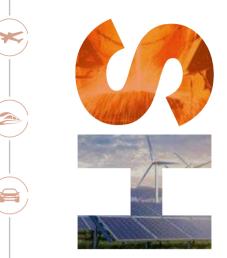
# Shenling



















Climate control expert for all professional fields

#### **Guangdong Shenling Environmental Systems Co., Ltd.**



No.29, Shunye East Road, Shunde, 528325, Foshan, Guangdong, China No.8, Xinglong 10th Road, Shunde, Foshan, Guangdong, China No.9, Huanzhenxi Road, Shunde, Foshan, Guangdong, China



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global@shenling.com



www.shenling.com www.shenlingglobal.com





**BRAND BROCHURE** 



Climate control expert for all professional fields















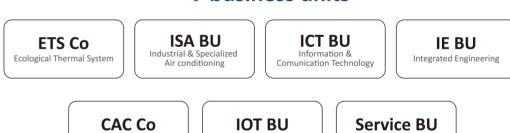
# **Shenling Group**

### **10 functional departments**

Research Institute Marketing BP/IT Finance Operation

Procurement QC HR Sales management Securities & Legal

### 7 business units



IOT & Control

Maintenances & Service

# 5 sales organizations





Stock Code: 301018

**-**0

### Milestones

#### Shenling 申菱 2002 2012 Three Gorges Hydropower Project New headquarter launched ICT/IDC solutian launched 2005 National Enterprise Technology Center Strategic cooperation 1988 Strategic cooperation with Huawei with ThyssenKrupp Shenling brand created Keep serving for industries with unitary AC chillers products HUAWEI 2000 2014 Shenling corporation founded 2003 Production base II launched 2007 Shenling Research Institute established Joint-lab with Siemens Guangdong Provincial Beijing Capital International Airport Engineering Research Center **Shenling Postdoctoral** SHENLING 中華 申菁空間 Programme established SIEMENS 西门子自动化与驱动集团

2021

I.P.O. in Shenzhen Stock Exchange Production base III launched





2025

Net zero emission factory to be launched



2016

National Technological Invention Award



2018

National Technology Innovation Model Enterprise Award

2023

Production base IV (Tianjin) launched

2017

China Patent Excellent Enterprise Award

Beijing Daxing International Airport



2019

National Intellectual Property Model Enterprise Award

2022

Zero emission building launched

2024

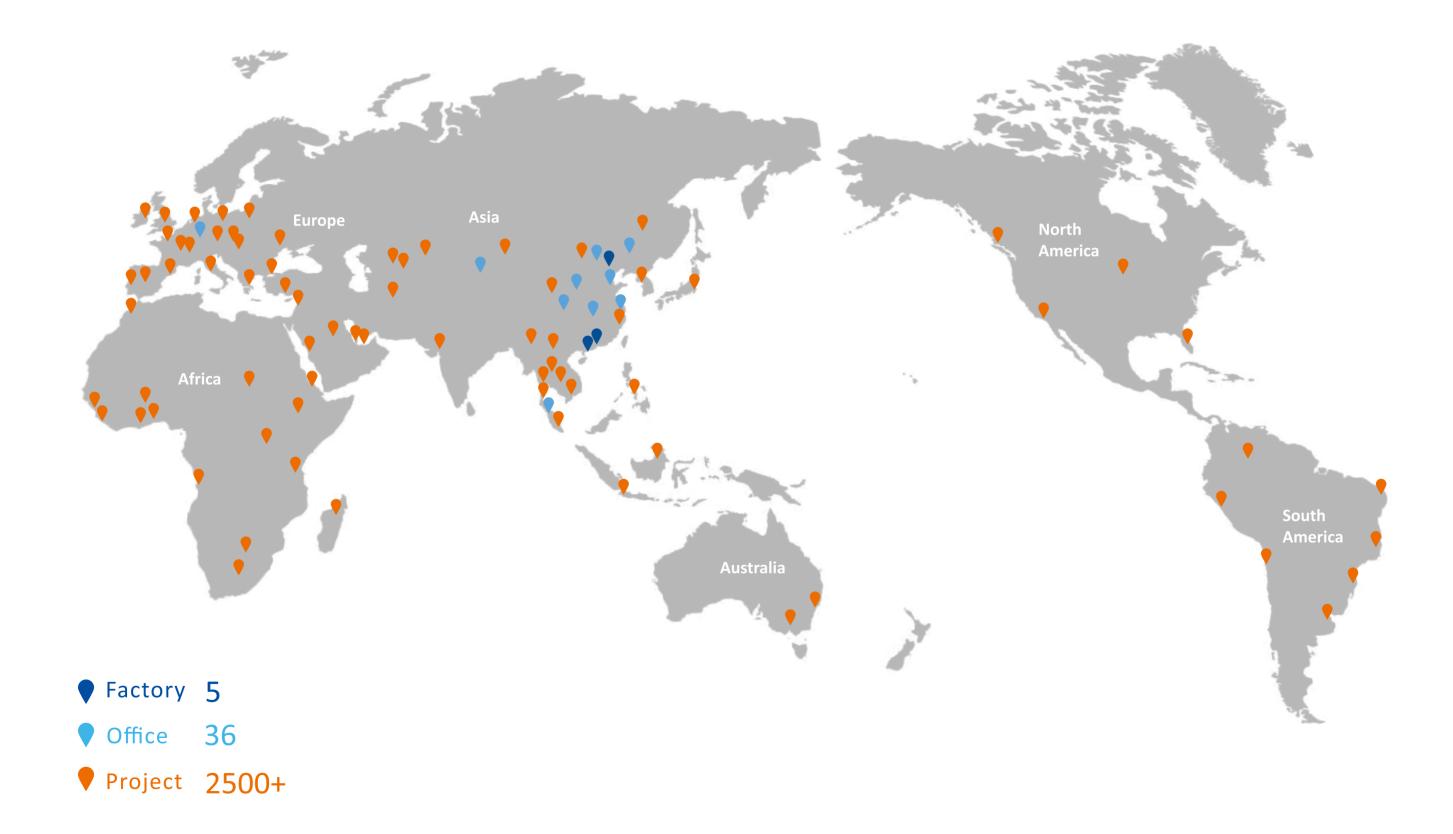
Production base II reconstructed & launched

