CIMC ENRIC
中集安瑞科

Advanced intelligent manufacturer in clean energy industry

3899.HK

CIMC Enric Holdings Limited

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About Us

About CIMC ENRIC

CIMC 中集

Stock code: 000039.SZ / 2039.HK)

A global business conglomerate

- Containers
- Vehicles
- Energy, Chemical and Liquid Food
- Offshore Engineering
- Logistic Service
- Airport Facilities
- Finance

CIMC ENRIC 中集安瑞科

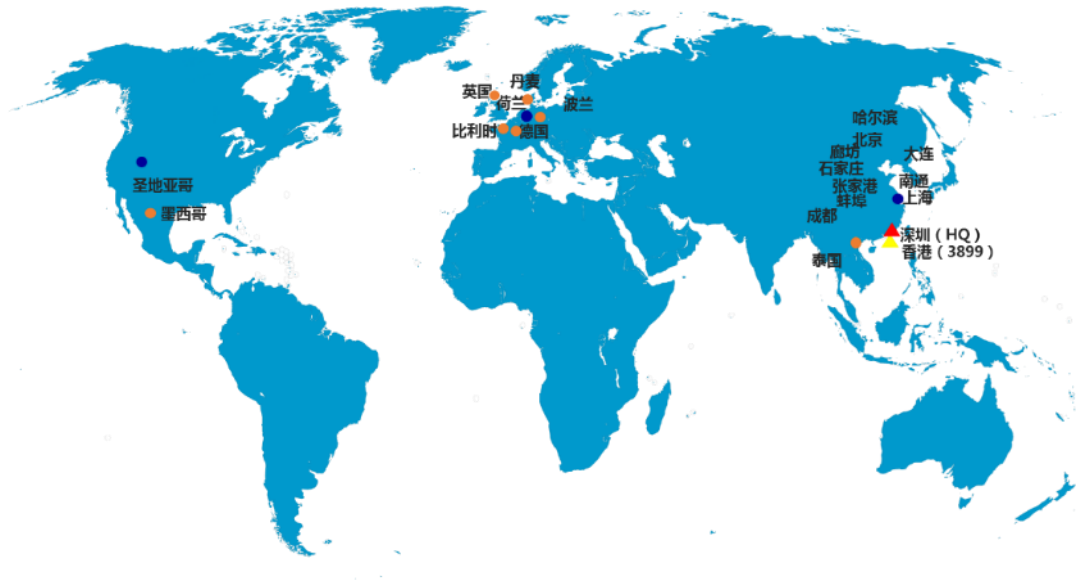
(Stock Code: 3899.HK)

Leading intelligent equipment manufacturer in clean energy industry

Clean Energy | Chemical & Environmental | Liquid Food

Global Market Expansion with Root in China

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



Global Market Leader in

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

China Market Leader in

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

CIMC Enric recorded revenue of around RMB 8.95billion in 1H2022

Clean Energy

4.68B（52%）

Chemical & Environmental

2.55B（29%）

Liquid Food

1.72B（19%）

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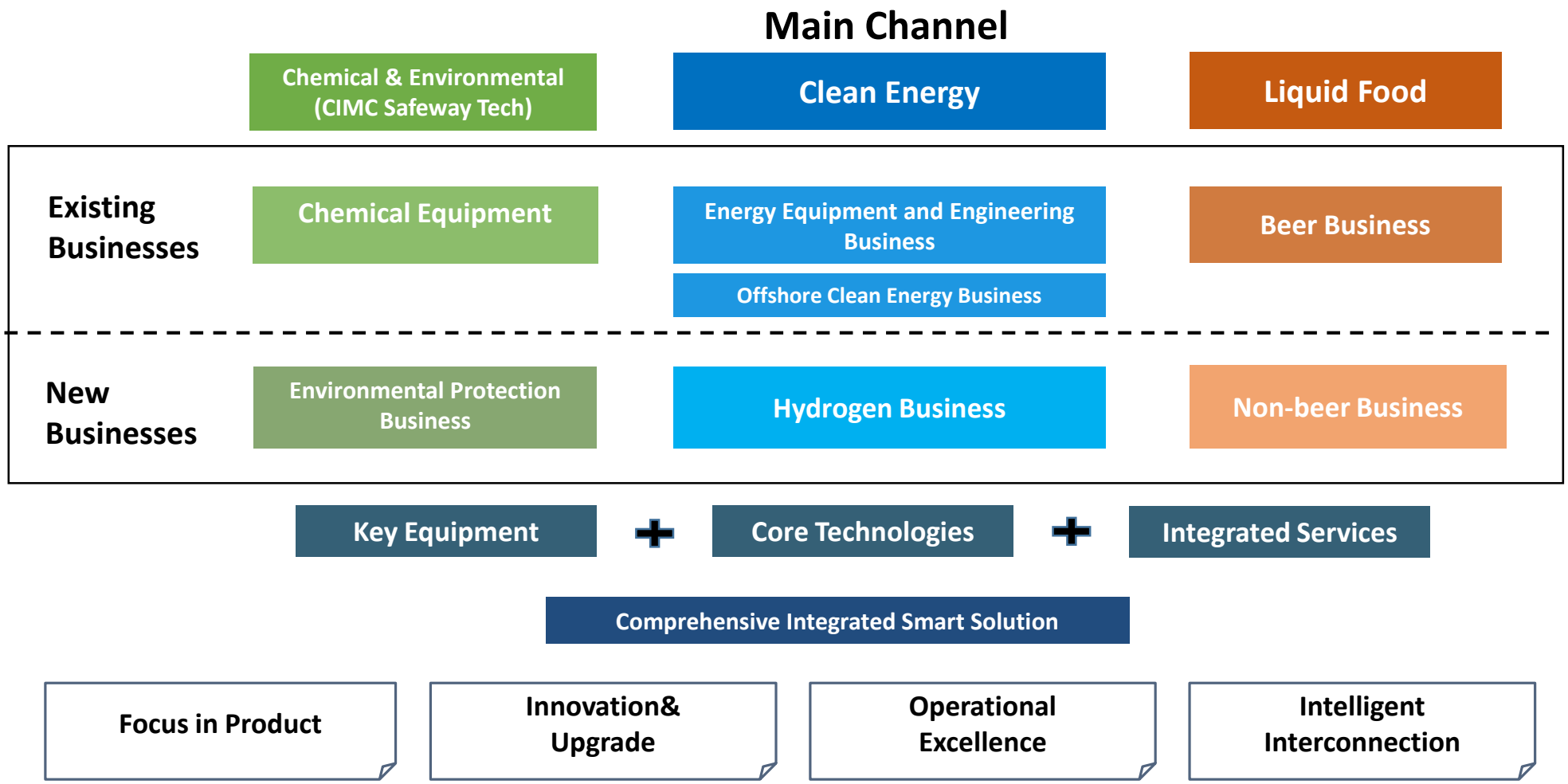
Strategic Layout of Three Major Segments



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

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Technology-driven and Leading Innovation Projects

R&D on Hydrogen

- R&D on high-pressure hydrogen equipment：The 103MPa hydrogen storage vessel obtained the ASME U3 manufacturing license, and the 99MPa storage vessel completed the domestic Three New Assessment and obtained approval. 260L and 385L Type III hydrogen cylinders are ready for production.
- R&D on liquid hydrogen equipment: The group standard and enterprise standard for liquid hydrogen storage tanks have been released, the design of liquid hydrogen tankers and liquid hydrogen spherical tanks has been completed and passed the preliminary examination of the Ministry of Science and Technology.
- R&D on Hydrogen refuelling station equipment: The skid-mounted hydrogen refuelling devices are in the trial production or application stage.

R&D on Liquid Helium

- Independently developed China’s first 40-ft liquid helium tank container in accordance with the ASME standard and obtained the certification from the BV Classification Society with excellent performance and received bulk orders.
- The boiling point of helium is -268.9°C, which is lower than hydrogen. The manufacturing capability of liquid helium equipment represents the top level in the domestic cryogenic field.

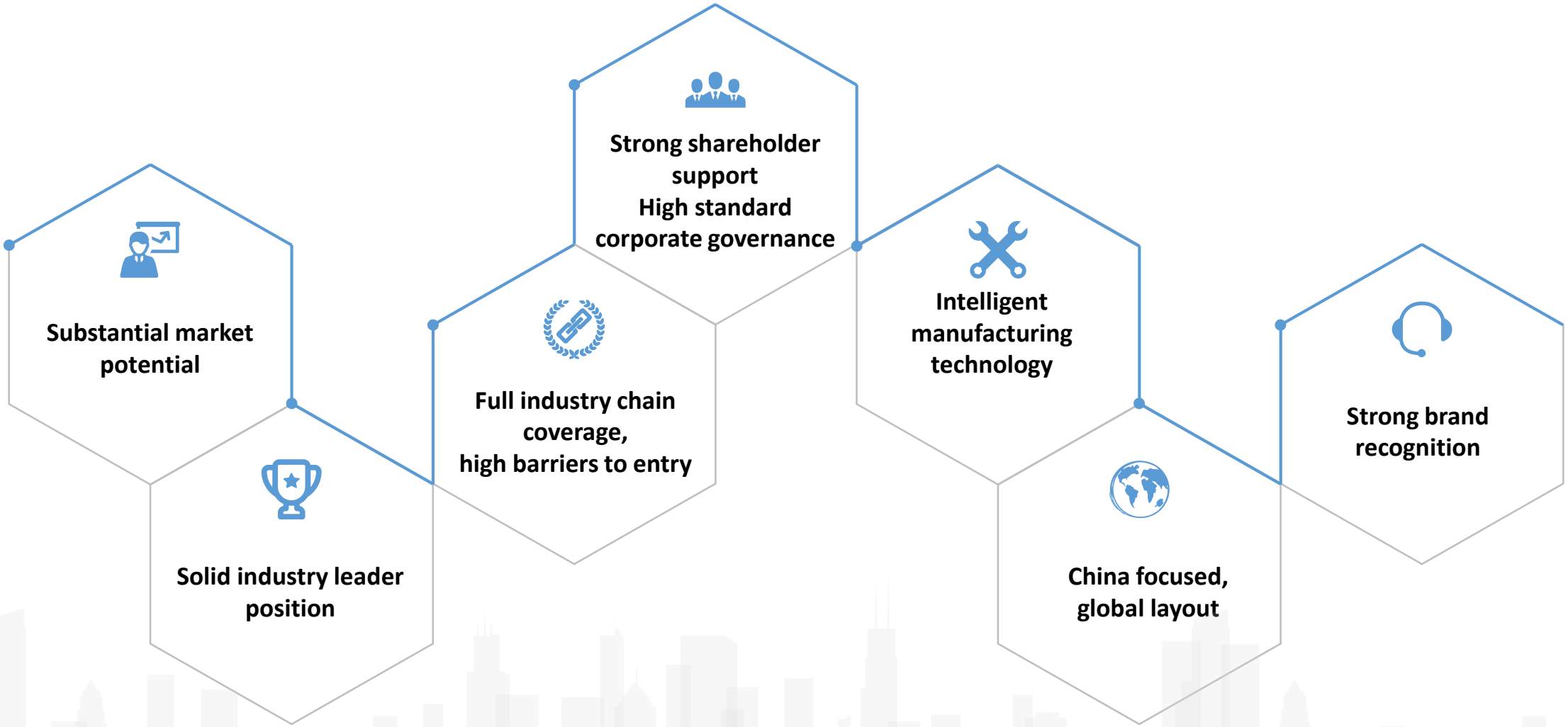
China Patent Excellence Award

- CIMC Enric's patents for "Storage and Transportation Container" and "A Large-Volume Tank Container" were awarded the China Patent Excellence Award. It represents a national level of recognition.
- The China Patent Award is jointly selected by the State Intellectual Property Office of China and the World Intellectual Property Organization (WIPO), which is the highest patent award in China.

