

聚焦全场景热管理技术创新和产业化

Focus on technology innovation & industrialization of full scene thermal management

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产品系列 Products Series

技术质量 Technology & Quality 95 销售服务 Sales & Services

社会责任 Social Responsibility

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高澜简介 About Goaland





全球化战略的管理团队 Global strategy management team

专业的技术及项目执行团队 Professional technical and executive team 全球分支机构及服务网点的布局 Layout of the global branch and service network

印度 India

Beijing

Guangzhou Dongguan

Shanghai

Xi'an

岳阳 **Yueyang**

完善的海外项目管理体系 Developed overseas projects management

欧洲 Europe



高澜简介 About Goaland

高澜股份

广州总部

东莞硅翔

岳阳高澜

湖南高涵



成立于2001年,2016年上市,主要从事研发、营销、总部管理。

Founded in 2001 and listed in 2016, mainly engaged in R & D, sales & marketing, headquarters management.



高澜创新科技

成立于2020年,主要从事新兴 热管理业务,为新能源汽车、 ICT行业及新兴的热管理行业提 供系统方案及关键部件。

Founded in 2020, Mainly engaged in emerging thermal management business, providing system solutions and key components for new energy vehicles, ICT industry and emerging thermal management industry.



成立于2008年,主营新能源汽车电池热管理产品的研发、设计和生产。

Founded in 2008, mainly engaged in R&D, design and manufacturing of new energy vehicle battery thermal management.



成立于2012年,是全球 最大的电力电子水冷装 备制造基地。

Founded in 2012, it is the largest power electronic water-cooling equipment manufacturing base in the world



成立于2016年,主营软件开发、国防工业市场的拓展及服务。

Founded in 2016, mainly engaged in software development, national defense industry market expansion and services.

应用范围 Application

聚焦全场景热管理技术创新和产业化

Focus on technology innovation and industrialization of full scene thermal management

电力电子热管理

Power electronic thermal management

发电、输配电、用电等行业 的大功率电气元件的综合热 管理解决方案及隔直装置的 研发、设计、制造和服务。

Comprehensive thermal management solutions for high-power electrical components and R & D, design, manufacturing and service of isolation devices in power generation, power transmission and distribution, power consumption and other industries.

新能源汽车热管理 New energy vehicle thermal management

动力电池加热散热材料、 防火隔热材料、柔性电路 集成母板、动力电池独立 液冷系统、动力电池与空 调复合系统、整车热管理 系统及仿真服务。

Power battery heating and cooling materials, fire and heat insulation materials, flexible circuit integrated motherboard, power battery independent liquid cooling system, power battery and air conditioning composite system, vehicle thermal management system and simulation services.

综合能源能效管理

Integrated energy efficiency management & application

在工业节能、新能源、智能微电网、水蓄能等领域的综合能源服务。

Integrated energy services in the fields of industrial energy conservation, new energy, smart micro grid, water storage, etc.

信息与通信热管理

Information & communication thermal management

提供冷板式液冷服务器和浸 没式液冷服务器整体热管理 解决方案。

Provide overall thermal management solutions for cold-plate liquid-cooled servers and immersed liquid-cooled servers.

特种行业热管理

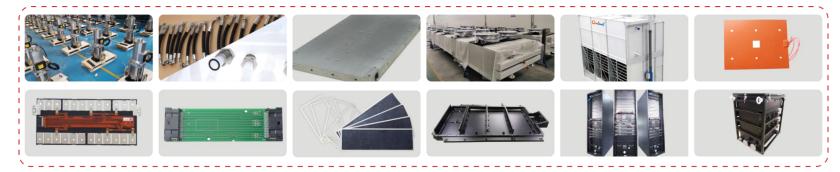
Thermal management of special industry

特种行业液冷系统一站式方 案提供商。

One-stop solution provider of liquid cooling system in special industry.