Production base V (Gaozhou) construction started

Shenling Germany (Frankfurt) launched

04-

# **Global Layout**



**-**05

# **Application fields**



#### ICT/IDC fields

- · Cloud data center
- Supercomputing center
- Intelligent computing center
- Communication infrastructure
- Computer technology services
- Service room
- UPS & battery room

#### **Industrial fields**

- Automobile factory
- Battery manufacturing
- Pharmaceutical
- Precision electronic instrument
- Food industry
- Cement
- Metallurgy





#### **Specialized fields**

- PV/Wind power plant
- Hydro/thermal power plant
- Power grid converter station
- Energy storage cooling
- Nuclear power plant Aerospace
- Railway station
- Subway station
- Airport
- Hospital
- VOCs

#### **Commercial fields**

- Shopping mall
- Archives
- Hotel Stadium
- Library
- Theater
- Exhibition hall
- University
- Office building



#### **Heat pump**

- Residential heating
- Commercial heating
- District heating
- Energy management system

### Climate control expert for all professional fields

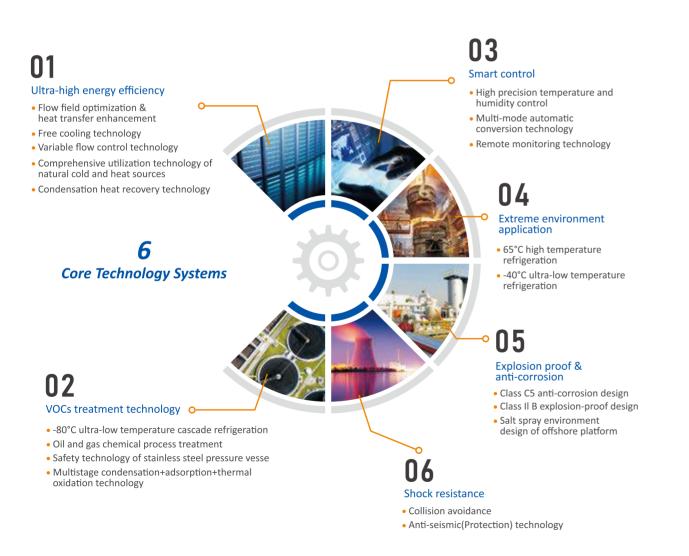


### Innovation system

1 state-level postdoctoral research station

1 state-certified technical center 20+ cooperative research institutes

#### Application of universal technology Individual product development Energy management system, AIOT platform, PCB & software R&D, renewable energy study & application 10 product development teams Level 4 2 province-level technical centers Level 2 Level 3 Exclusive technology Level 1 for specific product Exploratory study on cross categories Include: of foundational technology 8 research institutes 13 state-level laboratories Shenling R&D Academy





As a company, we recognise that our activities have an effect on the world we live in. For this reason, we have adopted a sustainable approach, focusing on three key areas in our activities: *environmental*, *social* and *governance*.



Shenling













Shenling





# **NZE 1.0**

# Zero emission building

Shenling Production Base III, launched in may 2022



Green power generated 7,302,900 kW·h



Co<sub>2</sub> emission reduced **2,966 tons** 



Energy saved **611,700 kW·h** 



Energy cost saved €144,828

\*The above data represents annual benefits









► LEED Platinum Certification

 Zero emission building authentication (Design+Operation)

# **NZE 2.0**

# Zero emission factory

Shenling Production Base II, launched in may 2025



Green power generated 3,000,000 kW·h



Co<sub>2</sub> emission reduced **1,884 tons** 



Energy saved 303,965 kW·h



Energy cost saved € 79,266

\*The above data represents annual benefits





# **Production system**

Shenling has leading technology and excellent management team, first-class production facilities, and IOT management system, which build up a solid foundation for Shenling's reputation in HVAC field. Currently, Shenling has *over 420,888 m*<sup>2</sup> research and manufacturing bases with modern equipments. The total production capacity exceeds *1 billion USD*, which can meet the customers' demand with short lead time and good craftsmanship.



Quality management system



Environmental management system



Occupational health & safety management system



Hazardous substance proces



Certificated Measurement Assurance System



Explosion Safety Inspection Attestation for R290 production line

### Five production bases -



#### Glances in the workshop



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### **Testing center**

Shenling has 3 testing centers to cover diversified product test items, including ETS Testing Center, HQ Testing Center and PBIII Testing Center, all built with the concept of digitalization by leading institutes, and equipped with top brand instruments and meters.





















#### **ETS Testing Center**

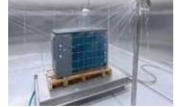
Intertek, SGS & TUV SÜD certified laborateries. All the aboratories were designed and constructed by top testing institutes, and can meet the testing requirements of EU and China standards, and the anti-explosion demand of combustible refrigerant e.g. R290. The testing ambient temperature range: -40~60°C, testing capacity range: 2~50kW.











#### **HQ Testing Center**

In total 8 labs, incl. enthalpy difference lab, water-cooled heat pump platform, air leakage rate testing device and transportation simulation tester with simulated test working condition  $-40^{\circ}60^{\circ}\text{C}$ , test capacity range  $2^{\circ}1800\text{kW}$ , air volume range  $250^{\circ}120,000$  m³/h and 4 tons max load of transportation test.











#### **PB** II Testing Center

In total 10 labs, incl. enthalpy difference lab, air cleanness ab, water-cooled heat pump platform, semi-anechoic lab, rotary dehumidifier lab, air volume testing device and high static pressure air leakage rate testing device, with simulated test working condition  $-30^{\circ}60^{\circ}\text{C}$ , test capacity range 6kW $^{\circ}1500\text{RT}$  and air volume range 1,500 $^{\circ}240,000$  m<sup>3</sup>/h.













### **Quality Control**

Since its establishment in 2000, Shenling has been keeping building a strong technical and management team, and developing a diversified production mode. With years of stringent quaity control, Shenling has obtained a range of certifications, including ISO9001, ISO14001, ISO45001, CCC, CB, CRAA, GCCA, AHRI, etc.

#### **New product quality control**

- Market/customer requirements identification, technical proposal review
- Leading the team to carry out DFMEA (severity, frequency, detectability)
- Problem identification & closing
- Problem summarization and identification improvement implementation

#### Advanced Product Quality Planning(APQP)



#### Incoming components problem screening

#### **Parts laboratory**

As the quality verification platform for technical evaluation and quality improvement of parts and components, parts laboratory provides incoming material inspection, systematic analysis of applied bad data, environmental adaptability/reliability verification and material failure analysis.









