

# CIMC ENRIC

3899.HK

## ENERGY EQUIPMENT SOLUTIONS & EPC PROJECTS

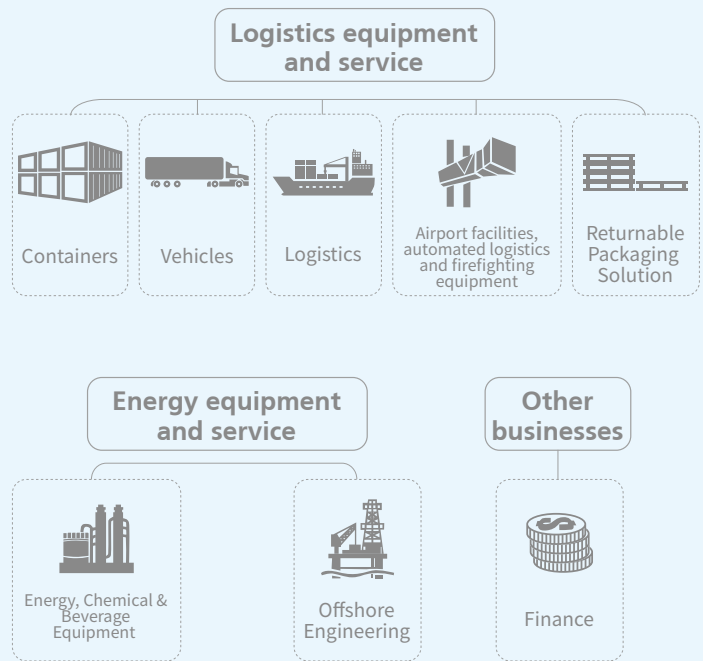


# About the CIMC Conglomerate

China International Marine Containers (Group) Co., Ltd. (CIMC) is a publicly held global leader in specialty engineered and commodity solutions servicing multiple applications in the Energy and Industrial Gas markets.

## A Diversified Multinational Industrial Conglomerate Serving the World

- Headquartered in Shenzhen, China
- Comprised of 4 listed companies and more than 300 member companies in Asia, North America, Europe, and Australia.
- Extensive marketing network covering more than 100 countries and regions.

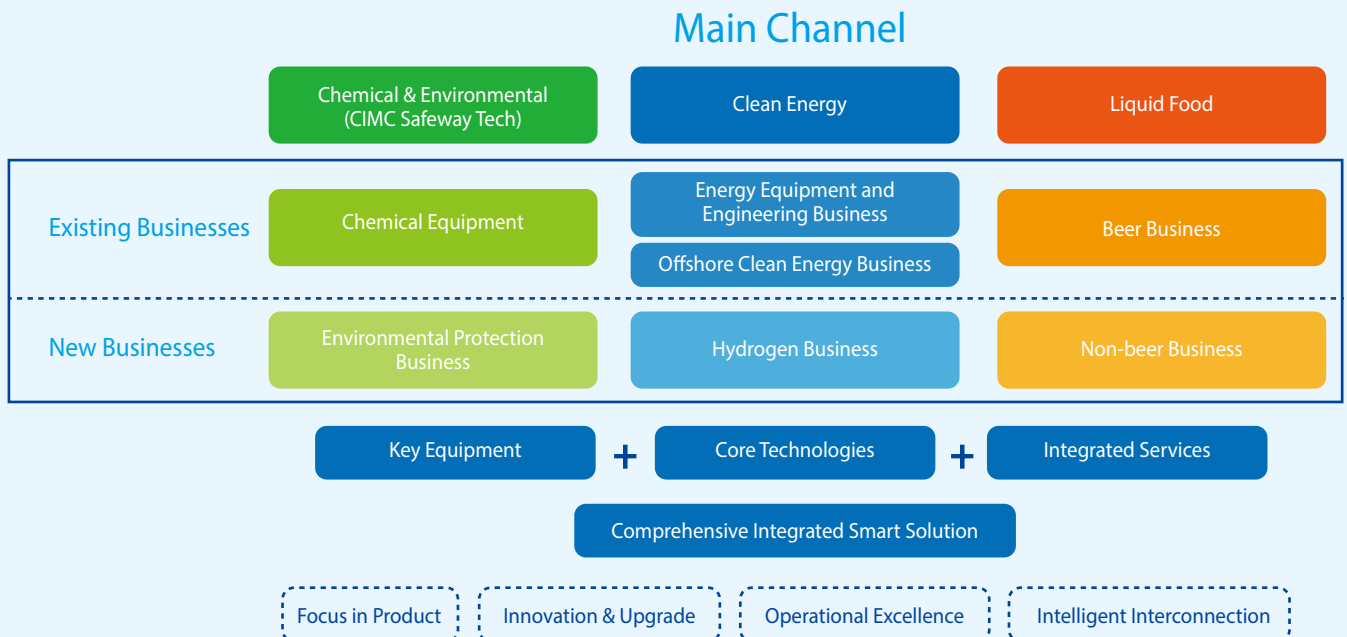


# About the CIMC ENRIC

CIMC ENRIC Holdings Limited (hereinafter referred to as "CIMC ENRIC") is one of the listed companies on the Hong Kong Stock Exchange (Stock Code: 3899.HK).

The subsidiary, CIMC ENRIC, is an energy, chemical and beverage equipment business unit of CIMC which delivers focused manufacturing of cryogenic storage & transportation related equipment along with specialized engineered solutions worldwide.

## Strategic Layout of Three Major Segments



# Energy Equipment and EPC Business Center

CIMC launched its operation in 2016 by integrating 10 core business units under a single centralized entity, CIMC ENRIC Energy Equipment (Suzhou) Co., Ltd. in the effort to more efficiently deliver a value message in packaged solutions "key equipment + core technologies + integrated service" to its patrons by way of leveraging synergy.

## Main Manufacturing Base



Sanctum (Zhangjiagang)



Nantong CIMC Energy Equipment



Hongtu (Jinmen)



Shijiazhuang Enric Gas Equipment



CIMC Enric Cryogenic Technology



CIMC Enric Engineering Technology



Enric (Langfang) Energy Equipment Integration



Enric (Benbu) Compressor



LFTS(Germany)

## An Integrated Value Proposition



### Equipment Manufacturing

- Trailer, Tank, Cylinder, Station, ISO Tank Container;
- Advanced Euro-American Technology;
- Cost Competitive Manufacturing;



### EPC Service

- Consulting
- Designing
- Engineering
- Procurement
- Construction



### Turnkey Solutions

- Distribution & Equipment Storage, EPC and packaged solution for Natural Gas(LNG/CNG), Industrial Gas, LPG/Propylene/Liquid Ammonia, etc.,
- Equipment Leasing, Logistic solutions;
- Financial Services;



### Smart Solutions

- Anjihui Intelligent Terminal;
- Anjihui IOT Cloud Platform;



### Service Support

- Professional Aftermarket Service Network;
- Spare Parts;

# Our Products

CIMC ENRIC has one of the world's leading manufacturing and R&D centers for LNG, CNG and LPG energy distribution & storage equipment. Our product has been delivered to more than 100 regions in the Asia Pacific, Europe, the Americas, and Africa.