应用范围 Application



从核心零部件到热管理系统集成

From core components to thermal management system integration



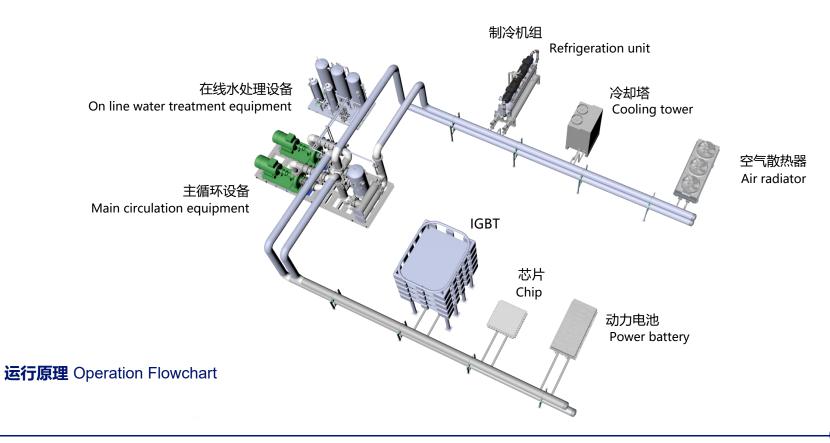


电力电子热管理

Power electronic thermal management



亚洲高压直流输电、柔性交流输配电和新能源发电等关键设备的最大水冷设备供货商 The largest water cooling plant supplier of HVDC, FACTS & Renewable Energy in Asia



国内参与的直流 (柔直) 工程 HVDC (VSC-HVDC) Projects in China ■ 中国首家为高压直流输电工程提供水冷设备的供应商 ■ 应用于30多条高压直流(柔直)输电工程 ■ 中国市场占有率保持在80%以上 ■ The first water cooling supplier for HVDC transmission in China



■ Owning over 80% market share in China

中俄直流联网黑河背靠背换流站工程 土耳其凡城背靠背工程 韩国济州岛±80kV

中亚南亚直流输电CASA-1000项目 韩国KEPCO Bp1直流改造

巴基斯坦±660kV直流输电工程

菲律宾MVIP±350kV直流输电

巴西美丽山±800kV特高压直流输电工程

● 国外参与的直流 (柔直) 工程

HVDC (VSC-HVDC) Projects in Foreign Countries

- ABB全球供应商
- ■印度电网认证
- ■沙特电网认证

- Global Supplier of ABB
- Certification of India Power Grid
- Certification of Saudi Arabia Grid



柔性交流输配电系统冷却 FACTS Cooling



2001

中国首套国家重点电力电子试验室水冷系统

The first water cooling system for national key power electronics laboratory CEPRI



2001

中国首套国产化电力系统高压大容量 SVC装置水冷系统

鞍山红一变120Mvar SVC装置国产化示范工程
The first internal manufactured water cooling system for high voltage SVC—120Mvar SVC demonstration project at An' shan transformer substation



2003

中国首套国产化可控串补装置

The first water cooling system for Internal manufactured TCSC project



2005

中国首套工程化应用新型静止同步补偿装置 上海电力局±50Mvar STATCOM装置示范工程 The first water cooling system for STATCOM project in China ±50Mvar STATCOM demonstration project for Shanghai Municipal Electric Power Company



2015

英国东能源海上风电STATCOM水冷

STATCOM water cooling system for Burbo Bank & Race Bank Offshore Wind farm in UK (Dong Energy)



2016

南瑞 墨西哥SVC

NARI Mexico SVC

新能源设备冷却 Renewable Energy Converter Inverter Cooling



2007

中国第一台海上风力发电机 中海油渤海海上风力发电 示范项目

The first offshore wind turbine in China Offshore wind power demonstration project of CNOOC in Bohai sea



2010

GE光伏发电逆变器 水冷却系统应用在 法国,德国,美国,英国等

GE 30kw PV solar inverter cooling unit, in France, Germany, USA, UK etc.



2011

环境温度到-48度的 瑞典布莱肯风电场

Blaiken Wind Farm with -48°C ambient temperature in Sweden



2016

福建莆田平海湾海上风场 我国首个商业化海上风电场 5MW风机是目前国内海上 单机容量最大的商业化风机

Pinghai Bay Offshore Wind Farm in Putian Fujian The first commercial offshore wind farm with the largest wind turbine capacity 5MW in China



2020

国内首台8兆瓦福清兴化湾 海上风电机组

The first 8 MW offshore wind turbine in Fuqing Xinghua Bay in China



石油天然气大功率电气传动设备冷却

Cooling solutions for high power transmission equipment in Oil & Gas industry











2015

西气东输海原压气站(国产首例)

Haiyuan Station for West-to-East Gas Transmission(First made in China) 2016

陕京四线红墩界压气站

Shanxi-Beijing Fourth Line Hongdunjie Compressor Station 2017

西气东输广州压气站

Guangzhou Station for West-to-East Gas Transmission 2018

天然气互联互通工程盘锦压 气站

Natural Gas Interconnection Project Panjin Compressor Station 2021

西南油气田黄草峡储气库

Huangcaoxia gas storage of Southwest Oil and gas field



轨道交通冷却 Rail transit Cooling



2010

上海磁悬浮项目变频器 纯水冷却系统

Frequency Converter of Shanghai Maglev Project



2012

南车时代电气股份有限公司 牵引系统变流器 纯水冷却系统

Traction system converter of Zhuzhou CSR Times Electric Co.,Ltd.