#### **Manufacturing process quality control**

By establishing a product QCP and integrating it with the MES, key control points in the manufacturing process are managed effectively.

#### IT-based management:

- Leveraging the MES for tracking data and information
- IT-based inspection for standardizing inspection procedures & preventing errors
- Displaying non-conformance judgements









Control quality factors & set up self & mutual inspection systems



Implement strict entry & exit controls to improve issue detection



Enhancing the traceability of key operational positions during transit

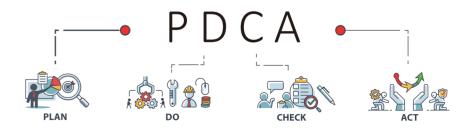


Clearly displayed & enabling traceable quality data

#### **Quality improvement**

Shenling has established quality management platform for continuous improvement. By focusing on VOC and VOB according to product demands and PDCA principles, and carrying regular specific activities such as QCC and quality projects, Shenling promotes continuous product quality improvement.

- Major quality improvement projects
- Rationalization suggestions, CAR forms, and non-conformance reports
- Establishing an integrated platform for after-sales service, customer follow-ups, and prompt responses.



 $_{20}$ 

## **Technical & service support**



#### Technical Training

#### Design & Application trainings

The design and application trainings for various products are basically for the sales personnels selling products in order to give them basic understanding about the main features.

#### After sales-service trainings

These trainings are dedicated for after sale-service personnels in order to better carry out the installation, commission and maintenance of the products. In Shenling training centers, the trainees have chances to solve malfunctions on real products, delicately prepared for each training.



#### **Training Center**

The training centers provide hands-on experiences with various systems, components and controls to refresh and enhance the skills of our sales, design and installation and service teams.

#### **Factory Training Center**

**Shenling ETS Training Center** 

Address: No. 29, East Shunye Rd, Shunde, Foshan, China Products: air source heat pump, PVT, energy storage, specialized AC

Shenling HQ Traning Center

Address: Xinglong 10 Rd, Shunde, Foshan, China Products: centrifugal chiller, screw/scroll chiller and terminals, system design and engineering, IOT&smart control

#### **Regional Training Center**

Malaysian Training Center

Address: A-5-7 Menara Prima Avenue (The Tube), Jalan PJU 1/37, Dataran Prima, 47301 Petaling Jaya, Selangor

German Training Center

Address: Room 0779, HdM, Frankfurter Str. 70-72, 65760 Eschborn



#### **Regional Service & Part Center**

Shenling Environmental System(Malaysia)

Address: A-5-7 Menara Prima Avenue (The Tube), Jalan PJU 1/37, Dataran Prima, 47301 Petaling Jaya, Selangor, Malaysia

Shenling Deutschland GmbH

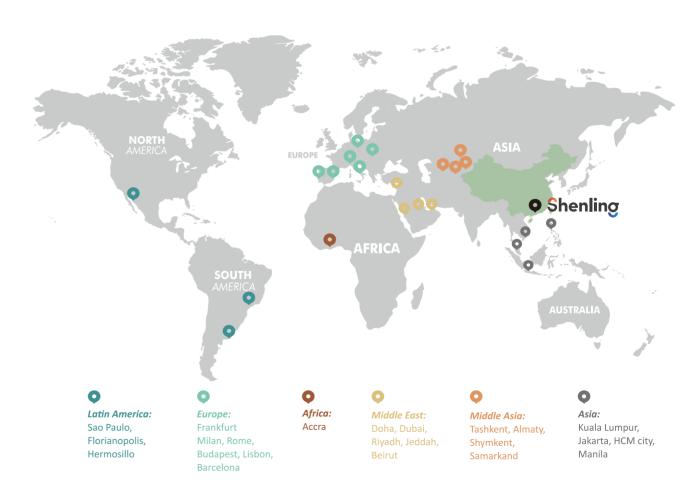
Address: Room 0779, HdM, Frankfurter Str. 70-72, 65760 Eschborn, Germany