## Cryogenic ISO Tank Container :

01

**Specification:** 10ft, 20ft, 40ft, 45ft

**Medium:** LNG, LIN, LOX, LAr, LCO<sub>2</sub>, LN<sub>2</sub>O, LC<sub>2</sub>H<sub>4</sub>, LC<sub>2</sub>H<sub>6</sub>, Lhe, LH<sub>2</sub>



## Tube Skid/ Models, MEGC for industrial Gases, CNG and electronic gases applications

02

**Skid/Models & MEGC Specification:** 20ft, 40ft

**Medium:** H<sub>2</sub>, CNG or Specialty Gases, Such as: SiH<sub>4</sub>, NF<sub>3</sub>, N<sub>2</sub>O, SF<sub>6</sub> and Mixed Gases, etc.,

### Features:

- Our Tube Skid/Models are designed to maximize payload as well as economy and can be used as a shipping container or stationary storage;
- With ABS approval and IMDG, CSC, TIR and US-DOT or ISO Certificates, etc., our MEGC is suitable for international transportation.
- Through internal treatment, polishing, rinsing process, our MEGC or Skid/Models meets industry mandates on moisture content, internal cleanliness, and roughness. It is also applicable for electronic application.



## Tube Trailer for Industrial Gases or CNG Transportation

03

**Tube Specifications:** DOT/DOTUN, ISO11120, TC, KGS, GB etc. per customer requirement;

**Medium:** H<sub>2</sub>, He, N<sub>2</sub>, Ar, CNG etc.,

### Features:

- Our tube trailer offering provides a wide range of standardization and is designed to achieve the maximum payload and pressures often required in the industry;
- The tube trailer can be customized into 8, 9, 10 or even 12 tubes configurations;
- Our comparatively light weight, safe and durable tube trailers is a efficient and economical way for transport and delivery of industrial gases or CNG.



## Cryogenic Liquid Storage Tanks

04

**Insulation type:** Perlite Powder Vacuum Insulation or High Vacuum Multi-layer Insulation

**Capacity:** ≤350m<sup>3</sup>

**Operating pressure:** ≥0.1MPa

**Medium:** LOX, LIN, LAr, LCO<sub>2</sub>, LC<sub>2</sub>H<sub>4</sub>, LH<sub>2</sub>, LN<sub>2</sub>O, LNG



## Microbulk Storage Tanks

05

**Insulation type:** High Vacuum Multi-layer Insulation

**Capacity:** 455L、1000L、2000L、3000L、4990L、6000L

**Operating pressure:** 1.6MPa、2.6MPa、3.45MPa

**Medium:** LOX、LIN、LAr、LCO<sub>2</sub>、LN<sub>2</sub>O、LNG

# Our Products



## LNG Marine Tank

06

**Insulation type:** Perlite Powder Vacuum Insulation or High Vacuum Multi-layer Insulation

**Capacity:** 3m<sup>3</sup>~14000m<sup>3</sup>

**Operating pressure:** 0.3MPa~1.2MPa

**Arrangement type:** Single/dual system of single cabin

**Classification society:** CCS, BV, DNV-GL, ABS, LRs



## LNG Semi-trailer

07

**Insulation type:** High Vacuum Multi-layer Insulation

**Capacity:** 52.6m<sup>3</sup>

**Operating pressure:** 0.65MPa



## Industrial Gas Semi-trailer

08

**Insulation type:** High Vacuum Multi-layer Insulation

**Capacity:** 11.63~37.4m<sup>3</sup>

**Operating pressure:** 0.3MPa~1.6MPa

**Medium:** LOX, LIN, LAr



## LPG Semi-trailer

09

**Capacity:** 30m<sup>3</sup>~70m<sup>3</sup>

**Operating pressure:** 1.61MPa~3.58MPa



## LNG Refueling Station

10

**Include :**

Unloading System, LNG Storage System , PBU System,

Evaporation System, Gas Storage System, Gas Filling & Metering System,

Automatic-Control System and Alarm System.

# Our Products



## LNG Vehicle Cylinder

11

**Insulation type:** High Vacuum Multi-layer Insulation

**Specification:** 150L ~ 2000L

**Working pressure:** 1.37MPa ~ 1.59MPa

**Applied Code:** GB

**Features:** Excellent Insulation along with the newly developed pressed framework which offers our lighter weight, better uniformity solution.



## Hydrogen-Upstream Boosting

12

**Capacity:** 5600/Nm<sup>3</sup>h ~ 13500/Nm<sup>3</sup>h    **Inlet Pres:** 1.5Mpa ~ 2.2Mpa

**Outlet Pres:** 6.0Mpa    **Power:** 400Kw ~ 1000Kw    **Suitable Type:** 4M6.5 ~ 4M16

**Features:** The compressor pressurizes the low-pressure hydrogen to 60 bar without oil through the hydrogen drying device which adsorbs and dries the hydrogen, removing impurities at one time, outputs the product hydrogen, and then pressurizes it to 21MPa through the diaphragm compressor to fill the bottle to supply energy to the hydrogen refueling station.



## Large-size Cryogenic Liquid Normal-Pressure Tank

13

**Specification:** 200m<sup>3</sup>~50000m<sup>3</sup>

**Working pressure:** 10kPa~25kPa

**Medium:** LOX, LIN, LAr, LNG, LC<sub>2</sub>H<sub>4</sub> and etc.,



## LNG Vaporization Station / Peak Shaving Station

14

LNG vaporizing station is often referred to as LNG satellite station, and it's an intermediate regulating place used to receive, store, distribute and vaporize LNG from the manufacturers to the users, with advantages of speedy construction periods which is often the demand in gas markets. Our LNG vaporizing stations have been built in many economically developed, energy-deficient, small and medium sized cities.