2017

机车实验室平台

Locomotive laboratory platform

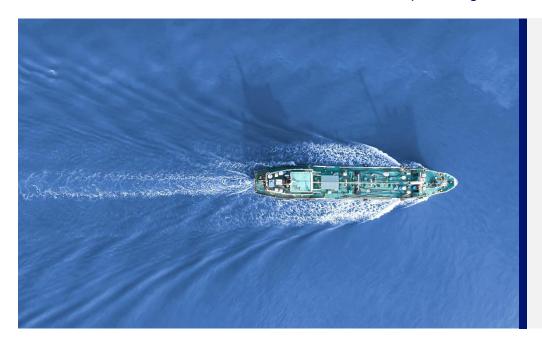


2018

城轨TEDT-D平台

TEDT-D of Urban Rail

船舶冷却 ship Cooling



船舶变频器纯水冷却系统 Ship Frequency Converter Cooling

配水管道 Water Distribution Pipes



聚偏氟乙烯

PVDF



聚偏氟乙烯螺母、接头

PVDF nut & joint



不锈钢主管道

Stainless steel main pipeline



PEXa交联聚乙烯分支管道

PEXa cross-linked polyethylene branch pipe

特种行业热管理

Thermal management of special industry



特种设备冷却 Special equipment cooling



舰船领域 Ship field

电力系统/能量管理/发射装置/ 实验室设备

Power system / Energy management / Transmitter device /Laboratory equipment



雷达阵面 Radar array

电子对抗热管理系统

Thermal management system of electronic countermeasure



通讯、特种车辆 Communication, special vehicles

微型液冷系统

Micro liquid cooling system



大科学项目Big Scientific Projects



2010

超导托卡马克试验装置"人造太阳"EAST中科院 合肥科学岛低杂波 国家"十一五"重大科技基础设施建设项目

Science Island LHW of Chinese Academy of Sciences National "Eleventh Five-Year Plan" major project of science infrastructure construction



2010

中国首台、世界一流脉冲中子科学综合实验装置广 东东莞散裂中子源国家实验室——中国散裂中子源

The first world-class pulse neutron science comprehensive experimental equipment Chinese Spallation Neutrons Source (CSNS) in China Dongguan Spallation Neutron Source National Laboratory



2020

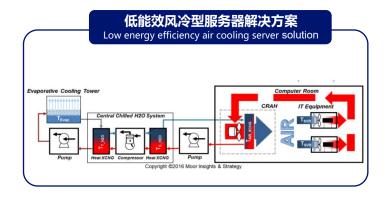
第一套纯商业化医疗项目重离子治疗装置冷却

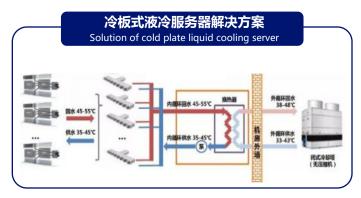
Cooling for the first pure commercial medical heavy ion treatment device

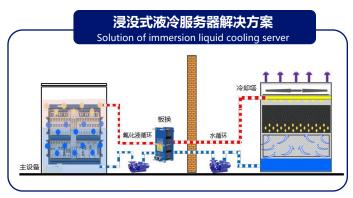
信息与通信热管理

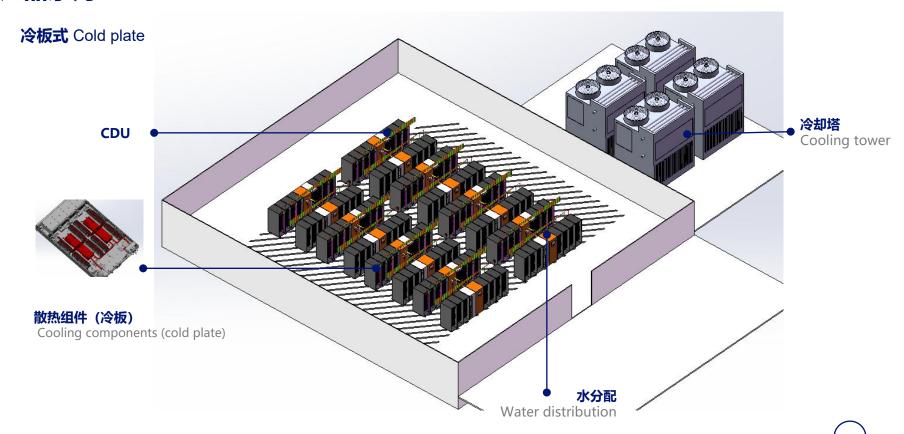
Information & communication thermal management