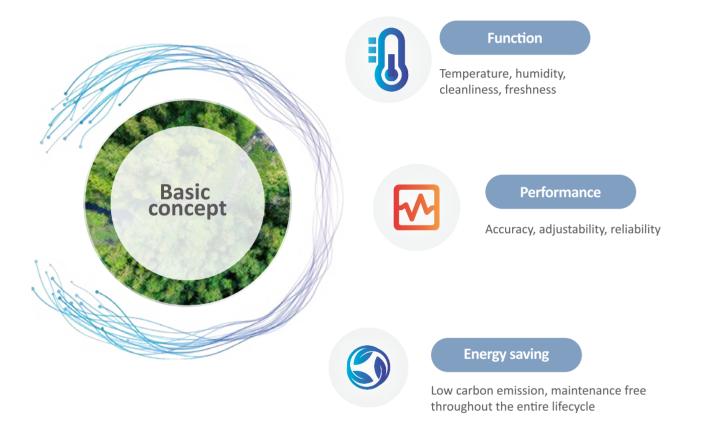


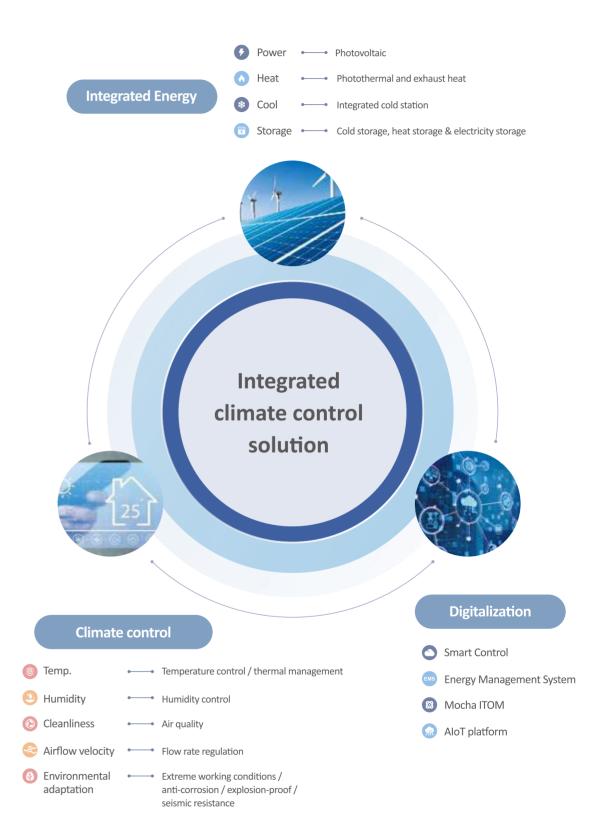
#### **Local Service Center**



22\_\_\_\_

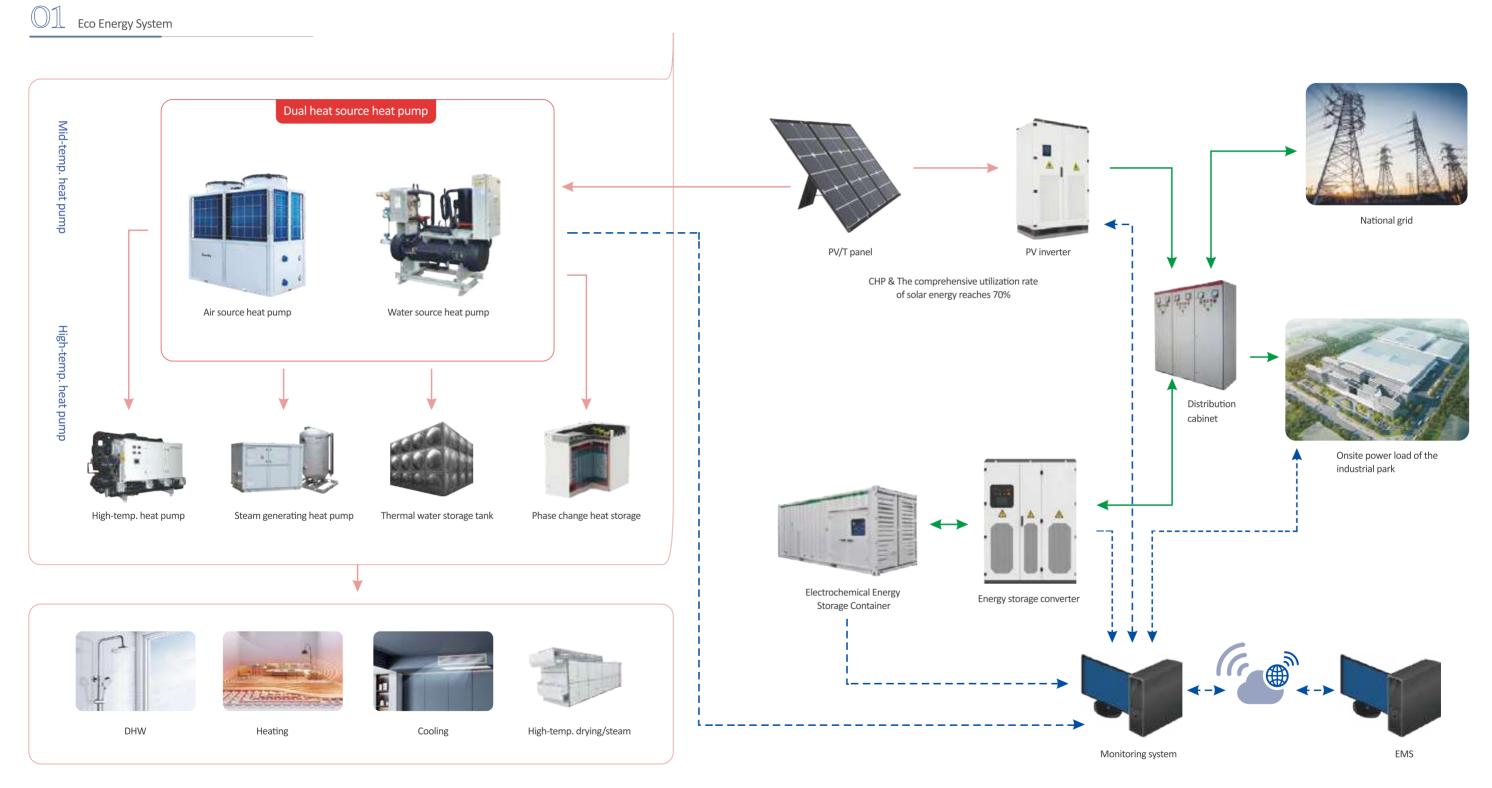
# **Integrated climate control solution**





# **Low-carbon technology**

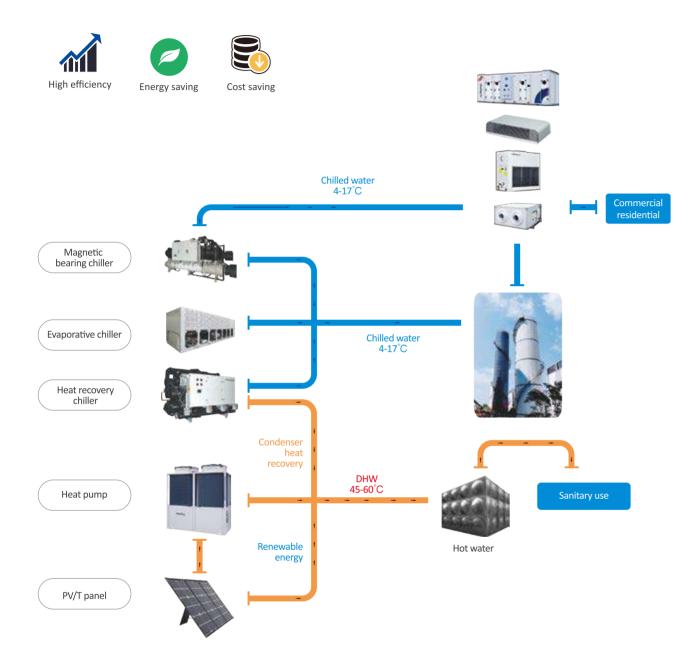




In coordination with various types of heat pumps, meeting temperature range of 35~110°C for variable heating demand.

Coordinated optimization of the power source, grid, load and storage.

