PROVIDING SERVICES IN THE WHOLE PRODUCT LIFE CYCLE

CREATING VALUES FOR CUSTOMERS

JINGMEN HONGTU SPECIAL AIRCRAFT MANUFACTURING CO.,LTD.

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To Be the Global Leading Energy Equipment Manufacturer and Solution Provider

HonTo 宏图
CIMC ENRIC

荆门宏图特种飞行器制造有限公司
JINGMEN HONGTU SPECIAL AIRCRAFT MANUFACTURING CO.,LTD.

CORE VALUES

INTEGRITY-BASED
HONEST, LOYAL & PRACTICAL

CUSTOMER FOREMOST
BETTER, QUICKER & MORE

EFFICIENCY DRIVEN
EFFICIENCY, EFFECTIVENESS & BENEFIT

INNOVATION UNLIMITED
BOLD IN THINKING, ACTION & COMMUNICATING

DEDICATION COMMITTED
DEDICATED, RESPONSIBLE & COLLABORATIVE

PERFECTION PURSUED
PROGRESSIVE, LEARNING & EXCEEDING

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COMPANY PROFILE

Jingmen Hongtu Special Aircraft Manufacturing Co., Ltd (hereinafter called HONGTU, and branded as HONTO) has made prominent contributions to the development of China's aviation industry since established in 1971 as the AVIC Corp II factory No. 322. Now, HONGTU as a key enterprise under China International Marine Containers (Group) Ltd. (**CIMC**) (ranking the 68th in China's Top 500 Enterprises), is engaged in R & D of normal temperature storage & transportation equipment, cryogenic storage & transportation equipment, EPC services, chemical equipment and other types of energy chemical storage & transportation equipment. The Company has more than 1,300 employees, including approx. 400 R&D professionals, and has workshop area totaling 130,000 m².

In the 1980s, HONGTU entered into the industry of hazardous chemicals storage & transportation equipment manufacturing based on the advantages of aviation technology, providing customers with individualized and integrated solutions in the fields of hazardous chemicals storage & transportation, gasification in cities/towns and vehicle/vessel's oil-to-gas transformation.

The Company always leads the development of the industry. The production and sales of "HONTO" Brand LPG tanker has been ranking No.1 in China in the past 36 years. The domestic market share of HONTO reaches over 60% all along. HONGTU has been engaged in the manufacturing of energy and chemical storage & transportation equipment for over 3 decades and is also China's only LPG full-industrial chain equipment manufacturer and solution provider.

The Company has ASME "U" and "U2" Stamps Qualification and all Chinese National Permits for design, manufacture and installation of various pressure vessels, spherical tanks, urban gas pipeline projects and marine fuel tanks, and has developed and drafted a number of national standards on pressurized and non-pressurized products of China.

The Company provides global customers and partners with safe, efficient and value-added energy and chemical storage & transportation equipment under the concept of providing service in the full product life cycle and creating values for customers, through the three-in-one marketing mode of brand communication, product sale and lifelong service, and is committed to become a leading competitive supplier in the field of global energy & chemical industry.

"HONTO" brand LPG storage and transportation equipment has been exported to more than 34 countries & regions in North America, South America, Southeast Asia, South Asia, Middle East and Africa.

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COMPANY MILESTONES

2017

In 2017: HONGTU has tailor-designed, supplied and supervised the installation of 3 complete sets of LPG Power Generation Plant Skid Equipment in Ghana.

2016

In April 2016: Following the biggest bath of ASME Standard (SA-612) LPG Semi-trailer exportation from China to South America in the year of 2015, HONGTU has exported another batch of High-strength-steel (SA-517) LPG Semi-trailers to the United States of America.

2015

Since 2015: Following the "The Belt and Road" strategy, HONGTU has successfully delivered several ASME codes spherical tank projects in Southeast Asia, Central Asia and Africa, and enjoyed a good reputation abroad with its full LPG industry chain solution advantages.

In Jan. 2016, contracts for export of spherical tanks in batches to Thailand, Nigeria, Kyrgyzstan, Bangladesh, Maldives and other countries were signed and the export amount exceeded US$20 million.

2010

In Feb. 2010: The utilizing of the new 48,000 m2 workshop enhanced the production capacity of pressure tankers up to No.1 in Asia.