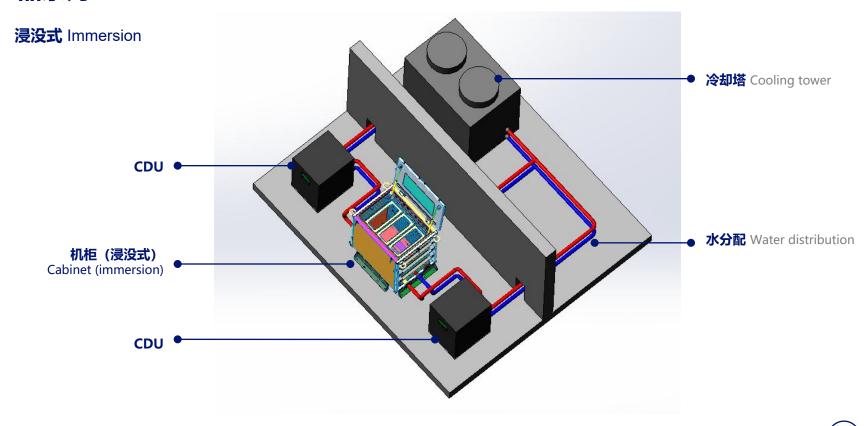




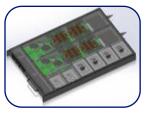








关键产品 ——专用零部件 Key products——special parts



单U浸没式液冷机箱 Single U Submerged liquid cooling cabinet



水分配管路 Water distribution line



CPU-内存—体散热液冷板CPU-memory integrated cooling liquid cooling plate



6款通用液冷板 6 types of general liquid cooling plate



(氟化液-风) 6kwcdu drawer type (fluoride liquid- wind)

6KWCDU抽屉式



12.5KWCDU抽 屉式 (水-风) 12.5kwcdu drawer type(water-wind)



40KWCDU抽屉式 (水-水) 40kwcdu drawer type (water-water)



2KW机柜式 (水-风) 2kW cabinet type(water-wind)



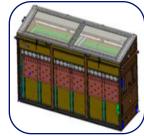
15KWCDU



300KW CDU

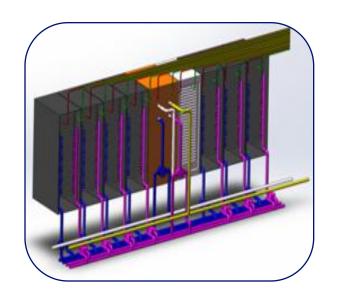


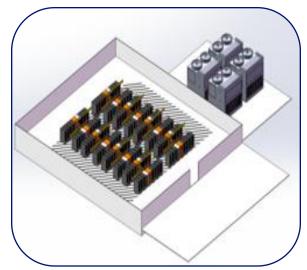
18U浸没式液冷服务器机柜 18U immersed liquid cooling server cabinet



54U浸没式液冷服务器机柜 54U immersed liquid cooling server cabinet

关键产品 ——系统集成Key products——system integration



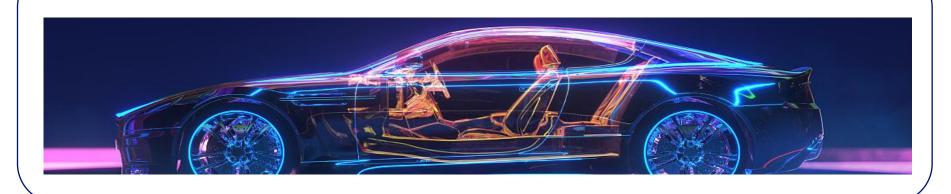


机房设计、设备集成、材料安装、系统调试、设备运维

Machine room design, equipment integration, material installation, system debugging, equipment operation and maintenance

