

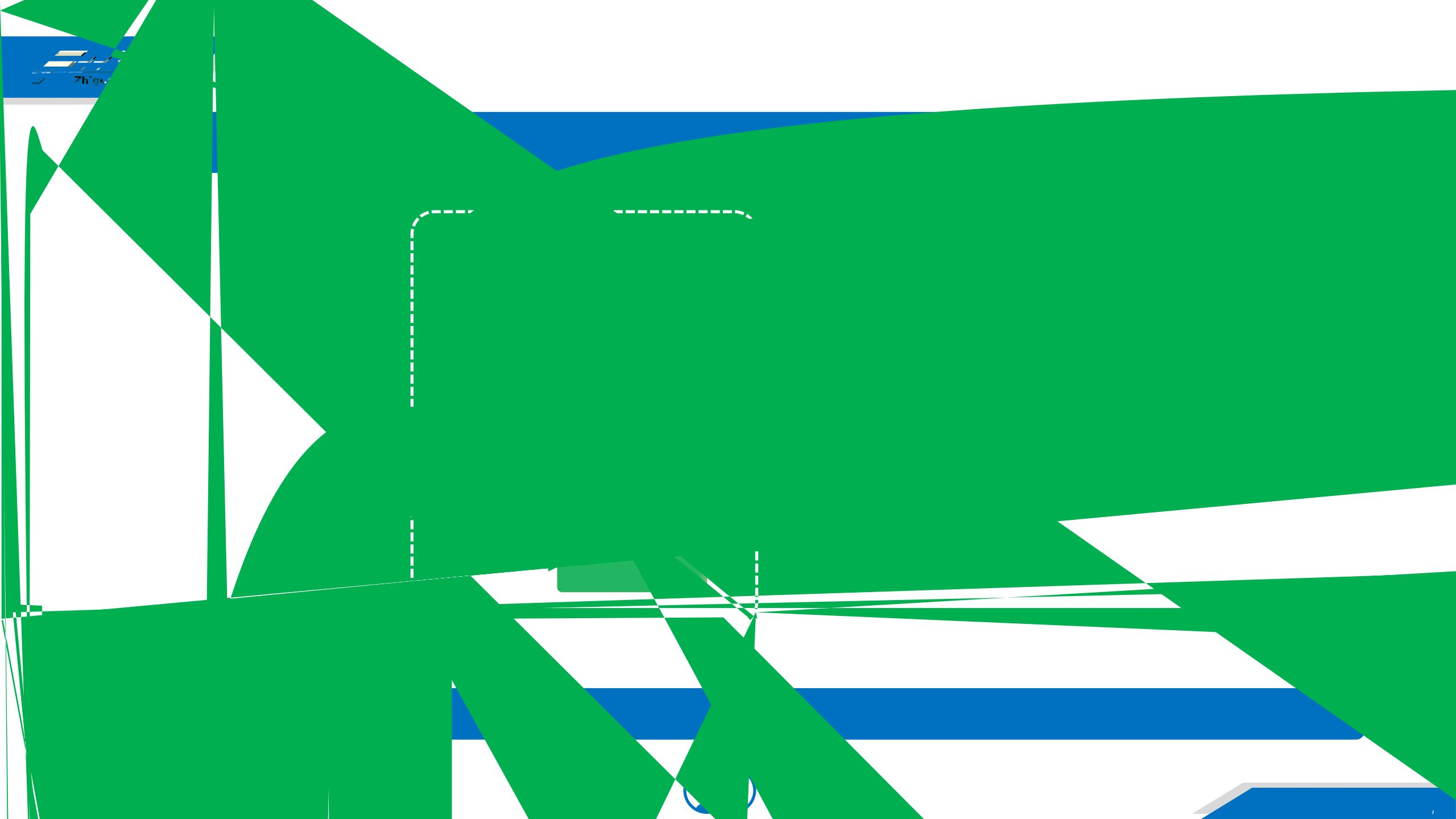


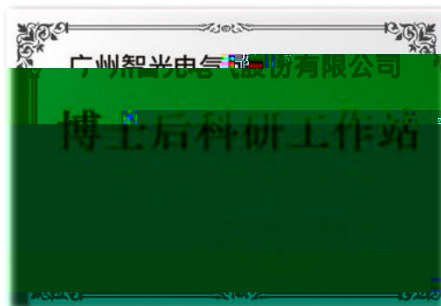


With the main business in digital power system, Zhiguang Electric took the first step towards "a pure and advocate of smart2W energy".