## LPG Spherical Tank

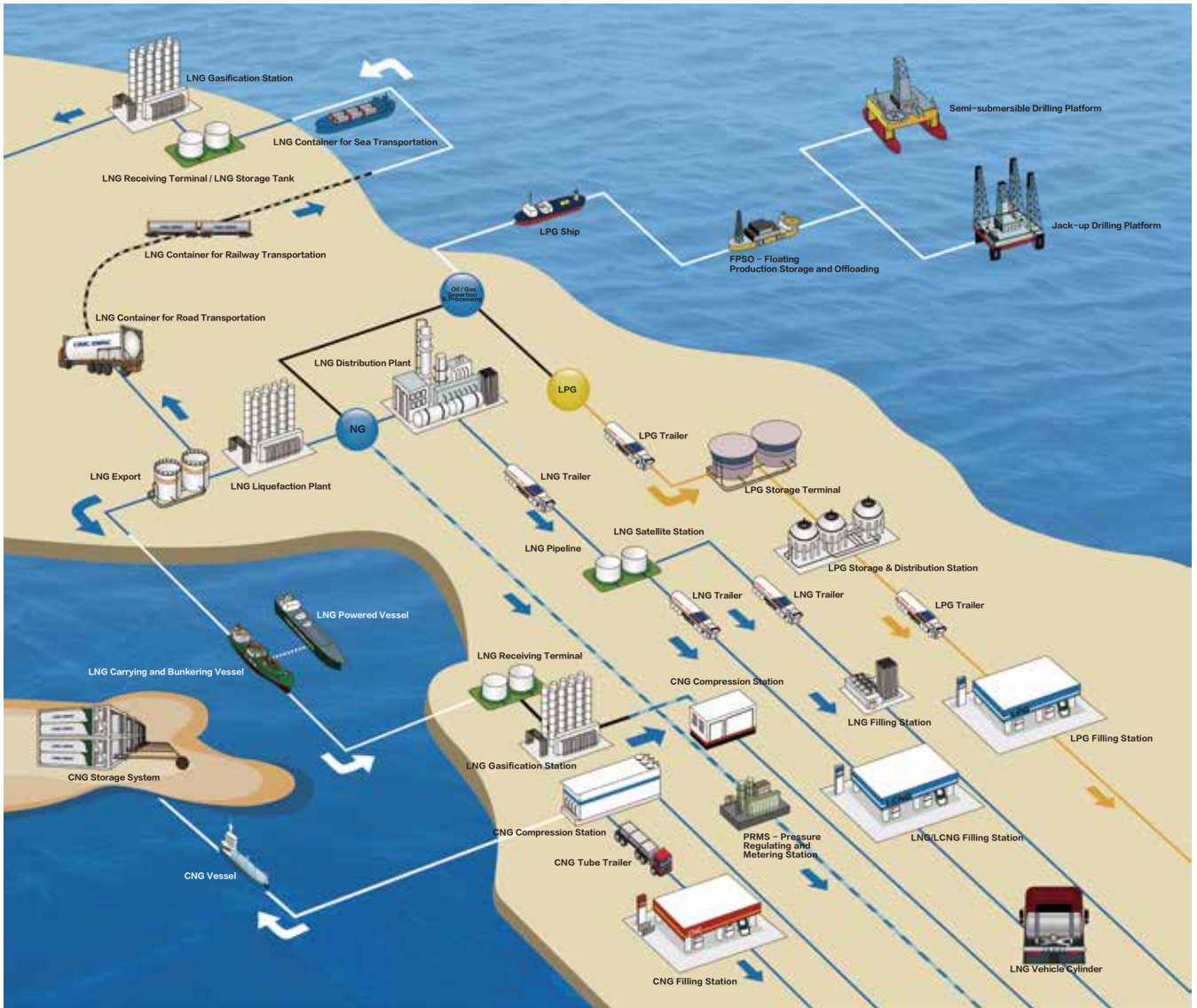
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**Specification:**

50m<sup>3</sup>~10000m<sup>3</sup> liquefied gas spherical tank,

200m<sup>3</sup>~20000m<sup>3</sup> gas spherical tank;

# Total Solutions of Energy Equipment



**CIMC ENRIC**

3899.HK

CIMC ENRIC is a leading key equipment manufacturer and integrated engineering services provider aiming to realize the entire industrial chain layout of natural gas and industrial gas!

# Integrated Solution for LNG Tanks and Containers Multimodal Transportation

One-Stop Flexible Gas Import and Logistics Service



CIMC ENRIC is one of the world's largest manufacturer of cryogenic ISO tanks and containers with four major cryogenic ISO container manufacturing plants and annual production capacity of 6000-10000 cryogenic ISO containers.



**CIMC ENRIC Energy Equipment and Engineering Business Center**  
**CIMC ENRIC Energy Equipment (Suzhou) Co., Ltd**

Address: Suzhou City, Jiangsu Province, high-speed rail new city South Tiancheng Road 99,  
 Tsinghua Ziguang Building 15th and 16th floor Contact: 86-512-69571032

**ISO Container Product:**

Contact No.: 86-512-69591578  
 E-mail: contactus@cimc.com  
 gary.peng@cimc.com



## 20ft Tank Container for Refrigerated Liquefied Gases

MAWP (MPa)	Sealing-off Vacuum Degree(Pa)	NER (%/d LN <sub>2</sub> )	Capacity (m <sup>3</sup> )	Tare Weight (KG)
0.48-4.0	0.08	0.34	20.2~22	6800~12100



## CCUS-CO<sub>2</sub> Storage & Transportation

Type	Standard	MAWP (MPa)	Daily Pressure Rise Rate (KPa)	Capacity (m <sup>3</sup> )	Tare Weight (KG)
20ft Swapbody	GB/ASME	2.2	<80	27	7900
30ft	GB/ASME	2.2~3.5	<80	25.5~28.5	8300~16000



## 40ft Tank Container for Refrigerated Liquefied Gases

MAWP (MPa)	Sealing-off Vacuum Degree(Pa)	NER (%/d LN <sub>2</sub> )	Capacity (m <sup>3</sup> )	Tare Weight (KG)
0.48-1.0	0.08	0.22~0.24	43~52.5	10000~13400



## 40ft Liquid Hydrogen, Liquid Helium Cryogenic Tank Container

Medium	Design Code	MAWP (MPa)	Capacity (m <sup>3</sup> )	Tare Weight (KG)	Load Weight (KG)
LH <sub>2</sub>	ASME	1.2	40~40.4	16160~18850	2550
LHe	ASME	1.2	40.5	18850	4500~4550



## 45ft Tank Container for Refrigerated Liquefied Gases

MAWP (MPa)	Sealing-off Vacuum Degree(Pa)	NER (%/d LN <sub>2</sub> )	Capacity (m <sup>3</sup> )	Tare Weight (KG)
0.48-1.0	0.08	0.22	52.5~56.7	11400~14800



## 53ft Tank Container for Refrigerated Liquefied Gases

MAWP (MPa)	Sealing-off Vacuum Degree(Pa)	NER (%/d LN <sub>2</sub> )	Capacity (m <sup>3</sup> )	Tare Weight (KG)
0.48-1.0	0.08	0.21	65.7	15500~17000



# Mini Bulk Tank Gas Supply Solution

Industrial and commercial Fuel Applications



## Structure Advantage

· Reservoir tank, pressurizer, gasifier, pressure regulator, measuring instrument, odorizer, and other pipeline system integrated into a complete gas supply system.