新能源汽车热管理

New Energy Vehicle Thermal Management



关键集成系统和整车热管理

Key integrated system and vehicle thermal management

关键器件 Key devices



硅胶、PI加热膜 Silica gel, PI heating film



环氧树脂加热片 Epoxy resin heater



PTC



防火隔热棉、缓冲垫 Fireproof insulation cotton ,cushion



FPC

线束集成母排 Wiring harness integrated bus bar

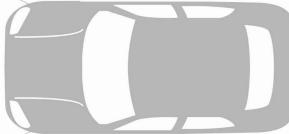




动力电池液冷板

Power battery liquid cooling plate

整车 Vehicle



关键集成系统 Key integrated system



液冷板 Liquid cooled plate



换热器 Heat exchanger



集成阀组 Integrated valve block



电子水泵 Electronic water pump



Controller



流体集成 Fluid integration



chiiller



动力电池独立液冷系统

Power battery independent liquid cooling system



热泵型整车热管理解决方案

Heat management solution of heat pump vehicle





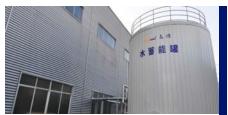
综合能源管理服务

Integrated energy management services



压缩空气系统节能服务

Compressed air system energy saving service



蓄能节能服务

Energy storage & energy saving services



新能源汽车充电服务

New energy vehicle charging service



蓄电池梯级利用

Battery cascade utilization



电力综合服务

Integrated power services





高**減节能研究院**Energy Conservation R&D Institute

高澜节能研究院成立于2010年,以研发创新为基础,专业从事实用技术、新兴技术、服务技术及基础理论等研究,主要包括系统集成、流体控制、电气控制、机械制造、传热制冷、水质净化、检修运维、密封、可靠性、电力电子、材料、冷却液、浸没式冷却及能效管理等。

拥有授权专利214项(发明专利30项),软件著作权99项。 致力于将其打造成国内最先进的研发机构和国内最权威的热管理实验室。

Founded in 2010, based on R & D and innovation, Goaland energy conservation research institute specializes in practical technology, emerging technology, service technology and basic theory research, mainly including system integration, fluid control, electrical control, mechanical manufacturing, heat transfer and refrigeration, water purification, repair and operation, sealing, reliability, power electronics, materials, coolant, immersion cooling and energy efficiency tube Li et al. Obtains 214 patents (including 30 invention patents), 99 software copy rights We are committed to building it into the most advanced research and development institutions and the most authoritative thermal management laboratory in China.







热管理实验室 Thermal management laboratory - Guangzhou

成立于2010年,2018年4月获得CNAS实验室认可,实验室使用面积2000平方米。各种检测设备150多台(套),实验室主要包括:电气、水质分析、环境试验、振动及风洞等,为创新研发及各类试验提供了良好的保障。

Founded in 2010 and recognized by CNAs laboratory in April 2018, the laboratory covers an area of more than 2000 m2. There are more than 150 sets of various testing equipment. The laboratory mainly includes: electrical, water quality analysis, environmental test, vibration and wind tunnel, which provides a good guarantee for innovative research and development and various tests.



广州实验室 GuangZhou laboratory



水质分析实验室 Water Quality Test Lab



理化实验室 Physicochemical Lab



冷却液配置实验室 Coolant Configuration Lab



量具仪器实验室 Measuring Instrument Lab



振动实验室 Vibration Lab



热工分析实验室 Thermal Analysis Lab



机械性能实验室 Mechanical Performance Lab



电气实验室 Electric Lab



高低温环境实验室 High and Low Temperature Environmental Lab









风洞测试系统 Wind tunnel test system



岳阳实验室 YueYang laboratory

岳阳高澜实验测试中心建立于2016年10月,可完成高低温实验、热负荷实验、表面测试、材质分析实验、力学实验、重量及密度实验、尺寸检验、电气测试等实验及仪器仪表的检测校准。

Yueyang Goaland experiment and test center was established in October 2016. It can complete high and low temperature experiment, heat load experiment, surface test, material analysis experiment, mechanics experiment, weight and density experiment, dimension inspection, electrical test and other experiments, as well as inspection and calibration of instruments and meters.





东莞实验室 DongGuan laboratory

东莞硅翔实验室设有原材料检测、环境可靠性检测、性能检测和外观尺寸检测,可完成对原材料的导热系数、阻燃、冷热冲击、温湿度、快速温变、寿命、盐雾、压缩曲线、高温冲击、邵氏硬度、厚度等的全方位检测。

Dongguan Guixiang laboratory is equipped with raw material testing, environmental reliability testing, performance testing and appearance dimension testing, which can complete all-round testing of thermal conductivity, flame retardant, cold and hot shock, temperature and humidity, rapid temperature change, life, salt spray, compression curve, high temperature shock, shore hardness, thickness, etc. of raw materials.