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Smart Energy



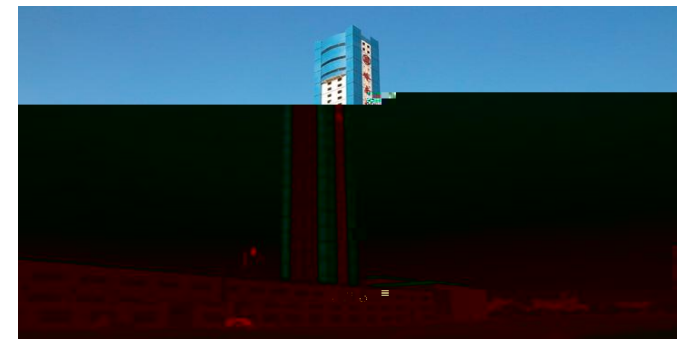
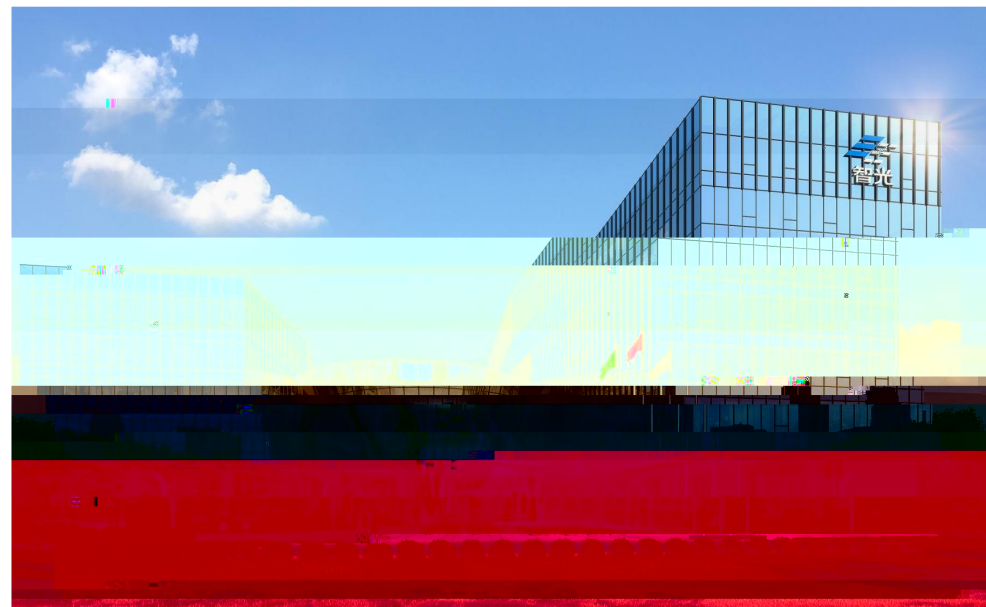


Huangpu Science City
ZhiGuang Electric headquarters
ZhiGuang Integrated Energy Industrial Park

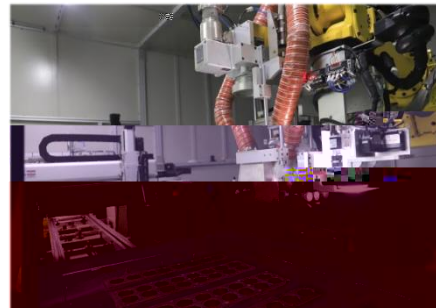
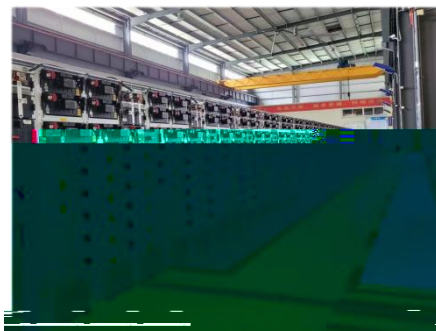
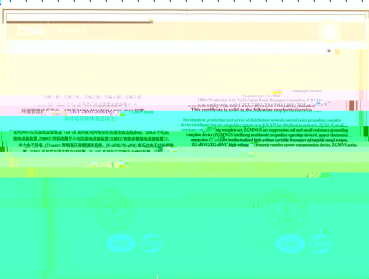
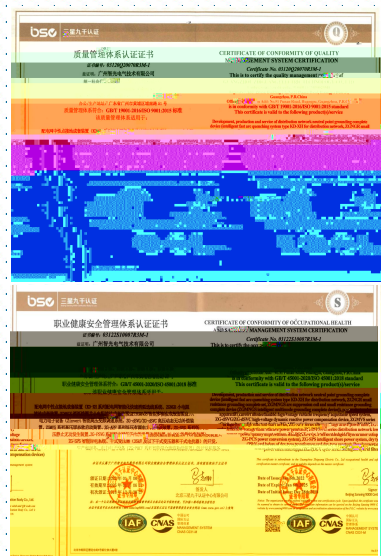
Yunpu Park
Power electronic
products R&D and
manufacturing base