### High efficient cooling & heating sources





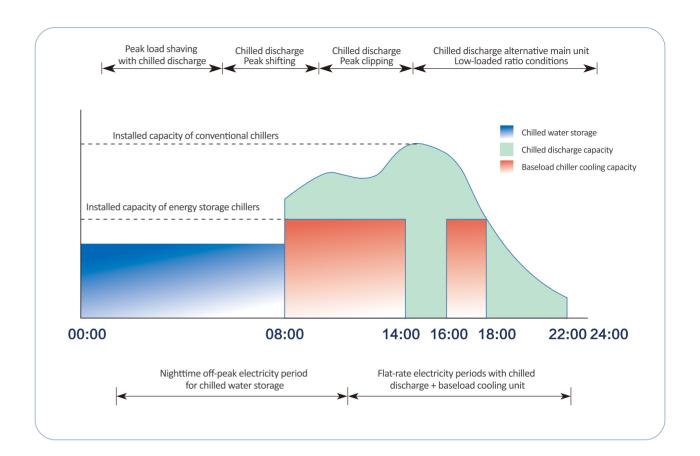






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Large temperature difference water storage technology for cooling and heating



#### Industrial park cooling

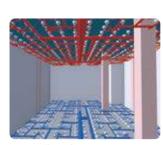
By utilizing the peak and off-peak power price difference, thermal energy storage is designed to start chiller and storage chilled water during off-peak hours at night and discharge during the daytime to reduce the cost of cooling.

The large temperature difference thermal energy storage solution further increases the chilled storage capacity, reduces the footprint, and decreases the energy consumption of the distribution system; the thermal storage water tank/pool serves dual purposes for AC and fire protection.

#### Industrial park hot water

By intergrating with high-efficiency, high-temperature heat recovery chillers, the system recovers exhaust heat from AC(at 15/60  $^{\circ}$ C) for water heating, providing free hot water for both industrial and sanitary use.

2~4 year
Investment payback period

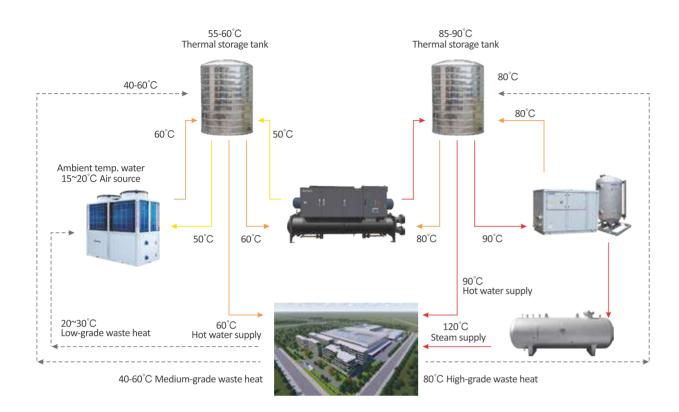


Thermal energy storage

Vertical chilled water storage tank

**-**27

# Thermal Energy Storage and Utilization Technology

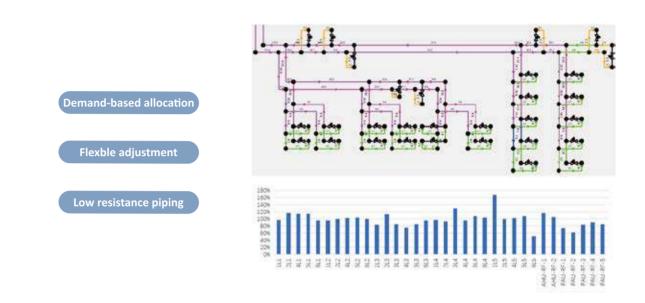


# Heat Pump/Energy Cascade Utilization

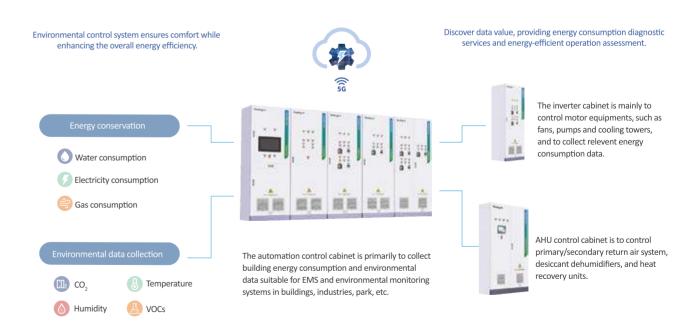
**-**29



# Efficient Distribution Technology



# Intelligent Control for Efficient Operation



30-

## **Integrated implementation**



Full BIM process, prefabrication in factory

#### BIM design

Through Building Information Modeling(BIM) system, to design the chiller plant and prefabricate the pipeline in factory, engineering team can easily assemble the system on site.



#### Shenling prefabrication factory 10000m<sup>2</sup>

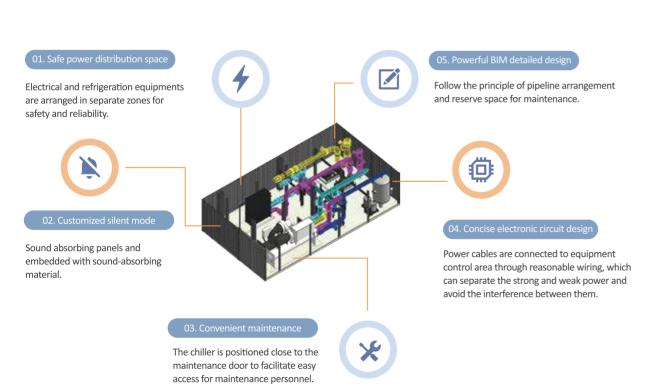
Equipped with advanced pipeline automation and welding technologies, manufacturing faster, more efficient and higher quality than manual. The factory features advanced high-tech equipment that can effectively handle and process various forms of pipelines, enhancing work efficiency.





Prefabricated chiller plant

#### Integration, modularization and prefabrication

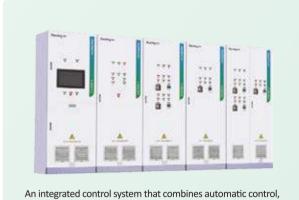


### **Automation**

#### Software platform



#### Automatic control solutions



An integrated control system that combines automatic control, energy-saving strategies, energy-efficient measurement, and environmental monitoring





Power intelligent modules

32—

# Integrated energy management platform



#### Indoor climate sensing & automatic control

Users can access indoor climate parameters and adjust the indoor climate in real time based on their personal comfort.





#### Digital platform

3D monitoring of HVAC, power distribution, lighting and elevators.



#### Equipment management

Equipment monitoring, central control, fault location, visual management, etc.



#### **Energy management**

Energy consumption analysis of water, electricity, gas, heating & cooling, etc.



