



湖南力普吉实业有限公司

HUNAN L-GAS ENTERPRISE LTD
技术为基石，专业赢未来

湖南·长沙市人民中路152号嘉熙中心A2008

Address: Room A2008 Jiaxi Central
No.152 Renming Ave., Changsha, Hunan, P.R.C.

TEL: 0731-85554562

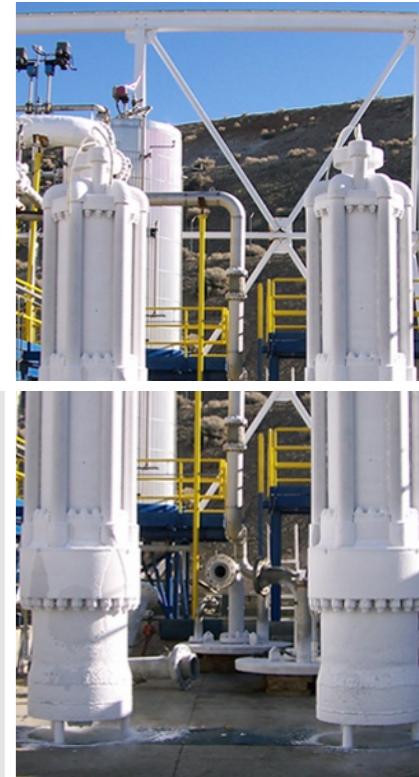
FAX: 0731-85350635

HTTP://WWW.LPGE.COM/

EMAIL: JENNY@LPGE.COM

中国·长沙
2019年6月

力普吉 



LNG调峰站/气化站业绩

Peak-Shaving and Gasification Station Project

湖南力普吉实业有限公司
HUNAN L-GAS ENTERPRISE LTD.