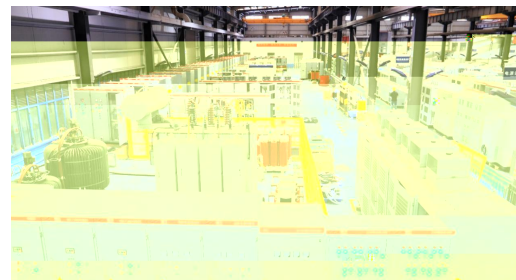
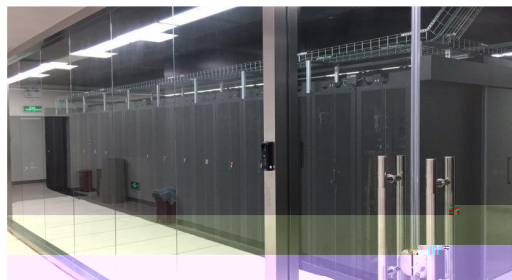
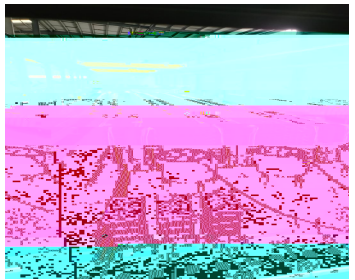
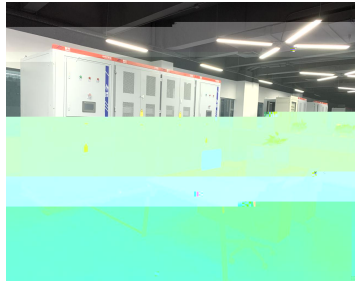
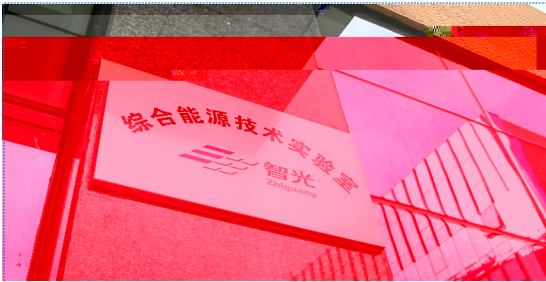
Yonghe Park
Energy storage technology
research and manufacturing
base under construction

Nansha Park
Power transmission
products R&D and
manufacturing base



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ZhiGuang





Power electronics simulation laboratory

Experimental platform for 5MW energy storage

35kV Renewable energy grid-connected mobile test device

Power electronics control technology research laboratory

35kV Cascaded high voltage energy storage system

Zhiguang proprietary cloud data center

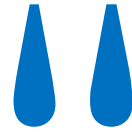
High voltage high power electronics test room