High-manganese Steel

- High manganese austenitic cryogenic steel series products have obtained the "Certificate of Works Approval" issued by China Classification Society.
- The only manufacturer in China certified by CCS to apply high-manganese steel on LNG marine tank.
- Compared with 304 stainless steel and 9Ni steel, high manganese steel has great application potential in other cryogenic fields with lower cost and better performance.

Core Competitive Edges



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Business Overview

Clean Energy Business

Natural Gas-focused Onshore + Offshore Clean Energy Business Layout

Offshore Clean Energy Industry Chain

Upstream (Production and processing)

▲ Offshore oil and gas processing module

Midstream (Distribution)

▲ Small and medium-sized gas carriers （LEG/LPG/LNG）

Downstream (Application)

▲LNG bunkering vessel and off/ onshore bunkering
▲Oil to gas conversion for ships (marine tanks and power systems) (inland waterways, coastal)

Onshore Clean Energy Industry Chain

Upstream (Production and processing)

▲Liquefaction plant/wellhead skid-mounted equipment
▲Onshore wellhead gas treatment and processing

Midstream (Distribution and Storage)

▲Clean energy distribution equipment
▲LNG peak shaving storage equipment and engineering
▲Other clean energy storage equipment and engineering

Downstream (Application)

▲Clean energy equipment for transportation
▲Commercial and industrial LNG small fuel tanks

Hydrogen Industry Chain

Upstream (Production and processing)

▲Hydrogen production from methanol and hydrogen refueling demonstration project
▲Hydrogen production from coke oven gas demonstration project

Midstream (Distribution and Storage)

▲Hydrogen Tube bundle trailer
▲Hydrogen storage tank

Downstream (Application)

▲Hydrogen refueling station ▲Hydrogen combined heat and power solutions
▲Type III, Type IV on-vehicle hydrogen cylinders

Natural Gas Development Positioning

To achieve "dual carbon" goals, the role of natural gas as an energy source in China needs to transition from replacing coal to both supporting the large-scale development of new energy and becoming the alternative fuel for those with high carbon emissions or high pollution. It is estimated that the growth rate of natural gas consumption in 2022 will reach 8.5%, and that industrial gas consumption, city gas consumption and consumption in power generation will maintain relatively fast growth.

Expansion Applications for Natural Gas

Replacing coal

The major alternative energy source for coal and oil

In terms of carbon emissions per unit of energy, carbon emissions of coal are 1.29 times those of oil and 1.69 times those of natural gas.

The partner of choice to support a high proportion of renewable energy in energy mix

In power generation, replacing coal with natural gas can not only improve energy conversion efficiency, but also offer great environmental protection advantages and strong peak shaving capabilities.

The foundation for developing the hydrogen energy industrial chain

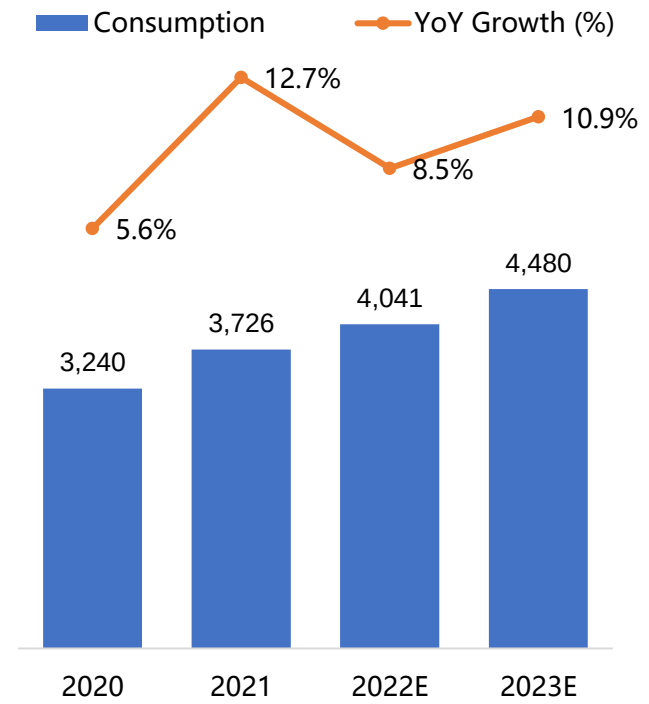
Hydrogen production from natural gas produces the lowest carbon emissions among all fossil fuels. Hydrogen and natural gas can be transported together by mixing them in certain proportions.

Replacing energy sources with high carbon emissions

Supporting new energy development

China Natural Gas Consumption Forecast 2022-2023

In 100 million cubic meters



Sources: Wind, National Development and Reform Commission, Gas Tank, LESSBETTER

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LNG Tank Container-based Multimodal Transportation Integrated Solution

One-stop, flexible and convenient solution for overseas gas import and logistics

Gas Liquefaction

LNG Liquid Factory Loading

Overseas Railway Transportation

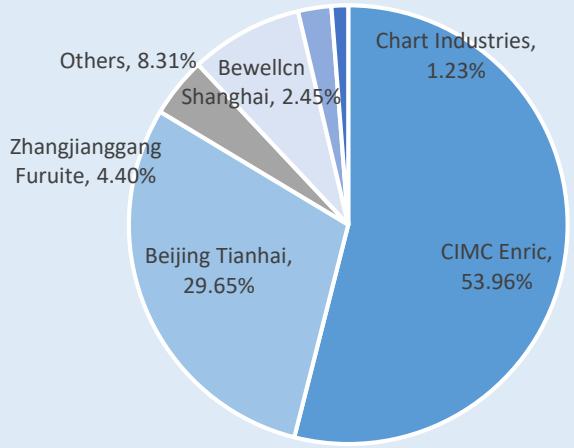
Overseas Marine Transportation

Domestic Truck Transportation

End user

The Company's multimodal LNG tank container products can realize “One Tank to the End" LNG transportation and trade mode. The solution is a new LNG logistics model and a new way of LNG trading. The LNG tank container specially customized for customers has an 18% higher loading capacity than ordinary ones, with a superior safety performance exceeding highest requirements. And it can be kept warm for 90-120 days without being connected to electricity.

Competitive Landscape of LNG Tank Container Market in 2021



Source：GIIGNL, Huatai Research

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Integrated Solution for Inland Waterway Green Shipping

One of the designated equipment suppliers for LNG-powered vessel conversion in Guangdong Province
Provide customers with a package solution of “equipment + process + service”

LNG-power vessel building / conversion

Smart Ship Networking for Ship-to-Shore Interaction

LNG Bunkering Vessel / LNG Fuel Tank Replacement Model

LNG price maintain a fixed discount to the current diesel price

Gas supply agreement with CNOOC for LNG-powered vessels

LNG Fuel Tanker “Replacement Demonstration Project"

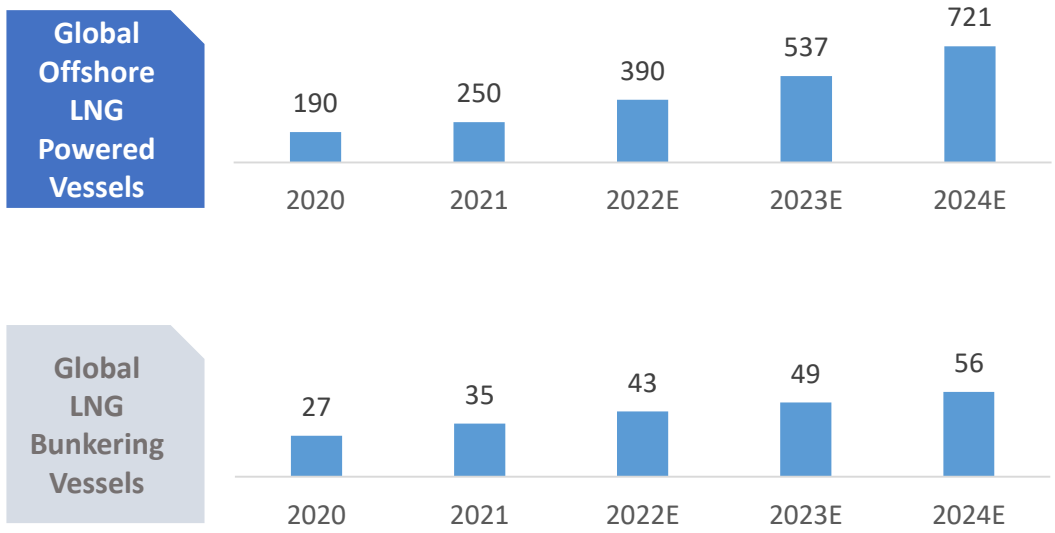
We cooperated with Zhaoquing Municipal Government and local container terminals to push forward the LNG tank replacement demonstration project; reached a preliminary agreement with Yantze Shipping to push forward a joint trial operation of LNG tank replacement mode on their vessels to solve the problems of the long bunkering time, practical difficulties in operation and safety hazards of traditional mode.

"Gasification of the Pearl River" – A Demonstration Project for Old Vessel Renovation

The old vessel renovation project has started delivery. Currently, the Company has secured 121 oil-to-gas vessel conversion orders. There are 24 LNG bunkering stations in China, including 14 shore-based bunkering stations and 10 bunkering vessels, of which over 30% are built by CIMC Enric.