2009

In 2009: HONGTU entered the spherical tank industry with the advantages of CIMC Group. Since 2015, the market share of the spherical tank has ranked the top 3 in China.

2008

In Aug. 2008: HONGTU became a key member enterprise of CIMC ENRIC.

1991

In 1991: HONGTU entered the cryogenic industry. And the cryogenic transport tanker has been ranking the top 3 in the domestic market since 2013.

In Aug. 1999: HONGTU acquired ASME Certificate and U Stamp.

1981

In 1981: HONGTU engaged in the design and installation of gas pipelines business.

In 1982: The first unit of HONTO LPG transport tanker was introduced to the market, ranking NO.1 in the domestic market for the last 36 consecutive years, and the domestic market share reached 60% since 2015.

1971

In April 1971: The Company's predecessor, Hongtu Machine Works (322 Factory) under the former Ministry of Aviation Industry, was founded.

In May 1976: HONGTU undertook the national major aviation project where the first Maritime Bomber in China succeeded in the production and trial flight.

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INTERNATIONAL QUALIFICATIONS

CERTIFICATE OF AUTHORIZATION

The American Society of Mechanical Engineers

CERTIFICATE OF AUTHORIZATION

The American Society of Mechanical Engineers

环境管理体系认证证书

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

职业健康安全管理体系认证证书

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

THE NATIONAL BOARD OF BOILER & PRESSURE VESSEL INSPECTORS

Certificate of Authorization to Register

WLPGA

2018

This is to certify that **CIMC ENRIC Jingmen Hongtu Special Aircraft Manufacturing Co., Ltd.**, after fulfilling the requirements of membership, is a member of the World LPG Association.

Mr. James Rockall

CEO and Managing Director

质量管理体系认证证书

QUALITY MANAGEMENT SYSTEM CERTIFICATE

HSE 管理体系评价证书

HSE MANAGEMENT SYSTEM CERTIFICATE

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ENTERPRISE ADVANTAGES

01 POWERFUL R&D ABILITY

HONGTU has been rated as "Hubei Province Technical Center for Pressure Vessels", "Hubei Province Workstation for High-skilled Talents", etc. We have acquired more than 120 patents through the "Producing, Learning and Researching" practice, and frequent technical communications and cooperation with China Standardization Committee on Boilers and Pressure Vessels, China Classification Society, Tsinghua University, Shanghai Jiao Tong University, Zhejiang University, Fuzhou University, Huazhong University of Science and Technology, YPDI (Nanjing Yangzi Petrochemical Design Engineering Co., Ltd.), Burg Industries B.V., TGE GAS INVESTMENT SA, Department of Energy Business (DOEB in Thailand), Australia MLI company, and other Government agencies at home and abroad, Universities, famous companies in the industry.

02 TOP EXPERT TEAM

We have more than 330 professional technical staff, 30 senior engineers (including 5 Researcher-Level Engineers), about 500 staff who are multi-skilled technical talents and senior technicians, 9 outsourced experts and professors employed in the industry. We are the Editorial Board of the China National Boards of Supervision Regulation on Safety Technology for Transportable Pressure Vessel; We have participated in the compiling of many other standards, such as Road Tanker for Liquefied Gas, Road Tankers for Cryogenic Liquid, Supervision Regulation on Safety Technology for Transportable Pressure Vessel, Road Tanker for Dangerous Liquid Goods Transportation.

03 STRONG PRODUCTION CAPACITY

HONGTU has been facilitated with more than 2000 sets of equipment, such as plasma cutting machines, US Lincoln welding machines, welding robots, all kinds of large and medium-sized rolling machines, beveling machines, cranes, heat treatment furnace, NDT equipment, 2000 tons of spherical shell press machines and other large heavy equipment. Among them, there are more than 200 sets of testing equipment.

04 COMPREHENSIVE INDUSTRIAL CHAIN SOLUTION

HONGTU has been engaged in manufacturing of energy and chemical storage & transportation equipment for over 3 decades. Focusing on the production, storage and transportation, application and intensive processing of upstream, midstream and downstream liquefied petroleum gas industry chain, HONGTU forms complete industrial equipment cluster from oil refining device, spherical tank, large scale flat bottomed vertical tank to mounded type tank, from lightweight and large-volume liquefied gas tanker to core equipment manufacturing of various types of end applications and engineering application, is China's only LPG whole industry chain equipment manufacturer and solution provider.