## Intelligent Advantage

· Has the function of remote transmission for liquid level, pressure, temperature and other data to help customers in operation scheduling management.

## Safety Advantage

· With automatic emptying, alarm and automatic cut-off function.



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Contact: 86-512-69571032 E-mail: [contactus@cimc.com](mailto:contactus@cimc.com)

## Specification

Medium	Capacity (m <sup>3</sup> )	Thermal-insulating Type	Working Pressure (MPa)	Size (mm)
LNG	1	Super vacuum multi-layer thermal insulation	1.6/2.6/3.5	1350×1350×2250
LNG	2		1.6/2.6/3.5	1650×1650×2500
LNG	3		1.6/2.6/3.5	1850×1850×2900
LNG	5		1.6/2.6/3.5	2410×2350×3150



· Residents temporary use of natural gas in areas without natural gas pipelines



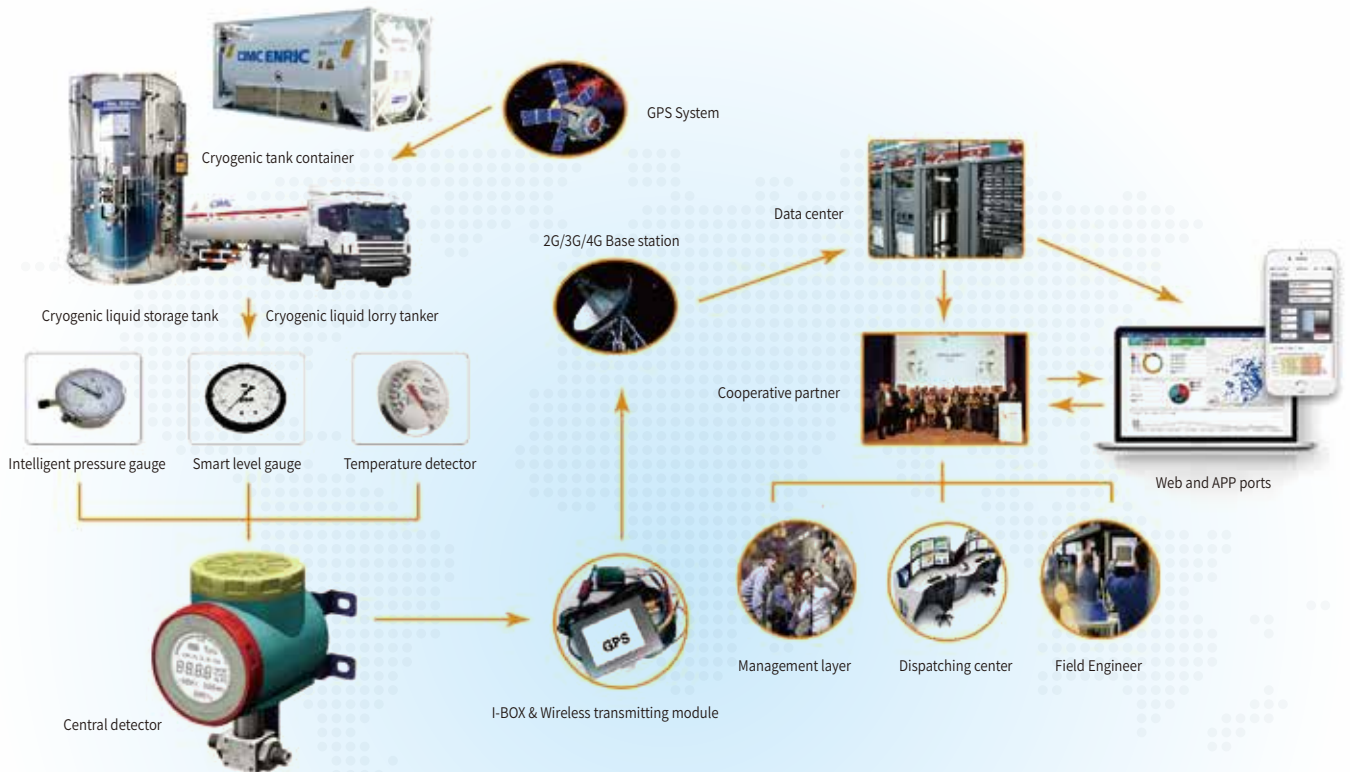
· Small industrial gas and boiler renovation enterprises



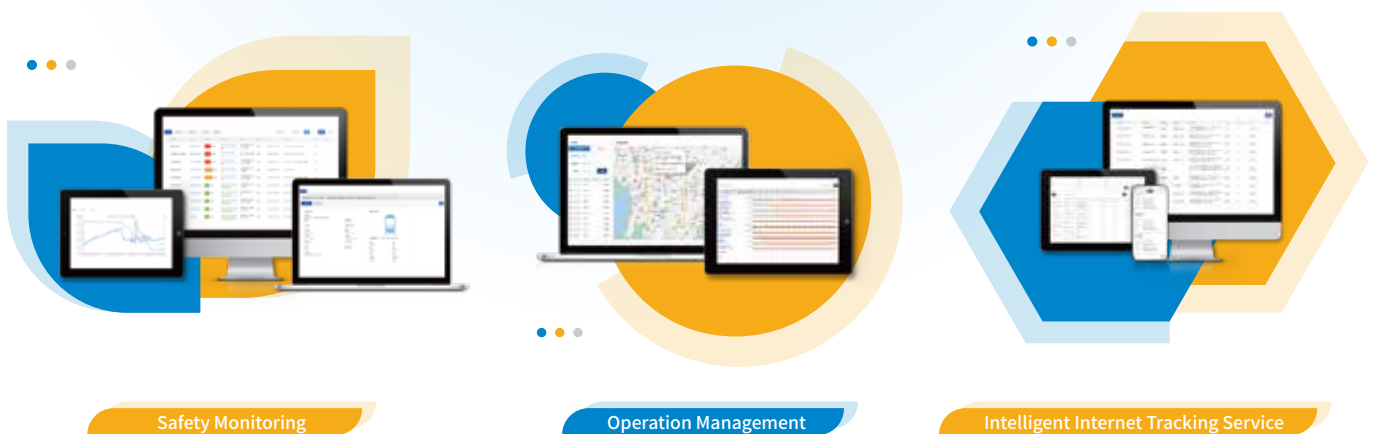
· Aquaculture and gas heating, etc



# ANJIEHUI One-stop “IOT”Solution for Energy Equipment



## SYSTEM APPLICATION









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Address: Suzhou City, Jiangsu Province, high-speed rail new city South Tiancheng Road 99, Tsinghua Ziguang Building 15th and 16th floor  
 Contact: 86-512-69571032    E-mail: contactus@cimc.com    ANJIEHUI Contact: 86-512-69570073    E-mail: anjiejhui@51ajh.com

## ANJIEHUI Intelligent telemetry equipment

ANJIEHUI Intelligent Telemetry equipment uses 2G/3G/4G wireless monitoring function so users can monitor the on-site equipment remotely. With IOT technology along with cloud computing users can easily monitor sensor information of tanks in real time. ANJIEHUI Intelligent Telemetry equipment are widely used in petrochemical, metallurgical machinery, hydraulic power, ships, etc., for the measurement of LO2, LN2, LAr, LCO2, LNG, LPG, CNG, H2, He and more.