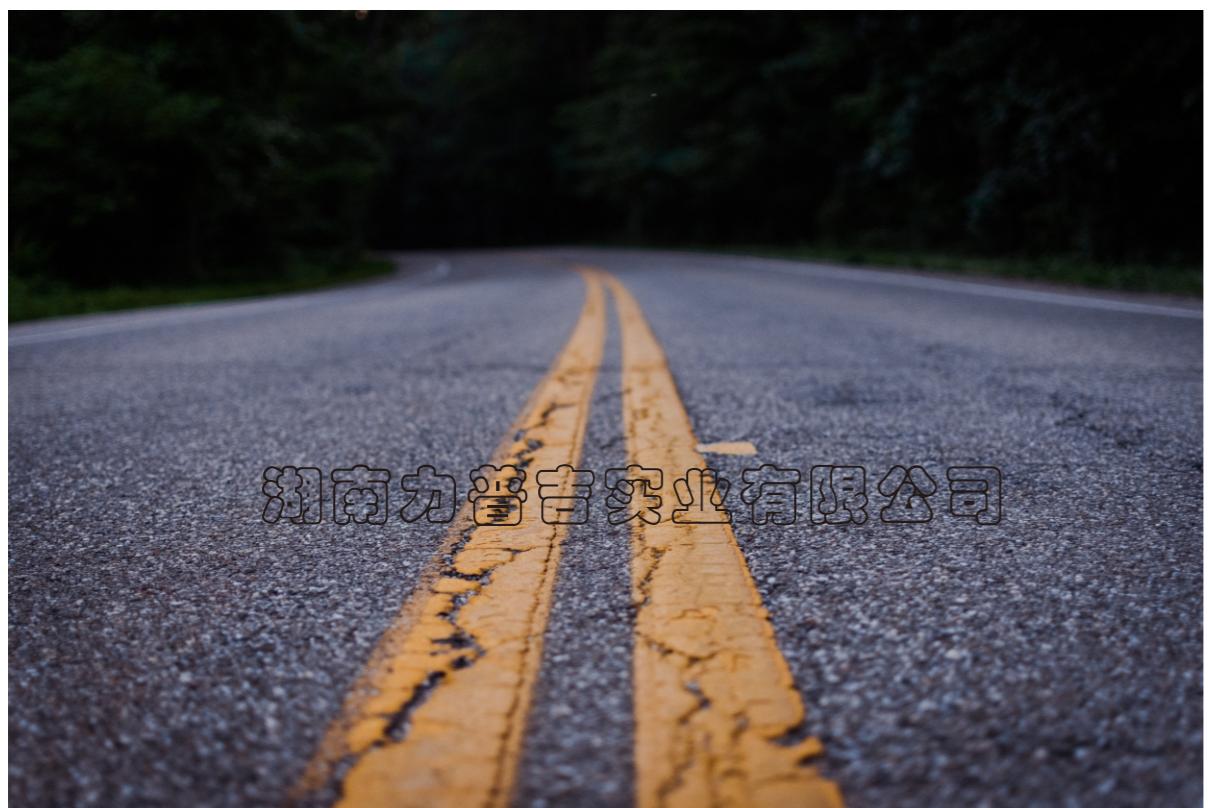
▶ 公司简介 / Company Profile

湖南力普吉实业有限公司成立于1996年，由美国EAI集团公司投资，公司总部位于美国WISCONSIN(威斯康星)州。公司主要从事燃气、深冷、电气设备的供应、销售、维保、技术支持。其产品包括有液化石油气(LPG)、液化天然气(LNG)、空分、工业气体等介质使用的流程泵、增压泵、压缩机及配套控制、电气设备等。

公司本着“技术为基石，专业赢未来”的宗旨，为客户提供完善的解决方案、高性价比的产品，为此赢得了一大批长期客户，包括有北京燃气、天津燃气、合肥燃气、港华燃气等。公司成为美国EBARA、意大利VANZETTI在中国的销售商，我们将继续秉承诚实守信的理念，持之以恒的贯彻之前的宗旨，为将来的客户提供优质服务、合理的解决方案和产品。

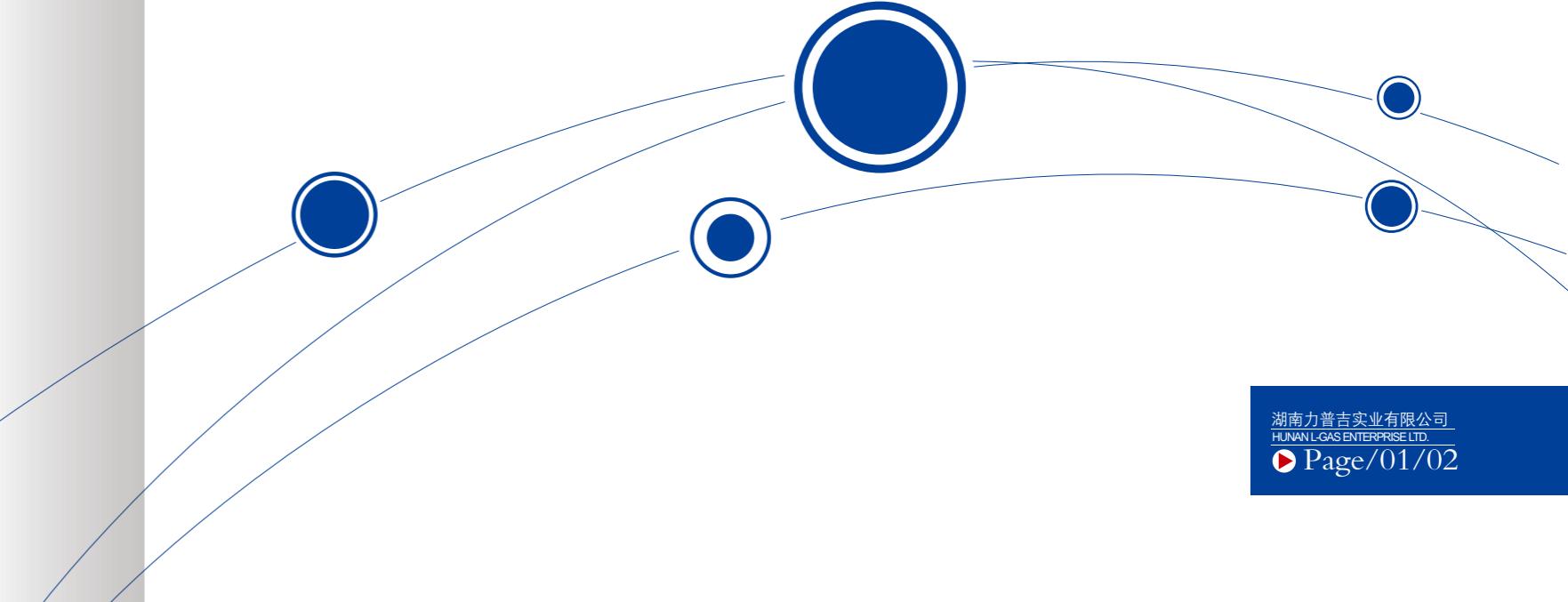
Hunan L-GAS Industrial Co., Ltd. was founded in 1996 and invested by EAI Group Company. Its headquarters is located in Wisconsin, USA. The company is mainly engaged in gas, cryogenic, electrical equipment supply, sales, maintenance, technical support. Its products include process pumps, booster pumps, compressors, auxiliary control and electrical equipment used in liquefied petroleum gas (LPG), liquefied natural gas (LNG), air separation, industrial gas and other media.