#### Intelligent operatio & maintenance

Fault warning, efficient operation and maintenance, big data.

#### Intelligent operation

04

03

Fault location, efficient operation and maintenance, big data, energy efficiency analysis and diagnostics.

#### Energy Optimization

- Optimized coordination of the power supply, wiring network, load and consumption.
- Optimal Dispatch of Integrated Energy with Multi-Energy Complementarity.

**-**33

### ICT/IDC

#### LINK series



LINK-ROOM In-Room Precision AC



LINK-ROW In-Row Precision AC



WIND-WALL Precision AC



LINK-PANEL Gravity heat tube Rack-panel Precision AC



LINK-RACK Rack-mounted Precision AC



Plate type outdoor unit



V type outdoor unit



V type outdoor unit

#### **SKY** series



SKY-ACMECOL liquid cooling system



SKY-IEC indirect evaporative cooling unit



SKY-ACMECOL immersion liquid cooling system



SKY-TCOL fluorine pump multi-connected cooling system

#### **Dry cooler**



Dry cooler



ICT cooling solutions

#### **Mining Box**





Air cooled mining box

#### **Data center functional products**



Data center humidifier



Unitary humidity-static Unit



Data center mobile dehumidifier

### Chiller

#### Centrifugal chiller



Water cooled magnetic bearing centrifugal chiller



Falling film water cooled inverter direct-drive centrifugal chiller



Water cooled centrifugal chiller

#### **Screw chiller**



Air cooled free cooling screw chiller



Air cooled flooded type screw chiller



Air cooled DX type screw chiller



Air cooled inverter screw heat pump



Air cooled four-pipe screw chiller



Air cooled modular screw chiller



Water cooled flooded type screw chiller



Water cooled flooded type inverter screw chiller



Water cooled high temperature heat recovery screw chiller

#### **Scroll chiller**



Air cooled low ambient temperature scroll chiller



Air cooled DC inverter scroll chiller



Water cooled scroll chiller



Air cooled large scroll chiller

#### **Evaporative cooled chiller**



Evaporative cooled condensing chiller



Evaporative cooled condensing chiller

#### Prefabricated chiller plant



Flat-shop chiller plant



Indoor skid-mounted chiller plant



Outdoor cascade chiller plant



Water cooled packaged screw chiller



Evaporative cooled packaged chiller plant (Magnetic / Inverter screw)

### **Product lineup**

### Unitary



**Industrial unitary AC** 





Air cooled ceiling ducted



Air cooled floor standing unit

Outdoor unit



Water cooled floor standing unit



Outdoor unit



Suspended AHU (single skin)

**Terminal series** 

Horizontal AHU



Suspended AHU(double skin)

Vertical AHU



Suspended air jet AHU

Modular air handling unit



Full fresh air direct expansion multifunctional heat recovery unit



Variable air path combined air-conditioning unit



Wind wall type combined air handling



4-way cassette fan coil unit



Ducted fan coil unit

#### **Dehumidifier**



Cooling /temp-control dehumidifier



Heating on/off dehumidifier



Temp-controlled inverter dehumidifier



Ducted Type Dehumidifier



Outdoor unit



Outdoor unit

Vertical air jet AHU

### **Specialized series**

#### **Direct expansion**







DX AHU (Inverter)







DX AHU (Non Inverter)

#### **Anti-seismic & Anti-impact series**



Nuclear-grade direct evaporation air conditioning unit



Nuclear-grade combined air handling unit



Nuclear-Grade wall mounted unit



Nuclear island seismic-resistant flooded type air cooled chiller



Nuclear-Grade Air Conditioner Outdoor Unit



Nuclear-Grade Ceiling Ducted Unit

#### Rooftop





Rooftop packaged unit

### **Specialized series**





Clean operation room air conditioning unit



Coating industry air-conditioning unit



Full operation conditions air conditioning unit



Rooftop split unit



Screw type outdoor unit



Scroll type outdoor unit



Industrial high temperature steam heat pump(120°C)



Condensate exhaust air heat recovery all-in-one unit



Explosion-proof air conditioner

### **Product lineup**

#### **Pre-conditioned air unit**



Bridge mounted type



Floor standing type



Portable type

#### **Petrol vapor recovery**



Integrated oil & gas condensation unit



Oil & gas adsorption unit



Integrated oil & gas recovery unit

### **Battery cabinet cooler**

#### Air-to-liquid all-in-one cooling



Built-in type



Side-mounted type



External installation

#### Air-to-air all-in-one cooling



Door mounted semi-embeded type



Wall hang embeded type



Built-in floor standing type

### **Heat pump**

#### R32 series



Split series



Mono series



Light commercial series

#### R290 series



HyQube series



Light commercial series



Polestar series

#### **IOT Controls**



Intelligent Operation & Maintenance Platform



Integrated Energy Management Platform



Industrial Park Management Platform



Intelligent Building Management System



Energy & Carbon Management Platform



Intelligent Chiller Plant Management System



Intelligent Hospital Management Platform



Online Service Management Platform





Malaysia Johor M2 Data Center

Malaysia Johor MY06 Data Center







Southern Base of China Mobile

National Supercomputing Center at NUS (Singapore) Shanghai jinshan Data Center Project







Samsung Electronics Tianjing/Vietnam base

Inner Mongolia Kwai inteligent Cloud Project

Ningxia Haoyun Data Center Project







Shanghai L3 Liquid Cooling Project

Hebei Huailai Wind Wall Project

International Cloud Fusion Port ICFZ Project

Guangzhou Yun Base Liquid Cooling Project







Shenzhen Lihe Press Data Center Project

Shenzhen/Shantou Unicom Tencent IDC Project







Alibaba Miaotan F-Building Project







Guian Netease Data Center Project

ZTE corporation

Tencent Tianjin R&D and data storage center







Hebei Yali Meituan Project



Zhangbei Alibaba Data Center Project









JD Group Langfang Data Center Project

Shanxi Yangquan Baidu Cloud Computing Center Project Guilin Economic Development Zone IDC Project





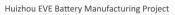


China Mobile Tibet IDC Project

Lanzhou Smart City Data Center Proiect

China Mobile Phase I Yunnan Data Center Project







Chint New Energy Technology Co., Ltd.



Shenzhen BAK Battery Co., Ltd.



Penghui Energy's Quzhou Base 20GWh Smart Energy Storage Battery Project



Xuzhou Jinfu New Energy Co., Ltd.