	Product name	Display	Waterproof level	Communication	Positioning	Data collection	Power supply	Expensibility
	Intelligent Telemetry Terminal (Tank Type)	OLED liquid crystal display	Aluminum alloy IP65	GPRS, 3G, 4G	BDS, GPS	Differential pressure sensor (0 ~ 250Kpa) Pressure sensor (0 ~ 4.0mpa) Vacuum sensor	The solar energy Or 220V AC or large capacity dry battery	Expandable vacuum, flowmeter, etc
	Intelligent telemetry Terminal (Microbulk Type)	LCD segment liquid crystal display	Engineering plastics (ABS/PC) IP65	GPRS, 3G, 4G	BDS, GPS	Differential pressure sensor (0 ~ 250Kpa) Capacitance sensor (custom)	Large capacity dry battery	
	Intelligent Telemetry Terminal (Tanker Type)	OLED liquid crystal display	Aluminum alloy (collector) IP65	GPRS, 3G, 4G	BDS, GPS	Differential pressure sensor (0 ~ 50Kpa) Pressure sensor (0 ~ 4.0mpa) Temperature transmitter (-200°C ~ +80°C)	12V or 24V on-board power supply	Expandable vacuum, flowmeter, etc
	Intelligent Telemetry Terminal (ISO Tank Container type)	LCD segment liquid crystal display	Aluminum alloy IP67	GPRS, 3G, 4G, Lora,	BDS, GPS	Differential pressure sensor (0 ~ 50Kpa) Pressure sensor (0 ~ 4.0mpa) Temperature sensor (custom)	Large capacity dry battery	
	Intelligent Telemetry Terminal (Tube Trailer Type)	LCD segment liquid crystal display	Aluminum alloy IP67	GPRS, 3G, 4G	BDS, GPS	Pressure transducer Temperature sensor	Large capacity dry battery	

**Intelligent Telemetry Terminal (Tank Type/Microbulk Type)**



**Intelligent Telemetry Terminal (Lorry Tanker Type)**



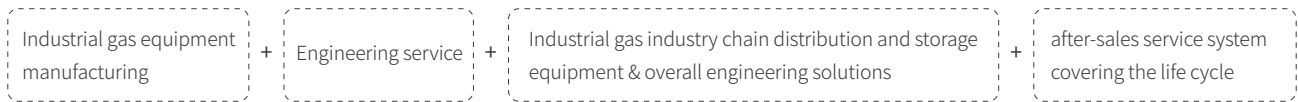
**Intelligent Telemetry Terminal (ISO Tank Container Type)**



# Overall Solution for Industrial Gas Storage & Transportation

CIMC ENRIC is an integrated business service provider with robust equipment manufacturing infrastructure in the industry with:

## An Integrated System:



## A Wide Application in:

Iron and steel, metallurgy, mining, electronics/semiconductor, chemical, mechanical industry, medical and health, metal welding, cutting, food and beverage, etc.

## Industrial Gas Value Supply Chain



## Project Case



**CIMC ENRIC Energy Equipment and Engineering Business Center**  
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Address: Suzhou City, Jiangsu Province, high-speed rail new city South Tiancheng Road 99, Tsinghua Ziguang Building 15th and 16th floor  
 Contact: 86-512-69571032 E-mail: contactus@cimc.com

## Vacuum Insulated Storage Tank



**Insulation:** Evacuated powder insulation and multilayer wound insulation  
**Capacity:**  $\leq 500\text{m}^3$   
**Working pressure:**  $\geq 0.1\text{MPa}$   
**Medium:** LOX, LIN, LAr, LCO<sub>2</sub> and etc.  
**Type:** Vertical, horizontal

## Microbulk gas supply Solutions-AJT



**Insulation:** High vacuum multi-layers thermal insulation  
**Capacity:**  $1\text{m}^3\sim 5\text{m}^3$   
**Design pressure:**  $\leq 3.5\text{MPa}$   
**Medium:** LOX, LIN, LAr, LCO<sub>2</sub> and etc.  
**Applicable area:** Industry, medicine, animal husbandry, gas supply, heating, etc

## Cryogenic ISO Liquid Tank Container



**Insulation:** High vacuum multi-layers thermal insulation  
**Specification:** 10 Feet, 20 Feet, non-standard  
**Capacity:**  $5\text{m}^3$ ,  $20\text{m}^3$   
**Working pressure:** 0.8MPa, 1.6MPa, 2.2MPa, 2.4MPa  
**Medium:** LOX, LIN, LAr, LCO<sub>2</sub>, LN<sub>2</sub>O

## Cryogenic Low-pressure Storage Tank



**Insulation:** Perlite insulation  
**Effective capacity:**  $200\text{m}^3\sim 50000\text{m}^3$   
**Working pressure:** 10kPa~50kPa  
**Medium:** LIN, LOX, LAr  
**Structure feature:** Vertical, falt bottom, single containment or full containment  
**Foundation type:** Concrete foundation with elevated platform

## Cryogenic Liquid Transportation Trailer



**Insulation:** High vacuum multi-layers thermal insulation  
**Capacity:**  $11.63\text{m}^3\sim 39.1\text{m}^3$   
**Design pressure:** 0.3MPa~1.6MPa  
**Medium:** LOX, LIN, Lar  
**Features:** Large volume, light weight, low transportation cost