In line with the purpose of "technology as the cornerstone, professional win the future", the company provides customers with perfect solutions and high cost-effective products, which has won a large number of long-term customers, including Beijing Gas, Tianjin Gas, Hefei Gas, Hong Kong-China Gas and so on. The company has become the distributor of EBARA and VANZETTI in China. We will continue to uphold the concept of honesty and trustworthiness, persevere in carrying out the purpose before, and provide high-quality services, reasonable solutions and products for future customers.



▶ 代表项目设备类型 / Representative Project Equipment Type

合肥燃气北城LNG调峰站	常压储罐, 罐内潜液泵直接增压气化
北京燃气西集LNG应急调峰站	常压储罐, 罐外潜液泵直接增压气化
杭州燃气东部调峰站	常压储罐, 罐内潜液泵+中间缓冲罐+增压泵接力
泰州港华高港气化站	带压储罐, 罐外潜液泵直接增压气化
佛山燃气明城气化站	带压储罐, 罐外潜液泵直接增压气化
昆仑能源拉萨气化站	常压储罐, 外置离心泵直接增压气化
三亚长丰海棠湾气化站	带压储罐, 外置离心泵直接增压气化
胜利油田东营气化站	带压球罐, 外置离心泵直接增压气化
贵州铝厂气化站	常压储罐, 外置离心泵直接增压气化



▶ 合肥燃气北城调峰站 / HEFEI GAS GROUP NORTHERN CITY PEAKING SHAVE STATION

合肥燃气北城LNG调峰站于2016年开始建设，2017年年底开始调试，整个项目由2个1万立方常压储罐，2台180m³/h装车泵，4台50m³/h增压泵，4台80m³/h卸车泵，24组气化器组成，每小时最大气化调峰能力为100,000Nm³，气化后最大出口压力为4.0MPa。

其中选用装车泵为罐内潜液泵，增压泵为罐内多级潜液泵，气化增压方式是通过罐内多级增压潜液泵直接将LNG液体升压至要求的管道压力，然后直接进入气化器气化，这种方式的优势减少管道、设备、仪表、控制等设备的设置，操作简单，现场简洁。

The LNG peak-shaving station of Hefei Gas Group Northern City started construction in 2016 and commissioning began at the end of 2017. The whole project consists of two 10,000 cubic atmospheric pressure storage tanks, two 180 m³/h loading pumps, four 50 m³/h boosting pumps, four 80 m³/h unloading pumps and 24 groups of gasifiers. The maximum peak shaving capacity of gasification per hour is 100,000 Nm³, and the maximum outlet pressure after gasification is 4.0 Mpa.

Among them, vehicle loading pump is used as submersible pump in tank, booster pump is In-Tank multi-stage submerged pump. The gasification and pressurization mode is to directly pressurize LNG to the required pipeline pressure through In-Tank multi-stage booster submerged motor pump, and then directly enter the AAV (Ambient Air Vaporizer) for gasification. The advantage of this mode is to reduce the installation of pipeline, equipment, instruments and control equipment, and the operation is simple and the site is simple.



- 01 02
- 03
- 01 罐内增压泵/In-Tank Booster Pump
- 02 FMC卸车臂/FMC Loading Arm
- 03 储罐 / Cryogenic Tank



- 01 02
- 03
- 01、站场全景 / Site
- 02、卸车泵 / Unloading Pump



▶ 北京燃气集团西集LNG调峰站 / Beijing Gas Group Xiji LNG Peak-Shaving station

北京燃气集团在西集设置的应急调峰站,前端有一套30万方的液化装置,现场配置一个5000立方的LNG储罐,一台流量为160m³/h,出口压力4.0MPa的外置增压潜液泵,下游配置SCV(浸没式气化器),我公司提供增压潜液泵和配套的仪表、阀门、高压变频器、控制系统。

Beijing Gas Group set up an emergency and peak-shaving station in Xiji, with 300,000 Nm³/d liquefaction unit at the front end, a 5000 cubic LNG tank on site, an Suction Vessel booster submerged motor pump with flow rate of 160 m³/h and discharge pressure of 4.0 MPa, and a SCV (submerged Combustion Vaporizer) at the downstream. Our company provides booster submerged motor pump and instruments, valves, High Voltage VFD(Variable Frequency Drive) and control systems.