Booming LNG-powered Vessel Market Orders Steady Growth on Bunkering Business

As a world leader in the segment of small and mid-size gas carrier, the Company offers professional solutions of energy-saving, environment-friendly and innovative technology. The product chain covers full-pressured carriers, semi-refrigerated & semi-pressurized carriers, which includes LPG carriers, ethane carriers, LEG& LNG carriers and so on. By the end of 2021, it has delivered more than 40 series of various types of liquefied gas carrier and bunkering vessels with leading market share, including the world's largest 20,000 cubic meters LNG carrier and bunkering vessel. **It is also the forerunner of the domestic offshore module manufacturing** and has successfully delivered more than 40 various modules including regasification module, FPSO upper module, e-house module, and deckhouse module, etc, including the first LNG regasification module in Asia.



Data source: DNV Alternative Fuels Insight

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Create An Integrated Solution for Smart Energy

Anjiehui IoT Platform

- ✓ Information Collection
- ✓ Oil-to-gas Conversion
- ✓ LNG-powered Ship Building
- ✓ Logistics
- ✓ LNG Fuel Tank Replacement
- ✓ Depot Management
- ✓ Bunkering Station

➢ **Provide customers with overall solutions by providing equipment and information operation platforms for the whole process from gas production to refueling.**

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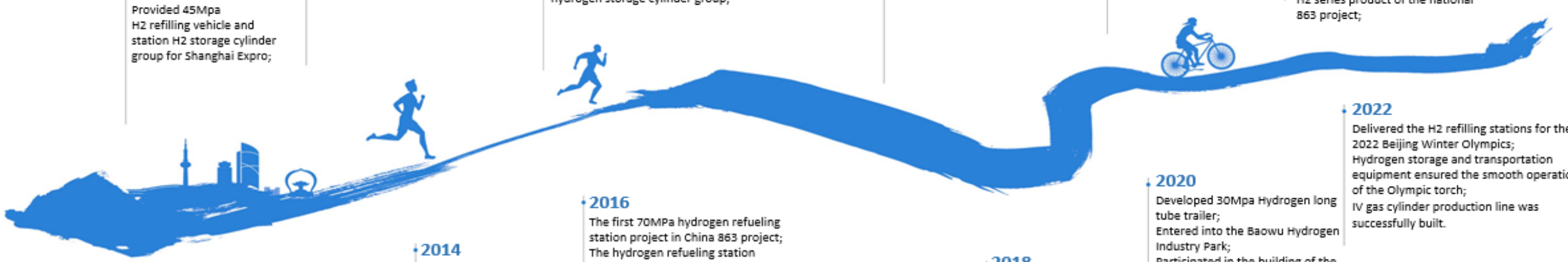
Clean Energy

Hydrogen Roadmap

Hydrogen Energy Foot Print



2006
Announced for H2 transportation vehicles of 10 pipelines in China;

2010
Provided 45Mpa H2 refilling vehicle and station H2 storage cylinder group for Shanghai Expro;

2011
Provided 45Mpa H2 refilling vehicles and H2 storage cylinder group at H2 refilling station for **Shenzhen University Games;**
Developed the first domestic 300m^3 movable high vacuum multi-layer structure liquid H2 storage cylinder;

2013
Delivered the 300m^3 Liquid H2 storage cylinder to Wenchang, Hainan;
Developed and launched 20MPa hydrogen compressor;

2014
Developed II hydrogen long tube trailer;

2015
Developed the 87.5Mpa hydrogen storage cylinder group;

2016
The first 70MPa hydrogen refueling station project in China 863 project;
The hydrogen refueling station project passed the acceptance;

2017
Completed the development of the 35MPa III vehicle hydrogen cylinder;
Started the development of the 45MPa hydrogen compressor;

2018
Started the research and development of IV gas cylinder;
Developed the H2 refilling station series;

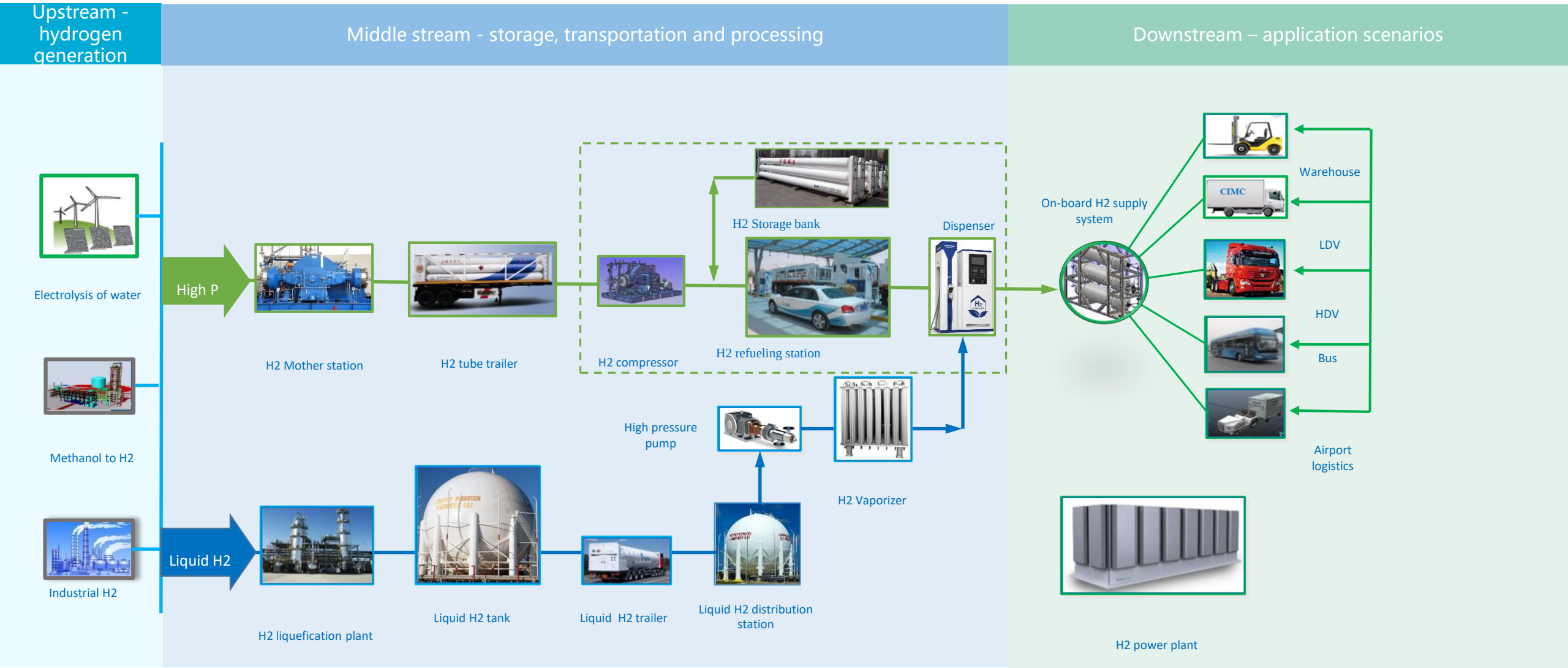
2019
Developed product series of H2 refilling machine, skid-mounted hydrogen refueling station and vehicle H2 supply system;

2020
Developed 30Mpa Hydrogen long tube trailer;
Entered into the Baowu Hydrogen Industry Park;
Participated in the building of the national hydrogen energy demonstration zone;

2021
Established CIMC Hexagon;
The first "oil, gas and hydrogen" comprehensive energy station in Xiongan New Area, Hebei Province was delivered and operated;
Established a joint venture with Angang, and started the coke oven gas hydrogen co-production project;
Researched and developed liquid H2 series product of the national 863 project;

2022
Delivered the H2 refilling stations for the 2022 Beijing Winter Olympics;
Hydrogen storage and transportation equipment ensured the smooth operation of the Olympic torch;
IV gas cylinder production line was successfully built.

Industry landscape



Integrated Business Layout of “Production, Storage, Distribution, Refuelling+ Application”

After 16 years of vigorous development, the Company has set up five international leading equipment manufacturing bases in Shijiazhuang, Langfang, Nantong, Zhangjiagang and Qidong, with an international vision and integrated operation, forming an industrial pattern covering the whole industrial chain of hydrogen covering "production, storage, distribution, refueling and application". The business scope is centered in Beijing-Tianjin-Hebei region, Yangtze River Delta, Great Bay Area, and extends to more than ten countries such as South Korea, Japan, Denmark, Switzerland and the United States, etc., to create a green, convenient and economical integrated solution for hydrogen energy utilization for customers.

Langfang Integrated Division

Shijiazhuang High Pressure Hydrogen

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

Zhangjiagang Liquid Hydrogen Division

Qidong Offshore Hydrogen Energy Division

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

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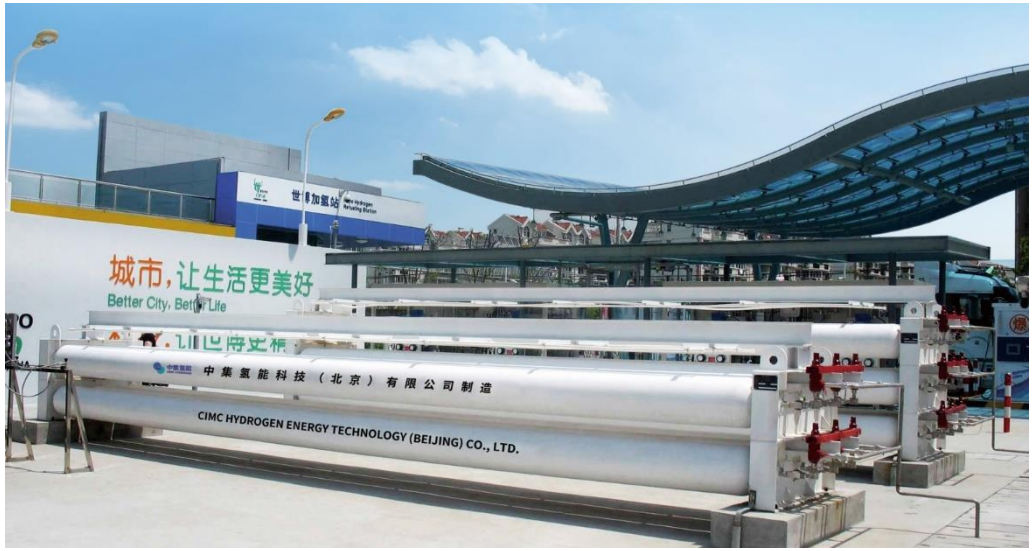
High Pressure Hydrogen Storage and Distribution Equipment

Stationary Hydrogen Vessels

We are the pioneer of domestic large-volume steel seamless gas vessels with China's largest production base for large-volume steel seamless vessels and distribution equipment, and our scale and technical level lead the industry.

At present, the stationary hydrogen vessels developed by us include domestic working pressure covering 20MPa, 25MPa, 45MPa and 90MPa, covering 25MPa, 48MPa and 89.6 MPa for the international version. The volume of a single vessel covers 500-4000L, and the specific configuration can be customized according to customers' needs.

