

CIMC 中集

ENRIC / 中集安瑞科

中集安瑞科控股有限公司

CIMC Enric Holdings Limited

(Stock code: 3899.HK)

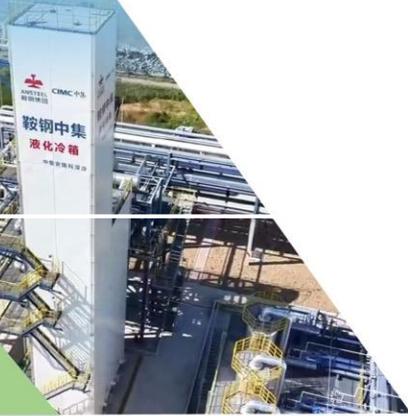
2026 公司介绍

Company Introduction

English

鯨魚圈·
焦爐氣制氫制LNG
H2 & LNG Production Project

01

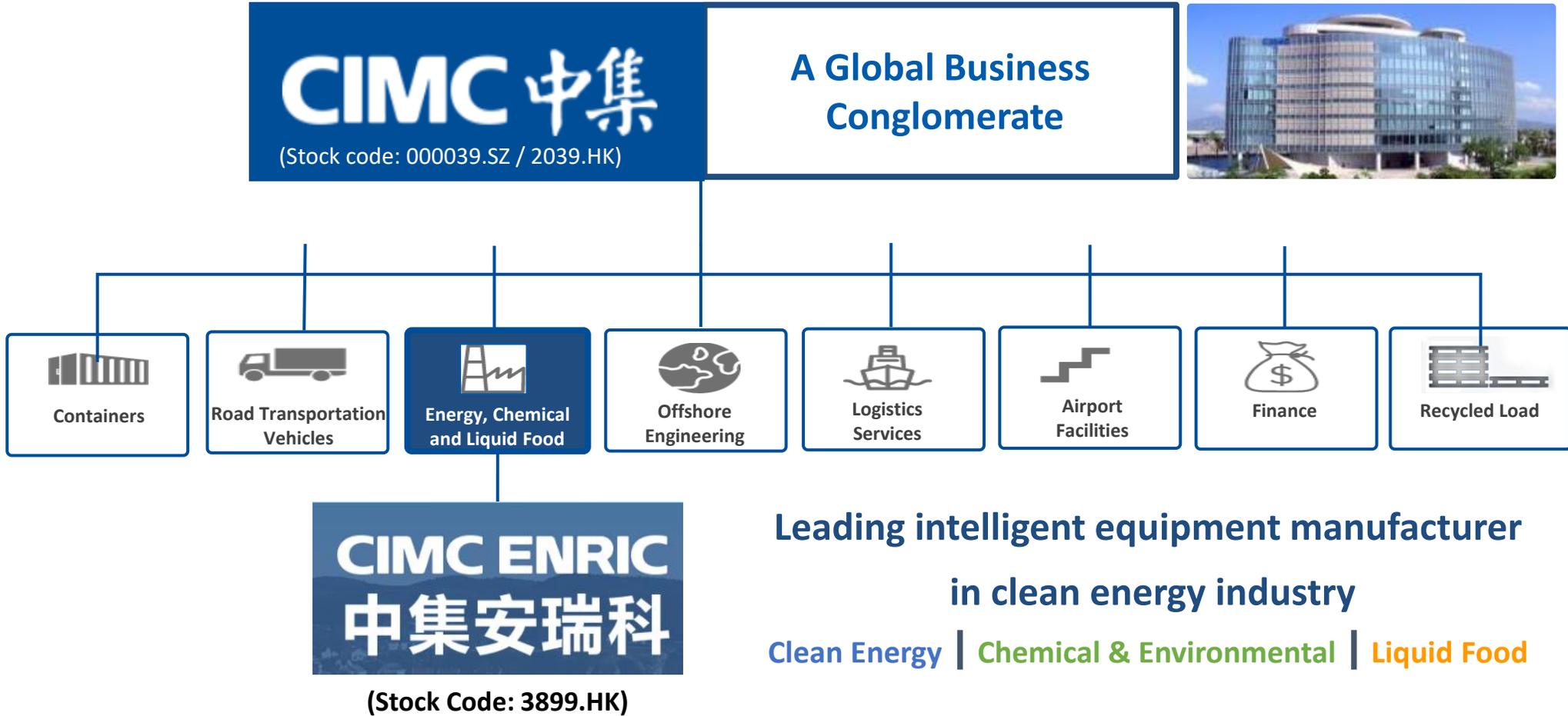


湛江·綠色甲醇
Green Methanol Project



Contents

1. About Us
2. Core Business
3. Financial Highlights
4. Outlook



Global Market Expansion with Roots in China



20+ domestic and foreign member companies, 10+ overseas representative offices, 22 R&D centers at home and abroad.



CIMC Enric recorded revenue of RMB **24.76 Billion** in 2024

Global Market Leader in

- ISO liquid tank container (No. 1)
- Brewery turnkey project (global leader)
- LNG Transport and Bunkering Vessel (No. 1)

China's Market Leader in

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



Clean Energy

17.18B (69.4%)



Chemical & Environmental

3.12B (12.6%)

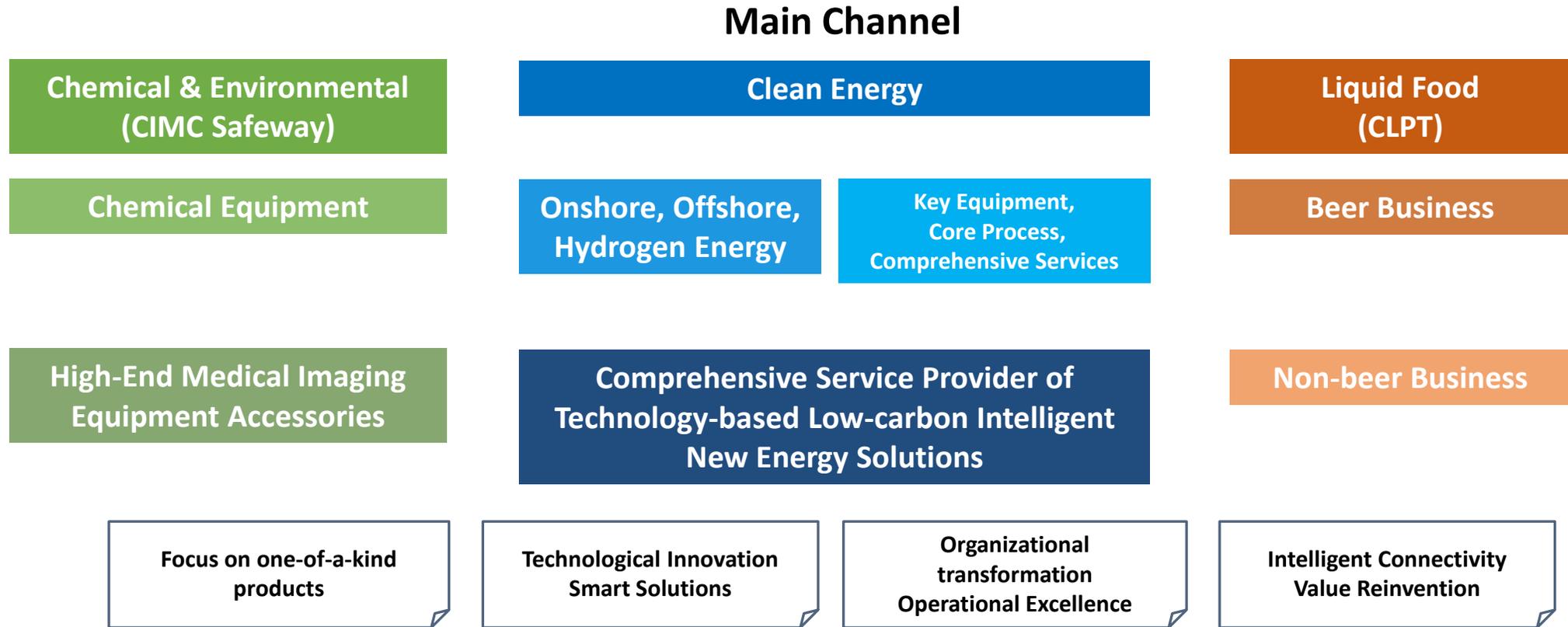


Liquid Food

4.45B (18.0%)

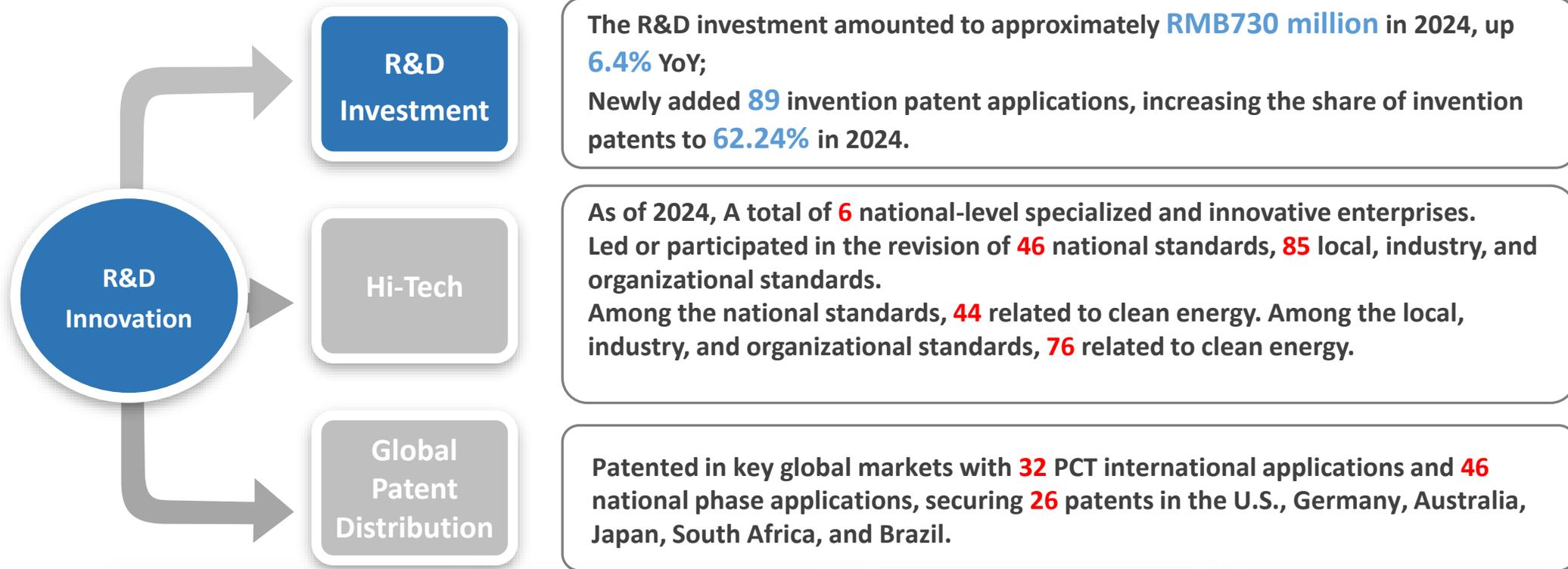


Adhere to Main Channel, Develop New Areas, Build Leading Integrated Services



Cleaner energy. A more sustainable planet. A better life.

Continuous R&D and Technological Innovation



High-quality development	International Patent	Domestic Patent	Standard Development
<p>6 subsidiaries were selected as China's national-level specialized, high-end and innovation-driven "Little Giant" enterprise</p>	<p>32 PCT international patent filings 46 global patent applications 26 granted patents</p>	<p>1,500+ domestic granted patents Over 330 invention patents</p>	<p>Led or participated in the revision and formulation of 46 national standards 85 local, industry, and organizational standards</p>

Sustainable Development Strategy

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

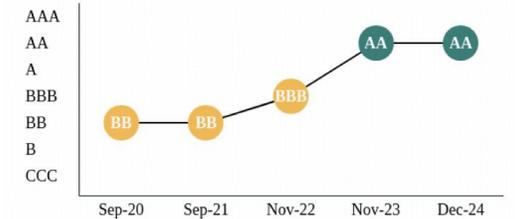


ESG Rating

MSCI ESG rating has been maintained

AA

ESG Rating history



ESG Rating history shows five most recent rating actions

Wind Rating: A

Industry Rank: 1/41 (Energy Equipment & Services)

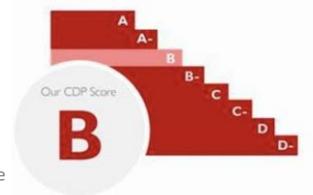
Wind ESG
中集安瑞科
2024评级



CDP Rating: B (Climate Change)

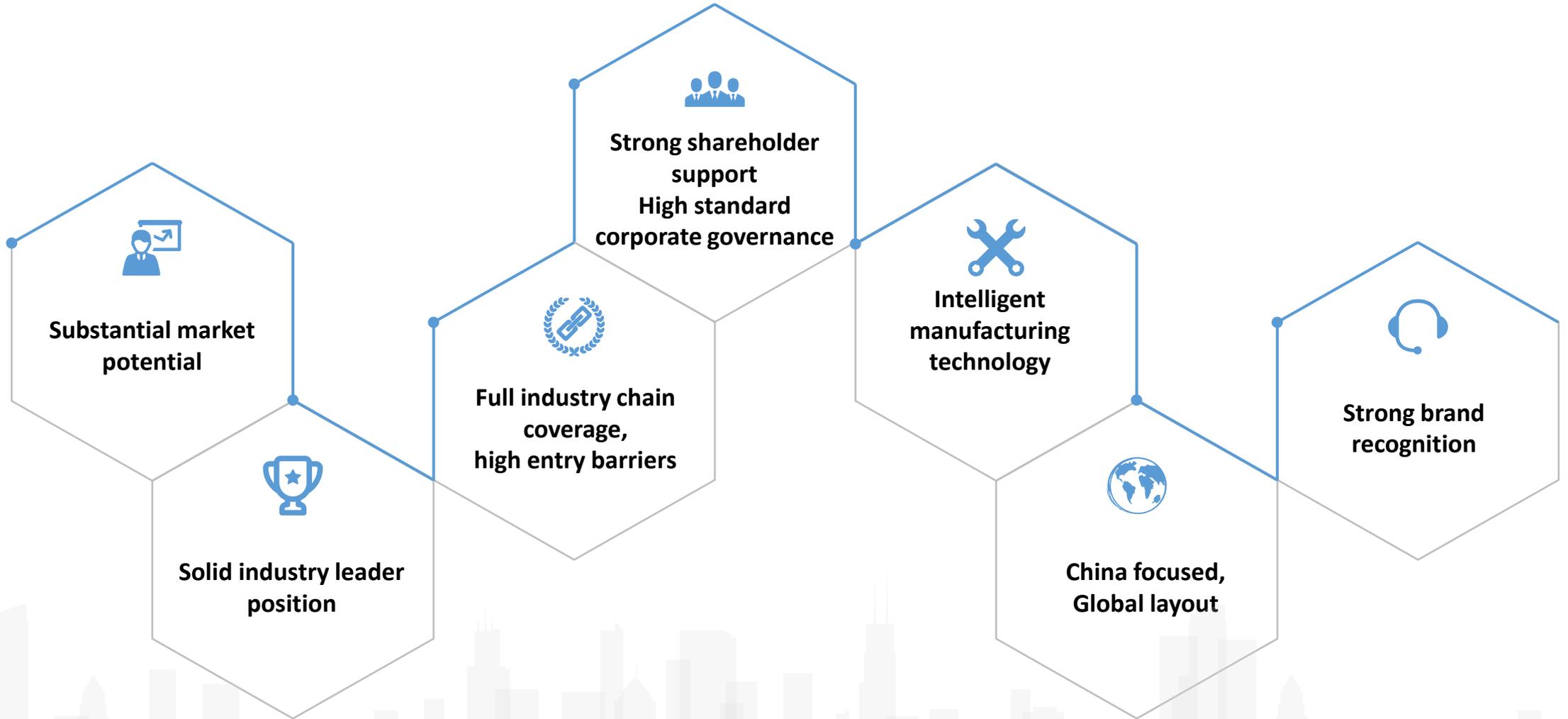
First participation, and leading position in the domestic market