► 西安交通燃气临镇气化站 / Xian Traffic Gas Co. Ltd. YinZhen LNG Contingency Reserve Station

引镇LNG应急储备站项目是由陕西延长石油(集团)公司和西安城投集团共同控股投资,项目位于西安引镇火车站附近,2014年3月开工,2017年12月投产。项目由2个1万方储罐,4台罐内潜液泵以及BOG处理单元、卸车系统、气化系统以及放空系统构成。

YinZhen LNG Emergency Reserve Station Project is jointly invested by Shaanxi Yanchang Petroleum (Group) Company and Xi'an City Investment Group. The project is located near Xian YinZhen Railway Station. It starts construction in March 2014 and goes into operation in December 2017. The project consists of two 10,000 m³ tanks, four submerged motor pumps and BOG processing units, unloading system, gasification system and emptying system.



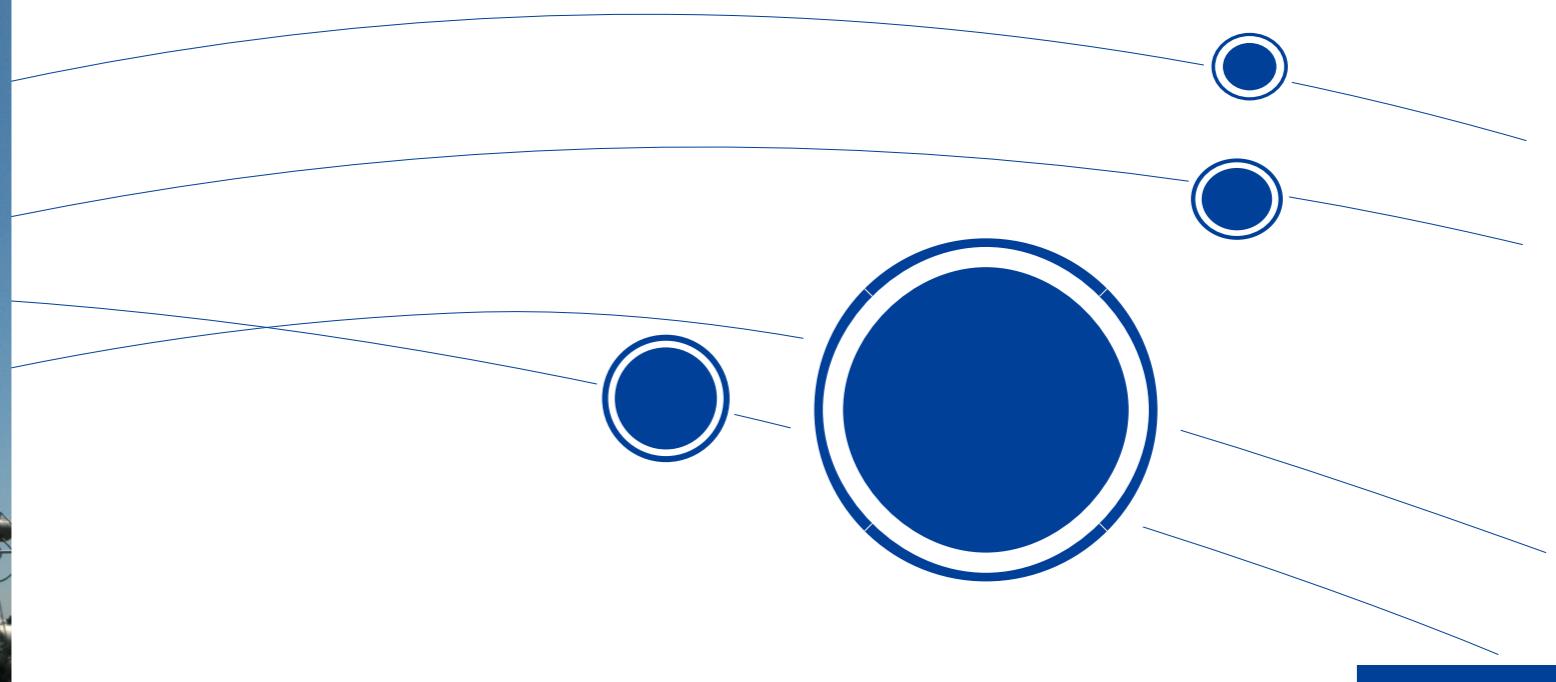
► 设备和现场 / Equipment and Site



► 天津燃气大港LNG应急调峰气化站 / Tianjin Gas Dagang LNG Gasification Station

天津燃气大港LNG应急储备站分为一期和二期,一期由两个5000m³储罐,三台增压气化泵,一台装车泵构成,二期由两个10000m³储罐,两台罐内潜液泵作为装车泵,两台罐内潜液泵增压泵,前端带有30万Nm³/d的液化装置,下游可以装车、气化进入管网。气化压力出口压力4.0MPa,气化量100,000Nm³/h.

Tianjin Gas Dagang LNG Emergency Reserve Station is divided into Phase I and Phase II. Phase I consists of two 5000m³ LNG storage tanks, three booster gas pumps and one loading pump. Phase II consists of two 10000m³ LNG storage tanks, two In-Tank submerged motor pumps in tanks as loading pumps, two In-Tank submerged motor pump booster pumps, front end with 300,000 Nm³/d liquefaction plant, downstream can be loading truck and gasified into the pipeline network. The discharge pressure of gasification pressure is 4.0 MPa and the gasification flow rate is 100,000 Nm³/h.



▶ 泰州港华高港调峰气化站 / Taizhou Towngas Gaogang Peak-Shaving Gasification Station



泰州港华燃气高港气化应急站具备有气化、调峰、装车、卸车的功能，整个站由六个150m³真空带压储罐构成，站场配置有2台装车泵，2台气化增压泵，气化增压为外置潜液泵，增压泵流量为30m³/h，出口压力为1.5MPa，站场最大气化能力为35,000Nm³/h。装车泵为80m³/h，出口压力为0.5MPa。

我公司为其提供装车泵、气化增压泵、配套变频电气柜，负责指导安装、现场调试。