Ultra-large capacity high voltage frequency conversion technology laboratory

Special electric reactor laboratory

Cable high voltage partial discharge test laboratory

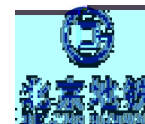




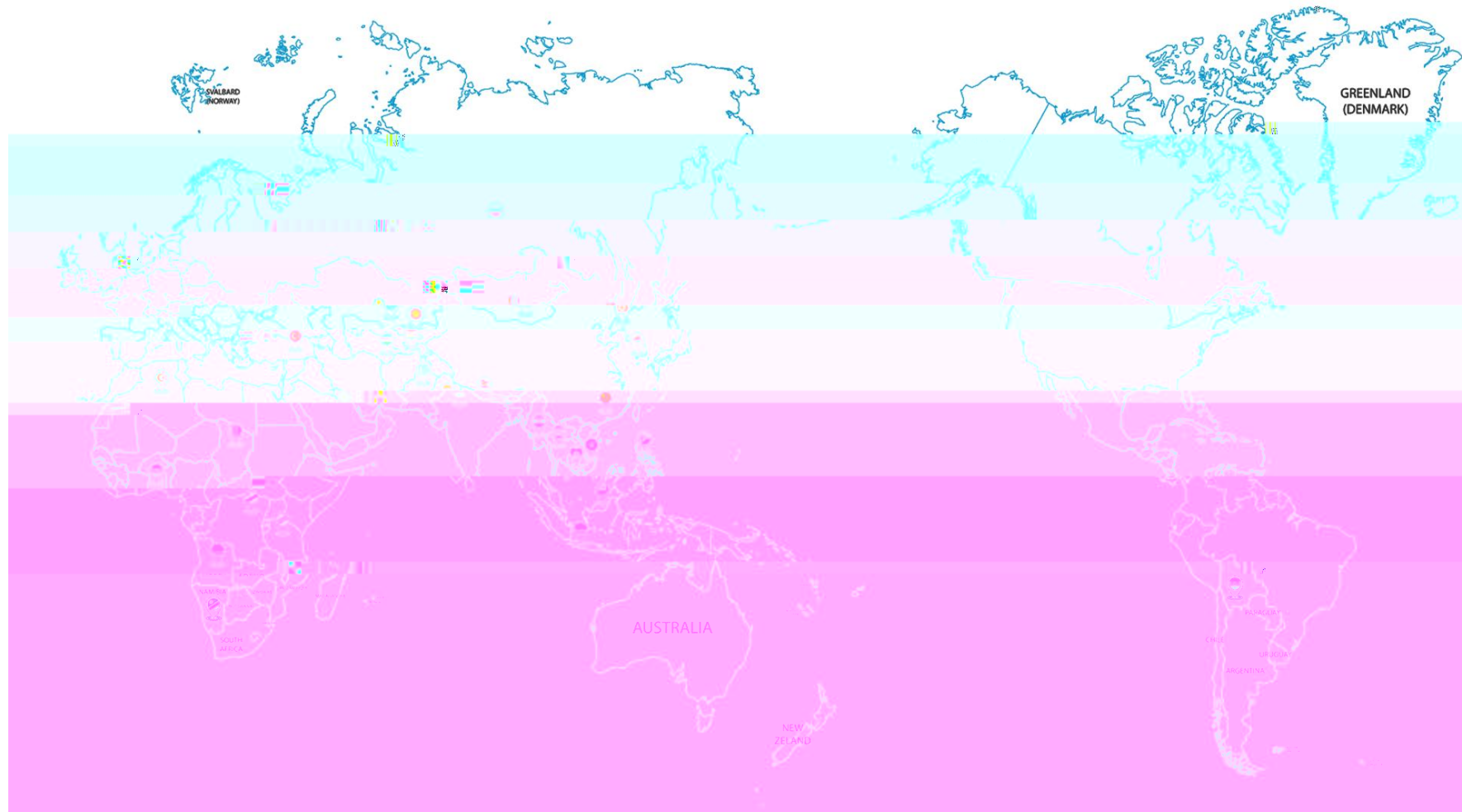
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Specification of Arc Suppression Coil Apparatus with Automatic Tracking and Compensation	DL/T1057-2007
The Guide of Design Optimization for Motor Systems (Fans, Pumps, Air Compressors)	GB/T 26921-2011
Power Transformers - Part 6: Reactors	GB/T 1094.6-2011
The Methods of Electric Power Balance Test and Calculation in Fan System	GB/T 13467-2013
Dry-type Converter Transformers for High Voltage Frequency Control	NB/T 42021-2013
Adjustable Speed Electrical Power Drive Systems - Part 5	GB 12668.501-2013
Power Cables with Cross-linked Polyethylene Insulation and Accessories for Rated Voltage of 110 kV(U _m =126 kV) - Part 1: Test Methods and Requirements	GB/T11017.1-2014
Long AC Submarine Cables with Cross-linked Polyethylene Insulation and Their Accessories for Rated Voltage of 220kV (U _m =252kV)	GB/T32346.1-2015