Hydrogen tube trailer for 2022 Beijing Winter Olympics



Hydrogen Tube Trailers

With complete product models, the products are strictly controlled in process of design and manufacturing, and are safe and reliable. Through continuous upgrading of technology, the hydrogen refuelling capacity and the trailer unloading rate are effectively improved, and the energy consumption and the distribution cost are greatly reduced, forming a more economical distribution scheme for customers.

At present, the hydrogen tube trailer developed by us can carry Type I and Type II tube bundle containers, and Type III tube bundle containers are still under development. The working pressure covers 20MPa, 25MPa, 30MPa and 35MPa (under research); the number of tubes can be selected according to customers' needs.

Liquid Hydrogen Storage and Distribution Equipment

Our products are listed in the *National Key New Products*, and have been used in many aerospace projects in our country. The movable functional design of liquid hydrogen storage tank combined with flatbed truck represents for the world leading level, and the tank volume is the largest in Asia and the second largest all over the whole world. The high vacuum multi-layer insulation structure and supporting structure used in liquid hydrogen storage tanks are at the leading level in China.

Technology achievements

30+
Patented technologies in the hydrogen energy field

36+
Qualifications for product and element manufacturing

14+
Qualifications granted by international organizations

33+
National standard and industry regulations preparation

High-vacuum multi-layer winding adiabatic liquid hydrogen storage tanks in Wenchang Satellite Launch Base in Hainan, with the capacity of 300m³ and the work pressure of 0.6MPa

Liquid Hydrogen Storage Tank

Product usage: Liquid H2 storage, mainly for H2 refueling stations, liquid H2 factories and hydrogen gasification stations

R&D Progress: The group standard and enterprise standard for liquid hydrogen storage tanks have been released, and the sample tank is manufacturing

Liquid Hydrogen Tanker

Product Usage: Liquid Hydrogen Distribution

R&D Progress: The design has been completed and passed the preliminary examination of the Ministry of Science and Technology of the PRC

Liquid Hydrogen Spherical tank

Product Usage: Liquid Hydrogen Factories

R&D Progress: The design has been completed and passed the preliminary examination of the Ministry of Science and Technology of the PRC

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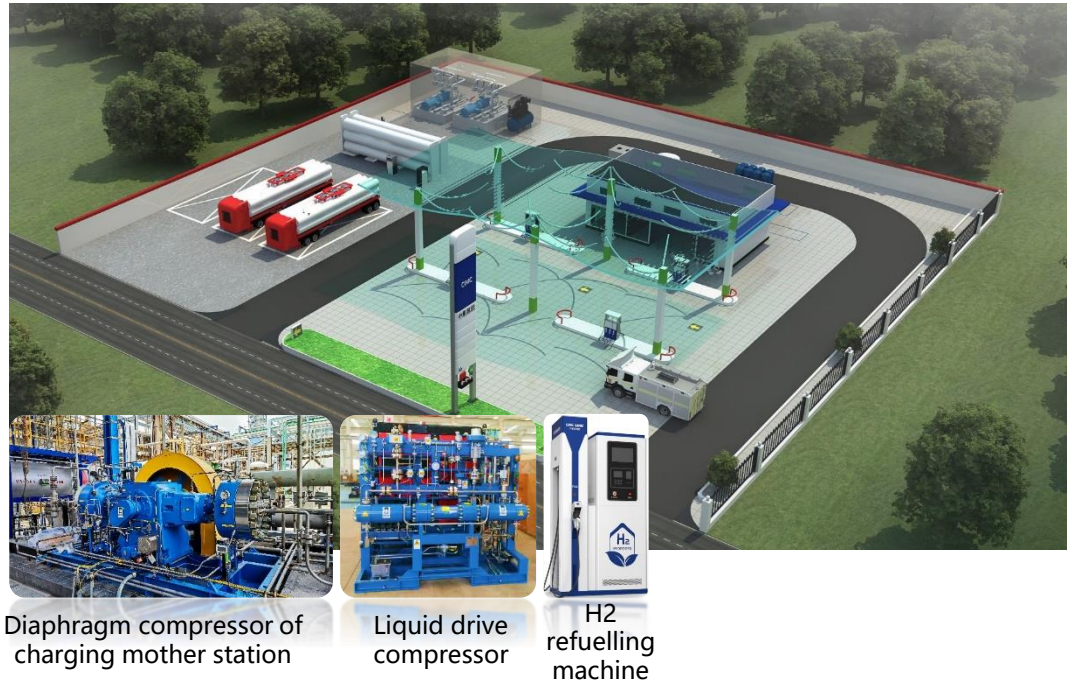
Hydrogen Refeulling Station and Key Equipment

Fixed Hydrogen Refuelling Station

With many years of experience in design, manufacturing and construction of gas refuelling stations, in combination of domestic and international standards of hydrogen stations, hydrogen refuelling stations and hydrogenation mother stations have been established in Guangzhou, Baoding and Zhucheng. In 2021, the first "oil, gas and hydrogen" integrated energy station was delivered in Hebei Province to serve for the infrastructure construction of Xiongan New Area. At the same time, we are one of the enterprises with the highest degree of self-ownership of core equipment in hydrogen refuelling stations. We independently research, design and produce various core components such as diaphragm compressor, liquid drive compressor, hydrogenation machine and deflation column, and provide customers with full-process solutions for hydrogen refueling stations, and are widely praised by customers.



Diaphragm compressor of charging mother station

Liquid drive compressor

H2 refuelling machine

70MPa skid-mounted fully integrated hydrogen refuelling station

In January 2022, the 70MPa skid-mounted fully integrated hydrogen refueling station equipment independently developed and manufactured by CIMC Hydrogen Energy Technology was delivered to Wanquan Oil, Hydrogen and Electricity Integrated Energy Station in Zhangjiakou, Hebei Province, and the products successfully delivered achieved several firsts in domestic technologies.

①First in China
Met 70Mpa filling system of T40 level in SAE J2601 filling protocol and equipped with infrared data communication function

②First in China
Fully integrated hydrogenation unit with multiple functions such as gas unloading, pressurization, control and AI intelligent monitoring system

③First in China
integrated with skid-mounted safety system and equipped with integrated large-screen displayer.

④First in China
Capable of simultaneously supplying hydrogen to 20Mpa and 30Mpa trailers

⑤First in China
Skid-mounted hydrogen refueling device with completely explosion-proof

⑥First in China
Equipped with explosion-proof water cooling system

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On-vehicle Hydrogen Cylinders and Supply Systems

Type III Hydrogen Cylinder and Supply System

As early as 2015, CIMC Hydrogen Energy Technology developed the 35MPa III carbon fiber fully wound hydrogen cylinder with aluminum liner, and passed the international type test certification. The product has tidy appearance, high bulk density ratio, good consistency, good safety and reliability performance, and can store hydrogen of 2.5-4.7 kg with hydrogen storage volume of 28-52m³.

At present, we have jointly developed hydrogen energy power system based on Type III cylinders with Hydrogen Fuel Cell System companies, providing efficient and various hydrogen fuel power system solutions for customers, such as 3 cylinder group for light-duty trucks; 4 cylinder group, 5 cylinder group, 6 cylinder group and 8 cylinder group for buses; 6 cylinder group, 8 cylinder group, 9 cylinder group and 10 cylinder group for heavy-duty trucks.

Type IV Hydrogen Cylinder and Supply System

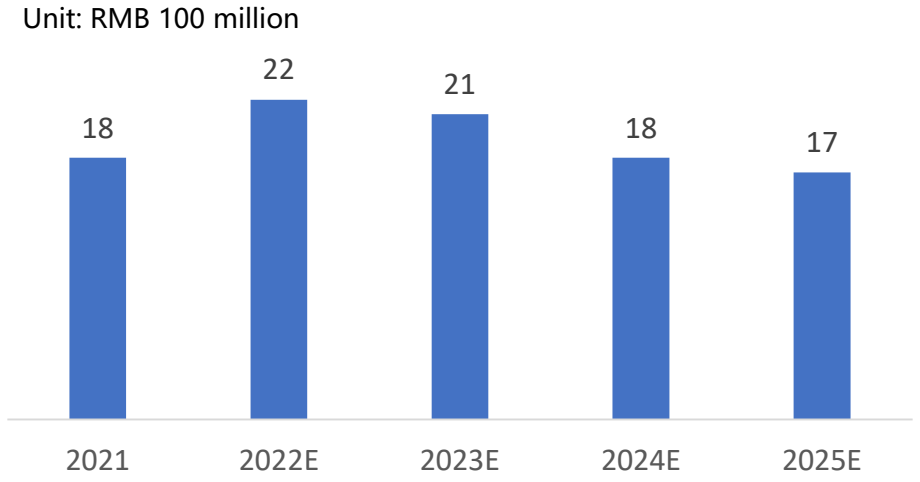
In 2021, CIMC Hydrogen Energy Technology jointly build the largest type IV cylinder production base in Asia with Hexagon Purus, the world's leading manufacturer of Type IV hydrogen cylinders and supply systems, to provide international customers with safer, more efficient and more economical products and solutions. At present, the Company can provide Type IV hydrogen cylinders and supply systems with various pressure levels.

Key Hydrogen Equipment Market Outlook

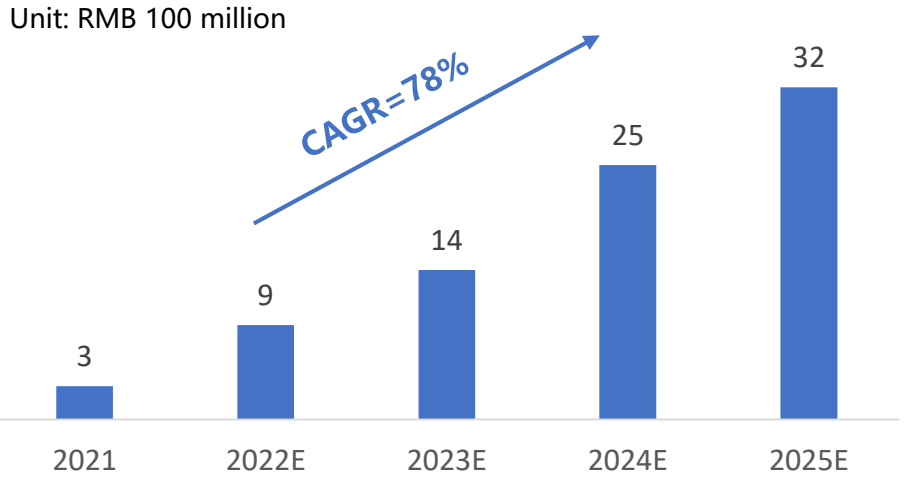
According to plans issued by 10 provinces and municipalities such as Shanghai, Beijing, Guangdong, Shanxi, Shandong, Jiangsu, Hebei, Henan, Sichuan and Hubei. The number of hydrogen refuelling stations will be 420/597/927 in 2022/2023/2025, with a 5-year CAGR of 51% from 2020 to 2025. According to data from the National Energy Administration, as of the end of June this year, more than 270 hydrogen refuelling stations have been built across the country with 52 hydrogen refuelling building in 1H.