Taizhou Towngas Gaogang Gasification Emergency Station has the functions of gasification, peak shaving, loading and unloading. The whole station consists of six 150 m³ vacuum storage tanks. The station is equipped with two loading pumps, two booster pumps, and the flow rate of the booster pump is 30 m³/h. The discharge pressure is 1.5 MPa. The maximum gasification capacity of the station is 35,000 Nm³/h. The loading pump is 80m³/h and the discharge pressure is 0.5MPa.

Our company provides loading pump, gasification booster pump and electric cabinet for them, which is responsible for guiding installation and field commission.



▶ 佛山燃气明城气化站 / Foshan Gas Mingcheng Gasification Station

佛山燃气明城气化站位于佛山高明区，气化站内有8个150立方带压真空储罐，整个项目分为三期，第一期为储罐增压直接气化，第二期安装一台罐外增压潜液泵，第三期再安装两台罐外增压气化泵，第一期气化后的出口压力为0.5MPa，第二、三期使用增压泵后，气化出口压力为3.5MPa，整体气化量为50,000Nm³/h。

Foshan Gas Mingcheng Gasification Station is located in Gaoming District, Foshan. There are eight 150 cubic vacuum tanks in the gasification station. The whole project is divided into three phases. The first phase is direct gasification with tank pressurization, the second phase is installation of an external pressurized submerged motor pump, and the third phase is installation of two booster gasification pumps. The discharge pressure of the first phase is 0.5 MPa, and the second and third phases are gasified after using the booster pump. The discharge pressure is 3.5 MPa and the overall gasification capacity is 50,000 Nm³/h.



▶ 昆仑能源拉萨气化站 / Kunlun Energy Lhasa Gasification Station

昆仑能源拉萨气化站位于拉萨市开发区内,由一个5000方常压储罐,增压泵、气化器构成气化站,其中增压泵为外置离心低温泵,低温离心泵流量为15m³/h,出口压力为0.7MPa,设备为一开一备。

The Lhasa Gasification Station of Kunlun Energy is located in the Lhasa Development Zone. It consists of a 5000 square atmospheric storage tank, booster pump and AAV. The booster pump is an external centrifugal cryogenic pump. The flow rate of the cryogenic centrifugal pump is 15m³/h, the outlet pressure is 0.7MPa, and the equipment is ready for use.