XingHeng Power Co., Ltd.



Zhongchuang Xinhang Technology Co., Ltd.



Shenzhen Pangu Naxiang New Energy Co., Ltd.



Sichuan Svolt Energy Power Battery Manufacturing Project



Guangzhou Toyota Motor New Energy Vehicles Project



Yichang Bangpu Battery Circulation Integration Project



Liansu Banhao PV New Energy Technology (Guangdong) Co., Ltd.



Fuding Era New Energy Battery Production Base



Dongfeng Lishen Battery Production Base



Ningxia Baofeng Yuneng Technology Co., Ltd.



Xiaopeng Automotive Kedee New Energy Industrial Production Base



Guangzhou GAC Aian 26.8GWh Power Battery Project



Anhui Guoxuan Aluminum Technology Co., Ltd.



Shanghai Electric Guoxuan New Energy Technology Co., Ltd.





Floripa Airport

Vitoria Airport in Brazil







Beijing Daxing International Airport

Shanghai Hongqiao International Airport

Shanghai Pudong International Airport







Cambodia Angkor International Airport

Thailand Phuket Airport

Guyana Cheddi Jagan International Airport







Beijing Capital International Airport

Hongkong International Airport

Tianjin Binhai International Airport







Harbin Taiping International Airport Changsha Huanghua International Airport

Guangzhou Baiyun International Airport



Shenzhen Baoan International airport





Brazil Natal Airport

Nanjing Lukou International Airport

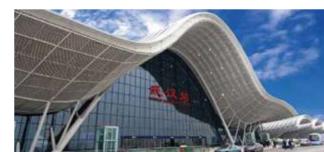






Shenzhen North Railway Station

Guangzhou Metro





North station of Wuhan station

Guangzhou South Railway Station







Tianjin West station/Nanjing South station of Beijing-Shanghai High-speed railway

Urumqi Diwopu International Airport

### Commercial/Public Building

#### Reference Projects <





2010 South Africa World Cup Main Stadium

Togo Stadium





IKEA Shanghai/Beijing/Shenyang club

Guangzhou White Swan Hotel







Hong Kong-Zhuhai-Macao Bridge

Pazhou Exhibit of China Import and Export Fair

Guangzhou Tower







Ethiopia Oromia International Bank

Chinese Embassy in Ghana

Congo Kinshasa Cultural Center







China National Centre for the Performing Arts

Municipal Dministration / Public Construction / ScienceDucation, Culture and Healthcare

FedEx Asia Pacific Transshipment Center







Guangzhou Chimelong Hotel







Hangzhou Olympic Sports Center Gymnasium

Korean Consulate General in Guangzhou

China National Silk Museum







Guangdong Provincial Emergency Command Center Shenzhen Luohu Sports Center

Shenyang Xingmore Shopping Plaza







Ningbo Olympic Sports Center

Cultural Venue of the 12th National Games of Liaoning Province

Capital Library







Wuhan University

Sun Yat-sen University

University of Macau Hengqin New Campus



Sinopharm Group Guangdong Medi-World Pharmaceutical Co., Ltd.

CSPC Pharmaceutical Group







Sri Lanka National Hospital

Uzbekistan Surgical Treatment Center

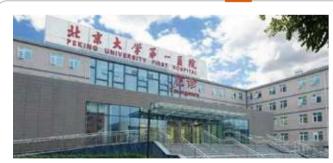
Mentholatum(China) Pharmaceutical Co., Ltd







Seychelles Anse Royale Comprehensive Hospital Project China Resources Sanjiu Medical & Pharmaceutical Co., Ltd Guangzhou XiangxuePharmaceutical Co., Ltd.





Peking University Hospita

Fujian Maternity and Child Health Hospita

Xiangya Hospital, Central South University

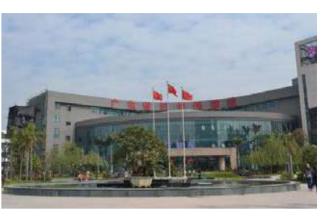




Shenzhen BGI Genomics Co., Ltd,







Maternal and Child Health Hospital of Guangdong Province





West China Hospital, Sichuan University

Beijing Union Medical College Hospital





Nanfang Hospital

China Resources Sanjiu Medical & Pharmaceutical Co., Ltd





Shanghai General Hospital

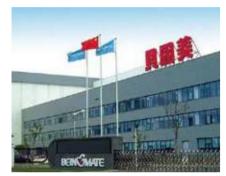
Jiuzhitang Co., Ltd.





Coca-Cola (Shanghai Factory / Nanning Factory / Chongqing Factory)

P&G (Guangzhou) Co., Ltd.







Beingmate Baby & Child Food Co., Ltd.

Guangdong Jianlibao Group Co., Ltd.

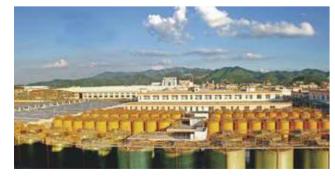
Vinda Paper (China) Co., Ltd.

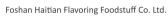




China Tobacco Hunan Industrial Co., Ltd.

COFCO Group

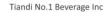






Yangxi Chubang Soy Sauce Factory







Guangzhou Blue Moon Industrial Co., Ltd.







Qingyuan Jiaduobao Herbal Plant Technology Co., Ltd







Guangzhou Liby Enterprise Group Co., Ltd.



Budweiser (Foshan) Brewery Co., Ltd



Muyuan Foods Co., Ltd.



Nanning Tsingtao Brewery Co., Ltd.

**-**55

### **Automobile**







Tesla Energy Storage Gigafactory

Shenzhen BYD Auto Co.,Ltd.







BMW Brilliance Automotive Shenyang Production Base Fujian Benz Automotive Co., Ltd.

SAIC Volkswagen Automotive Ningbo Factory







Daqing Volvo Car Manufacturing Co., Ltd.

Hyundai Motor R&D Center (China) Co., Ltd.

GAC Toyota Motor Co., Ltd.







Dongfeng Motor Corporation

Changan Ford Automobile Co., Ltd.

Changan PSA Automobiles Co., Ltd.





SAIC Motor Corporation Lingang / Zhengzhou Industrial Base

Sundiro Honda Motorcycle Co., Ltd.





Guangzhou Automobile Group Motor Co., Ltd.

Great Wall Motor Co., Ltd.







Zhengzhou Yutong Bus Co., Ltd.