CDP questionnaire not publicly available; B is the highest score obtainable. Approximately 4 chinese enterprises with scores above B found through public channels



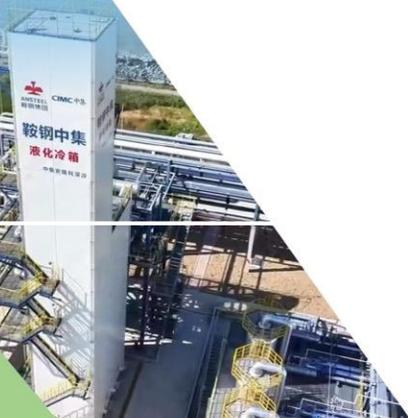


Core Competitive Edges



鯊魚圈·
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Clean Energy Business



“Key Equipment + Core Process + Intelligent Interconnection→ Integrated Service”, Building A New Growth Pole For Performance

Providing Integrated Intelligent Solutions for Driving Clean Energy Transformation of Traditional Industries

Intelligent Interconnection



Liquid hydrogen tank container

Key Equipment

Relying on the champion product matrix of Cryogenic, medium-pressure, high-pressure trailers, and LNG tank containers, achieved high gross profit and rapid delivery



Hydrogen-Ammonia-Methanol production & Processing Turnkey Projects

Core Process

Possessing delivery capacity of large scale projects such as liquefied gas carriers, large cryogenic tanks, storage tanks and spherical tanks, with significant income scale and excellent ROE performance



COG to LNG & Blue Hydrogen Turnkey Project

Integrated Service

Relying on the advantages of equipment and processes, transforming to a technology-driven low carbon energy Integrated Service provider , achieving a stable profit model with high cash flow, high marginal contribution and high net profit margin

Intelligent Hardware

Intelligent Platform

Intelligent Scenarios

Product Focused——Clean Energy Champion Product Map

Key Equipment

Encompasses natural gas, hydrogen-ammonia-methanol production, storage, transport and application equipment



LNG cryogenic storage tank



LNG tank carrier



LPG carrier



LNG tank container



Industrial gas tank carrier



Industrial gas tank container



LNG on-vehicle cylinder



Cryogenic Valve



Methanol skid-mounted H₂ production equipment



Stationary H₂ storage vessel



Liquid H₂ tank container



Liquid ammonia carrier



Liquid H₂ tank carrier



H₂ tube bundle trailer (20MPa, 30MPa)



Type III on-vehicle H₂ cylinder and H₂ supply system



Mass Flow Meter Sensor

Core Process

Offshore——Small and medium-sized liquefied offshore gas carriers



Small and mid-sized liquefied offshore gas carriers such as LNG/LEG/liquid ammonia and clean-energy powered vessels such as LNG vessel



LNG bunkering vessel

Onshore——Comprehensive utilisation of COG, large spherical tanks, refuelling stations etc.



COG to LNG, H₂-ammonia-methanol turnkey projects



Industrial gas cryogenic tank



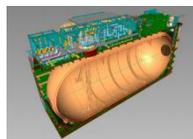
Integrated refuelling station



ABC type LNG liquid cargo tank



Fuel tanks



Gas supply and liquid cargo systems



Offshore oil & gas processing modules



H₂ spherical tank



Skid-mounted H₂ refuelling station

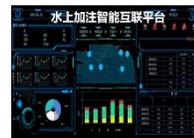


Spherical tanks

Intelligent Interconnection



Intelligent hardware such as Intelligent mass flow meter, capacitance meters, gas supply systems



"End-to-end" Intelligent Platform



Integrated Service

including businesses such as wellhead gas liquefaction and LNG trading

Green Methanol Demonstration Project



COG to LNG /H₂/Liquid Ammonia Projects (Anji and Linggang steel Projects, etc.)



In 2024, Delivered **14** vessels, with new orders for shipbuilding and offshore fuel tanks exceeding **RMB10 billion**



Booming Shipbuilding Orders

- Signed a total of 21 new shipbuilding orders in 2024;
- Secured orders for 11 LNG carrier and bunkering vessels from overseas shipowners like Avenir, leading the global market share.



Enhanced Ship Delivery Capacity

- 14 vessels delivered in 2024, including “Offshore Oil 302 built for CNOOC”, the first river-to-sea LNG carrier and bunkering vessel in China.
- The first 40,000m³ MGC vessel has successfully commenced construction.



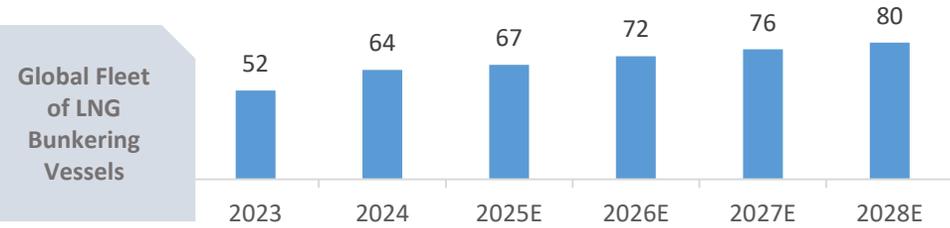
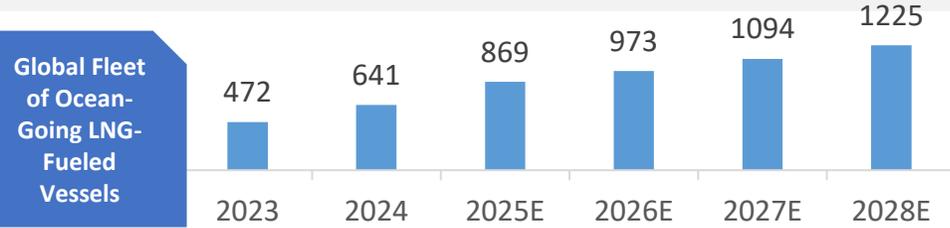
Marine Fuel Tanks Leading the Industry

- Delivered China's first set of high manganese steel LNG marine fuel tanks in china, the world's first vertical LNG double-ear marine fuel tank, and the world's first stacked LNG double-ear marine fuel tank;
- Successfully received orders for liquid ammonia marine fuel tanks for the world's first liquid ammonia-powered bulk carrier.

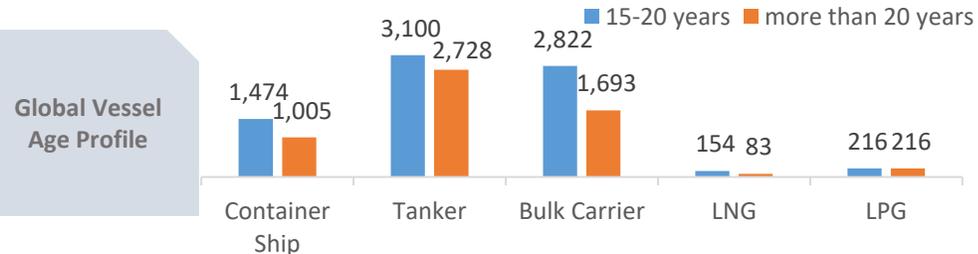
LNG Bunkering Vessel Market and Marine Fuel Tanks

LNG Alternative Fuel and Bunkering Vessel Market Remains Highly Active

- In April 2025, the International Maritime Organization (IMO) released the IMO Net Zero Framework, which targets net-zero emissions for global shipping by 2050. Once it enters into force in 2027, it will become mandatory for ocean-going vessels with gross tonnage over 5,000 (covering ~85% of global maritime CO₂ emissions).
- LNG is expected to remain the most economically viable alternative fuel before 2035.



Source: DNV Alternative Fuels Insight (AFI), 2025

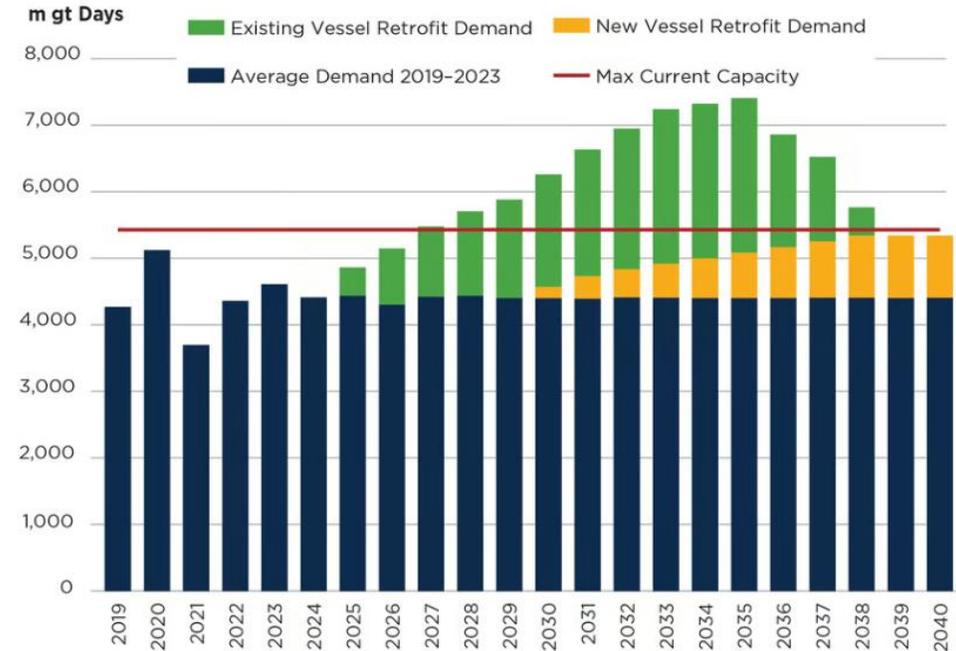


Source: Public data, as of end-2024

Rapid Growth in Marine Oil-to-Gas Vessel Conversion Market

- According to Clarkson, by 2026, ~46% of the existing global fleet of tankers, containerships and bulk carriers will fall into CII Grade D or below. Vessels rated E, or D for three consecutive years, will be required to include corrective actions in their Ship Energy Efficiency Management Plan (SEEMP).
- Lloyd's Register estimates that around 13,500 existing vessels worldwide will undergo conversion to alternative fuels. However, current annual retrofit capacity is limited to 465 vessels, significantly below the 1,000 vessels per year required to meet peak demand.

Future Outlook for Marine Oil-to-Gas Conversion Market



Source: ABS website

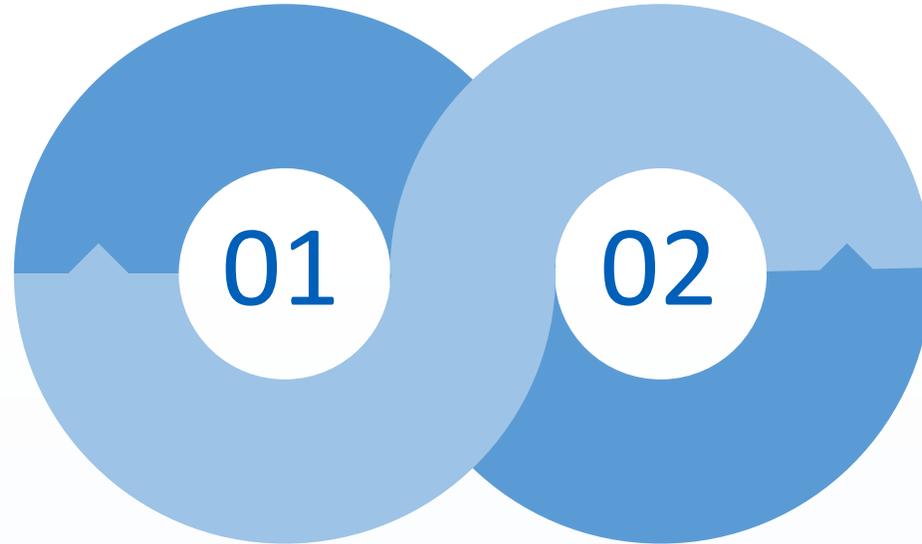


Core Process — Enhanced the Production of Hydrogen, Ammonia, and Methanol Significantly

Absorbed the core team of Beijing Zhongliansheng Strengthen engineering and process package design capabilities in new energy production

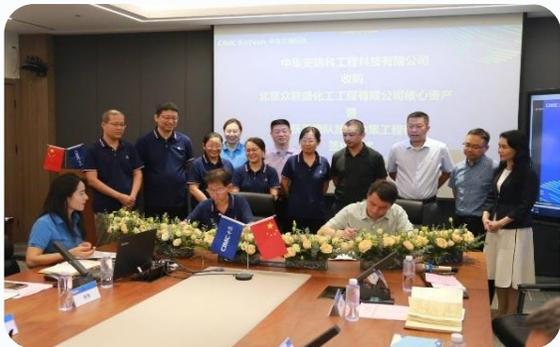
Enhanced Process Design Capabilities

- Enhancing the process design and technical capabilities for comprehensive utilisation of coke oven gas in the production of hydrogen (H₂), LNG, methanol, synthetic ammonia, etc. This strengthening of technical expertise strong support for business expansion.



Laid Foundation for Project Expansion

- With established EPC capabilities for green methanol, SAF, H₂ from coke oven gas, and LNG projects processes, multiple projects are currently under development, laying a solid foundation for new project expansion and driving continuous business growth. Technical accumulation helps the company to explore new markets and boosts comprehensive service capabilities.