▶ 三亚长丰海棠湾气化站 / Sanya Changfeng Energy Haitang Bay Gasification Station

三亚长丰能源海棠湾气化站是三亚市第一气源站，2010年建成并投入试运行，海棠湾气化站由4个150m³带压真空储罐、2台外置离心泵作为增压泵，气化后天然气进行混空并入管网。增压泵设计流量为20m³/h, 出口压力为1.2MPa。

Sanya Changfeng Energy Haitang Bay Gasification Station is the first gas source station in Sanya. It was built and put into trial operation in 2010. Haitang Bay Gasification Station consists of four 150 m³ pressurized vacuum tanks and two Cryogenic centrifugal pumps as booster pumps. After gasification, natural gas and air is mixed into the pipeline. The designed flow rate of the cryogenic centrifugal pump is 20 m³/h and the discharge pressure is 1.2 MPa.



▶ 其它调峰站和气化站 / Other Peak-shaving and Gasification Station



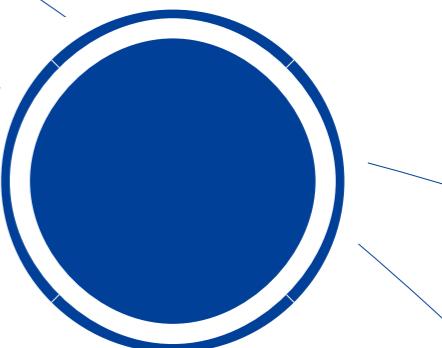
贵州铝厂气化站



合肥燃气肥西调峰站



胜利油田东营气化站



▶ 河北燃气沙河气化站 / Hebei GAS GROUP Shahe Gasification STATION

河北燃气沙河气化站是在一座液化工厂, 设置在沙河的玻璃工业园, 安装气化增压泵用于工业园内用气调峰, 通过两台增压潜液泵来调整工业园区内由于用气量波动, 从而保证工业园区内天然气管网的压力稳定.

此气化站有两个5000m³LNG储罐, 其中一个用于LNG装车, 另外一个用于气化, 气化量正常为10,000Nm³/h, 气化器出口压力为1.5MPa, 气化后的气体直接进入天然气管网。

Hebei Gas Shahe Gasification Station is located in a liquefaction plant in Shahe Glass Industrial Park. Gasification booster pumps are installed for peak shaving in the industrial park. Two booster submerged motor pumps are used to adjust the fluctuation of gas consumption in the industrial park so as to ensure the pressure stability of the natural gas pipeline network in the industrial park.

The gasification station has two 5000 m³ LNG tanks, one for LNG loading and the other for gasification. The normal gasification volume is 10,000 Nm³/h, and the discharge pressure of the Vaporizer is 1.5 MPa. The gasified gas directly enters the natural gas pipeline network.



- 01|02
- 01 潜液泵本体 / Submerged Motor Pump
- 02 潜液泵现场 / Suction Vessel Pump In Site



- 01|02
- 01、罐外增压潜液泵 / Suction Vessel Submerged Pump
- 02、电气系统 / Electrical Cabinet



▶ 江阴天力燃气滨江调峰站 / Jiangyin Tianli Gas Binjiang Peak-Shaving Station



江阴天力燃气滨江气化站于2018年在原有的基础上增加两台潜液泵作为增压泵，用于城市燃气管网调峰。前端有四个LNG带压储罐，工作压力为0.2-0.5MPa，潜液泵出口压力1.5MPa，设计流量30m³/h，气化量20,000Nm³/h。增压泵为罐外容器式潜液泵。

In 2018, Jiangyin Tianli Gas Binjiang Gasification Station added two submerged motor pumps as booster pumps on the original equipment for peak shaving of city gas pipeline network. There are four LNG pressure storage tanks at the front end. The working pressure is 0.2-0.5 MPa, the discharge pressure of submerged motor pump is 1.5 MPa, the designed flow rate is 30 m³/h, and the gasification capacity is 20,000 Nm³/h. The booster pump is suction vessel submerged motor pump.



湖南力普吉实业有限公司