05 SCIENTIFIC AND RIGOROUS QA&QC SYSTEM

HONGTU has a sound quality assurance system and perfect quality control procedures. Products from the entry of raw materials to the delivery to the user must pass 111 quality control points, 243 quality control procedures and 47 procedure document reviews. Annual radiographic inspection films of the products exceed more than 400,000 copies and each product quality files keep for more than 20 years, so each weld quality can be tracked. HONGTU continues to carry out the LEAN Management, introduce the ONE module, passes the HSE system (quality, occupational health and safety, environment) certification, and realizes the comprehensive management of information, quality and workers in the manufacturing site.

06 PROFESSIONAL INTERNATIONAL SERVICES AND MARKETING NETWORK

HONGTU has its own international business network and a sound international business organization structure, including 50 plus professionals engaged in technical service and overseas marketing, dedicated to providing overseas customers with technical consultation, business negotiation, product service, personnel training and a full range of integrated solutions services, and has built a three-level service assurance system comprised of salesperson, engineer and professional service personnel.

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LPG INDUSTRIAL CHAIN AND SOLUTIONS

LPG Production Plant

Petrochemical Process Equipment

LPG Storage

LPG Spherical Tank

LPG Cryogenic Storage Tank

LPG Horizontal Storage Tank

LPG Mounded Tank

LPG Receiving Terminal

LPG Transportation

LPG Carrier

LPG Semi-trailer

LPG ISO Tank Container

LPG Bobtail Tanker

LPG Rigid Tanker

LPG Distribution and Application

LPG Pipe Network

LPG Storage and Distribution Station

LPG Auto gas Station

LPG Portable Skid

LPG Cylinder Filling Station

LPG Household Tank System

LPG Power Generation System

LPG Power Plant

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PETROCLEMICAL PROCESS EQUIPMENT-UPSTREAM

HONGTU can provide ASME heat exchangers, towers, reaction vessels, non-ferrous metal containers, high-pressure fatigued equipment and various storage vessels for petrochemical process equipment.

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LPG STORAGE EQUIPMENT-MIDSTREAM

HONGTU has the design and fabrication capability of large ASME codes spherical tanks and owns 5 sets of large hydraulic pressing machine. The maximum pressing capacity for spherical shell plate is δ 80mm. Besides, HONGTU can also construct the spherical tanks made of special steel such as stainless steel, Stainless Steel Clad Carbon Steel Plate，9Ni steel and etc. , and owns relevant project references.

LPG SPHERICAL TANK

Technical Specification

Design Code: ASME BPVC VIII-1/VIII-2，GB/T 12337，JB/T 4732
Vessel Capacity: 50m³~10000m³ liquefied gas spherical tank, 200m³ ~20000m³ gas spherical tank
Vessel Material: SA-516，SA-537 CL1，SA-537 CL2，Q370R etc.

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LPG MOUNDED TANK

HONGTU has the design and fabrication capability of large size mounded tank without saddles and medium & small size mounded tanks with saddles.

Technical Specification

Design Code: ASME BPVC VIII-1/VIII-2，EEMUA 190
Vessel Capacity: $5m^3 \sim 5000m^3$
Vessel Material: SA-516，SA-537 CL1，P355N etc.

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LPG STORAGE TANK

HONGTU has the design and fabrication capability of household storage tanks and stationary storage tanks, including above-ground storage tanks, underground storage tanks, horizontal storage tanks, and vertical storage tanks etc., which is customized according to the customers' requirement.

Technical Specification

Design Code: ASME BPVC VIII-1/VIII-2，GB/T 150，JB 4732
Vessel Capacity: 0.5m³~1000m³
Vessel Material: SA-516, SA-612，Q370R etc.

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LPG RECEIVING TERMINAL

Based on collectivized operation and business synergy pattern and its own equipment manufacturing advantages, HONGTU is committed to providing global customers with integrated LPG engineering solutions, engineering services giving priority to engineering design and EPC services, and providing integrated services of system design, key equipment manufacturing, onsite installation and commissioning, personnel training and operation technical support.