Core Process—Smooth Completion & Delivery of the First COG to LNG, Blue H₂, Blue Ammonia Turnkey Project

Completed and delivered the Linggang Steel COG Comprehensive Utilisation Project

Possessing process design & solutions for methanation, cryogenic, and synthesis of series products such as blue ammonia and methanol

10-month construction cycle set a new industry record



Design processing capacity of COG: 65,000Nm³/h

Finished product capacity:
147,000 tons of LNG
20,000 tons of H₂
(60,000 tons blue ammonia)

①

Purification and Methanation Process

- Jingmen Hongtu equipment
- CIMC Blue Water Comprehensive Meter (Temperature, pressure)

②

Cryogenic Separation Process

- CIMC Shenleng – Cryogenic Equipment and Process Design Package
- Enric (Bengbu) – BOG Compressor

③

Ammonia Synthesis Process

- Enric (Bengbu) – Nitrogen Compressor

④

Storage, Transportation & Loading Process

- CIMC Sanctum – LNG storage tank
- Jingmen Hongtu – Liquid ammonia spherical tank
- Enric (Langfang) – loading and unloading skid for LNG, liquid ammonia trailers



Integrated Service — Replication of COG Utilisation Project, Driving Clean Energy Transformation of Traditional Industries

Linggang Steel project officially commenced operation, while Anji Project operated steadily

Completing the construction of integrated solution project by relying on key equipment and core process

Serving the operation of production and sales of clean energy such as LNG and H₂

Promoting an end-to-end closed loop and large-scale application of surrounding clean energy



Location: Bayuquan, Yingkou, Liaoning
Annual production: 100,000 tons of LNG and 15,000 tons of H₂



Location: Chaoyang, Liaoning
Annual production: 20,000 tons of H₂ (Includes 60,000 tons ammonia), 147,000 tons of LNG

2024.09

Anji Project

2025.07

Linggang Steel Project

- Milestones: Launched first COG to H₂-LNG project On Sep. 26, 2024, profitable in first year
- Profitability: Smooth operation, LNG sold at full capacity, investment returns grew QoQ

- Milestones: Equipment installation completed by late May 2025; trial production achieved in July; construction period took only 10 months
- Project Overview: Group's first turnkey project in COG comprehensive utilisation, with a total investment of ~RMB888 million

"End-to-End" Intelligent Platform

- Independently developed by CIMC Digital Energy Technology;
- First in China to integrate digital intelligence technology with the entire energy production, storage, transportation, sales, and application scenarios



- At the factory operation end, real-time monitoring and production optimisation ensure safety while maximizing the efficiency of green energy production
- At the customer service end, energy transmission and distribution scheduling, cost reduction and efficiency improvement, safe refuelling, and precise peak regulation help customers achieve energy saving and emission reduction



Integrated Service — 200,000 Tons of H₂ + 1 million Tons of LNG Capacity in 2027

Policy Favorability to Accelerate Replication

- On July 1, 2025, the Central Financial and Economic Affairs Commission meeting clearly mandated the "lawful regulation against low-price disorderly competition and the promotion of orderly exit of outdated capacity," setting the tone for supply-side reform in the steel industry. Green emission reduction pathways such as hydrogen metallurgy and coke oven gas utilisation are accelerating
- Liaoning Province: Construction of the Shenyang-Dalian Hydrogen Corridor; vehicles exempt from tolls, with subsidies for hydrogen refuelling stations;
- Support for hydrogen production from industrial by-product gases



Linggang Steel 2nd Phase Project

- ◆ Location: Chaoyang, Liaoning
- ◆ Annual production: 100,000 tons (LNG+hydrogen+Ammonia)
- ◆ Planned start of production: 2026



Shougang Shuigang Project

- ◆ Location: Liupanshui, Guizhou
- ◆ Annual production: 15,000 tons of hydrogen, 130,000 tons of LNG
- ◆ Planned start of production: 2026



INA Tsingshan Project

- ◆ Location: Indonesia, IMIP
- ◆ Annual production: 180,000 tons of LNG, 100,000 tons of Methanol
- ◆ Planned start of production: 2027/2028

Confirmed Projects

2 completed construction
3 under construction/planning

Potential Projects

Multiple MOUs

Integrated Service — Green Methanol has Commenced Production in Q4 2025, Unlocking Strong Application Potential

- In 2025, entered into strategic cooperation agreements with several key partners, to jointly promote the **application of green methanol**.
- In Jan 2026, We completed the Greater Bay Area's maiden green methanol bunkering.**
- Key Equipment:** possessing methanol storage tank and methanol trailer businesses, leading the market share in China.
- Core Process:** capabilities in the construction of methanol carriers and bunkering vessels, along with process-design and turnkey capabilities for green hydrogen–ammonia–methanol projects (including gasifiers etc.).
- Integrated Services:** the first green methanol project launched in Zhanjiang, Guangdong, with annual capacity of 50,000 tons for the **1st phase**, which has now entered the operating stage. The **2nd phase**, designed for 20,000 tons of annual capacity, is expected to commence production in 2027.



Zhanjiang, Guangdong, China

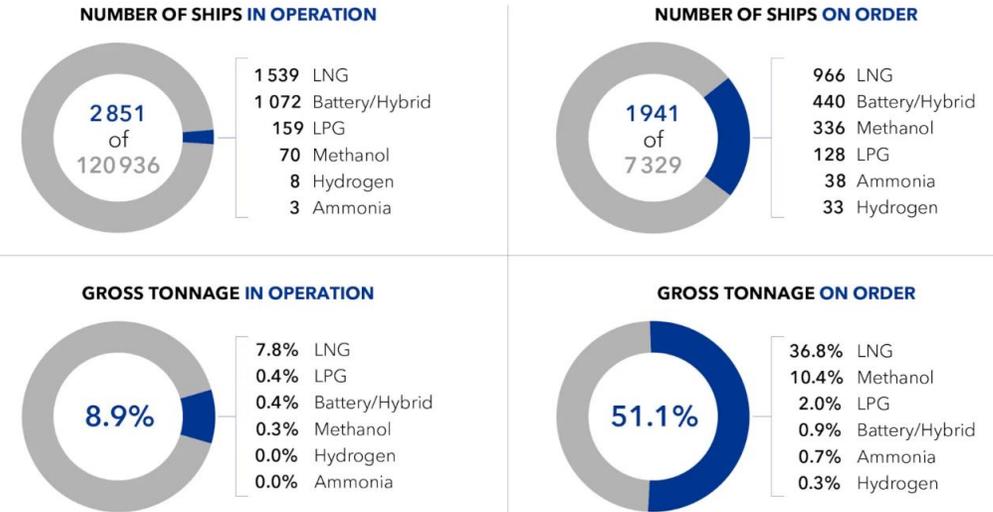
The **1st phase** of the 50,000 tons green methanol project has **commenced production in Q4 2025!**

Comparison of Four Shipping Alternative Fuels at 100 MJ

Fuel	LNG	Green Methanol	Green Ammonia	Biodiesel
Cost (RMB)	8.7	19.8	31.3	17.2
Carbon Emission (kg)	7.66	2.8	3.2	1.5
Technology Maturity	★★★★★	★★★★★	★	★★★★★

Green methanol offers notable advantages in feedstock sustainability, full-lifecycle emissions reduction, infrastructure compatibility, and long-term cost efficiency, positioning it as a high-potential mainstream alternative fuel for the future.

Alternative fuel technology uptake in the world fleet in the number of ships (upper) and gross tonnage (lower)



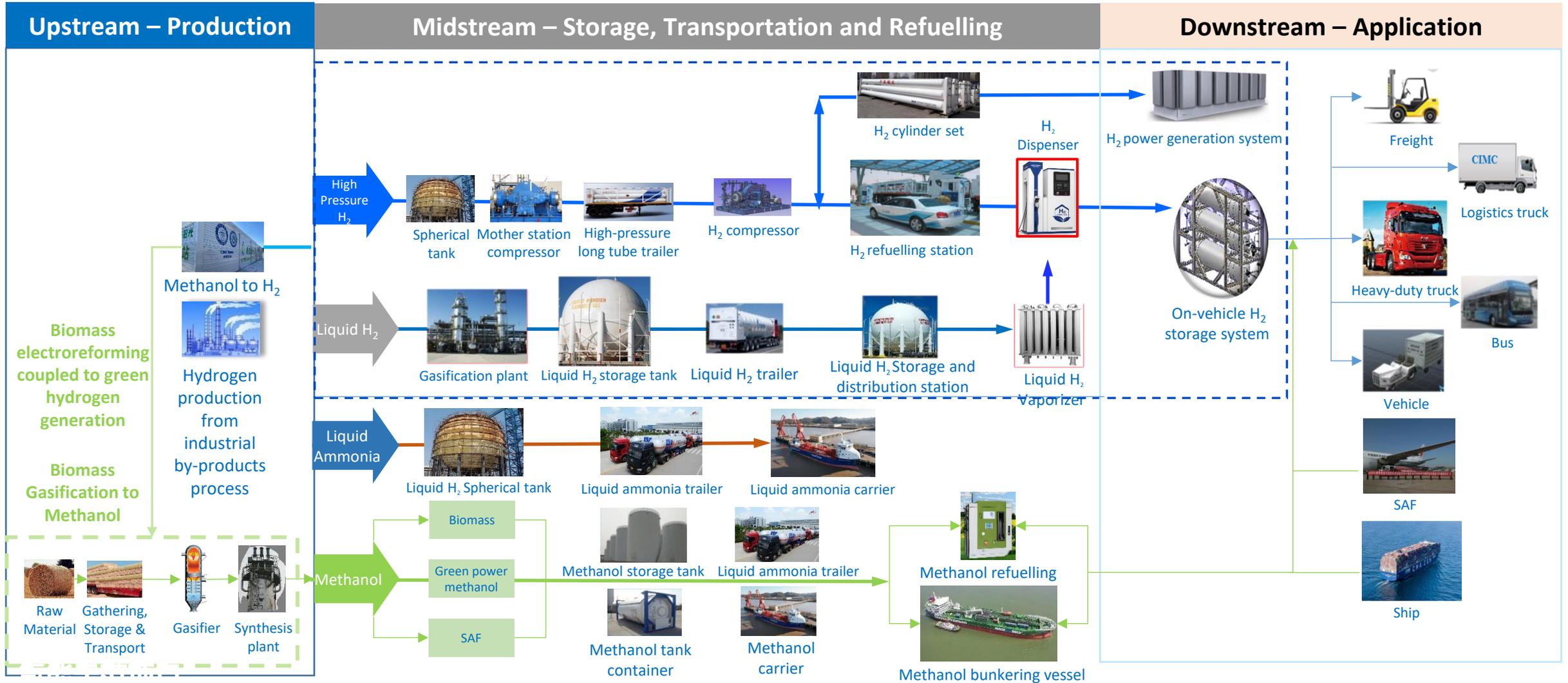
Sources: S&P Global, Alternative Fuels Insight (AFI) - afi.dnv.com, as of August 2025

©DNV - Maritime Forecast to 2050 - 2025 edition

- According to DNV data, as of the end of August 2025, **there were 70 methanol-fuelled vessels in operation globally, with backlog orders of 336 vessels**; 2026–2027 are expected to see a surge in deliveries of methanol-fuelled vessels.
- The industry estimates that in 2025, global methanol demand from operating vessels may **exceed 2 million tons per year**, and after delivery of the ordered vessels, annual demand may reach **6.93 million tons per year**.

	Green methanol capacity (10,000 tons/year)	Demand for marine green methanol (10,000 tons/year)
2025(E)	72 (Public data)	100-200 (Public data)
2030(E)	<1,000 (Source: DNV)	1,350 (Lloyd's Register, China Classification Society)

Hydrogen Energy — Business Layout Map

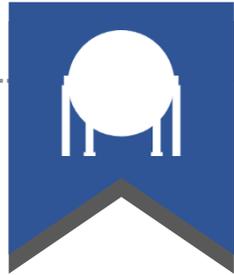




Solutions——Strengthened the Integrated Solution Capabilities for Hydrogen “Production, Storage, Transportation, Refuelling and Application”

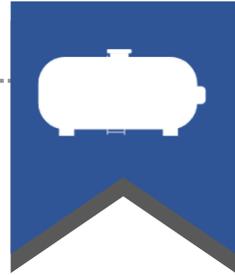
Hydrogen Full Industry Chain Layout Sets Benchmark in Storage and Transportation Sectors

The first domestic supplier to offer a full range of liquid H₂ “storage, transportation, refuelling, and utilisation” products



Gradual expansion in H₂ Production

- The BOP separation system jointly developed with Hydo Tech has officially rolled off the production line and been shipped for application in its overseas H₂ production project.



Increasing start-up rate of green H₂ projects

- Successfully won the major demonstration project for integrated wind & solar H₂ production and green ammonia synthesis at Sheneng (Etuokeqi), newly signed storage-end contracts reaching RMB140 million, a YoY increase of 346%



Continuous innovation in transportation sector

- China’s first 30MPa H₂ tube trailer constructed by the company was put into operation;
- Self-developed H₂ buffer tanks for compressors, successfully produced and officially shipped



Delivery of multiple fixed and skid-mounted H₂ Refuelling stations

- Implemented the liquid H₂ plant and refuelling station for the national 863 project.
- Completed performance testing for liquid H₂ on-board cylinders, with all core indicators meeting advanced industry standards, forming a product matrix covering the entire liquid H₂ storage and transportation chain



Type IV H₂ Cylinders delivered to Europe

- Type IV on-board H₂ cylinders passed European TPED certification and multiple orders were delivered to European customers.
- Self-developed liquid H₂ on-board cylinders, completed a full set of key performance tests for liquid H₂ medium, capable of meeting H₂ fuel cell heavy trucks’ range requirements of over 1,000 km



Solution — Promoting Integrated Solution for LNG Vessels in Inland Waterways

Received over 300 ship orders, with a total contract value exceeding RMB500 million

Supporting Ship Renovation & Upgrade

- Jining Energy's first batch of four 67.6-meter LNG ships received a national subsidy of RMB13.3 million under the "Two New" policy for newly built clean energy vessel (the first national subsidy for newly built ships nationwide).
- Xinneng Shipbuilding Base Subsidy: National subsidy of RMB168 million, with RMB84.27 million already received and RMB84.26 million to be received in 2026.
- Providing the core LNG power systems for the project (including LNG storage tanks, security systems, etc.)



LNG Tank-swap Model Pilot

- The first batch of 10 mobile tank container LNG-powered vessels in Guangxi officially started construction at Guiping Hongxin Shipyard;
- The first batch of twenty 73-metre tank swap vessels in Jining has started construction.
- Provided a self-developed integrated solution for mobile LNG tank containers for the tank swap project.
- **Signed: 100 ships**
- **Under construction: 56 ships (Poyang Lake, Changhang, etc.)**



Vessel+Tank+Station+Energy+Service Full industry chain layout

- Currently, CIMC Enric has established a full industry chain covering LNG shipbuilding, power pack and safety system supply, refuelling station construction, and operation of the waterborne intelligent interconnected platform.



LNG vessel construction



LNG/Methanol fuel tank



Intelligent Ship Networked Security System



LNG vessel energy supply and gas testing services



Construction and operation of floating refuelling stations on water



Waterborne intelligent interconnected platform

An Integrated Solution For All Waterborne Business Scenarios

CIMC Enric's "3+2+N" Strategic Blueprint for Future Development



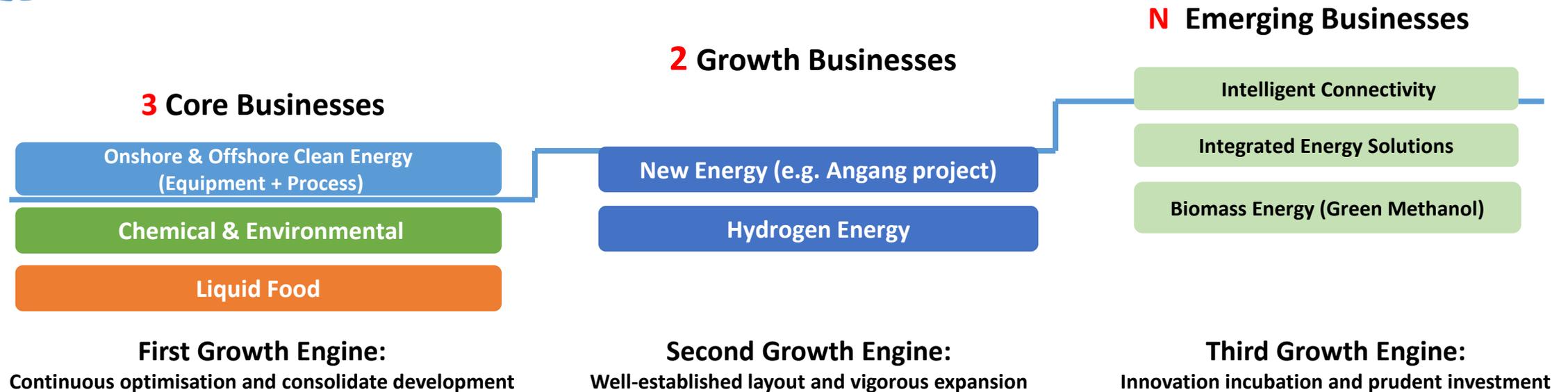
Overall Positioning and Strategic Objective

Expanding from an "Equipment + Process" provider to a comprehensive solutions and service provider.

Building a digitally intelligent, integrated industrial value-creation ecosystem driven by Key Equipment + Core Process + Comprehensive Services,
Aiming to become a **technology-driven, low-carbon, smart energy solutions provider**.



Business Portfolio Optimisation: Evolving from the First to the Second and Third Growth Engines





Integrated energy transition solutions assist traditional enterprises' energy innovation

"Gas Source End"

Production

+

Storage and Transportation

+

Application Scenarios

"End"

Onshore Industrial Chain



■ Coke Oven Gas to LNG/H₂



■ Methanol-to-H₂ Conversion

■ LNG Liquefaction Plant

■ Wellhead Gas Recovery



■ Cryogenic, Medium Pressure, High Pressure Storage and Transportation Equipment

Automotive





■ Integrated refuelling station ■ Gasification Stations ■ Ports/Docks, etc.