According to the launch plans released by certain provinces and cities, the annual CAGR of the new market demand for hydrogen cylinders from 2021 to 2025 is 78% and the market scale is expected to reach RMB 3.2 billion by 2025. According to the data of the China Association of Automobile Manufacturers, in the first half of 2022, the production and sales volume of fuel cell vehicles in China were 1,804 and 1,390, representing a YoY increase of 1.9 times respectively.

Annual New Investment in China's Hydrogen Refuelling Stations



Annual New Market Scale for On-vehicle Hydrogen Cylinders in China



Source: Less Better

Based on the current cost of hydrogen refuelling station construction of approximately RMB15 million and the future decline in the cost of hydrogen refuelling station construction of RMB1 million per year, the cumulative new investment in hydrogen refuelling station construction from 2021 to 2025 will increase by approximately RMB9.5 billion, or an average of RMB1.7-2.2 billion per year.

Some of Our Customers

Upstream

Midstream

End-users & others

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Customers for Hydrogen Business

Chemical & Environmental

Enhance strengths, accumulate experiences, expand to new businesses

Technological Innovation Drives Future Growth

Tank containers of CIMC Safeway Tech have ranked No.1 in market share for consecutive years

After years of accumulation of production practices, nine independently developed core technologies have gradually been formed, covering the fields of intelligent sensing, virtual simulation, cold and hot chain storage and transportation, special medium storage and transportation, structural light-weighting, automated manufacturing, precision manufacturing, precision molding, mechanical testing and characterization technology.

The company works with Swiss IoT company SAVVY by using smart hardware, IoT, big data and other intelligent technologies and tools to achieve real-time control of tank status, product quality control and traceability within the tank, dedicated to build a smart IoT in the field of chemical logistics, enabling safer and more efficient chemical logistics operations.

Continuing to lay out the after-sales service network for tank containers and has been providing after-sales services such as cleaning, refurbishment, modification, repair and inspection of tank containers to customers in areas such as the Netherlands and Jiaxing City, Zhejiang Province to meet the growing demand for after-sales service equipped for tank containers.

Emerging industries such as domestic new energy and semiconductors are new drivers

Emerging industries such as domestic new energy and semiconductors are becoming new drivers for the growth of tank containers. Driven by the demand for new material and new energy industries such as chips, LED electronics, optical fiber substrates, lithium batteries, nuclear-grade sodium, and other hazardous chemicals, the demand for high-end special tank products in these segments has grown rapidly. CIMC Enric has established solid cooperative relations with battery manufacturers, electronic chemical manufacturers, and lining processing manufacturers.

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Strengths of Electrolyte Tank Container

The electrolyte refrigeration system designed and manufactured by the Company has achieved a 20% increase in energy efficiency through industry-academia-research cooperation. It is also the only tank manufacturer with independent intellectual property rights for refrigeration systems. The electrolyte tank container is equipped with specific cleaning system, which can be automatically cleaned after each transportation to ensure the quality of the electrolyte.

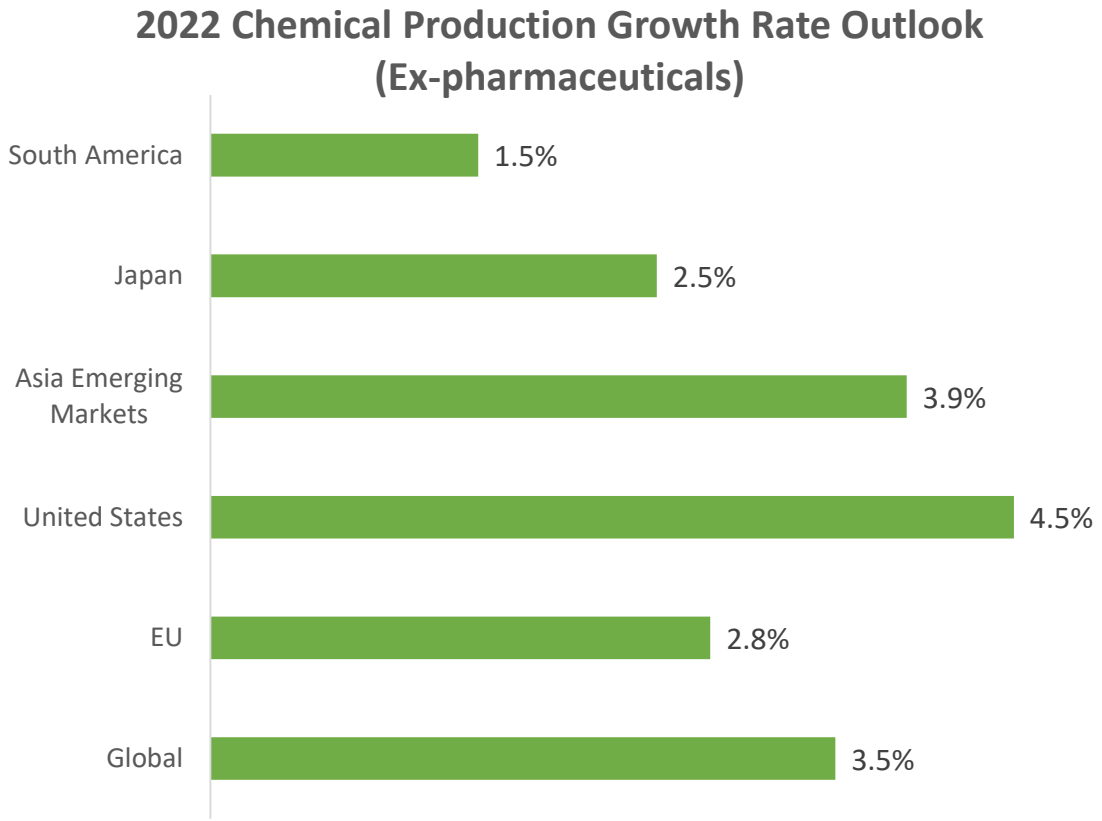
02

Strengths of Semiconductor Tank Container

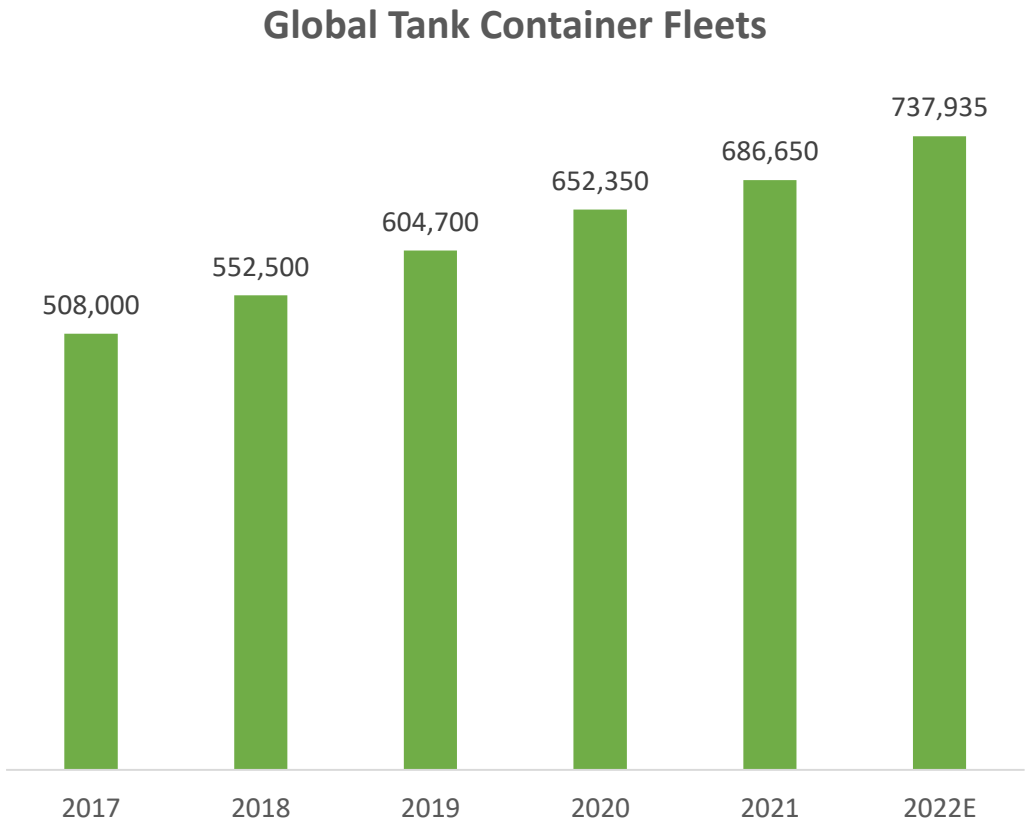
CIMC Enric has cooperated with SUN FLUORO SYSTEM, a world-renowned lining processing manufacturer, to provide storage and transportation equipment for high-purity semiconductor etching chemicals for the semiconductor manufacturing industry.

Chemical Tank Container Market Continues to Expand

BASF expects global chemical production (excluding pharmaceuticals) to grow by 3.5% in 2022 and to end this year at nearly 10% above 2019 level. According to the International Tank Container Organization (ITCO), global tank container fleets grew at a CAGR of 10.08% from 2011 to 2021. Assuming a future retention growth rate of no less than 10%, the average annual market demand for the future exceeds 73,000 units.



Data source: BASF Annual Report 2021



Data source: ITCO 2022 GLOBAL TANK CONTAINER FLEET SURVEY

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Some Customers of Chemical Tank Containers

Leasing companies

Operators

End-users & others

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Liquid Food

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

Owned Renowned Brands in Global Market

World-renowned brands in the field of liquid food equipment

Ziemann is a world-class EPC project supplier for the design and manufacture of brewery systems with over 160 years' history

DME is the North American leader in craft beer engineering and equipment manufacturing

Briggs is a British distillation equipment engineering supplier with 276 years' history

Holvrieka is the leading supplier of dedicated storage tanks in Europe

Established in 1867, McMillan is a major supplier of copper distillation and fermentation equipment in the UK.

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.

Expand Multi-Category Liquid Food Turnkey Capabilities

10.34% CAGR 2022-2025

In 2022, revenues from the beer segment are expected to reach USD 563.9 billion, (2022-2025 CAGR: 10.34%). Most of the revenue growth will generate from China.