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LPG TRANSPORTATION EQUIPMENT

LPG SEMI-TRAILER

HONGTU has 30-plus years of experience in design and fabrication of LPG semi-trailers. With European and American certificates of pressure vessels, HONGTU can supply various semi-trailers as per Chinese standard, international standards, and tailered design register, etc. HONGTU has cooperated with the international reputed suppliers of valves, instruments and other accessories, such as REGO, FISHER, ROCHESTER, WIKA, CORKEN, BLACKMER, etc. in the long term so as to supply the optional brands of valves, pumps and flow meters etc. as per clients' requirements.

LPG SEMI-TRAILER

Technical specification

Design code: ASME BPVC VIII-1/VIII-2, EN 12493, GB/T 19905, JB 4732
Volume: 30m³~70m³
Materials: SA-516, SA-517, SA-612, P460, Q420R, Q370R, etc.
Tank type: Cylindrical tank, Eccentric cone tank, etc.
Vehicle type:
ASME codes pressure vessel material plus international brands of valves and safety accessories.
Chinese standard pressure vessel material plus Chinese brands of valves and safety accessories.
Chinese standard pressure vessel material plus international brands of valves and safety accessories.

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LPG BOBTAIL TANKER

HONGTU is qualified to design and manufacture bobtail tankers with pumps and loading & unloading system on the side or at the rear of the tankers. The pump can be driven by PTO, hydraulic oil or electric motors. The valves and instruments used on the bobtail tankers are well-known international brands, catering to application requirements of Europe, America, Southeast Asia and other countries.

Technical specification

Design code: ASME BPVC VIII-1/VIII-2, EN 12493, GB/T 19905, JB 4732
Vessel capacity: 5m³~40m³
Material: SA-516, SA-517, SA-612, P460, Q420R, Q370R, etc.

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LPG ISO TANK CONTAINER

HONGTU has mature capability to design and manufacture tank containers. The tank containers are equipped with FORTVALE loading & unloading accessories and safety valves; side-mounted floating level meter on the rear head and aluminum sunshield on the top. With all necessary certificates, HONGTU tank containers meet international road, marine and railway transportation requirements.

Technical specification

Design code: ASME BPVC VIII-1/VIII-2, RID/ADR, IMDG T50, TC, UIC, CSC, TIR, ISO1496/3
Vessel capacity: 24.7m³(20feet), 51.7m³(40feet)
Material: SA-516, SA-612
Design certificates: BV, TUV, CCS

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LPG CARRIER

HONGTU is one of the first enterprises to obtain the Certificate of Marine Products issued by China Classification Society. It has obtained the Factory Accreditation Certificate and Certificate of Marine Products issued by CCS. HONGTU has the construction capacity of manufacturing the pressurized LNG storage tanks used for transport ships and full refrigerated & full pressurized LPG/LAG (NH3) storage tanks used for transport ships. Customized requirements are acceptable.

Technical specification

Design code: ASME BPVC VIII -1/ VIII -2, IGC Code,etc.
Volume: 1000m³~7000m³
Materials: 15MnNiDR, 07MnNiMoDR (CF62), P690QL1, etc.

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LPG DISTRIBUTION AND APPLICATION-DOWNSTREAM

Normal Temperature Vessels for Storage and Distribution

HONGTU takes its own advantages of technology and equipment manufacturing to provide engineering services based on engineering design and EPC contracting in LPG distribution and terminal application to meet different customer needs; and can provide customers with all-dimensional gas equipment and turnkey projects for LPG pipe network, LPG filling stations, LPG bottling stations, LPG storage and distribution stations, LPG skid-mounted stations, LPG household storage tanks, LPG gasification & power generation system.

HONGTU has GB1, GC1 (1) (2) (3), GC2, GC3 national pipeline design and installation qualifications, and can provide design and installation services for ASME B31 urban gas pipe network. HONGTU is also able to design and install LPG storage and distribution stations.