Offshore Industrial Chain



■ Offshore oil and gas processing module



■ Green methanol

■ LNG Receiving Terminal

■ Overseas Gas Sources



■ Liquefied gas carriers (LNG/liquid ammonia/methanol/LEG, etc.), liquid cargo tanks, fuel tanks, etc.

Integrated Services





■ Low-carbon energy station products (SL1500/AM200, etc.) ■ H₂ combined heat and power

Marine





■ Oil-to-gas/methanol/liquid ammonia converted vessels ■ Offshore/Onshore Refuelling Stations



■ Intelligent Connected Platform



■ Smart terminal products



■ Cloud Services

Establishing a unified network for both offshore and onshore, connecting end-to-end, interconnecting businesses and equipment



Intelligent Value Chain Upgrade: Establishing an “End-to-End” Integrated Service Ecosystem

Continued promotion of intelligent hardware, platforms and technologies across the clean energy value chain

Intelligent Hardware Innovation

Leveraging its strengths in clean energy key equipment, the Company continues to innovate and scale up production of intelligent hardware products such as capacitive liquid level gauges, intelligent transmitters, mass flowmeters, and marine methanol fuel supply systems, supporting the intelligent upgrading of industrial end-users.



Capacitive level gauge for on-board cylinder



Intelligent mass flowmeter



Offshore methanol fuel supply system



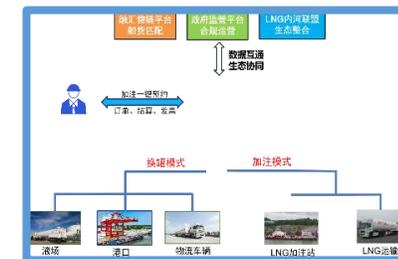
Intelligent transmitter

Intelligent Platform / System Development

By applying AI and digital twin technology, CIMC Enric is developing open intelligent operating systems and cloud platforms to enable device interconnection, data integration and intelligent decision-making, delivering digital management and AI-empowered services for traditional industry customers.



Digital platform for coke oven gas / green methanol projects



Intelligent interconnection platform for marine bunkering

Intelligent Application Scenarios

Focusing on clean energy applications in the transportation and industrial sectors, CIMC Enric is building an integrated “one network on land” and “one network on water” to promote digital transformation and intelligent operations across the industry.





Key Clients in Clean Energy Business





Broad Hydrogen Energy Partner Network

 国家能源集团 CHN ENERGY	 中国石油	 中国能建	 中国电建 POWERCHINA	 中国海油 CNOOC	
 鞍钢集团 ANSTEEL	 首钢集团 SHOUGANG GROUP	 深圳能源 SI LNZI LT LNLA'Y	 中核集团 CNNC	 明阳智能 MINGYANG SMART ENERGY 明阳智能 地蕴天成·能动无限	 中国石化 SINOPEC
 AIR DUCTS	 Linde	 Air Liquide	 SANY	 联悦气体 Linkye Gas	 PLUG POWER
 華潤 China Resources	 中国华电 CHD	 喜马拉雅 Himalaya	 爱德曼 CEMT		
 Panasonic	 Wisdom Motor	 飞驰科技 FEICHI TECHNOLOGY	 亿华通 SinoHytec	 REFIRE	 福田汽车 FOTON
 TEMPLEWATER	 Citybus 城巴	 WEICHAI 潍柴	 DFM	 BAOWU	

Chemical & Environmental

CIMC SAFEWAY (301559.SZ)





CIMC Safeway (301559.SZ) Maintains Global No.1 Tank Container Share Consecutively



Chemical and Environmental

- **CIMC Safeway (301559.SZ)** successfully listed on the ChiNext Market of the Shenzhen Stock Exchange.
- The company is the world's **largest, most comprehensive, and technologically advanced** manufacturer and full-lifecycle service provider of tank containerized logistics equipment for liquid and ambient liquefied gases. It integrates design and R&D, manufacturing, and sales.
- Recognised with multiple national and provincial honours in 2024, including "National Green Factory", "National Excellent Intelligent Factory", and "Jiangsu Province AAA-Level Quality Certification".

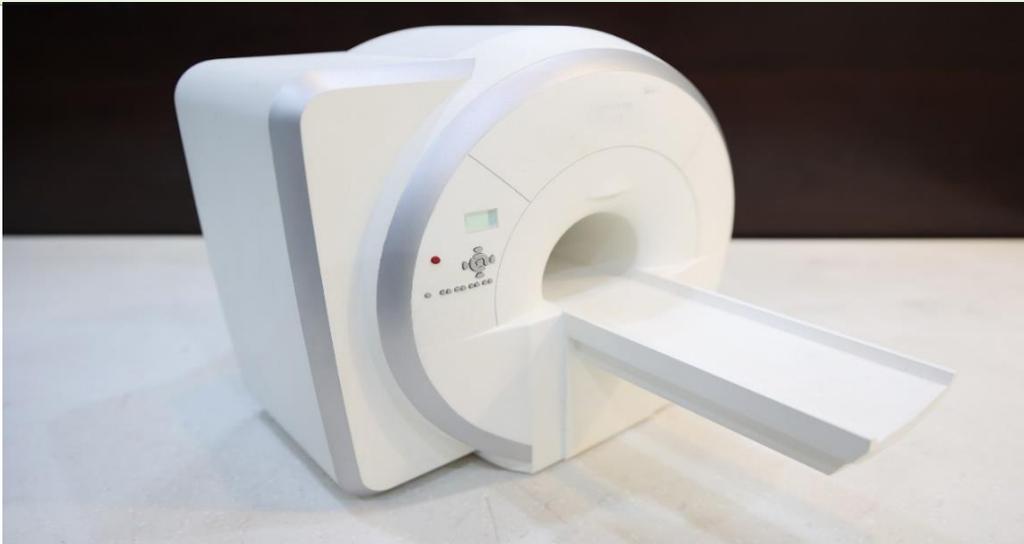


Focusing on High-end Equipment, Actively Creating a Second Growth Curve

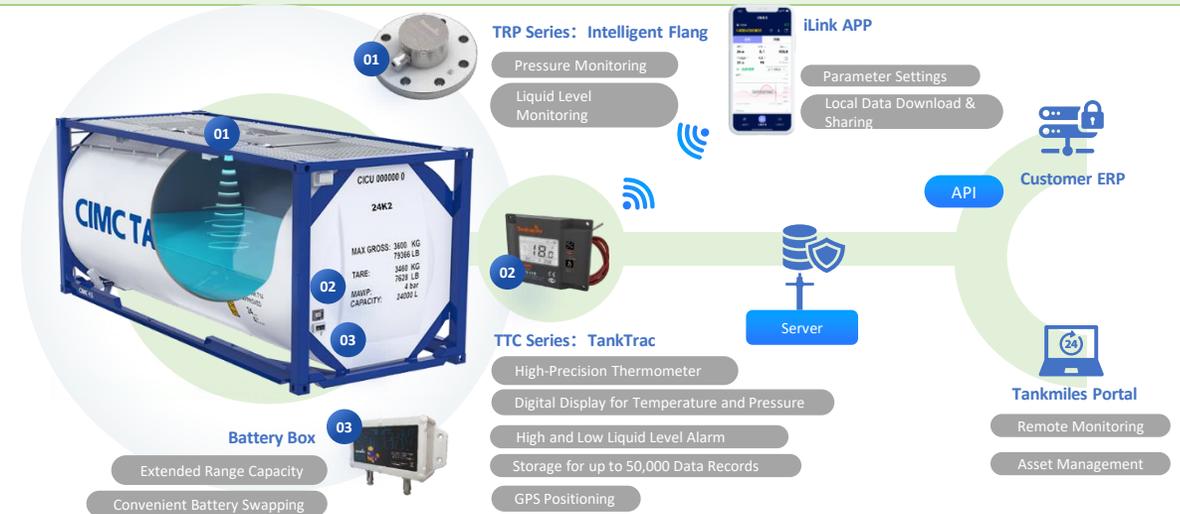


Focusing on diversification is a key strategic priority to achieve sustainable growth and strengthen resilience against risks: By fostering deep synergy between economies of scale, business scope and cutting-edge technology, it actively seeks new business opportunities in strategically relevant areas such as high-end equipment, aiming to diversify revenue streams, cultivate large-scale emerging business segments and drive quality growth for the Company.

Actively responding to national policies and initiatives, leveraging capital market instruments such as mergers, acquisitions and investments to maintain a strategic focus on key areas, particularly high-end medical equipment and intelligent equipment manufacturing. It will continue to advance endogenous development and exogenous expansion, aiming over the next three to five years to build a matrix of "high-end equipment + new materials + new processes + new application scenarios" , to achieve a strategic transformation from a global leader in tank containers to a global core technology platform for high-end equipment.



High-end medical equipment business: To deliver more advanced high-end components for medical imaging equipment; build precision machining capabilities for non-ferrous metals and actively expand into broader industry sectors beyond medical imaging



Intelligent equipment business: To establish software and hardware and service capabilities of "sense, foresight and implementation", empowering digital intelligence transformation of the chemical logistics and intelligent manufacturing fields with reliable quality and innovative technologies



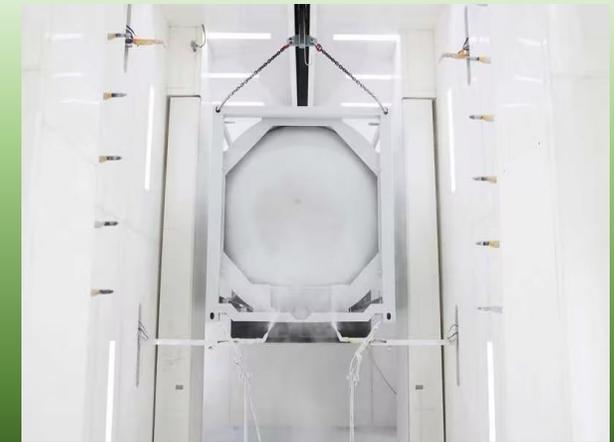
Empowering Innovation

- Recognised in 2025 as one of the first National "**Excellence-Level Intelligent Factories**" by the Ministry of Industry and Information Technology (MIIT) through "**Flexible, Green, and Intelligent Tank Container Factory**" project, setting a benchmark for intelligent transformation in the tank container industry. The project focuses on five major areas—factory construction, R&D design, production operations, production management, and operations management—deeply integrating digital twins, AI-driven optimisation, and automated logistics to achieve fully intelligent, end-to-end process control.
- As of 30 June 2025, CIMC Safeway held 288 valid patents, including 108 invention patents, 172 utility model patents, and 8 design patents. During the reporting period, filed 8 new patent applications, comprising 5 invention patents and 3 utility model patents.



Green Development

- Successfully developed and implemented an "**Energy Management Platform + Digital Twin System**", leveraging digital solutions to drive low-carbon operations and significantly enhance environmental management efficiency, thus being recognised as a "**National Green Factory**".
- Prioritising the use of eco-friendly materials to effectively reduce carbon emissions while ensuring product quality, and exploring renewable materials for application in tank container products, with **more than 90%** of standard tank containers recyclable, and almost 100% recyclability of gas tank containers and non-insulated tank containers. Providing stable support for asset residual value returns for leasing companies and operators whilst achieving a circular economy.



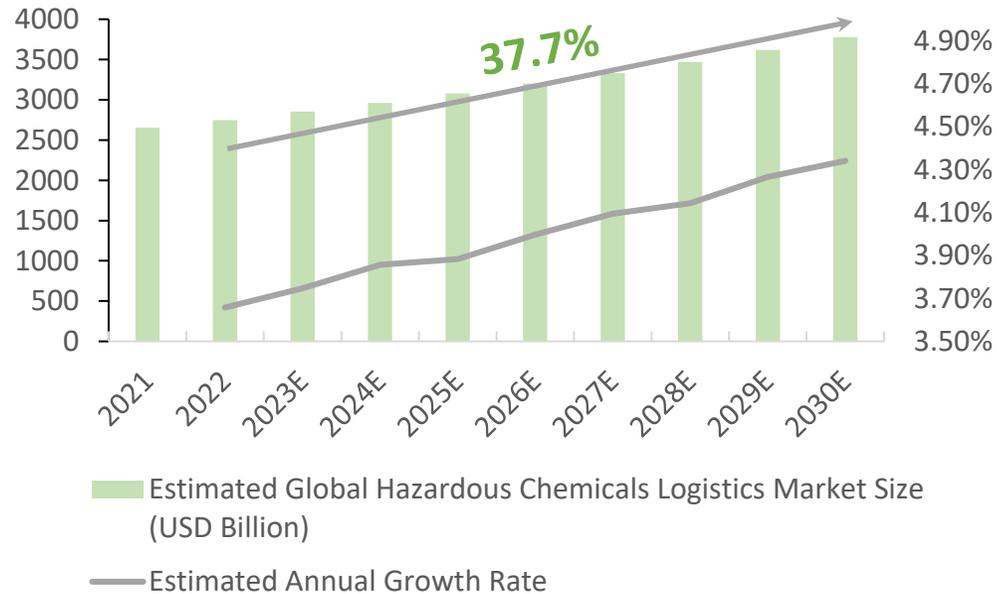


Tank Container Industry Maintains Long-Term Growth trends with Promising Potential Ahead

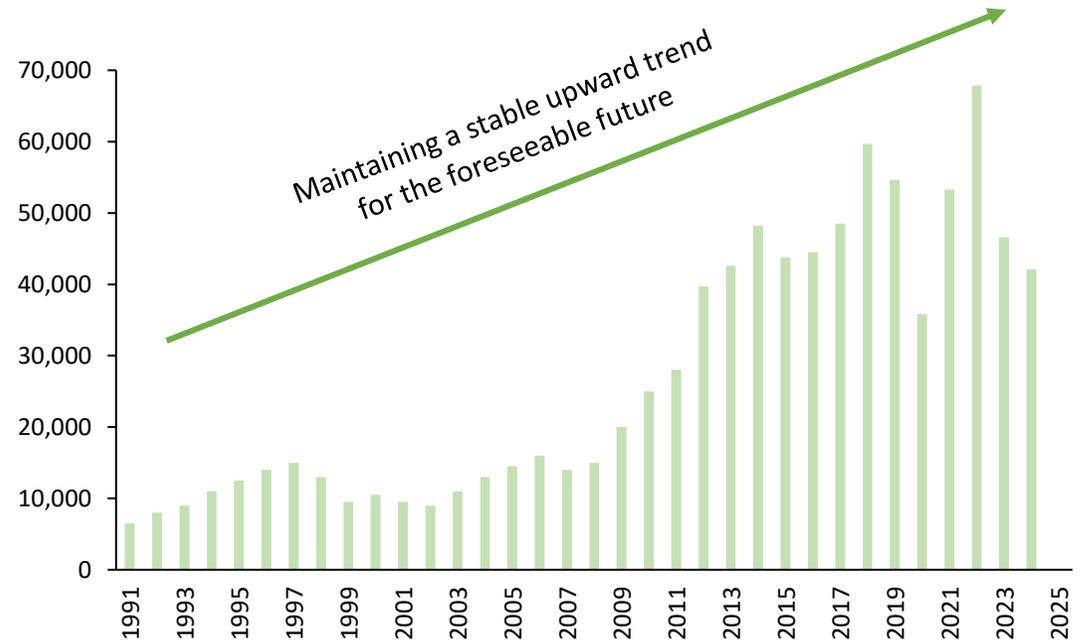
Tank Container Market Exhibits Long-Term Upward Momentum, reflecting steady growth with cyclical resilience

Tank containers are a safe and efficient solution for chemical logistics. In the long term, factors such as the gradual promotion of intermodal transport policies, increasingly stringent chemical safety regulations, and cross-regional investments in the chemical industry are expected to enhance the penetration of tank containers in chemical logistics. . These trends will support the continued growth of the chemical logistics sector and help sustain the long-term upward trend of the tank container market.

