. (completed its share reform and was renamed as CIMC Safeway Technologies Co., Ltd., initiating its A-share IPO listing process)

## 2021

Established the hydrogen energy business center to focus on the strategic implementation and value-added operation of hydrogen energy

Set up joint ventures with Hexagon Purus to domestically produce the world's leading Type IV on-vehicle hydrogen cylinders

Set up a joint venture with Angang Steel for the joint production of LNG and hydrogen from coke-oven gas, and entered into the hydrogen production business



Provided Beijing Winter Olympics with a full range of high-quality hydrogen equipment



Established the new energy business center to engage in upstream liquefaction, processing and operation business

Acquired shipyards and berths along the Yangtze River Route, seizing the development opportunities arising from the offshore clean energy industry chain

## 2022

LPG tank truck with pump successfully obtained the "Three New Assessments (三新 評審)", among the first two intelligent LPG micro-pipe network integrated solution providers in China to pass the review

Delivered 78 oil-to-gas conversion vessels to help green upgrade of inland waterway shipping



Developed green methanol production business and formed strategic supply intention with global shipping giants

## 2023

CIMC Safe Tech was successfully listed on A-share

Completed the R&D of 45MPa diaphragm hydrogen compressor and 90MPa liquid-driven hydrogen compressor, becoming the only domestic integrated solution provider that can independently produce all core equipment for hydrogen refueling stations



- Clean Energy
- Hydrogen Energy
- Chemical & Environmental
- Liquid Food

# Appendix: Milestone of CLPT

A. **Ziemann** established a coppersmith workshop, which marks the beginning Ziemann's legacy.



1852

Samuel **Briggs** establishes S. Briggs in Burton-on-Trent, an ironmonger and coppersmith workshop.



1865

**Holvrieka** was acquired by the largest tank container producer in China. Our group becomes part of **CIMC Enric Holdings**



2007

Our production facility in **Nantong**, China was established.



2009

**Ziemann International GmbH** joined the group.



2012



2016

**Briggs of Burton** was acquired in 2016 and joined the group.



2019

Craft brewing equipment manufacturer **DME** joined the group.



2020

Scottish Copper stills manufacturer **McMillan** joined the group.



2021

Our group entity CETP was renamed **CIMC Liquid Process Technology (CLPT)**.



2023

Raw material handling expert **Künzel Maschinenbau GmbH** joins the CLPT group

# Continuous R&D and Technological Innovation



Completed the development of **the first phosphine and hydrogen gas mixer manifold container** in China, with leading product specifications, marking a breakthrough in domestic electronic gas storage and transportation equipment

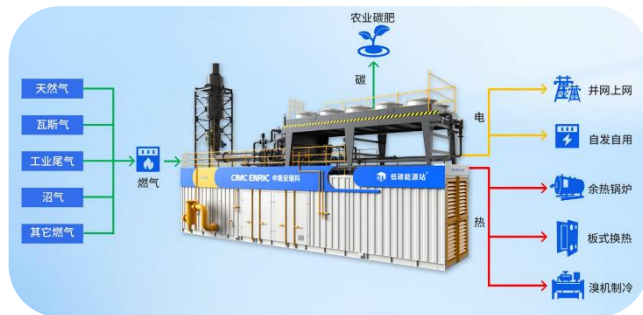


Completed **the R&D of the SL series distributed energy stations and application**, delivered to clients, contributing to industrial energy conservation and effectively expanding the low-carbon integrated energy service business.



Massive delivery of **the largest-capacity CO2 semi-trailers in China**, intended for carbon capture, utilization, and storage (CCUS) projects, contributing to the development of a carbon circular economy.

## Breakthrough and innovation of cutting-edge onshore clean energy equipment



## First project of MGC carriers for offshore clean energy



Completed the design and development of **B-type cargo tanks for LNG carriers**, constructed and delivered the largest one in China, providing customers with solutions for A-type, B-type and C-type liquid cargo tanks.



**Won the first project of A-type liquid cargo tank MGC**, creating a full range of product series for small and medium-sized offshore liquefied gas carriers.



The **methanol fuel supply system** has been granted the Approval in Principle (AIP) certificate for methanol fuel supply systems by DNV, the Norwegian classification society.

# Continuous R&D and Technological Innovation

## R&D in hydrogen energy leading the industry



**Liquid hydrogen:** Completed the development of ASME standard liquid hydrogen storage tank, and successfully signed the first order; launched the first commercial liquid hydrogen tank truck in China



**Storage and Transportation:** Successfully launched the first 30MPa hydrogen tube bundle container and the first cryogenic anhydrous ammonia transport carrier in China and achieved mass orders for both products.



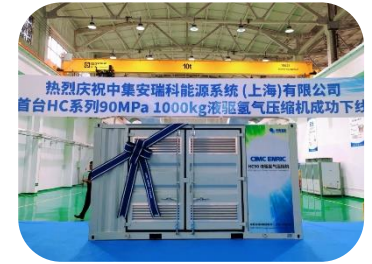
**Hydrogen compressor:** Successfully launched 90MPa 1000kg liquid-driven compressor and 45MPa diaphragm compressor, and achieved independent production and construction of all core equipment for hydrogen refuelling stations



**Standards:** Participated in the preparation of the national standard for Type IV cylinder, which was released and implemented; led in the completion of a number of group standards for hydrogen storage and transportation containers;



**Hydrogen production:** launched 1200Nm<sup>3</sup>/h alkaline electrolyser and skid mounting methanol-to-hydrogen equipment;



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# Thank you

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