参**与起草标准**Drafting Standards

国家标准 National Standard	《高压直流输电晶闸管阀设计导则》 Design guidelines of thyristor valves for high voltage direct current (HVDC) power transmission
	《高压直流输电换流阀水冷却设备》 HVDC converter valve water cooling equipment
	《静止无功补偿装置水冷却设备》 Static reactive power compensation device Water cooling equipment
	《 电气装置安装工程 电力变流设备施工及验收规范》Electrical equipment installation engineering power converter equipment for construction and acceptance
	《柔性直流输电换流阀技术规范》 Technical specification of converter valves for HVDC power transmission
	《电力变压器第23部分:直流偏磁抑制装置》Power transformers-Part 23:DC magnetic bias suppression devices
行业标准 Industrial Standard	《高压静止无功补偿装置第5部分:密闭式水冷却装置》High voltage static reactive power compensation device- Part 5 : closed water cooling device
	《电力变流器用水冷却设备》 Power converter water cooling equipment
	《高原风力发电机组电气控制设备结构防腐技术要求》Technical specifications of structural anticorrosion for plateau wind turbine electrical control equipment
	《高原风力发电机组用全功率变流器液体冷却散热技术要求》Technical requirements of liquid cooling for the plateau wind turbine full-power converter
	《高原风力发电机组主控制系统技术规范》 Technical specifications of main control system for plateau wind turbine
综合标准 Comprehensive Standard	《风力发电机组水冷系统冷却液技术规范》Technical specifications of coolant for wind turbine generator water cooling system



荣誉资质 **Qualifications & Awards**

























产学研合作DUniversity-Industry Collaboration













产品分布Products Distribution





售后服务 After-Sale Services

高澜股份以创新、高效、协同、自强的核心价值观神; 以技术领先、科学管理、优良品质、客户满意为质量 方针;以客户为焦点,想客户之所想,急客户之所需。 已建立北京、上海、西安、岳阳、广州、东莞、美国、 欧洲、巴西、印度等售后服务中心。通过立体化的服 务网络,为全球客户提供高效的服务。

Goaland shares the core values of innovation, efficiency, coordination and self-improvement; and strives to achieve leading technology, scientific management, excellent products, and client satisfaction. Goaland have established after-sales service centers in Beijing, Shanghai, Xi'an, Yueyang, Guangzhou, Dongguan, and plan to build service centers in Europe, Brazil, and India. Goaland spares no effort to provide efficient and considerable services for global customers with integrated service network.





国内客户 Domestic Clients









































































国外客户 Overseas Clients





















动力电池 Power Battery





































整车厂 Vehicle Factory





社会责任 Social Responsibility

● 积极为社会创造价值 ● 全面提升产业链价值 ● 践行社会公共事业

Actively create value for the society

Enhance the value of industrial chain in an all-round way

Practice social public utilities



参与"一带一路" Taking part in "The Belt and Road Initiative"



与东盟中心签署战略合作 Signing strategic cooperation with ASEAN Center



设立武大 "高澜奖学金" Setting up "Goaland scholarship" of Wuhan University



积极推广清洁能源应用 Actively promoting the application of clean energy



智能微网 (绿色制造) Intelligent micro network (green manufacturing)



供应商大会 Supplier Conference



抗洪救灾捐助 Donations for flood fighting & disaster relief



慰问困难员工 Condolence to employees who have difficulty



抗击疫情捐赠 Donations to battles against coronavirus





党建工作 Party building work

- 广州高澜党支部成立于2019年
- 岳阳高澜党支部成立于2017年
- 东莞硅翔党支部成立于2019年
- 2017年、2018年、2019年、2020年岳阳高澜党支部 连续四年获得岳阳市优秀党支部
- 政治引领,促进企业发展
- 凝聚人心,建设幸福高澜

Guangzhou Goaland Party branch was established in 2019 Yueyang Gaoaland Party branch was established in 2017 Dongguan Guixiang Party branch was established in 2019 In 2017, 2018, 2019 & 2020, Yueyang Goaland Party branch won the excellent Party branch of Yueyang City for four consecutive years

Leading by politics to promote the development of enterprises

Uniting people to build a happy Goaland





















聚焦全场景热管理技术创新和产业化

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