With escalating consumption, China's craft beer consumption is expected to reach 2.6 billion litres by 2025 with a penetration rate of 6.7% (currently 2.2%) and the craft beer retail market size will reach RMB104 billion, with a five-year CAGR of 26%

Beer

9.18% CAGR 2022-2025

By 2022, the whiskey market will reach USD81.21 billion. Compounded growth of 9.18% from 2022 to 2025.

Tequila is estimated to be worth USD15.57 billion in 2029, with a compounded growth rate of 5.89% over the period.

Spirits

RMB 100 billion market opportunity

Grasping the wave of baijiu mechanization and intelligent equipment upgrade, the overall baijiu equipment market investment scale is expect to reach RMB 114.2 billion by 2025. Successfully obtained the Shanghai Guijiu baijiu technical reform project in 1H 2022

Baijiu

Consumer upgrade drives growth

Consumption increase drives development of highly concentrated juice drinks, and cold chain logistics lays the foundation for the development of the juice industry. In 2022, the market size of China's juice beverage industry will reach RMB 137.58 billion

Juice

Diversified Layout

Cultivating multi-catgeobry turnkey engineering capbilities and expanding non-beer businesses such as hard seltzer, diary products and pharamceuticals

Others

Expand business opportunities in non-beer business, develope new products and actively seek new opportunities to improve multi-category turnkey engineering capabilities

Data Source：Statista、Fortune Business Insights

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Industrial Beer Solutions

Processing equipment

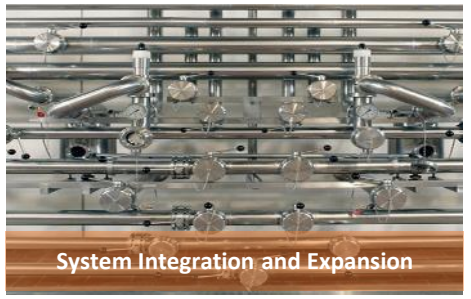
- Brewing house (grinding, filtering, boiling, processing)
- Workshop built-in tank
- Off-site tank
- Integrated equipment (providing an interface for subsequent increase in production capacity)
- Automated production software and hardware

Turn-key Project

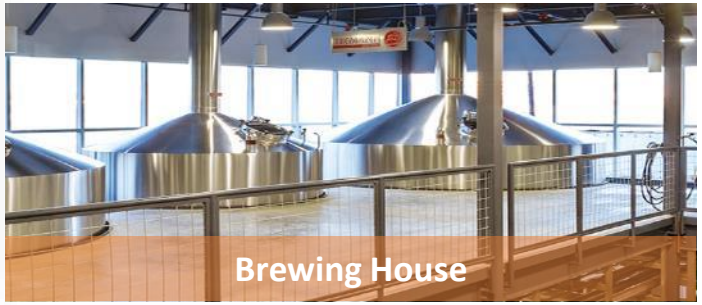
- Advisory
- Design
- Pilot test (adjust the taste)
- Beer recipe development
- Energy management for plants
- Training

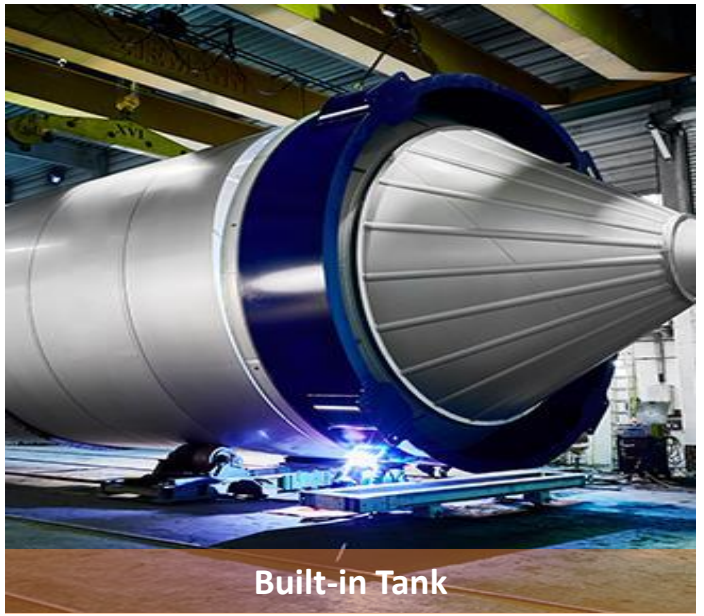

Off-site Tank


Off-site Tank


System Integration and Expansion


Turn-key Project


Brewing House


Built-in Tank

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Some Customers from Industrial Beer Sector

Craft Beer Solutions

Small-sized solutions（DME） 01

Mid-to-large-sized solutions（NSI） 02

Customers from Craft Beer Sector

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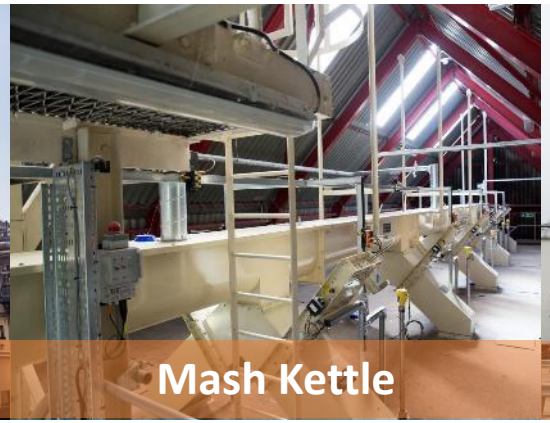
Liquor Distilling Solutions


Grain sorting


Mash Kettle


Residual processing


Grind & Filtration


Fermentation


Distiller


Liquor processing


Energy management

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Customers from Distilling Sector

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Pharmaceutical Projects

Major pharmaceutical projects

Client	Equipment related	Type of the project
NHU （Zhejiang）	Fermentation tank Saccharification tank Supplementary feedstock tank Water supplementary tank Acid tank	Vitamin production line
Huadong Medicine （Hanzhou）	Fermentation tank Supplementary tank	Winterworm summerherb Oral liquid
NHU （Heilongjiang）	Fermentation tank Saccharification tank Stainless storage tank	Vitamin production line
Roche （Su zhou）	Oil-based products tank water-soluble products tank Water tank	RTD Reagent

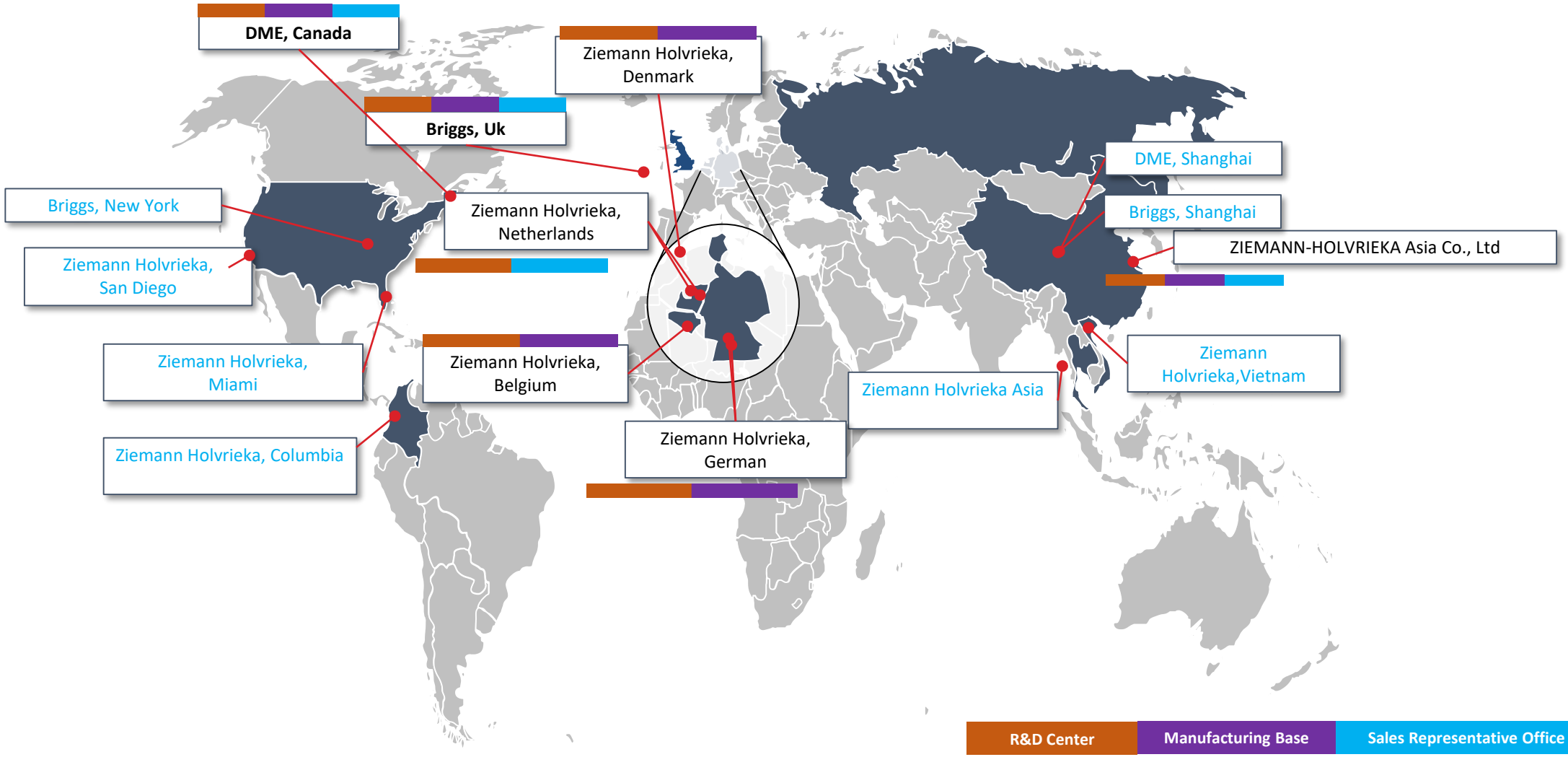
Major clients (Pharmaceutical)