Global Hazardous Chemicals Logistics Market Continues to Grow



Global Tank Container Production Demonstrates Long-Term Stability and Steady Growth



*Source: Precedence Research, Qianzhan Industry Research Institute, ITCO Annual Report

Upstream and Downstream Structure of the Tank Container Industry

CIMC Safeway "Manufacturing + Services + Intelligence" Development Model



Steel materials



Valve assemblies



Functional



Other raw materials (e.g., aluminum, nickel, insulation materials)



Coatings and paints



standard stainless steel liquid tank containers

special stainless steel liquid tank containers

Carbon steel gas tank containers

Carbon steel powder tank containers

Intelligent Applications



- Sensor terminals
- Intelligent displays
- Data management systems
- Temperature control systems
- Tank process systems

After-sales services



- Cleaning
- Refurbishment
- Retrofitting
- Repair
- Inspection

Tank container leasing companies



Chemical logistics service providers



Tank container storage

Chemical industry enterprises



Comprehensive Coverage of Tank Container Customers across Businesses

Leasing Companies



- **EXSIF:** A subsidiary of Berkshire Hathaway, EXSIF maintains a broad inventory of various tank container types across major global regions and ports, providing customers convenient and globalized leasing services.



- **Ermewa:** A subsidiary of the French National Railway and holds a global leading position in the leasing and management of special transportation equipment.



- **Peacock Container:** A globally recognized container leasing company specializing in the leasing, sales, and design of containers and multimodal transport equipment.

Operators



- **Stolt-Nielsen:** STOLT is a subsidiary of Stolt-Nielsen, and is the world's largest operator of sophisticated chemical tankers, a global provider of bulk liquid safe storage services and a leading company in specialized bulk liquid chemical logistics.



- **China Railway Tielong:** A leading domestic modern logistics enterprise in China, focusing on railway-based specialized container transportation, operating nationwide with a network-based model.



- **Milkyway Intelligent Supply Chain Service Group Co., Ltd.:** A top-tier integrated chemical supply chain service provider in China, offering customers one-stop solutions centered on freight forwarding, warehousing, and transportation.

Chemical Industry Enterprises



- **BASF:** One of the world's largest chemical companies, with its core business focused on chemicals and plastics.



- **Bayer:** A German life science company and a global leading chemical enterprise, and a leading chemical enterprise. Its business covers pharmaceuticals and agriculture.



- **DuPont:** A research-driven global science and global company, with business areas covering food and nutrition, healthcare, apparel, and more. It is a leading enterprise in the global chemical industry.



Key Tank Container Clients

Container Leasing Companies



Operating Companies

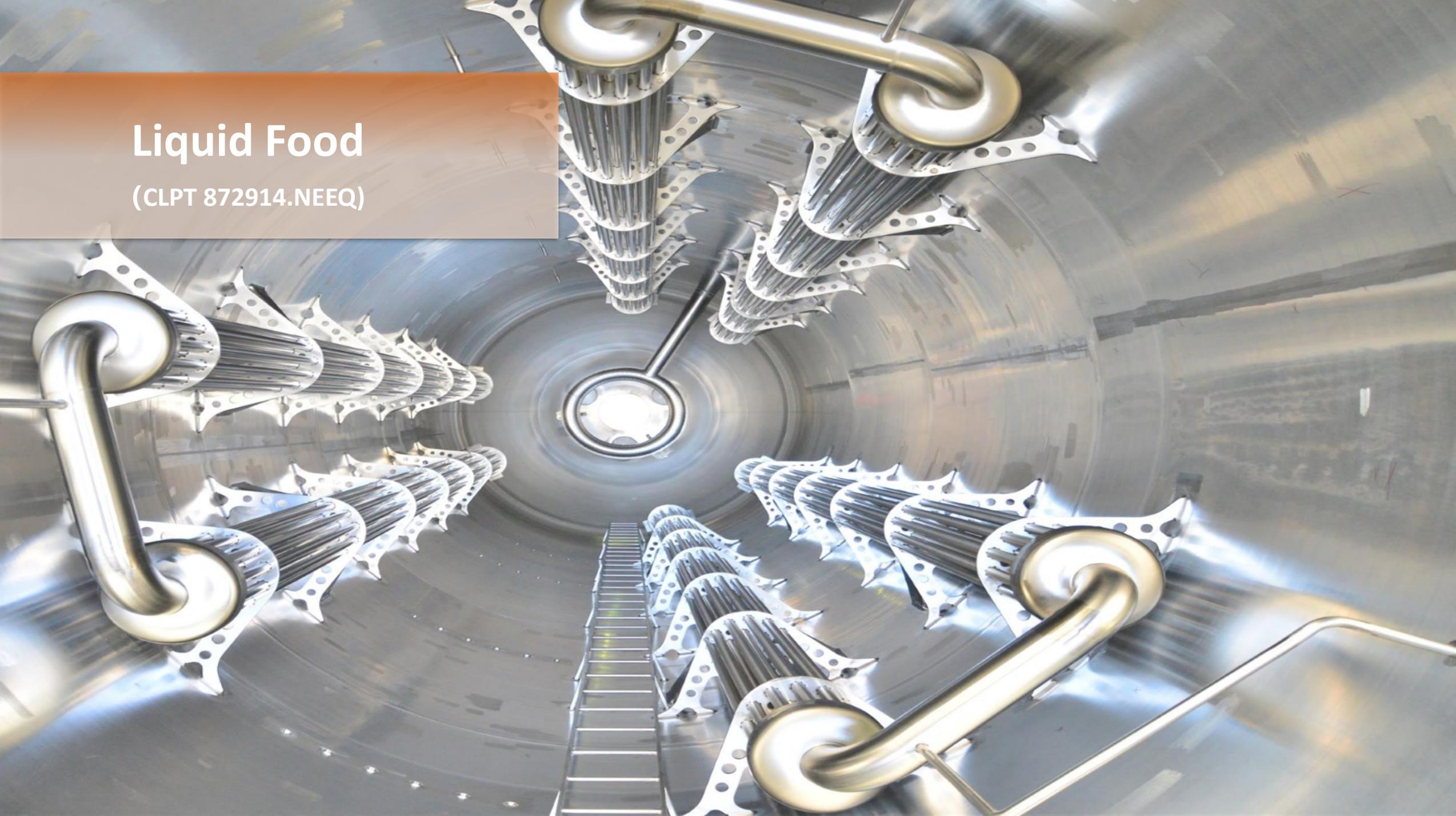


End-Users and Others



Liquid Food

(CLPT 872914.NEEQ)



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.



- Established in 1867, a subsidiary of Briggs. A long-standing UK manufacturer of copper stills.



- 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.



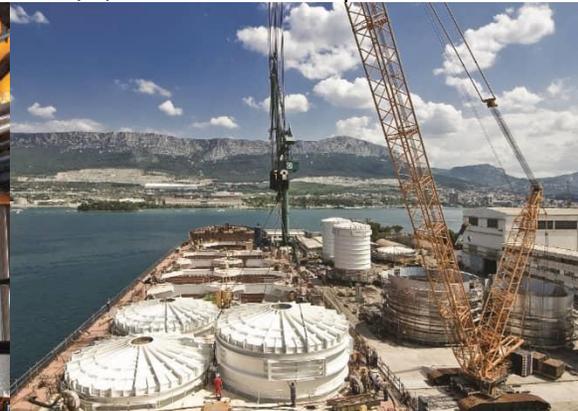
- Founded in 1922 and headquartered in Germany, is a leading medium-sized machinery manufacturing company specialising in the global beverage/brewing industry.



Large brewery fermentation tank and project



Craft beer technology, equipment, system and engineering

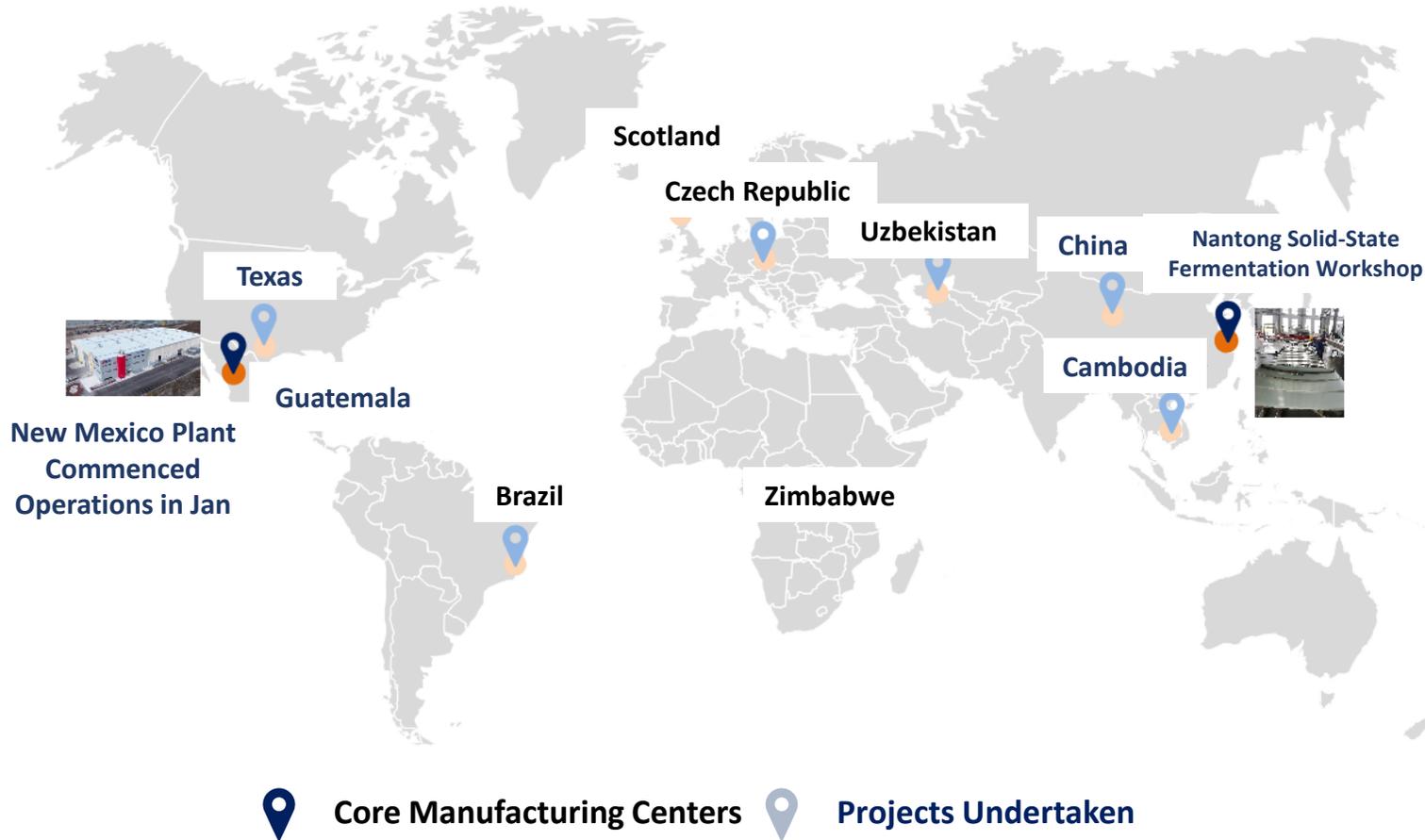


Liquid food storage tanks and engineering such as dairy, juice products



Tank area equipment for other industries, such as chemicals, pharmaceuticals, etc.

Global Operational Capabilities Continue to Deepen



- **Core Manufacturing Centers:** The greenfield factory in Mexico was fully operational in January 2025 with new orders totaling RMB11.71 million as of June 2025. The first phase of the solid-state fermentation workshop in Nantong has started production, currently focusing on the production for the Fenjiu project.

Global Project Portfolio : The segment principally undertook a number of brewery, beverage and juice, and malt whisky plant projects in Brazil, Scotland and China. It also secured multiple new project orders in Eastern Europe, the Americas, Africa and Southeast Asia, including malt mash filters and distilleries in Zimbabwe, Uzbekistan and the Czech Republic, as well as expansion projects for strategic partners in Guatemala, Texas and Cambodia, a tequila distillery in Mexico, and a grain distillation project in Scotland.

- **China-Europe Collaboration :** Drawing on the 2,000-year-old Chinese bronze stills of antiquity, fusing traditional craftsmanship with modern whisky-making technology to develop a distinctly Chinese still, forging a unique “China flavour” for the Langjiu Gaoqiao Whisky Project.



Process Equipment

- Brew House (milling, filtration, boiling, and treatment systems)
- Internal Tanks in Workshop
- External Tanks at Site
- Integrated Equipment (providing interfaces for future capacity expansion)
- Automated Production Software and Hardware



External Tanks



External Tanks



System Integration and Expansion



Turnkey Engineering Services

- Consulting
- Design
- Pilot Testing (Adjusting Flavors)
- Training
- Beer Recipe Development
- Factory Energy Management



Brewery Turnkey Projects



Brew House



Internal Tanks



Craft Beer Small-Scale Solutions (DME)



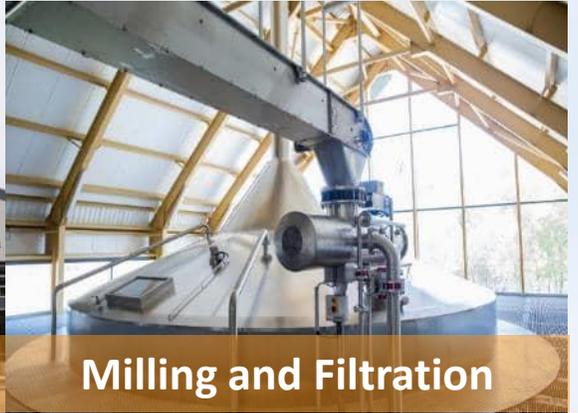
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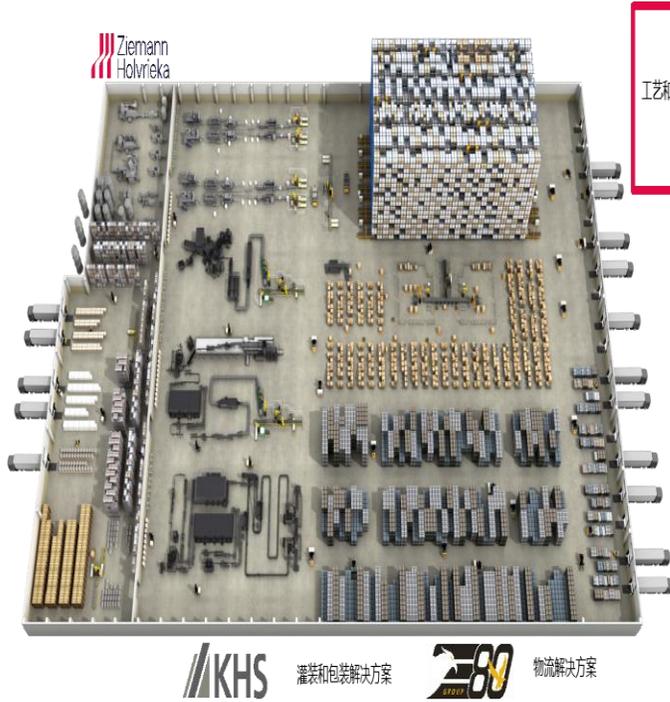
Craft Beer Medium-to-Large-Scale Solutions (NSI)





Distilled Spirits Solutions



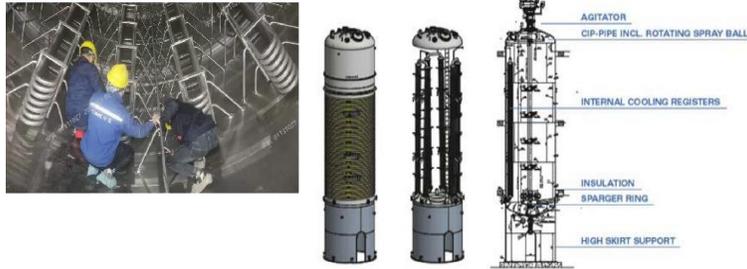


Ziemann
Holvrieka

德国吉曼
EPC
工艺和储罐解决方案, 水电能源
消耗综合管控系统
ICPs
完全集成体系

KHS 灌装和包装解决方案
Z80 物流解决方案

Integrated Beverage Equipment Solutions



R&D in Precision Fermentation Technology



Green Intelligent Grain Storage Silo Plant Commenced Operation in August



Biopharmaceutical Solutions



Manufacturing Systems for the World's Medicines

We collaborate with global pharmaceutical companies to design, build, and validate advanced process systems.