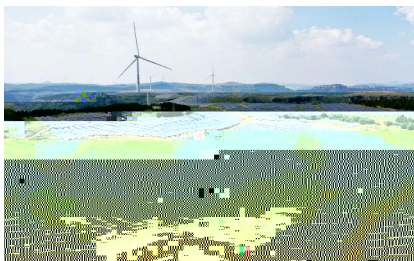
Large and medium-sized corporate groups



↘ Overseas countries and regions with Zhiguang Electric products' presence

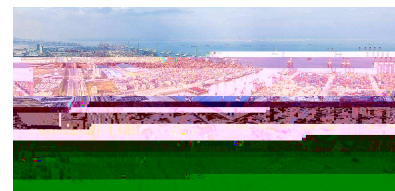
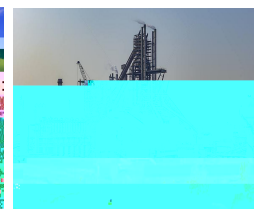
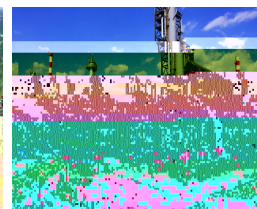
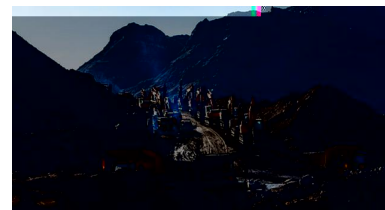






1. Microgrids and distributed energy
2. Integrated energy saving services
3. Renewable energy development and investments
4. Energy storage power station development and investments

1. Energy storage and power station system
2. High / low voltage frequency control system
3. High voltage static var generator
4. Distribution network neutral grounding device
5. Power quality control APF, SVG, etc.
6. UPS uninterruptible power supply
7. Electric power informatization system
8. High and low voltage power cable, intelligent cable

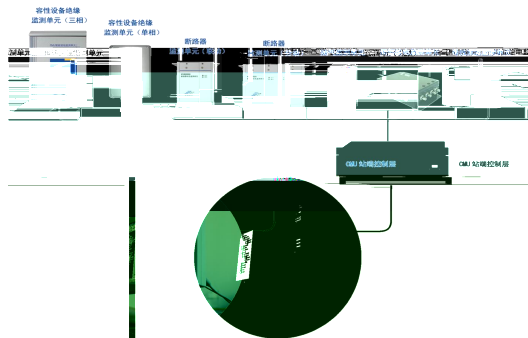






Power supply+power grid new power system business

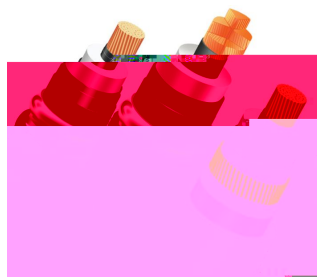
Condition-based maintenance system of high voltage power equipment



- ✎ On-line monitoring and diagnosis of capacitive equipment, circuit breaker, partial discharge;
- ✎ On-line monitoring and analysis of transformer oil chromatogram; and
- ✎ Condition-based maintenance management system of substation high voltage equipment.

- ✎ Over tens of thousands of monitoring points in 110~500KV substations of State Grid and China Southern Power Grid companies in more than 10 provinces;
- ✎ Led the implementation of Kunming National UHV base of China Southern Power Grid;
- ✎ Led the first provincial state monitoring project of Guizhou Power Grid Corporation; and
- ✎ Led the first online monitoring demonstration project of State Grid East China Power Grid.

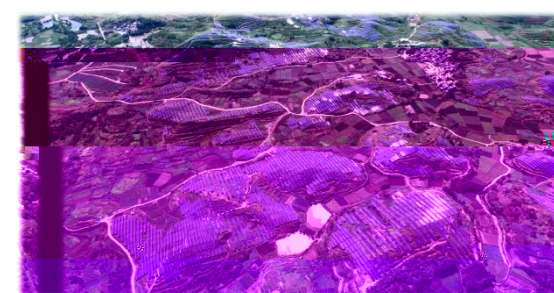
High voltage and smart cable



- ✎ Internationally advanced Finland Maillefer 500kV Vertical Production Line and Switzerland Haefely Test Facilities;
- ✎ Able to provide 6~500kV high voltage cross-linking cables; and
- ✎ Provides smart cable with fiber temperature detecting.

- ✎ Key supplier of China Southern Power Grid;
- ✎ Provider of medium and high voltage cables for hundreds of key projects in China like Guangzhou Metro, Baiyun International Airport etc.; and
- ✎ The smart cable successfully developed and applied to China Southern Power Grid.