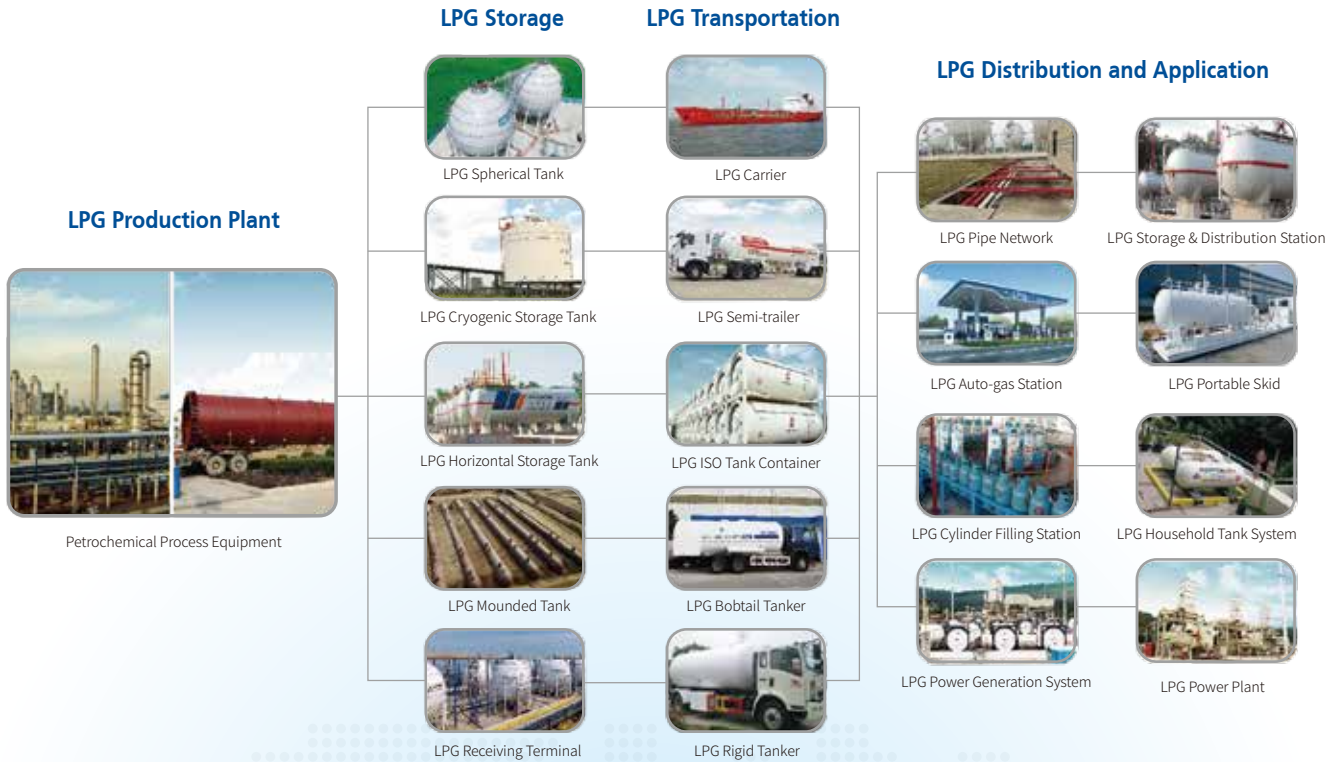
## Cryogenic Thermal-insulating Cylinder



**Insulation:** High vacuum multi-layers thermal insulation  
**Specification:** 175L, 180L, 196L, 210L, 220L, 410L, 450L, 495L  
**Working pressure:** 1.3MPa~2.88MPa  
**Medium:** LOX, LIN, LAr, LCO<sub>2</sub>  
**Type:** Vertical, horizontal  
**Applied code:** GB, GOST

# LPG Product Category

Dedicated to providing customers with LPG overall solutions,  
Provide services throughout the product life cycle to create value for customers



## Upstream of LPG Industry Chain - Heat Exchanger, Tower

Jingmen Hongtu ---a subsidiary of CIMC ENRIC, specializes in designing and manufacturing shell-and-tube heat exchangers and towers, especially a variety of stainless steel and composite steel heat exchangers. Heat exchanger ranges in types of GB/T151, such as fixed tube plate type, U-shaped tube type, floating head type, etc., CIMC ENRIC has the manufacturing capacity of large heat exchanger with nominal diameter up to 4 meters. For large volume towers, CIMC ENRIC offers a 500m<sup>3</sup> option with all kinds of tanks, covering petroleum, chemical, energy and other fields of all media. Design temperature limits reaches -196°C, -70°C for shallow low temperature option, and up 500°C with design pressure up to 100MPa.



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## LPG Industrial Chain Midstream(Storage)-LPG Mounded Tank

Large horizontal mounded storage tank are safer and more economical than spherical options and such has become popular in the storage of propane, butane, vinyl chloride and other inflammable and explosive media. Tank volume generally ranges from 500~4000m<sup>3</sup>. These tanks are mounted on the dry sand foundation, then install the pipeline, settlement monitoring and other subsystems, finally, the sand soil is tightly compacted and finishing landscape is administered.



## LPG Industrial Chain Midstream (Storage) - Spherical Tank Engineering

CIMC Hongtu has extensive expertise in cold and hot forming process on high strength steel, low temperature steel, 9%Ni steel, austenitic stainless steel, composite steel and other special steel. The company has successively undertaken Q345R (RHIC), 15MnNiDR, 09MnNiDR, CF-62, 07MnNiMoDR, 9Ni steel, 316L stainless steel, 316Ti+Q345R composite steel and SA516, SA537CL1, SA537CL2 and other ASME standardized steel type ball tank engineering business with volume of the ball tank ranging from 50m<sup>3</sup>~10000m<sup>3</sup> and the thickness of the shell wall ranging from 14mm to 68mm. CIMC Hongtu has a patent of 9Ni steel spherical tank, and more than 10 structural technology patents on spherical tank pillar, tie rod and platforms.



### 📍 Nigeria: 2x5000 m<sup>3</sup> LPG Reserve Station EPC project

The project construction consisted of three parts: First, two 5000m<sup>3</sup>LPG spherical tanks, then second was a pipeline system, and finally third was an instrument electric control system. Project construction project overcame severe African climate conditions, civil unrest, contaminated water, and an outbreak of an epidemic disease. The successful execution of this project resulted in high praise and a certificate of honor from the owner.



### 📍 Thailand four 2000 m<sup>3</sup> LPG spherical tanks project



### 📍 Malaysia-china Guantan Industrial Park Spherical Tank Project

# LPG Product Category

Dedicated to providing customers with LPG overall solutions,  
Provide services throughout the product life cycle to create value for customers

## LPG Industrial Chain Midstream (Transportation) - Medium Pressure Trailer



Leading category with 48 various models.

Leading technology with more than 30 national patents.

Currently the largest tank trailer manufacturer in Asia delivering more than 12 units per day and 2000 per year.