Our pharmaceutical engineering team specializes in systems for the production of Active Pharmaceutical Ingredients (APIs). Notable projects include supplying storage tanks and process equipment for the world's largest insulin production facility in the U.S., as well as our market-leading inhalation systems.



Pharmaceutical Engineering Expertise

- API Processing
- Drug Addition Vessels (DAV)
- Wet Mixing Systems
- Water for Injection (WFI)
- Metered Dose Inhaler (MDI) Production Systems
- Hydrofluoroalkane Propellant Storage & Cooling System
- Mobile Agitated Vessels
- Custom System Design





Strategic Upgrade for Diversified Organic Growth



CLPT

Business Growth & Functional Excellence Strategies





Development Opportunities in Diversified Industries as RTD Spirit and Biopharmaceuticals



Global non-alcoholic beer revenue

Unit: Million Euro (as of 1USD=0.92EUR)



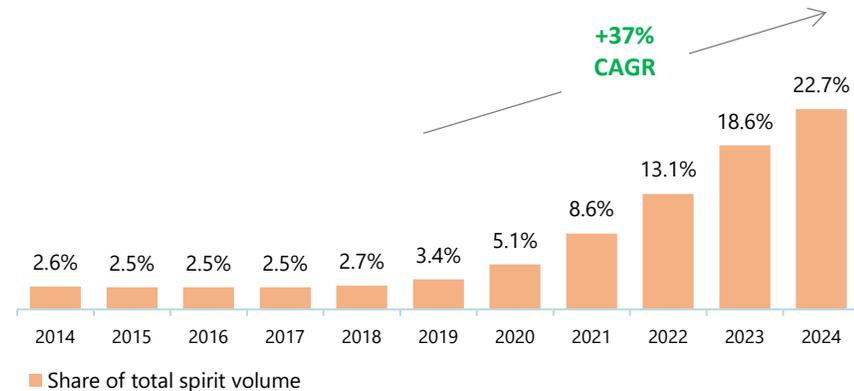
Global non-alcoholic beverages revenue

Unit: Trillion Euro (as of 1USD=0.92EUR)



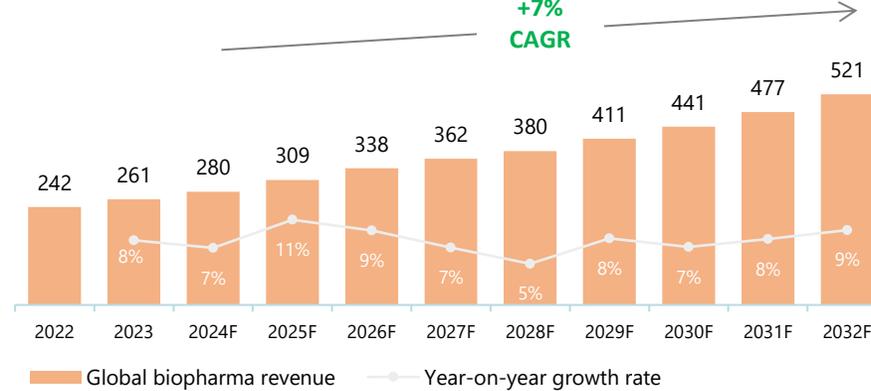
U.S. RTD spirit market share of total spirit volume

Unit: Percent



Global biopharmaceuticals revenue

Unit: Billion Euro (as of 1USD=0.92EUR)



Key Factors

- No-alcohol beer has gained popularity due to growing health awareness, demographic shifts, and consumers cutting back on alcohol consumption, prompting brewers to invest in zero-proof alternatives., according to the International Wine and Spirits Research (IWSR).
- The fast-growing nonalcoholic drinks market is jockeying for about \$900 million (~€828 million) in annual US sales, according to NIQ.
- The RTD category is booming, with its compound annual growth rate (CAGR) expected to rise by 12% from 2023 to 2027.
- Spirit-based RTDs are forecast to grow by 6% CAGR from 2023 to 2028, according to IWSR. NIQ data shows that in the 12 months to 31 March 2024, U.S. spirits-based RTDs experienced robust growth, with their contribution to total RTD sales increasing by 40% YoY.
- Biopharmaceuticals are experiencing significant global growth, driven by emerging therapies, AI, and advanced models which accelerates drug discovery and development.

Source: Statista, S&D Insights, IWSR, NIQ, Bloomberg, BCG



Actively Expanding Domestic Revenue



USD 88.07 Billion

52 Producers

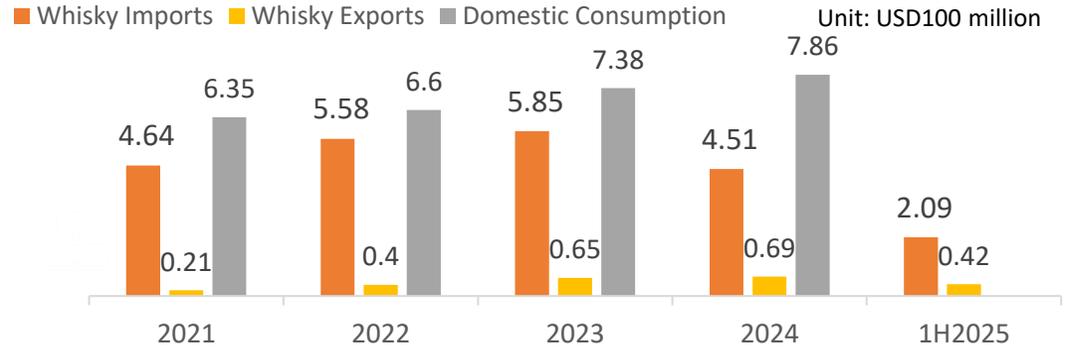
Global Whisky Market

According to Statista (Germany), from 2023 to 2027 the global whisky market is expected to record a 4.56% CAGR. In terms of market size, whisky ranks first in the global spirits category, with market size reaching USD 88.07 billion.

Domestic Whisky Market Size

According to the 2024 China Whisky Industry Annual Report, the number of whisky producers in China (including 8 in Hong Kong, Macau and Taiwan) has increased to 52. Among them, 42 are already in operation, representing 16 newly added producers compared to 2023 — indicating accelerated industry clustering.

Rapid Growth of China's Whisky Market



Source: Wind



Key Industrial Beer Clients





Key Craft Beer Clients



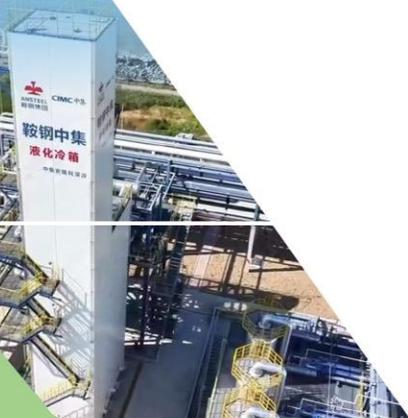


Key Distilled Spirits Clients



鮫魚圈·
焦爐氣制氫制LNG
H2 & LNG Production Project

03



湛江·綠色甲醇
Green Methanol Project



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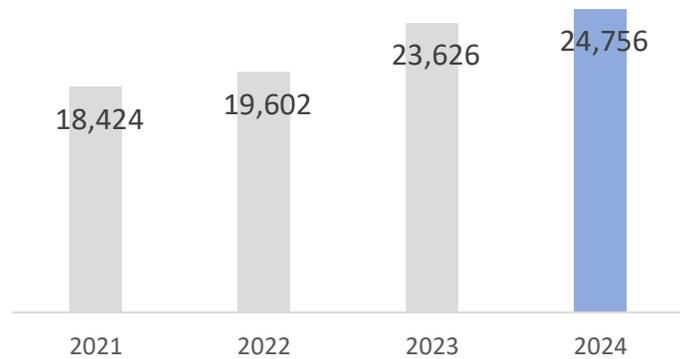
1. About Us
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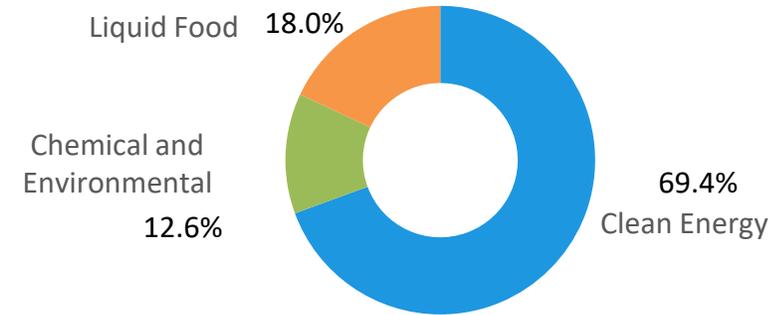
Overall Revenue Increased YoY in 2024 and Sufficient Dividend Payout Ratio

Clean Energy Revenue Increased Significantly by 15.3% YoY
Free Cash Flow: RMB 1.31 Billion, Up 255.5% YoY

Unit: RMB million



Revenue breakdown by segment

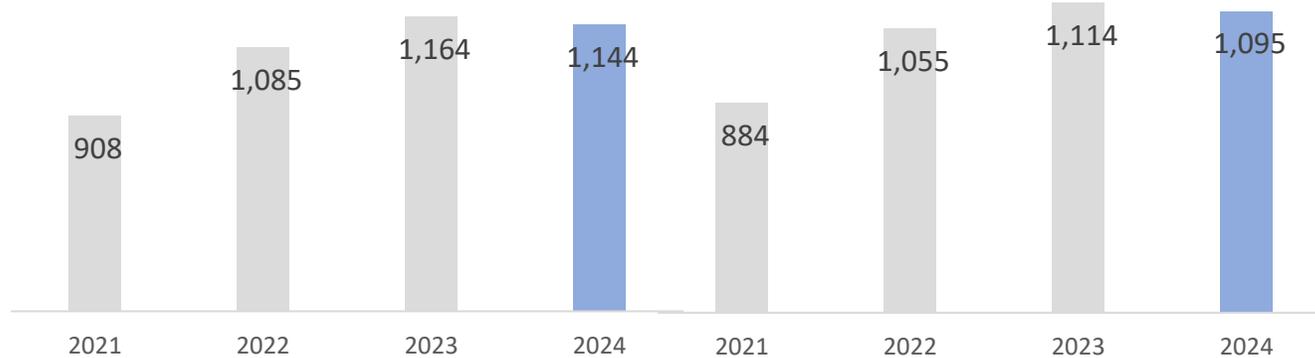


Net Profit and Net Profit Attributable to Shareholders Remained Basically Flat YoY

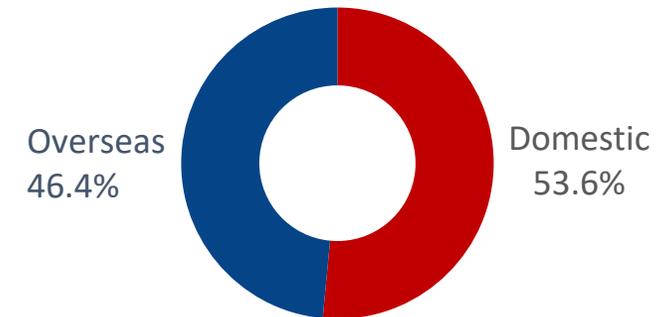
Unit: RMB million

Net Profit

Net Profit Attributable to Shareholders



Revenue breakdown by location



- Dividend per share: HKD 0.3; Net operating cash flow: RMB 2.49 billion

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



Clean Energy Segment Performance

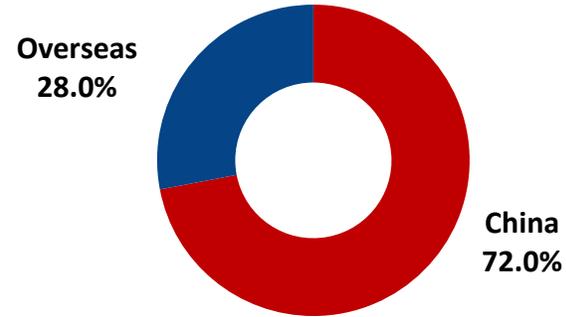
Revenue increased by 15.3%
Reportable segment profit significantly increased by 71.4%

Unit: RMB million

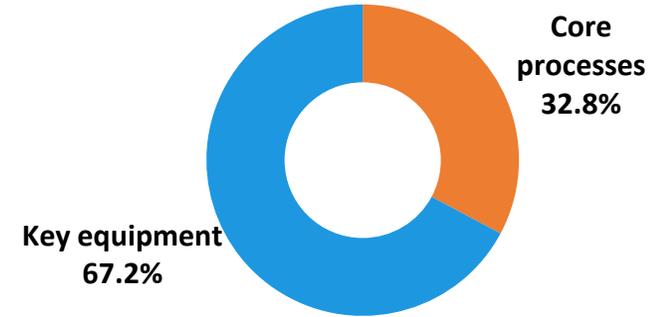


- Reportable segment profit of clean energy (adjusted profit from operations): **RMB 960 million, soared 71.4% YoY**

Revenue breakdown by location

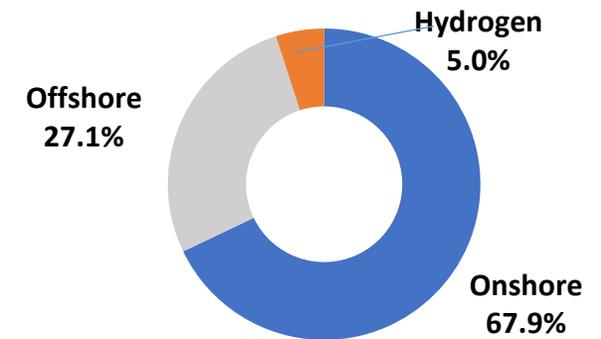


Revenue breakdown by business



Revenue breakdown by business

- 2024 Revenue from Offshore Clean Energy Segment: **RMB 4.66 billion, up 108.4% YoY**
- 2024 Revenue from Hydrogen Energy Segment: **RMB 850 million, up 21.7% YoY**