LPG PIPE NETWORK

LPG AUTO-GAS STATION

LPG BOTTLING STATION

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LPG STORAGE AND DISTRIBUTION STATION

LPG SKID MOUNTED STATION

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LPG POWER GENERATION SYSTEM

LPG HOUSEHOLD STORAGE TANK

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LNG BUSINESS CHAIN

Liquefaction Plant
Storage Tank

LNG Semi-Trailer

LNG ISO Tank Container

With its 40 years' technology accumulation in the field of mobile pressure vessel equipment and the market resources of CIMC, HONGTU actively explores business of liquefaction, storage, peak shaving, transportation and refueling in the LNG industry chain. Products & service cover flat bottomed vertical tanks, various types of cryogenic storage tanks, lightweight large-volume cryogenic tankers, various LNG carriers, filling pontoons, land refueling station, gas filling stations and oil-gas projects for tankers and ships. With its complete industrial chain products and integrated solution service, HONGTU can meet the different users' needs.

LNG Refueling Trailer

LNG Skid-mounted Station

LNG Peaking Station

LNG Filling Station

LNG Gasification

L-CNG Filling Station

LNG Cylinder

LNG Bus

LNG Tractor

LNG Carrier

CNG Taxi

For Residential Users

CRYOGENIC STORAGE TANK

With the characteristics of light weight, low evaporation rate and reliable quality, HONTO cryogenic storage tank is the cost-effective choice for customers. HONGTU can provide single containment LNG tanks, bimetal full containment LNG tanks, cluster tanks, industrial gas storage tanks. Meanwhile, HONGTU has the ability to provide EPC solutions for LNG reserve peak-shaving stations, LNG storage station, LNG gasification stations and industrial gas storage station，etc.

Design code: API 620, GB/T26978
Capacity: 500~50000m³
Material: Inner Tank. S30408/SA-240 304
Outer Tank. S30408/SA-240 304

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SINGLE CONTAINMENT LNG TANK

The single containment LNG tank is a double-walled tank which consists of an inner tank and an outer tank. Inner tank is used for storing cryogenic liquid. The space between the inner and outer tanks is filled with insulating material and sealed by nitrogen. The outer tank, which cannot store the liquid, is made of low alloy steel or carbon steel. The single containment LNG tank requires an external dike. It has the advantages of mature technology and lowest initial investment.

Design code: API 620, GB/T26978
Capacity: 500~30000m³
Material: Inner Tank. ASTM A240/S30408
Outer Tank. ASTM A516/Q345R/16MnDR

BIMETAL FULL CONTAINMENT LNG TANK

The bimetal full containment LNG tank consists of an inner tank and an outer tank. Inner tank is used for storing cryogenic liquid. Outer tank is used for storing the boil-off gas under normal conditions, and can store the cryogenic liquid in case of leakage. The outer tank is made of stainless steel. It has the advantages of short construction period and low cost when compared with reinforced concrete full containment LNG tank.

Design code: API 620, GB/T26978
Capacity: 5000~50000m³
Material: Inner Tank. S30408 /ASTM A240
Outer Tank. S30408/ASTM A240

CLUSTER TANK

The cluster tank is used for storing large-capacity pressurized cryogenic liquid. Several daughter tanks filled with liquid are placed in an insulated mother tank in a certain arrangement, and the space between the daughter tanks and the mother tank is insulated by powder accumulation. It has the advantages of storing pressure liquid, discharging without pump and saving operating cost.

Design codes: ASME BPVC VIII-1; GB/T 150
Capacity: Total Capacity 1000-2500m³
Daughter tank capacity: 200m³ or 250m³
Material: Daughter tank : 30408/SA-240 304
Mother tank : ASME SA-516/Q345R/16MnDR

LNG TRANSPORTATION EQUIPMENT

LNG SEMI-TRAILER

HONGTU has the ability to design and manufacture all kinds of refrigerated liquefied gas (LNG) tankers with high vacuum multi-layer insulation. The substance can be LNG, liquid oxygen, liquid nitrogen, liquid argon, liquid ethylene, liquid ethane, etc.