SAIC Volkswagen Automotive Ningbo Factory

Shaanxi Heavy Duty Automobile Co., Ltd.







Geely Automobile Xi'an/Baoji Base

Chongqing Changan Automobile Co., Ltd.

China National Heavy Duty Truck Group Co., Ltd. (CNHTC)







SAIC-GM-Wuling Automobile Co., Ltd.

Chery Automobile Co., Ltd.

Jiangling Motors Co., Ltd.







BAIC Motor Corporation Zhuzhou Branch Guangdong Foday Automobile Co., Ltd.

SAIC-GM-Wuling Automobile Co., Ltd.









Anshan Iron and Steel Group Steelmaking Factory

Hesteel Group Jixuan Steel Capacity Transfer Project China Aluminum Corporation Liancheng Branch



Baosteel Group & Its Subsidiaries



Posco (Zhangjiagang) Stainless Steel Co., Ltd.



Ningbo Iron and Steel Co., Ltd.



Wuhan Iron and Steel Co., Ltd.











Baotou Iron and Steel (Group) Co., Ltd.



Guangxi Iron and Steel Group Co., Ltd.



UAE ABMC Cement Plant



China FAW Group Corp., Ltd.



Angang Steel Group Limited



Baotou Iron and Steel (Group) Co., Ltd.



Hesteel Group Jixuan Steel Capacity Transfer Project



Nanjing Nangang Industrial Development Co., Ltd.



Jiujiang Pinggang Iron & Steel Co., Ltd.







BASF Chongqing MDI Production Base



Daikin Chemical(China) Co., Ltd



Kazakhstan Integrated Petrochemical Complex (IPCI) Project



Saudi Arabia InoChem Soda Ash & Calcium Chloride Project



Kazakhstan Gas-Chemical Complex Project



CNOOC Iraq Ltd.



Zhejiang Petrochemical 13#~18# Liquid Dock Vapor Recovery Unit





Nanhai petrochemical base of CSPC



Sinochem Shandong Huaxing Vapor Recovery Tank



Petro china company Ltd.



Sinopec Guangzhou Vapor Recovery Unit



Brunei PMB Petrochemical Project



Hengyi (Brunei) PMB Petrochemical Project



Sinopec Wuhan Vapor Recovery System of Oil Termina



Zhongtian Coal Deep Processing Demonstration Project



Sinopec Shengli Vapor Recovery Project



Sinochem Shandong Zhenghe Vapor Recovery Project Sinopec TPCC Tianjin Clustered Ethylene Project





ExxonMobil Huizhou Ethylene Project (Phase I)



Sinopec Anging Refining and Chemical Structure Adjustment Project



Sinopec Zhanjiang Vapor Recovery Unit of Storage Tank



Tianjin Bohua Chemical Co., Ltd. Chlor-Alkali Integration Project



Fujian Refining and Chemical Integration Project



Three Gorges Hydropower project







Wudongde Hydroelectric Power Station

Jingpin Hydro-power Station

Baihetan Hydro-power Station







Ethiopia Tekeze Power Station

India Jhajjar Power Station

India Jharsuguda 6\*600MW Independent Power Station





National Grid Yulong Converter station

Guangzhou Pearl River LNG Power Plant II









National Grid Converter Station

SGCC Xinjiang Electric Power Co., Ltd.+800kV UHV Converter Station

SGCC +800kV Gansu UHVConverter Station







Pakistan Chashma Nuclear Power Plant





Pakistan Chashma Nuclear Power Plant

Pakistan Chashma Nuclear Power Plant







Jiangsu Rudong 800MW Offshore Wind Farm Project





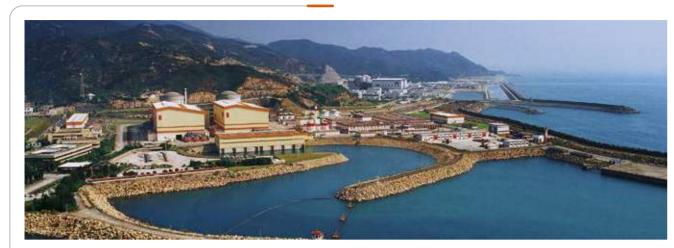


Iraq Huashide Power Plant



Sanxia New Energy 300MW Offshore Wind Farm Project

### Nuclear Power / Nuclear Chemicals



Daya Bay Nuclear Power Base





Fuqing Nuclear Power Station

Haiyang Nuclear Power Station

China Advanced Passive 1400





Pakistan Karachi Nuclear Power Plant

Taipingling Nuclear Power Station







Pakistan Port Qasim 2x660MW Coal-Fired Power Plant





Fujian Ningde Nuclear Power Station

Zhejiang San'ao Nuclear power station







CNNC Xiapu Nuclear Power Station

Shandong Shidao Bay Nuclear Power Station

Zhangzhou Nuclear Power Sation





Tianwan Nuclear Power Station

Guangdong Yangjiang Nuclear Power Station





Qinshan Nuclear Power Station

Xudabao Nuclear Power Station







Ling'ao Nuclear Power Station

Liaoning Hongyanhe Nuclear Power Station

Hainan Changjiang Nuclear Power Plant

### Aerospace Industry





Taiyuan Satellite Launch Center

Ningbo Aerospace Launch Site





China Aerospace Science & Technology Corporation

AVIC General Aircraft Co., Ltd.







Aviation Industry Corp. of China

AVIC Beijing Research Institute of Aeronautical Materials

AVIC General Aviation South China Aircraft Industry Co., Ltd.







Guizhou Liyang Aero-Engine Co. Ltd.

AECC Aviation Power Co. Ltd.

Shanghai Aircraft Manufacturing Company





China Aviation Planning and Design Research Institute

Changhe Aircraft Industries Corporation







Shaanxi Aircraft Industry Group

Northwest Industries Group

Aero Engine Corporation of China (AECC)







China Aerospace Science and Technology Corporation

Shenyang Liming Aero Engine Group







Chongqing Jialing Special Equipment Co., Ltd.

Aerospace Engine Research Institute (Suzhou) Co., Ltd Shanghai Satellite Research Institute

### Heat pump

Ningxia Cloud Computing Base Project —













Cottbus, Germany





Cottbus, Germany

Zwickau, Germany







Cottbus, Germany

Cottbus, Germany

Budapest, Hungary







Rome, Italy

Cottbus, Germany

Madrid, Spain

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