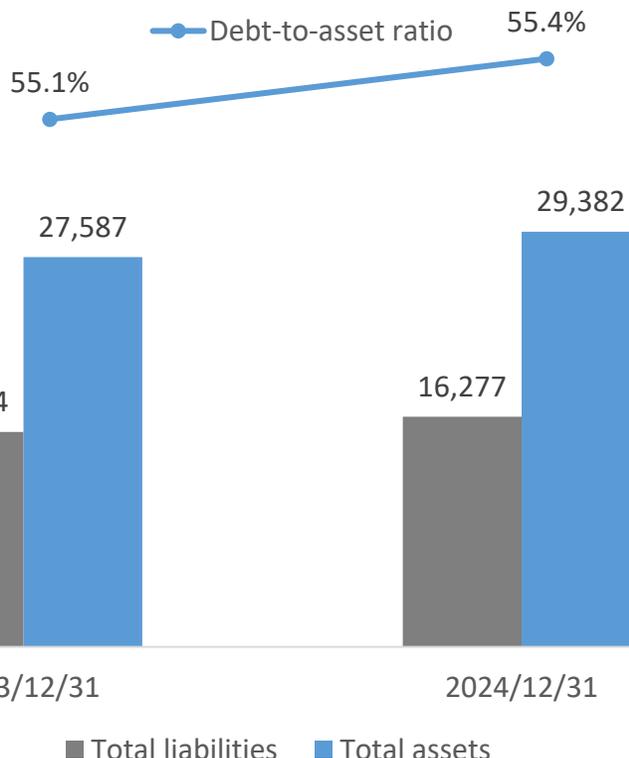




Long-term Robust Asset-liability Structure

Robust asset-liability structure

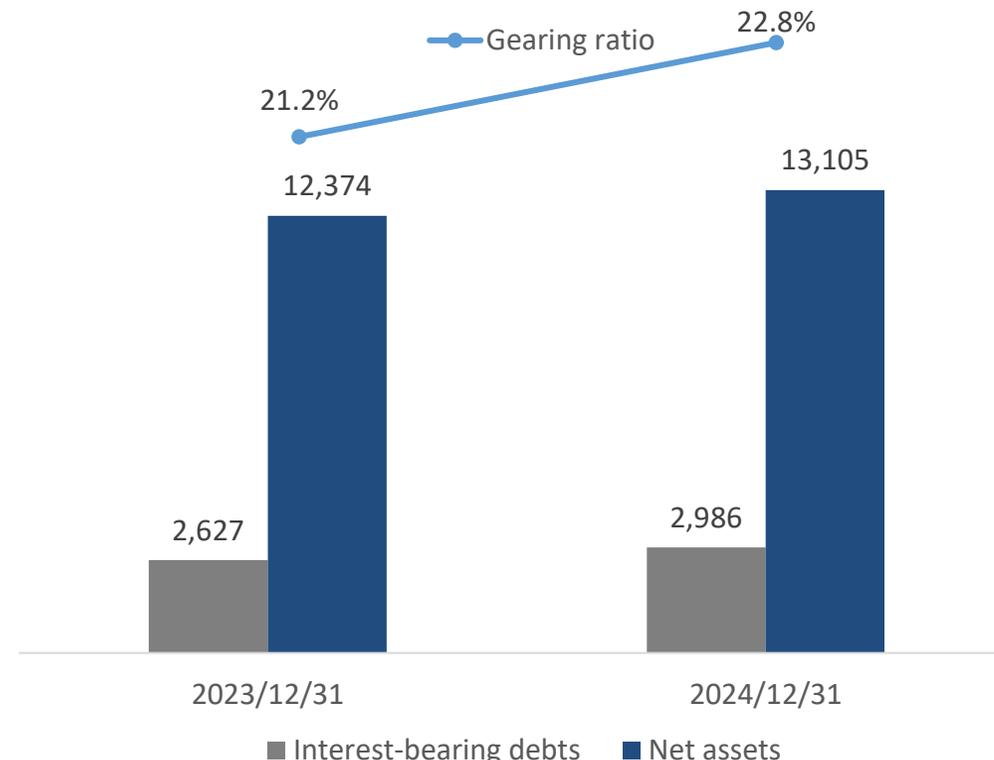
Unit: RMB million



- Total liabilities of RMB 16.28 billion included accounts payable, contract liabilities, interest-bearing debts, etc.
- Interest-bearing debts was RMB 2.99 billion.

Gearing ratio up slightly

Unit: RMB million



- During the period, the previously issued HKD 1.68 billion convertible bonds were redeemed and cancelled;
- Among the interest-bearing liabilities, there are medium-term notes amounting to ~RMB 2.0 billion, short-term notes of ~RMB 500 million, and loans from financial and other institutions of ~RMB 490 million. The weighted average interest financing cost rate of interest-bearing debt was 2.56% (2023: 3.68%).



Newly Signed Orders - Continuous Increase in Q2



- Newly signed orders for clean energy totaled RMB8.97 billion; among them, newly signed orders for offshore clean energy amounted to RMB3.24 billion, with RMB2.04 billion in new orders signed from May to June. It is estimated that the annual new orders for offshore clean energy will not be less than RMB8.0 billion. Newly signed orders for onshore clean energy overseas business reached RMB1.23 billion;
- Newly signed orders for chemical and environmental segment in 2Q2025 surged 43% QoQ;
- Newly signed orders for liquid food reached RMB690 million, a 62% QoQ increase from Q1 to Q2 in 2Q2025;

Newly signed orders by segment

Chemical and Environmental
RMB1.08 billion

Clean Energy
RMB8.97 billion

Liquid Food
RMB690 million

Clean Energy Categories	Newly signed orders in 1H2025 (Unit: RMB100 million)
Storage	20.9
Transportation	52.1
Scenario Application	15.2
Processing and others	1.5
Clean Energy Total	89.7

Clean Energy Categories	Newly signed orders in 1H2025 (Unit: RMB100 million)
Onshore Clean Energy	52.9
Offshore Clean Energy	32.4
H ₂ Energy	4.4
Clean Energy Total	89.7

Clean Energy Categories	Newly signed orders in 1H2025 (Unit: RMB100 million)
Core Process	39.3
Key Equipment	50.4
Clean Energy Total	89.7

Note: Integrated Services refer to operational businesses involving the sales of LNG, high-purity H₂, and others that are not presented in the form of orders.

- Newly signed orders: Cumulative value of all orders signed in 1H2025;



Backlog Orders Stayed Strong



- Backlog orders amounted to RMB29.18 billion, stayed flat YoY.
- Backlog orders of clean energy stood at RMB25.20 billion, up 10% YoY.
- Backlog orders of offshore clean energy stood at RMB16.97 billion, up 12.7% YoY.



Clean Energy Categories	Backlog orders in 1H2025 (Unit: RMB100 million)
Storage	41.0
Transportation	186.1
Scenario Application	20.0
Processing and others	4.9
Clean Energy Total	252.0

Clean Energy Categories	Backlog orders in 1H2025 (Unit: RMB100 million)
Onshore Clean Energy	73.7
Offshore Clean Energy	169.7
Hydrogen Energy	8.6
Clean Energy Total	252.0

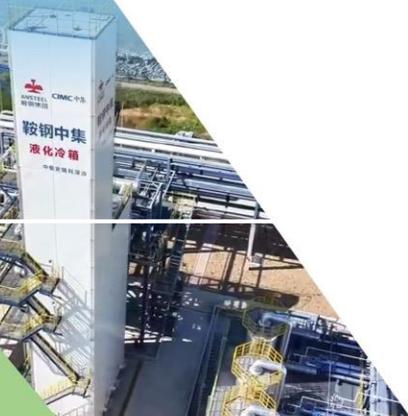
Clean Energy Categories	Backlog orders in 1H2025 (Unit: RMB100 million)
Core Process	166.1
Key Equipment	85.9
Clean Energy Total	252.0

• Backlog orders: Backlog orders as of 30 June 2025

Note: Integrated Services refer to operational businesses involving the sales of LNG, high-purity H₂, and others that are not presented in the form of orders.

鮫魚圈·
焦爐氣制氫制LNG
H2 & LNG Production Project

04



湛江·綠色甲醇
Green Methanol Project



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Aim to build an interactive value-added industry based on “Key Equipment + Core Process + Comprehensive Services”, and become a **Comprehensive Service Provider of Technology-driven, Low-carbon and 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 300m³ liquid hydrogen storage tank to Wenchang, Hainan



Included as a constituent stock of the Hang Seng Composite Index

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

Acquired 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 (三新评审)", 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 successfully listed on ChiNext Market of the Shenzhen Stock Exchange

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



2024

Ansteel CIMC Hydrogen and LNG production demonstration project using coke oven gas commenced production



CLPT was officially listed on the National Equities Exchange and Quotations (NEEQ)

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



Appendix: Natural Gas Market Outlook

According to the IEA Gas Market Report (Q3 2025), global natural gas consumption is expected to grow by ~1.3% in 2025. With supply constraints gradually easing and demand from the industrial and power sectors increasing, global natural gas consumption is projected to reach a record high in 2026. Demand in Asia is expected to grow by over 4%, with LNG imports forecast to increase by around 10%.

Outlook for 2H 2025

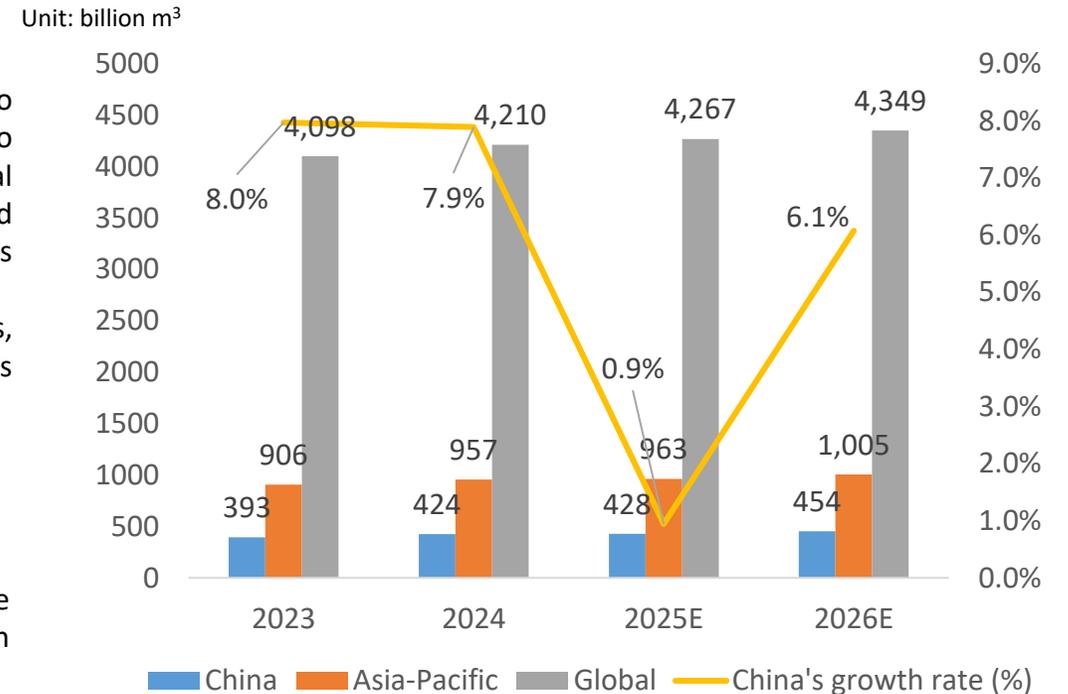
Industry Perspective

- In 2H 2025, domestic gas production and imported pipeline gas will continue to support incremental demand in China. LNG imports, however, are expected to be revised downwards due to softer demand and relatively high international gas prices. Supported by the resilience of industrial activity and rising demand from gas-fired power generation and transportation sectors, consumption is expected to improve in 2H 2025 .
- As LNG export capacity ramps up in the U.S., Qatar, Mexico, and other regions, international spot prices are expected to decline noticeably. In 2026, China's LNG imports are forecast to surge by ~25% (equivalent to 23 bcm).

Company Outlook

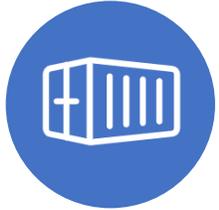
- Key equipment such as LNG storage tanks, LNG trailers, and LNG on-vehicle cylinders will continue to maintain leading market share, with steady growth momentum.
- Continuing to benefit from the expansion of natural gas consumption and downstream applications.

Global and China Natural Gas Demand Forecast for 2026



Source: IEA-Gas Market Report, Q3-2025

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.

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.



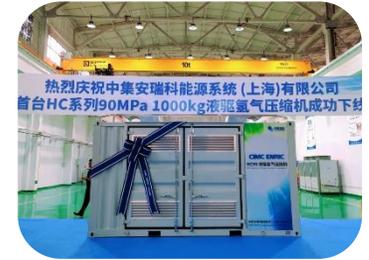
Establishment of standards:

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 1200Nm³/h alkaline electrolyzer and skid mounting methanol-to-hydrogen equipment;





Appendix: CIMC Hydrogen

CIMC Hydrogen Energy Technology Co., Ltd. ("CIMC Hydrogen"), a dedicated hydrogen energy development platform under CIMC Enric, focuses strategically on three core areas: hydrogen for mobility, hydrogen-to-power, and industrial hydrogen. The Company is committed to becoming a technology-driven leader in the hydrogen energy sector.

An Integrated Business Model Covering Production, Storage, Transport, Refuelling, Application Scenarios, and Smart Hydrogen

Through years of development, CIMC Hydrogen has established a comprehensive industrial layout with: 2 wholly-owned subsidiaries, 2 joint ventures, 5 core business divisions, 7 state-of-the-art equipment manufacturing bases in **Shijiazhuang, Langfang, Nantong, Zhangjiagang, Qidong, Jingmen**, and others. Leveraging an international perspective and group-level operations, CIMC Hydrogen has built a full hydrogen value chain ecosystem, from production, storage, transport, and refuelling to diversified end-use scenarios. Its business coverage is anchored in the Beijing-Tianjin-Hebei region, Yangtze River Delta, and the Greater Bay Area, with extended reach into more than 10 countries including South Korea, Japan, Russia, Denmark, Switzerland, and the United States. The Company delivers comprehensive, green, convenient, and cost-efficient hydrogen energy solutions.



Langfang Integrated Systems Division



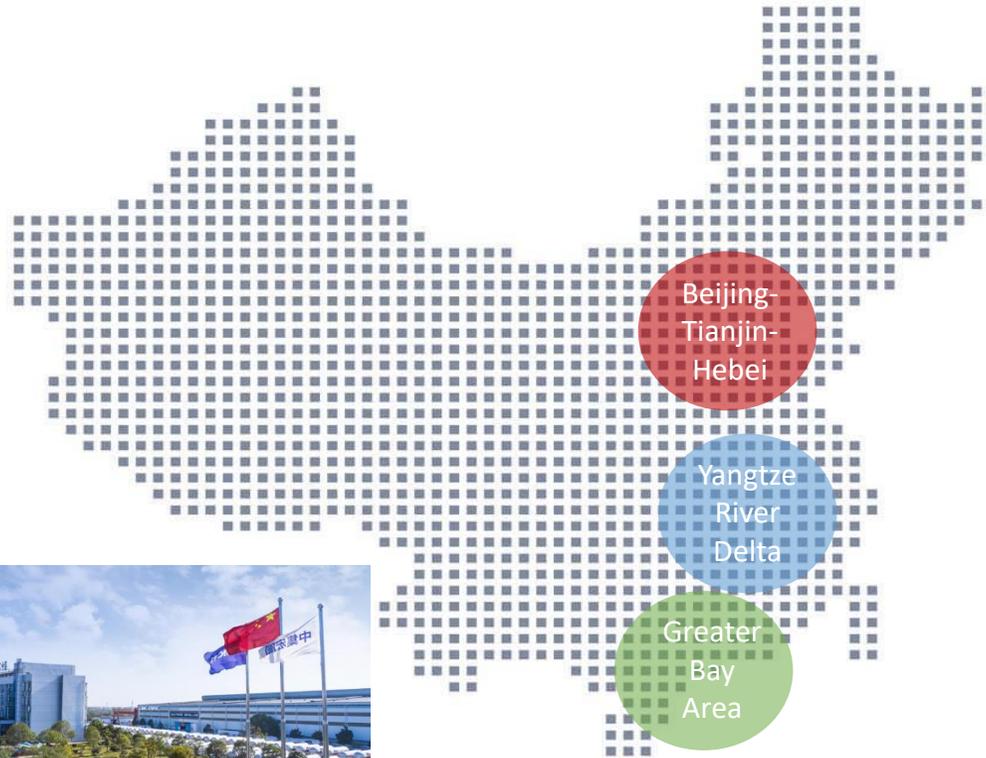
Shijiazhuang High-Pressure Gaseous Hydrogen Division



Shijiazhuang CIMC-Haskel Hydrogen Development (Hebei) Co., Ltd.
CIMC-Haskel Hydrogen Technology (Hebei) Co., Ltd.



Jingmen Ammonia-to-Hydrogen Division



Zhangjiagang Liquid Hydrogen Division



Qidong Offshore Hydrogen Division



Nantong CIMC Hydrogen Energy Technology (Nantong) Co., Ltd.



Establishing Hydrogen Energy Demonstration Projects

Hong Kong Citybus H₂ Energy Transport Demonstration

The entire range of hydrogen products supported the operation of Hong Kong's first skid-mounted hydrogen refuelling station and the first hydrogen-powered bus.