Technical Specification

Design codes: GB/T 150 Pressure Vessels, NB/T47058-2017 Road Tankers for Refrigerated Liquefied Gas, ASME BPVC SEC VIII-2
Capacity: 20m³ ~ 52.6m³
Material: S30408/SA-240 304(Inner tank)/Q345R/SA-516(Outer tank)

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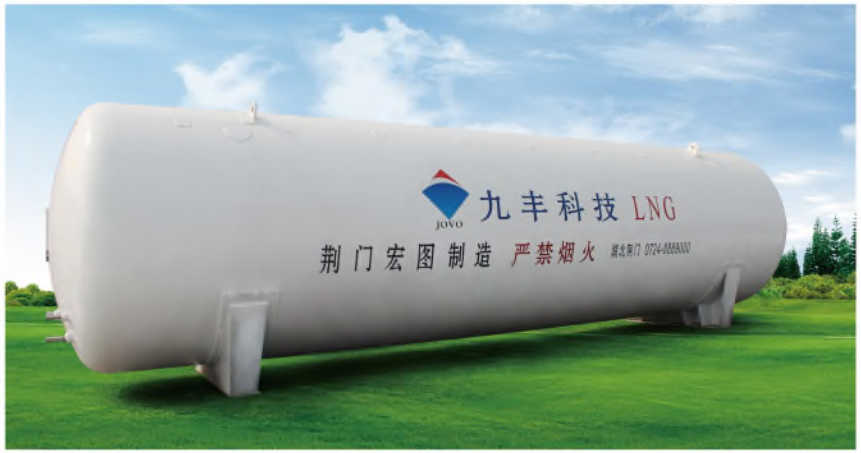

LNG STORAGE TANK

Design codes: GB/T 150, GB/T18442, ASME BPVC VIII-1
Capacity: 5~200m³
Working Pressure: 0.8 ~ 1.2MPa
Type: Vertical or Horizontal
Material: S30408 (for Inner tank) ;
Q345R, 16MnDR (for Outer tank)

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LNG ISO TANK CONTAINER

The 40 feet LNG ISO Tank Container adopts GB standard and ASME standard, and has special equipment manufacturing supervision and inspection certificate, China Classification Society and BV / LR classification society certificate, which can meet the requirements of road, sea, railway and intermodal multi-model transportation.

Tank Specification

Design codes: NB/T47059，TSG R0005，ASME BPVC. VIII .1，RID/ADR，IMDG T75，UIC，DOT49CFR，CSC，ISO1496/3
Dimension: (L*W*H): 12192×2438×2591（mm）
Maximum Allowable Working Pressure: 0.79 MPa(GB) / 0.83 MPa(ASME)
Capacity: 45.5m³
Insulation Type: High Vacuum Multilayer Insulation

L-CNG FILLING STATION

LNG filling station is classified into four types: Standard filling station, L-CNG filling station, Skid-mounted filling station and Mobile skid-mounted filling station.

LNG filling station consists of LNG storage tank, pump skid, tank pressurized vaporizer, truck unloading vaporizer, EAG heater, filling gun, etc.

Design code: GB50156
Capacity: ≤180m3
Material: 304

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LNG GASIFICATION STATION

LNG gasification station can be classified into single-point direct-supplying gasification station and LNG satellite station according to different supplied objects, it is used to receive, store and vaporize the LNG purchased from up-stream to supply gas locally.
After the LNG inside storage tank is transferred to vaporizer, the natural gas is regulated, metered, odorized and then sent to urban gas pipe network.

Design codes:
GB 50028-2006 Code for Design of City Gas Engineering;
GB 50016-2006 Code for Fire Protection Design of Buildings;
GB 50183-2004 Code for Fire Protection Design of Petroleum and Natural Gas Engineering;
NFPA-59A Standard for the Production, Storage, and Handling of Liquefied Natural GAS (LNG)