## Midstream of LPG Industry Chain (Transportation) - Intelligent Upgrade of Hazmat Tanker Trucks



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## LPG Transportation Trailer

<p><b>Main Model</b></p> <p><b>61.9</b></p> <p>LPG</p>  <ul style="list-style-type: none"> <li>· Efficient Volume</li> <li>· Not Overweight</li> <li>· Max Fill 26 tons</li> <li>· -40°C design</li> </ul>	<p><b>The largest volume in China</b></p> <p><b>59.5</b></p> <p>PBR</p>  <ul style="list-style-type: none"> <li>· New models offer increased volume of 0.88 m<sup>3</sup> or 378 kg of product</li> </ul>	<p><b>Primary Offering</b></p> <p><b>49.82</b></p> <p>Anhydrous Ammonia</p>  <ul style="list-style-type: none"> <li>· Excellent cost to performance</li> <li>· Not overweight</li> </ul>	<p><b>Popular model</b></p> <p><b>60.72</b></p> <p>LPG</p>  <ul style="list-style-type: none"> <li>· Light weight design, Weight reduced by 250kg</li> <li>· Efficient cost to performance ratio</li> </ul>	<p><b>The largest volume in China</b></p> <p><b>63.1</b></p> <p>LPG</p>  <ul style="list-style-type: none"> <li>· Light weight design</li> <li>· The largest volume</li> </ul>	<p><b>Large volume new product</b></p> <p><b>58.3</b></p> <p>Mixed LPG</p>  <ul style="list-style-type: none"> <li>· Diversified products, to solve the C4, C5 mixture filling problem</li> </ul>
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## Medium Pressure Tank Trailer Export Products



· Exports to southeast Asia, the Middle East, South America, Africa and other more than 50 countries

· Conform to ASME, TPED and other international certification standards

· Fully Customizable

## Partners



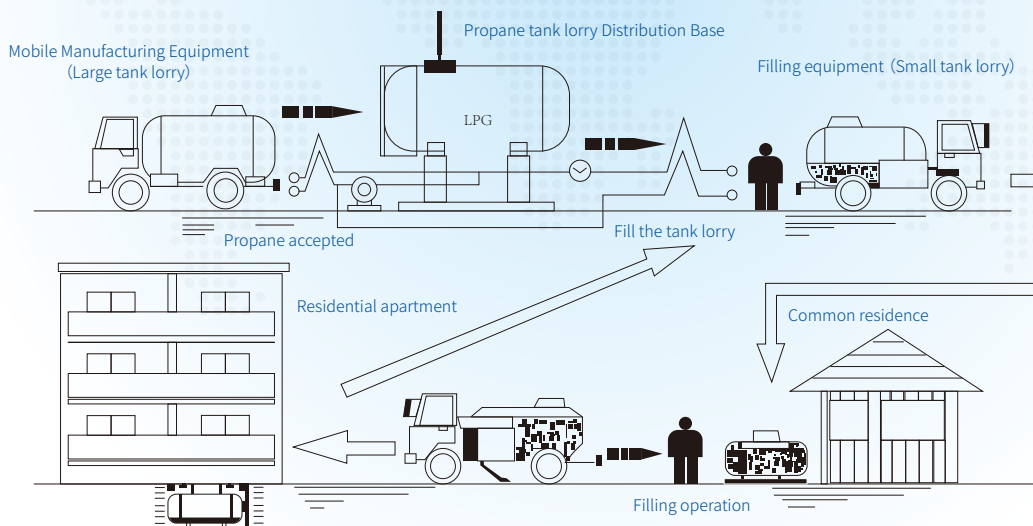
# LPG Product Category

Dedicated to providing customers with LPG overall solutions,  
Provide services throughout the product life cycle to create value for customers

## Downstream of LPG Industry Chain -- Future Development: LPG Intelligent Micro-pipe Network (Gas To The Countryside)

LPG intelligent gas supply system is based on propane tank gas supply technology widely adopted in rural areas of developed countries. It incorporates innovative technologies such as IOT, cloud application and operation scheduling system platform that is comparatively suitable for the market in China.

The system's legacy "self-storage" mode has been upgraded to "centralized supply of gas source, decentralized access of smart micro pipeline network to households, and remote online monitoring of enterprises", This innovation has been revered as a "revolutionary technology that changes the energy consumption structure of Thousands of years in Rural China".



Safe



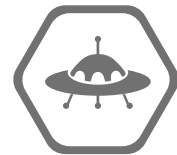
Environmental



Economical



Convenient



Stable

**Remote monitoring:**

Small, fixed storage tank is equipped with safety accessories, fire prevention facilities and remote monitoring alarm system.

**Professional Management:**

An entire fleet of gas supply facilities with tank trailers equipped with property rights and daily management/Maintenance to avoid dangerous non-professional operating conditions.

**Clean energy:**

no "BOG" emissions from propane, low carbon environmental protection and Significantly reduced pollution.

**Reduced Links:**

The distribution mode "gas-end user" greatly reduces the distribution loss.

**No need to Fill Bottles:**

Limits labor costs. Use of short-distance pipelines solve conserves on labor costs.

**Cost reduction:**

The cost of site selection and construction is much lower than that of ordinary gas stations.

**Convenient:**

Can be installed in adverse environment. It is the best application for areas that cannot be supported by pipelines.

**Highly Efficient:**

Fixed tank gas supply facilities which equipped with remote level monitoring facilities can send the remote signal to the monitoring platform to alert the user when the tank level is reduced to below the warning line.

**Medium stability:**

High purity Propane is in line with GB11174, little impact on the safety of equipment pipeline use.

**Stable storage:**

Propane can be stored at normal ambient temperature without storage loss.



**CIMC ENRIC Energy Equipment and Engineering Business Center**  
**CIMC ENRIC Energy Equipment (Suzhou) Co., Ltd**

Address: Suzhou City, Jiangsu Province, high-speed rail new city South Tiancheng Road 99, Tsinghua Ziguang Building 15th and 16th floor  
Contact: 86-512-69571032 E-mail: contactus@cimc.com

## Application Area

In addition to supplying gas to farmers LPG micro intelligent network can also support the modernization efforts in agricultural and rural areas such as the drying of agricultural products, livestock breeding, aquaculture temperature control , agricultural machinery along with other new agricultural applications.

Jingmen Hongtu Special Aircraft Manufacturing CO.,LTD. has come together with China GAS to take the lead in exploring micro rural LPG pipeline construction based on the operation management of the digital small LPG (liquefied petroleum gas) tanks and special pump tank trailer which will be put into use in Qinghai, Yunnan and Hubei.



LPG small tank - Horizontal



LPG small tank - Vertical



LPG tank lorry with pump

The company's tank truck with pump refers to the laws and standards of Europe, the United States, Japan, South Korea, China Hongkong and other countries and regions in the design, to achieve the integration of nine safety protection functions of safety protection system, greatly improving the safety performance of the product.