Committed to Establishing More Demo Projects Surrounding H₂ Energy Application Scenarios in Hong Kong



Strategic Cooperation with Hong Kong and China Gas

- Comprehensive cooperation regarding the purification, storage, and utilisation of H₂;
- The first project was implemented, namely "Hong Kong Science Park Cogeneration and Hydrogen Fuel Cell Charging Piles Project".



Charging Pile Project at Hong Kong North Point Headquarters

- Providing mobile H₂ fuel cell charging stations and constructing solutions for a new H₂ energy transport system



Hong Kong Science Park CHP Project

- R&D of portable pipeline gas-to-H₂ CHP integrated energy utilisation devices
- It will be first demonstrated and applied at Hong Kong Science Park.



H₂ Energy Application Demo at Hong Kong Airport

- Mobile H₂ refuelling stations will be used at Hong Kong Airport, marking the first H₂ energy airport demo in China.



Appendix: High-Pressure Gaseous Hydrogen Storage and Transportation Equipment

▶ Station Hydrogen Storage Tank Groups

CIMC Hydrogen is a pioneer in the development of large-capacity seamless steel gas cylinders in China, backed by over 50 years of pressure vessel manufacturing expertise. The Company operates the world's largest and most advanced production base for large-capacity seamless steel cylinders and hydrogen storage and transportation equipment. It is the only enterprise in the industry with licensed capabilities for stress analysis. All cylinders are designed and manufactured through an integrated, validated process and hold ASME U, U2, and U3 certifications. CIMC Hydrogen also holds the highest number of international certifications in the industry.

The Company's High-Pressure Gaseous Hydrogen Division currently offers domestically designed hydrogen storage tank groups with working pressures of 22MPa, 27.6MPa, 50MPa, and 99MPa, and internationally designed versions up to 103MPa. Individual cylinder volumes range from 500L to 4,000L, and configurations can be tailored to specific customer requirements.

Product Features

- Made of seamless steel with spin-formed monoblock construction
- Flexible volume options and configurations to meet user needs
- Uses mature and reliable quenching processes for improved performance consistency and microstructural stability
- 20-year service life with low depreciation rates
- Flexible cascade arrangement for efficient space utilization

Product Advantages:



Hydrogen embrittlement resistant

Fatigue resistant

High safety and reliability

Fully customizable

Space-saving design



45MPa High-Pressure Hydrogen Storage Tank Groups



Appendix: High-Pressure Gaseous Hydrogen Storage and Transportation Equipment

▶ Hydrogen Tube Trailer

CIMC Hydrogen offers a full range of hydrogen tube trailer models featuring rigorous process design and manufacturing standards to ensure safety and reliability. Through continuous technological upgrades, the trailers now offer higher hydrogen loading capacity and improved discharge rates, significantly reducing energy loss and transportation costs—delivering more economical solutions for customers.

The Company’s High-Pressure Gaseous Hydrogen Division currently supplies a variety of tube bundle container models, including: Type I seamless steel tube bundle containers (20MPa), Type II steel-lined fiber-wrapped tube bundle containers (20MPa/30MPa), Type III compressed hydrogen gas aluminumliner carbon fiber fully-wrapped cylinder container (52MPa). In Q1 2025, the company successfully delivered and commissioned China's first 30MPa hydrogen tube trailer.

Product Features:

- Specially designed for hydrogen storage and transportation
- Multiple cylinder configurations available: Type I and Type II options
- Customizable to meet specific customer requirements
- Suitable for scenarios within a transportation radius of 300km
- Maximum working pressure up to 30MPa
- Hydrogen payload of up to 627 kg

Product Advantages:



Hydrogen embrittlement resistant



High fatigue resistance



Safe and reliable



Customizable configurations



High unloading efficiency



Low transportation cost



氢气长管拖车



Appendix: Liquid Hydrogen Storage and Transportation Equipment

CIMC Enric's liquid hydrogen (LH₂) solutions have received multiple accolades, including the "National Key New Product" and "Jiangsu Province First (Set) Major Equipment and Key Component" certifications. The mobile design that integrates LH₂ storage tanks with flatbed trailers leads the industry domestically. This equipment has operated fault-free for nearly a decade and has successfully supported national aerospace launches, earning high praise from end-users and commendations from supervisory authorities.

▶ Liquid Hydrogen Storage Tank

Category: Stationary pressure vessel

Application: LH₂ storage for hydrogen refueling stations, LH₂ plants, and hydrogen gasification stations

Volume Range: 5–500 m³

Pressure Range: 0.4–1.2 MPa

Key Advantages: Compact layout, easy installation, stable operation, simple control, excellent insulation performance

▶ Liquid Hydrogen Semi-Trailer

Category: Mobile pressure vessel

Application: Transportation of LH₂

Volume Range: 5–50 m³

Pressure Range: ≤1.2 MPa

Key Advantages: High hydrogen density, enables direct delivery from LH₂ plant to end user, minimizes boil-off loss during transfer, low cost, high safety, suitable for medium-to-long distance transport

▶ Liquid Hydrogen Tank Container

Category: Mobile pressure vessel

Application: Domestic transport, international intermodal transport, and mid-term storage of LH₂

Volume Range: 19–40 m³

Pressure Range: ≤1.2 MPa

Key Advantages: High hydrogen density, enhanced safety, flexible logistics, low storage and transportation cost, supports sea-land intermodal transport



Successfully rolled out China's first commercial liquid hydrogen tanker trailer.

▶ Liquid Hydrogen Storage Spherical Tank

Category: Stationary pressure vessel

Application: LH₂ production facilities

Volume Range: 300–2,500 m³

Pressure Range: ≤1.2 MPa

Key Advantages: Large-scale storage capacity, high energy density, ideal for large hydrogen energy storage stations

▶ Onboard Liquid Hydrogen Cylinder

Category: Type B

Application: Hydrogen supply for fuel cells and internal combustion engines

Volume Range: 500–1,200 L

Pressure Range: ≤1.2 MPa

Key Advantages: High efficiency, high integration, extended range, lightweight, superior safety, fast refuelling

Appendix: Hydrogen Refuelling Stations and Core Equipment

Fixed Hydrogen Refuelling Stations

Leveraging years of experience in the design, manufacturing, and construction of refueling stations, CIMC Enric has developed fixed hydrogen refuelling stations in multiple cities including Guangzhou, Baoding, and Zhucheng. These stations are built in accordance with both domestic and international hydrogen refuelling standards. In 2021, the Company successfully delivered Hebei Province's first integrated "Oil-Gas-Hydrogen" service station, supporting infrastructure development in the Xiong'an New Area.

CIMC Enric is one of the few companies in the industry with high in-house production capability for core hydrogen refuelling station components. The Company independently develops, designs, and manufactures diaphragm compressors, liquid-driven compressors, hydrogen dispensers, and vent stacks, enabling it to offer end-to-end hydrogen station solutions, highly recognized by clients across the industry.



First Integrated "Oil-Gas-Hydrogen-Electricity" Service Station in Hebei's Xiong'an New Area

- Supporting Xiong'an's foundational infrastructure, equipped with 12 hydrogen storage tanks, 2 LNG tanks, 2 gasoline tanks, 2 diesel tanks.
- On-site facilities include 2 × 35MPa hydrogen dispensers, 3 LNG dispensers, 3 fuel dispensers
- Refuelling capacity: Hydrogen: 1,000 kg / 12 hours; Oil: 30 tonnes / day; LNG: 24,000 Nm³ / day
- Capable of serving vehicles using oil, gas, or hydrogen energy simultaneously

Key Advantages



Real-time monitoring



Enhanced safety



More efficient



Cost-effective



Intelligent operations



Diaphragm Compressor (Mother Station / On-site)



Liquid-driven Compressor



Hydrogen Dispenser

Appendix: Hydrogen Refuelling Stations and Core Equipment

▶ 70MPa Skid-Mounted Fully Integrated Hydrogen Refuelling Station

In January 2022, CIMC Hydrogen's Integrated Systems Division successfully delivered its self-developed 70MPa skid-mounted fully integrated hydrogen refuelling station to the Wanquan Oil-Hydrogen-Electricity Integrated Service Station in Zhangjiakou, Hebei. This station set multiple domestic records in hydrogen refuelling technology.

① China's First

Refuelling system that meets SAE J2601 T40 protocol, and equipped with infrared data communication.

③ China's First

Unit with integrated skid-mounted safety system and the first to feature a large-format integrated display panel.

⑤ China's First

Fully assembled explosion-proof skid-mounted hydrogen refuelling unit.

② China's First

All-in-one integrated hydrogen unit combining discharge, compression, control, and AI-powered monitoring system.

④ China's First

Multi-source refuelling system supporting both 20MPa and 30MPa hydrogen trailers.

⑥ China's First

Integrated explosion-proof skid-mounted water cooling system.



This pioneering hydrogen refueling station was also successfully deployed during the 2022 Beijing Winter Olympics, supporting 70MPa hydrogen refueling applications.

Product Highlights:

- Compatible with 20MPa and 30MPa hydrogen trailer gas supply.
- Equipped with internal water cooling and cryogenic cooling unit.
- Complies with SAE J2601 standards with outlet temperatures between -33°C and -40°C.
- Operating pressure of 90MPa; refuelling pressure ranges from 70–87.5MPa.
- AI-enabled smart monitoring system ensures standardized and safe operations.
- Infrared communication enhances vehicle hydrogen tank safety by transmitting pressure and temperature data.



Appendix: Hydrogen Refuelling Stations and Core Equipment



EFS-HYQ35-120-02 Compact Skid-Mounted Hydrogen Refueling Unit

Key Advantages:



Compact layout



High level of integration



Easy installation



Easy maintenance



Rapid deployment



Plug-and-play functionality

▶ Third-Generation 35MPa Compact Skid-Mounted Hydrogen Refuelling Station

Product Features:

- Designed for refuelling hydrogen fuel cell vehicles
- Utilizes standard cylinder bundles or long tube trailers as the hydrogen source
- Maximum inlet pressure: 200 bar
- Outlet pressure can be boosted up to 450 bar via liquid-driven booster
- Refuelling flow rate up to 10 kg/h
- Inlet pressure range: 0–250 bar



Successfully supported the launch of Hong Kong's first hydrogen refuelling station and the city's first hydrogen-powered bus.



Appendix: On-board Hydrogen Storage Cylinders and Hydrogen Supply Systems

▶ Type III On-board Cylinders and Hydrogen Supply Systems

In 2017, CIMC Enric successfully developed 35MPa Type III fully-wrapped carbon fiber composite cylinders with aluminum liner, which have passed international type approval certification. These cylinders feature a clean appearance, high gravimetric efficiency, excellent consistency, and superior safety. They can provide a hydrogen storage capacity of 2.5–4.7 kg, hydrogen storage capacity: 28–52 m³.

CIMC Enric, in collaboration with hydrogen fuel cell system partners, has jointly developed hydrogen power systems based on Type III cylinders. In early 2025, the Company achieved a significant industry milestone by securing its first European order, with CIMC Safeway successfully obtaining TPED certification and delivering Type IV high-pressure hydrogen cylinders in batches to Europe.

Product Features

- Equipped with German Roth 5-axis dual-carriage, 3-position filament winding machines, and intelligent control systems, ensuring high production efficiency and process stability
- Hydrogen density (hydrogen weight/cylinder weight × 100) reaches 5.6–6%
- Hydrogen storage system frame complies with 8g crash impact test requirements and can be tailored for low-temperature operational environments
- Proven durability with over 20,000 fatigue cycles, and burst pressure exceeding 120 MPa, far surpassing national standards

Product Advantages



Intelligent manufacturing



High density



Cryogenic-resistant



Enhanced safety



More efficient



Lifetime warranty





Appendix: On-board Hydrogen Storage Cylinders and Hydrogen Supply Systems



▶ Type IV On-board Cylinders and Hydrogen Supply Systems

In 2021, CIMC partnered with Hexagon Purus, a global leader in Type IV hydrogen storage cylinders and supply systems, to jointly establish Asia's largest Type IV cylinder production facility. This strategic collaboration aims to deliver safer, more efficient, and more cost-effective hydrogen fuel cell system solutions to global customers.

Currently, CIMC offers a wide range of Type IV hydrogen cylinders with working pressures of 25MPa, 30MPa, 50MPa, 70MPa, and 95MPa, with various configurations available to meet customer needs.

Product Features

- High-strength carbon fiber structure reduces impact, degradation, and fatigue
- Lightweight design enhances vehicle performance, drivability, and fuel economy
- Corrosion resistance and fatigue durability ensure long cycle life
- All safety-critical performance indicators have passed rigorous testing

Product Advantages



Corrosion resistant



Fatigue resistant



Lightweight



Enhanced safety



High efficiency



Cost effective



Appendix: Ammonia-Hydrogen Storage and Transportation Equipment

▶ Medium-to-low-pressure compressed hydrogen storage

Medium-to-low-pressure compressed hydrogen storage is currently the most feasible form of physical hydrogen storage. In response to the requirements for high-capacity, large-volume, and safe hydrogen storage, the CIMC Hydrogen Energy – Ammonia-Hydrogen Division offers a medium-to-low-pressure hydrogen storage solution utilizing large-capacity spherical tanks.

To date, the division has successfully delivered and commissioned several compressed hydrogen storage projects, including: one 200m³ hydrogen spherical tank for Anyang Steel, two 1,500m³, two 500m³, and one 300m³ hydrogen spherical tanks for Feilihua in Jingzhou. All systems have been operating smoothly and reliably.

Product Features

- Suitable for the safe and efficient storage of high-capacity compressed hydrogen
- Scalable to large volumes — single-tank capacity can exceed 10,000 m³
- Small footprint with vertical scalability
- Uniform stress distribution enables significant steel savings and greater economic efficiency
- Requires on-site welding, with high construction standards

Product Advantages



Hydrogen embrittlement resistant



Fatigue resistant



Safe and reliable



Customizable Easy to operate



Low operation and maintenance costs



Hubei Jingzhou, Hydrogen Balloon Tank Project



Appendix: Development Milestone of the Liquid Food Segment

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

1852



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

1865



CIMC Enric acquired Holvrieka

2007



Production facility in **Nantong**, China was established.

2009



Ziemann International GmbH joined CLPT.

2012



2016

Acquired **Briggs**, a long-established distillation equipment manufacturer in the UK.



2019

Acquired **DME**, a Canadian manufacturer of craft beer brewing equipment.



2020

Acquired **McMillan**, a Scottish specialist manufacturer of handcrafted copper stills.

clpt CIMC Liquid Process Technology

2021

Officially renamed to **CIMC Liquid Process Technology (CLPT)**.



2023

Acquired **Künzel**, a German expert in raw material handling solutions for the front end of brewing production lines.



Appendix: Liquid Food Segment – Grain Handling Solutions at the Front End of Production Lines



Acquisition of Künzel

- ❑ Founded in 1922 and headquartered in Germany, Künzel is a leading medium-sized machinery manufacturer specialized in the global beverage and beer brewing industry.
- ❑ Through this acquisition, CIMC Enric now offers end-to-end grain handling solutions from malt to mash, including equipment development, installation, upgrading, and comprehensive turnkey engineering services.



Comprehensive Business Capabilities

Turnkey Engineering Services

- Künzel designs and builds new production facilities in compliance with the highest safety and ATEX standards, delivering full-scope project services.
- The company covers all phases of the project—from planning and engineering to spare parts supply and post-installation maintenance.
- Künzel undertakes both greenfield projects and facility expansions or upgrades.



Individual Components

- Künzel also offers standalone components from its full production lines as individual product solutions.
- All equipment is in-house manufactured and ATEX-compliant.
- Representative products include:



Chain conveyors



Grain crushers



Rice/barley/corn milling machines



Flat screen separators

Spare Parts & Service



- Künzel provides comprehensive after-sales services for its global installed base.
- Services include: Spare parts supply, routine inspections, system overhauls, equipment repairs and maintenance



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