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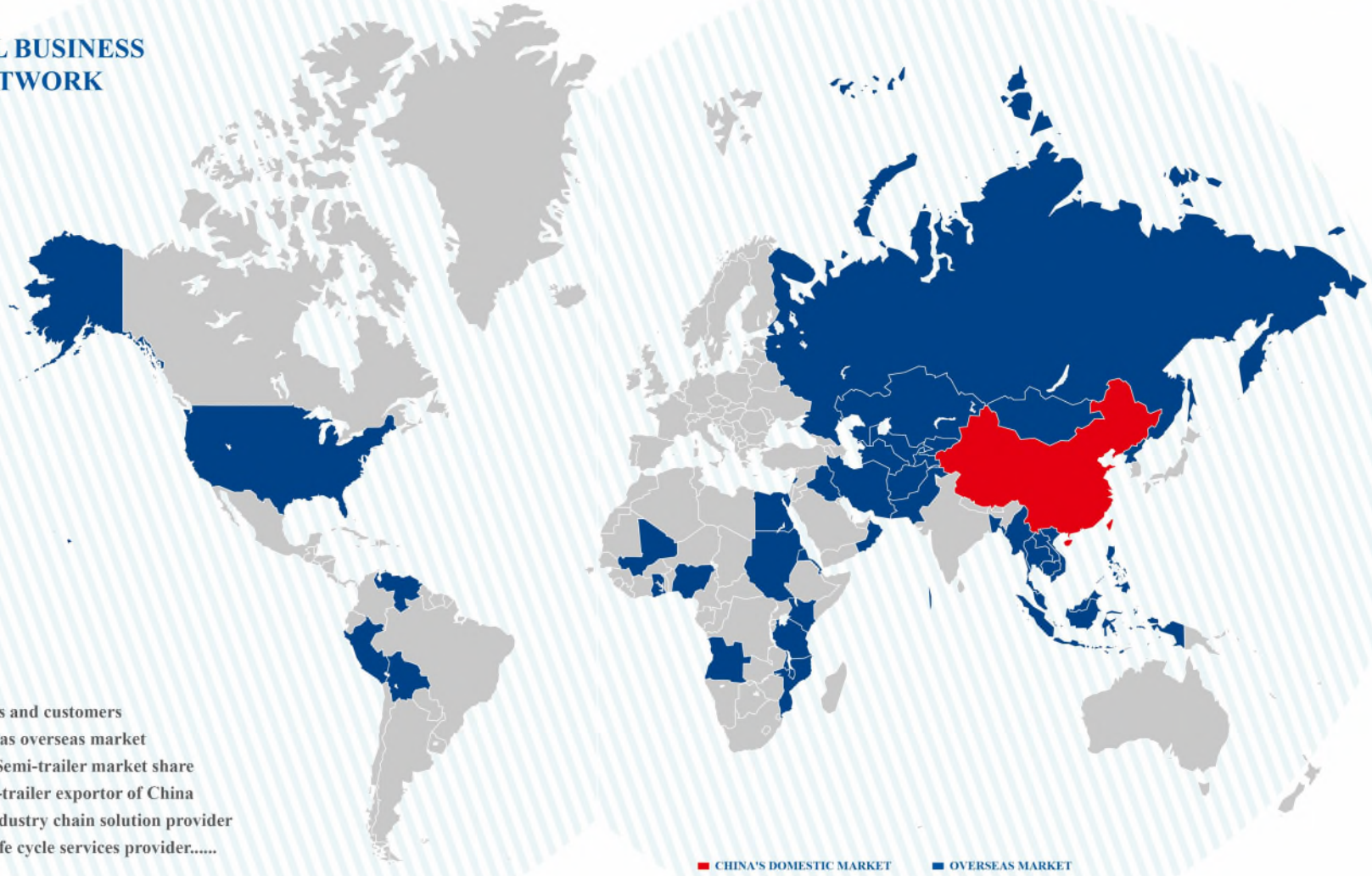
INTERNATIONAL BUSINESS MARKETING NETWORK AND SERVICES



- More than 300 clients and customers
- 34+ countries and areas overseas market
- 60% domestic LPG Semi-trailer market share
- The top 1 LPG Semi-trailer exportor of China
- The only full LPG industry chain solution provider
- The whole product life cycle services provider.....

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OVERSEAS CUSTOMERS

PARTNERS

GENISER ENERGY
NS GAS
matrix
A.A.RANO NIG LTD
prudent energy
SEACOM
TMSS LPG
MAI PHIP GAS
South Pacific Inc.
ANPHUGAS
Ultimate Gas
ISLAND GAS
PDVSA
NAMHAN
PETROTRANS CO.,LTD
TSL Transport Services Limited
ALLES CHARE GAS LIMITED
TGas
dhv
PATEC
Polaris
TAKUNI (THAILAND) CO., LTD
PaP GAS & OIL
PAP GASOIL CO., LTD
PETROCELL
BETJIK DJOJO
THIEBWAY CHI