Renewable energy development and services



- ✎ Investment, development, construction and operations of renewable energy projects;
- ✎ Investment, construction and operations and maintenance of large energy storage infrastructure; and
- ✎ Renewable energy operation and maintenance services based on industrial internet platform.

- ✎ Renewable energy development cooperations with Huadian, SPIC, China Energy, Huaneng, Guangzhou Development Group, Guangdong Hydropower Group, etc.

Key industrial and commercial clients

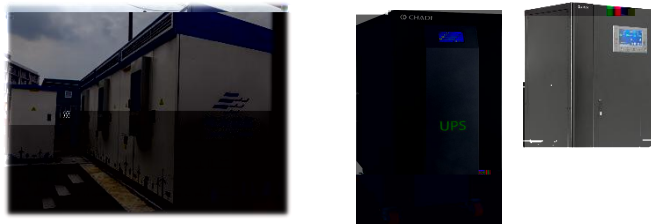
High/low voltage frequency control and soft-start



- Has Provided over 15000 sets of high voltage frequency control system with single machine power up to 25MW for clients over 40 countries and regions around the world, covering asynchronous, synchronous and soft-start applications, which can support multiple coordinations, helping clients improve motor energy efficiency by 20-30%; and
- Has participated in the preparations of a number of industry standards.

- Cooperations with large enterprises (e.g. the five major power generation groups, China Resources, Baowu Steel Group, Conch Group and Huaxin Group, etc.) and local state-owned enterprises for many years; and
- Playing a key role in localization substitution for major domestic projects with comparable quality to that of international brands.

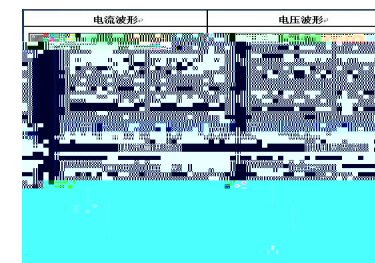
Industrial energy storage, UPS system



- Modular and standardized energy storage;
- Alleviating power shortage, participating in demand response and saving energy costs;
- Emergency power supply for important clients and loads; and
- Supports multiple connection in parallel

- Hundreds of thousands of devices used in many fields, such as Inspur Group Beijing Metro, Chengdu Metro, MTR, public security, etc.; and
- Wider customer base extended to industrial clients of Pearl River Delta and power grid companies.

Integrated management of power quality



- Provides customized power quality management solutions for clients; and
- Crafted integrated electric energy solutions based on UPS, APF, SVG and support voltage sag, harmonic suppression, etc.

- Suitable for harmonic suppression in mining, metallurgy and other industries ;
- Power maintenance of important loads, voltage sag treatment, etc.; and
- Emergency power supply, security power supply, etc.

Key industrial and commercial clients

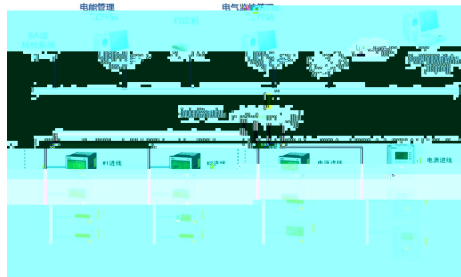
Substation neutral grounding line selection system



- Provides various types of neutral grounding control system for substation distribution network to guarantee the safety of power grid operations;
- Types of grounding line selection system, such as high short-circuit impedance, multi-tap, small resistance and multimode are covered; and
- Supports multiple units connection in parallel.

There're more than 13000 practical application cases, including major power grid, renewable energy groups and industrial clients.

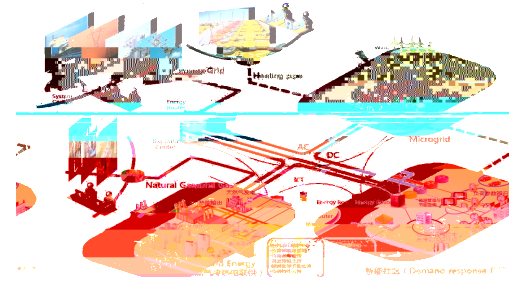
Energy digitalization and energy management



- Provides 0.4~35kv power automation instruments, integrated monitoring and protection for various industrial and commercial clients; and
- Provides digital energy management platform and digital transformation based on cloud data and cloud computing, offering suggestions and decision support for intelligent operation of energy.