华东医药 HUADONG MEDICINE

NHU 新和成®

Roche

Global Business Layout



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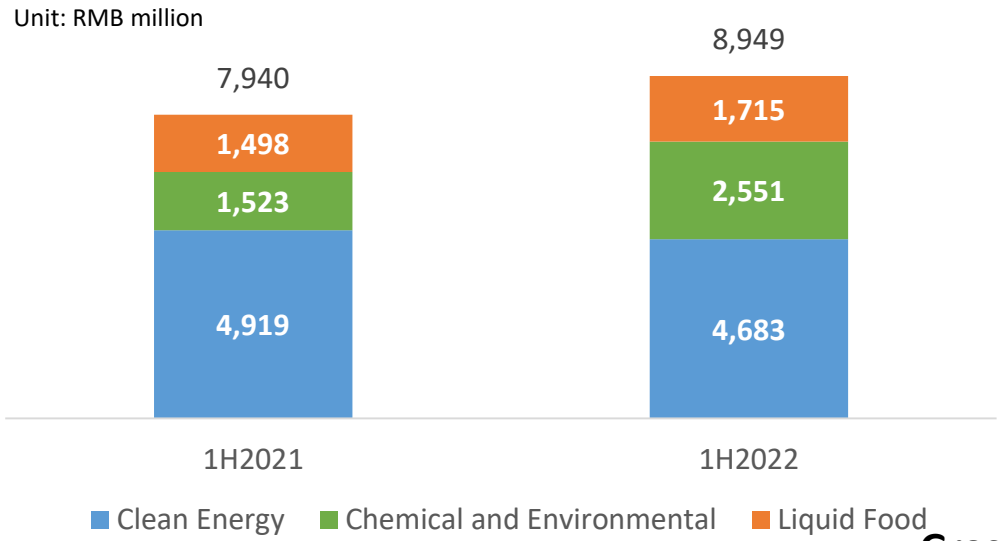
03

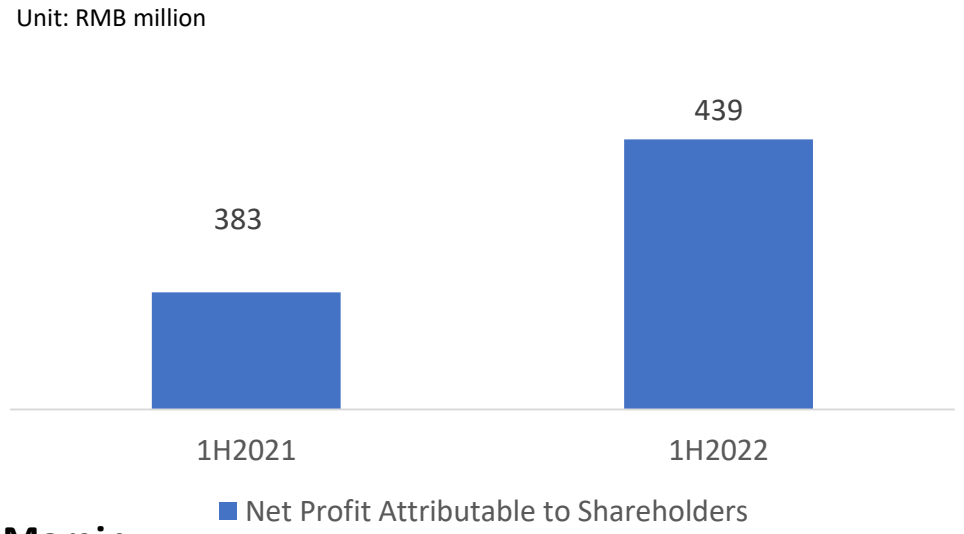
Financial Summary

Steady Growth in Total Revenue

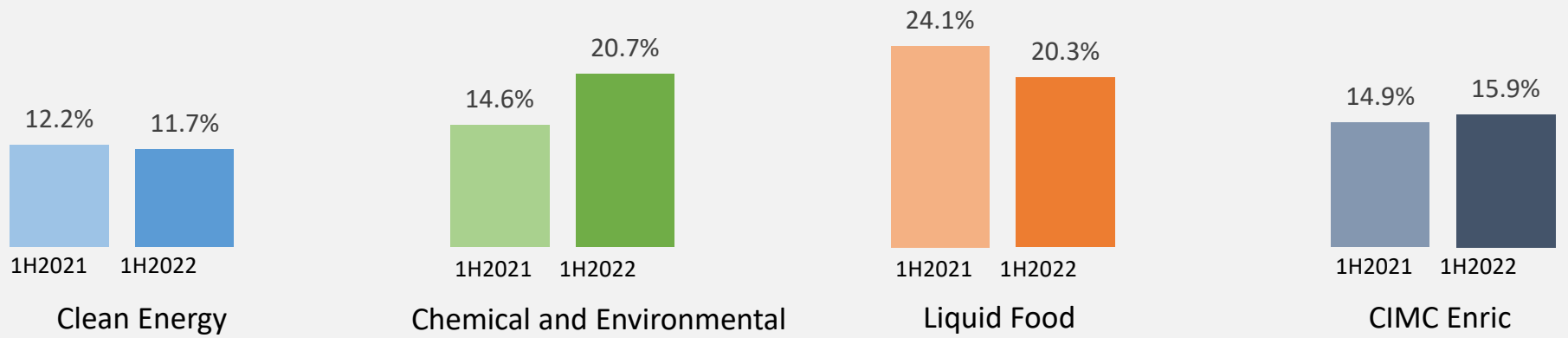
Revenue increased by 12.7% YoY



Net Profit Attributable to Shareholders up 14.6% YoY



Gross Profit Margin



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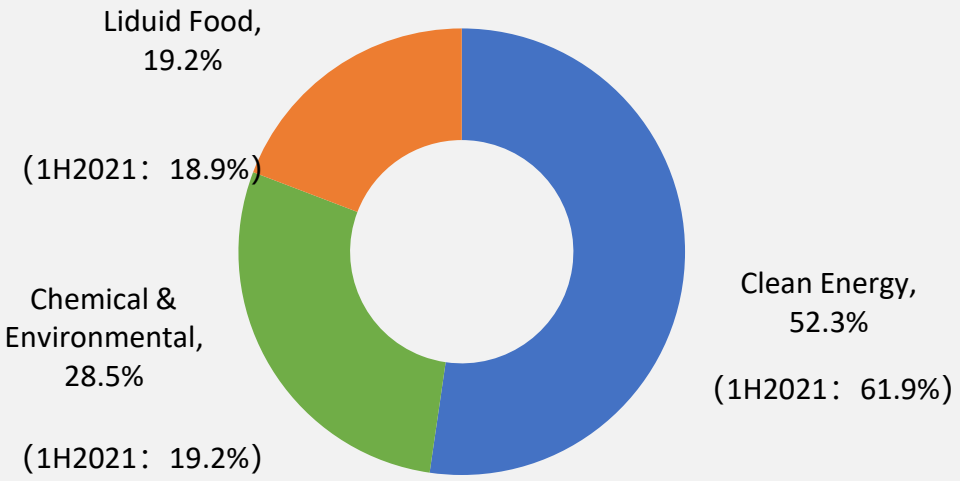
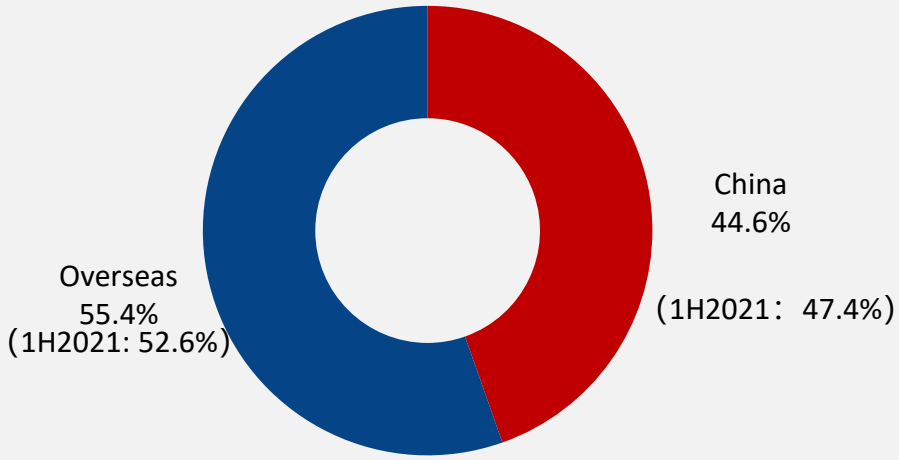
Revenue Breakdown

Revenue Breakdown by Segment



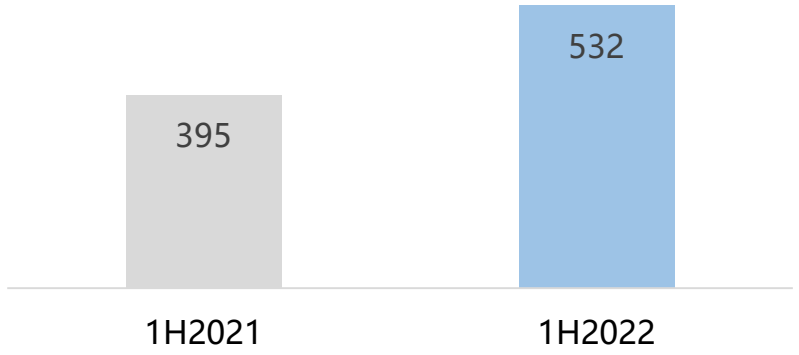
Revenue Breakdown by Geographic Location