### Truck mismovement prevention device

Vehicle mismovement alarm interlock in unloading mode

### Gas leak alarm

Medium leak alarm interlock in unloading mode

### Collision alarm

Interlock for accidental collision alarm in unloading mode

### Accidental opening device of rear operation box

Alarm interlock of accidental opening of rear operation box in unloading mode

### Remote control switch

Remote control to start, suspend and stop unloading

### Emergency stop device

Fast stop of unloading under emergency condition

### Height detection device

Assist driver to judge the passability of tank truck with pump

### Central control system

The control center of the safety protection system located in the cab

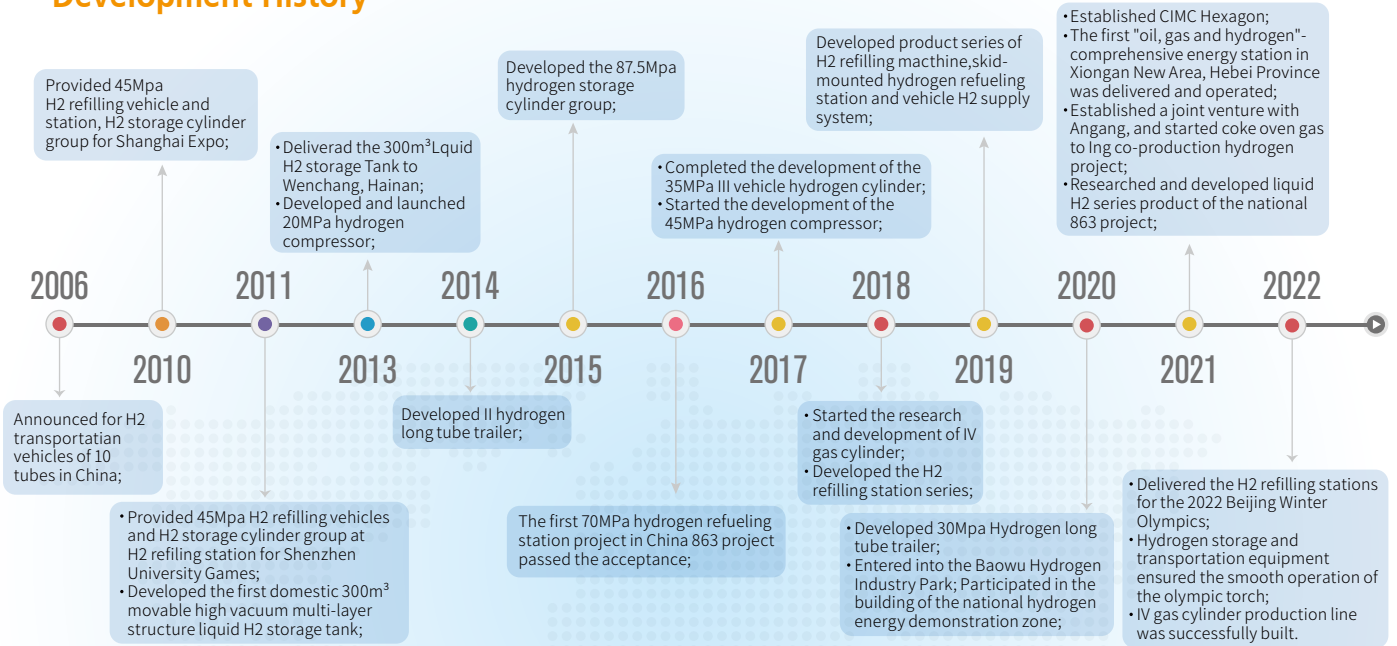


### Emergency valve

In the unloading mode, it can effectively prevent a large amount of medium leakage due to the disconnection of the unloading pipeline caused by external force

# CIMC Enric Hydrogen Business

## Development History



## CIMC ENRIC Hydrogen Development Strategy



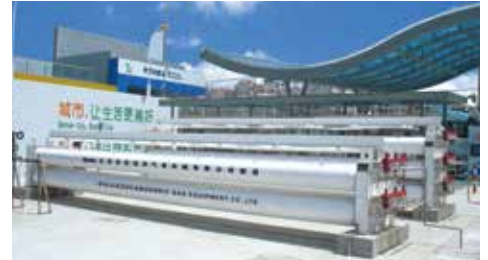
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## Hydrogen Distribution & Storage Products



Tube Skid, Long Tube Bundle Trailer(First market share in China)



Hydrogen Storage Vessels in Shanghai World Expo Hydrogen Refueling Station



Liquid Hydrogen Storage Tank delivered in Hainan Wenchang Satellite Launch Base



Hydrogen Storage Vessels delivered to the Dalian Tongxin Hydrogen Refueling Station

## CIMC ENRIC Vehicle-mounted Hydrogen Supply System

The vehicle-mounted hydrogen supply system is composed of a hydrogen storage cylinder group, a valve pipeline system (including a one-way valve, metering valve, solenoid valve, pressure reducing valve, safety valve, hot-thrombolytic needle valve, manual stop valve) and a pipeline control system (including a temperature sensor, pressure sensor). It's generally supplied to OEMs as an integrated product.

- Completed the development and production the 35MPa Type III hydrogen cylinder.
- Developed the modular hydrogen integrated skid system: products covers two-cylinder group, three-cylinder group, six-cylinder group, and eight-cylinder group;
- Has initiated the development of the Type IV vehicle-mounted compound cylinders.
- Introduced German technology to develop a full series of vehicle-mounted hydrogen supply systems.



## Xiongan New Area "Oil, Gas and Hydrogen" Joint Construction Station



The "Easy Line" and "Oil, gas and hydrogen" integrated energy service station built by CIMC ENRIC (Langfang) Energy Equipment Integration Co., LTD. (hereinafter referred to as "Langfang Integration") in the form of EPC general contract has been successfully put into operation. The station is equipped with 12 hydrogen storage tank, 2 LNG tank, 2 gasoline tank and 2 diesel tank, 2 units 35MPa hydrogen gas dispenser, 3 units LNG dispenser, and 3 units fuel dispenser. This station can realize the comprehensive refueling capacity of 1,000 KG/12H hydrogen, 30t/d gasoline and 24,000 Nm<sup>3</sup>/d LNG, simultaneously meet the refueling and service requirements of the users of gasoline, LNG and hydrogen energy vehicles.

This construction station in Hebei province will serve the infrastructure construction of Xiongan New Area. It will provide hydrogenation and comprehensive energy services for 100 hydrogen trucks transporting sand and stone aggregate, also providing a strong guarantee for the construction of zero-carbon transportation in Xiongan New Area. Compared with domestic similar hydroge refueling stations projects, the "Easy Line" joint construction station is in a leading position in terms of refueling scale and comprehensive energy service capacity.



**CIMC ENRIC**

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