Substantial Growth in Core Profit and ROE

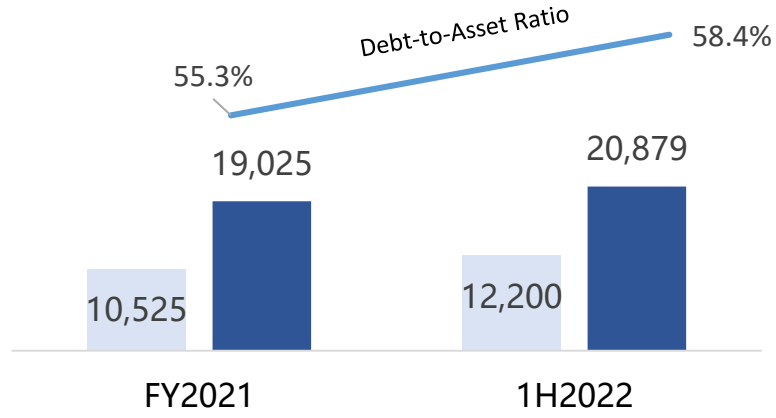
Core Profit Increased by 34.5% YoY

Unit: RMB million



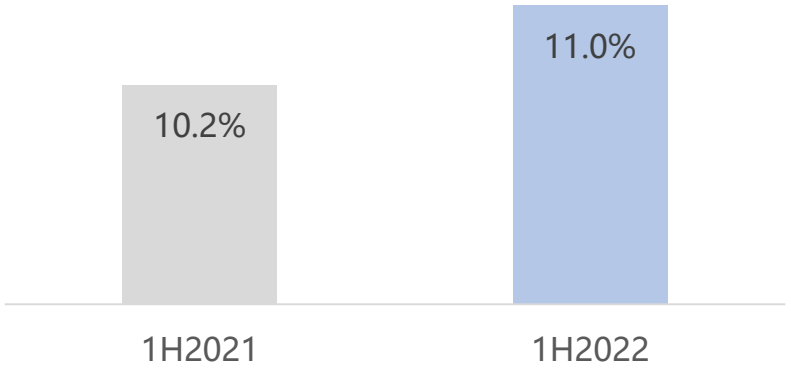
Robust Asset-liability Structure

Unit: RMB million



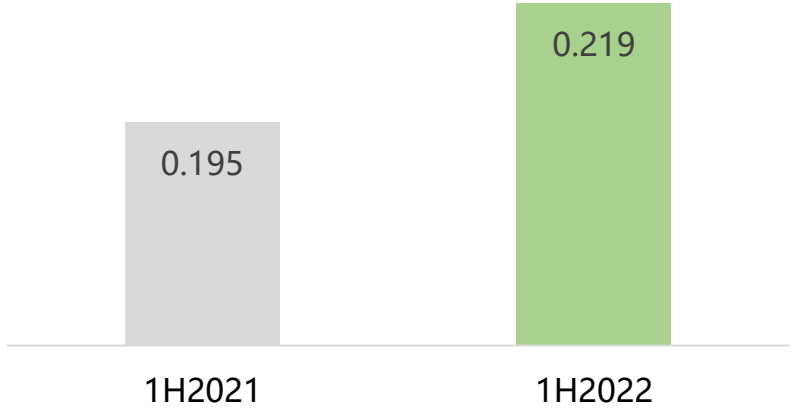
Annulised Return on Equity （ROE）

Unit: %



Basic Earnings per Share Increased by 12.3% YoY

Unit: RMB



- Net profit attributable to shareholders grew steadily YoY in the 1H2022, with a substantial improvement in core profit and an increase in ROE YoY.
- Core profit: Profit for the six months ended 30 June, excluding amortisation of share base incentive scheme expense and convertible bonds related finance expenses.

Vision

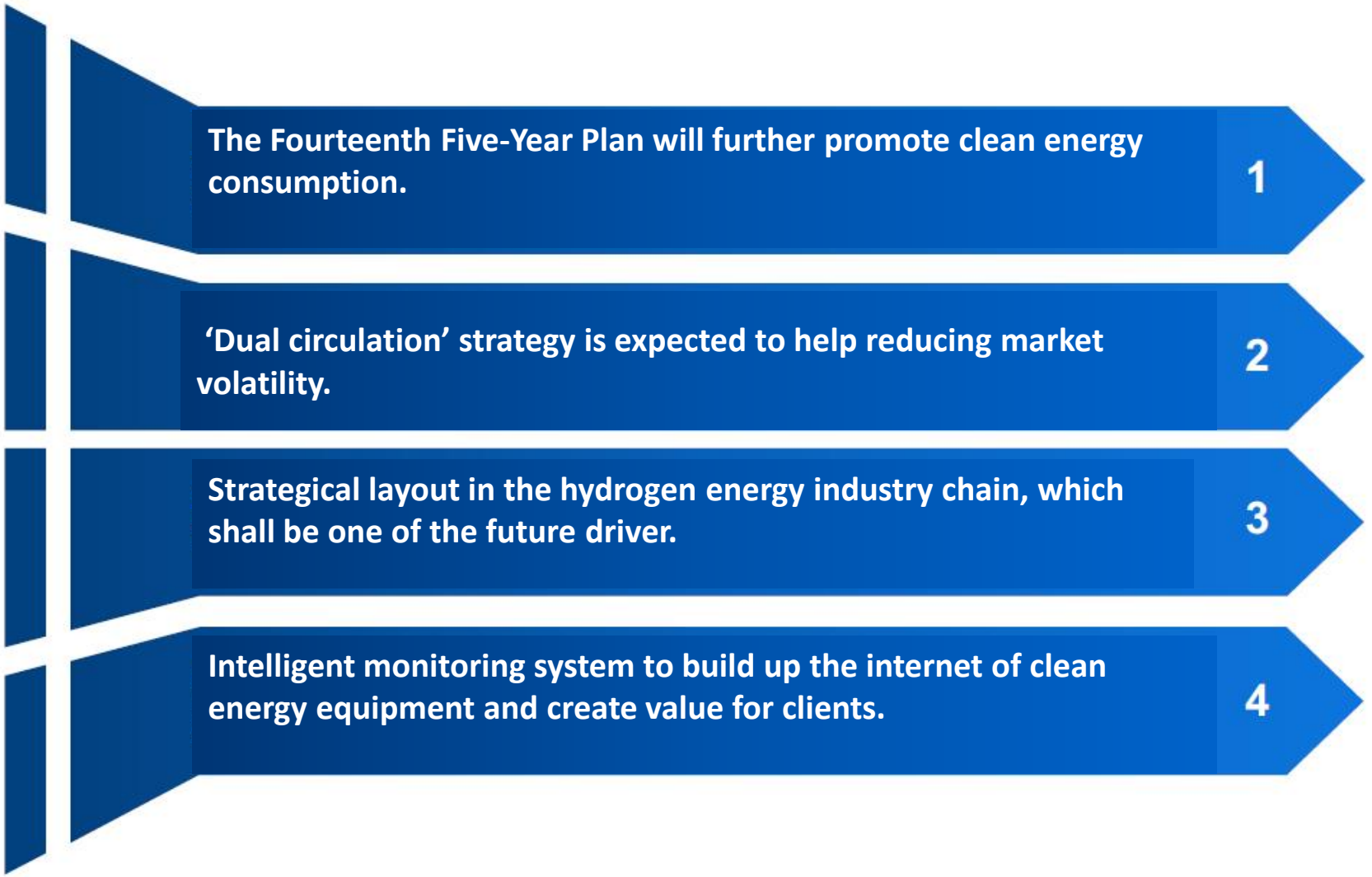
To be a respected world-leading enterprise in

Clean energy, chemical and environmental, and liquid food industries.

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.

Mission

Industry Outlook



Appendix - Company Milestones

2004-2006
- CIMC Enric was established in 2004 and became one of the leading specialised gas equipment manufacturers and an integrated business solutions provider in the gas energy industry in China. The company was listed on the GEM board in 2005 and transferred to the main board since 2006 (stock code: 3899.HK).

2007
- **CIMC Group acquired Enric Energy Equipment Holdings (HK 3899) Ltd officially.**

2008
- Acquired 80% equity of Jingmen Hongtu Special Aircraft Manufacturing Co., Ltd and **entered into the realm of CNG, LNG and LPG storage and transportation equipment.**

2009
- The company completed the restructuring and renamed as "CIMC Enric Holdings Limited."
- Involved in the beer fermentation tank business of Holvrieka and started its own business of large-scale storage tanks in Nantong. **The liquid Food segment begins to take shape.**

2011
- Acquired Nanjing Yangzi Petrochemical Design Engineering Company Ltd, developing **capabilities in the realm of energy and chemical storage and engineering.**

2012
- Acquired Germany-based Ziemann Group to **promote its competitiveness in the liquid food equipment business.**
- Entered the nuclear fuel storage and transportation equipment industry.

2013
- CIMC Enric Holdings Limited was included in Hang Seng Index Constituent Stocks.
- Produced **First LNG Railway Tank Container of China**, filling the gap of LNG railway transport in China and hitting a new record of world plateau railway transportation.

2014-2015
- Acquired Sichuan Jinke Cryogenic Engineering Co., Ltd. and Liaoning Hashenleng Gas Liquefaction Plant Co., Ltd., entering in the field of natural gas liquefaction.
- **Bought out Dutch BURG SERVICE B.V., expanding tank container business into European markets.**

2016
- Acquired UK's renowned Briggs Group Ltd., diversify into liquid food processing equipment for **brewing, distilling, pharmaceutical, yeast and bio-fuel industries.**

2017
- Took over Sinopacific Offshore Engineering and complement company's existing businesses with **marine and onshore natural gas equipment and engineering capabilities.**
- Introduced **Anjiehui IoT platform**, adding value to clients.

Company Milestones

2018

- Authorized by Extraordinary General Meeting of Shareholders, the company implemented its **first restricted share award scheme in the company's history.**

2019

- Acquired Canadian brewing machine maker Diversified Metal Engineering in a bid to expand presence in North America, achieving company's ambition of **becoming a world-leading equipment and engineering service provider in the craft beer business.**
- The production and sales volume of tank containers has been ranked first in the world for 16 consecutive years. CIMC Enric has delivered more than 250,000 units of tank containers to the market.

2020

- Acquired Scottish copper distilled equipment manufacturer **McMillan (Coppersmiths & Fabricators) Ltd.,** which strengthens company's distilling portfolio and will help **winning more turnkey projects in the distilled spirits industry.**
- Acquired Lindenau Full Tank Service GmbH, further strengthening CIMC ENRIC's presence in Europe, and it will **provide and reinforce timely and efficient for CIMC ENRIC's network and after-sales-service capabilities**, particularly in the field of energy & chemical logistic Equipment.

2021

- The spin-off and separate listing of the Group's subsidiary CIMC Safeway Technologies Co., Ltd. on the ChiNext Market was accepted by the Shenzhen Stock Exchange.Set up twos joint ventures for on-board hydrogen cylinders and supply systems with Hexagon Purus; set up a joint venture with Angang Steel to produce LNG and joint production of hydrogen from coke-oven gas; corporate with Dalian Institute of Chemical Physics and Panasonic to promote different hydrogen demonstration projects.Successfully issued zero coupon convertible bonds worth HK$1.68 billion.

Appendix：Milestones of Liquid Food Business

2009

Asset Injection to HOLVRIEKA

Founded in 1947, Holvrieka is the leader in the R&D, manufacturing and installation of stainless steel tanks.

2012

Acquired ZIEMANN

ZIEMANN, a German brand with 160 years of history, is the leading supplier of global brewery turnkey engineering and saccharification transformation technology. It has set many top records in the beer brewing area around the world.

2016

Acquired BRIGGS

Briggs, with 280 years of history, mainly operates in the engineering design and manufacturing of the distillation system equipment for Scotch whisky and other spirits. The acquisition enables the division expanding from the leading beer brewing to spirits distillation and biomedicine.

2019

Acquired DME

DME is a leader in craft beer engineering design and equipment manufacturing in North America. It has accumulated strong technical capital in craft beer, distillation, fermentation and pharmaceutical industries.

2020

Acquired McMillan

McMillan has been a significant force in UK and worldwide supply of copper distilling and stainless steel process equipment since 1867. The acquisition enables the liquid food segment to fully cover the supply chain of distilled spirits equipment.

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Thank You

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