Applications of hundreds of thousands of instruments and protections in over 200 power plants of the five major power generating groups, China Resources, etc.; and
With the experience of connecting provincial energy management centers and national energy platforms.

Integrated energy services



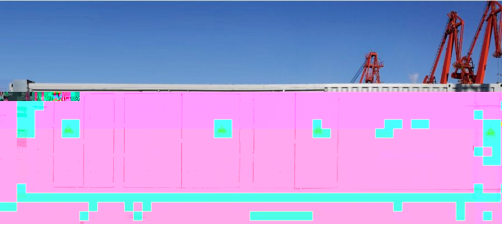
- Provides investment and services of energy saving, microgrid and distributed energy for large industrial and commercial entities;
- Provides services of energy trusteeship and regional energy optimization;
- Distributed energy storage business to alleviate power shortage and reduce energy costs; and
- Involved in spot market, demand side response, virtual power plant business.

Provider of integrated energy services for major commercial complex in Guangzhou Knowledge City and Nansha District.

PORTAL

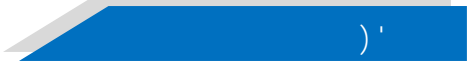


Large container terminals

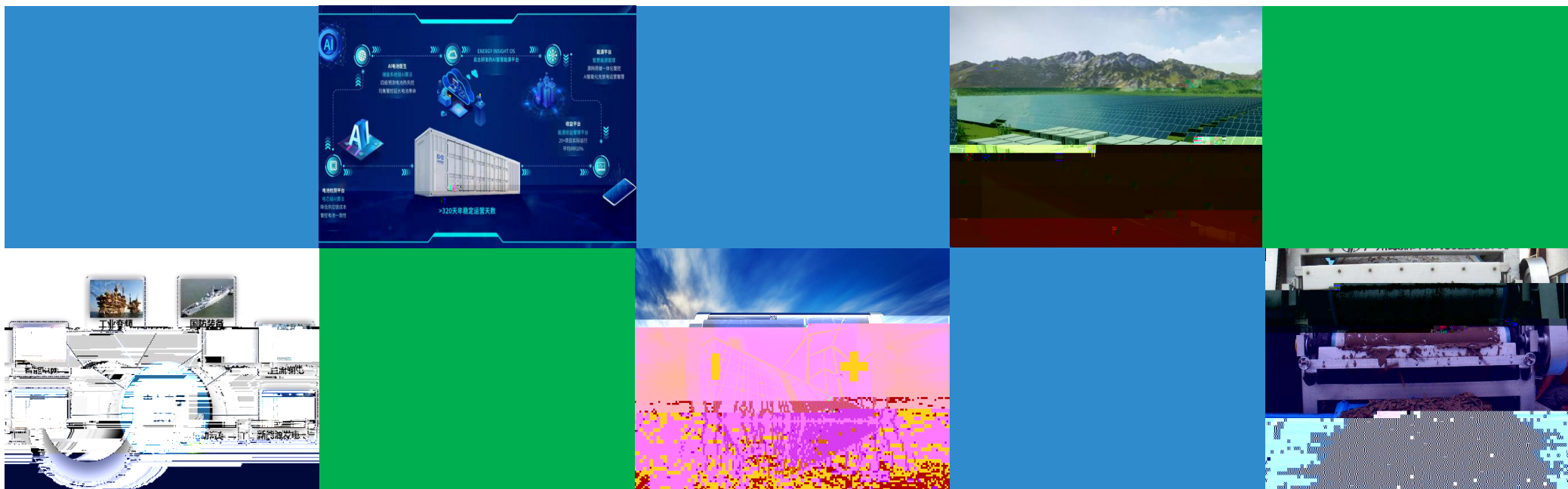


- ↳ Provides 20MVA shore power system for green transformation of ports;
- ↳ Provides energy storage and energy saving of port machinery, refrigerated container facilities and systems for improved energy efficiency and energy cost reductions; and
- ↳ Provides energy digitalization and integrated energy business for ports.

- ↳ Provider of shore power equipments for large and important ports in Tianjin, Qingdao, Ningbo, Shamen, Shenzhen, Guangzhou , etc., with a market share of 35%; and
- ↳ Provider of energy digitalization business and integrated energy storage business for Qingdao Port and other important ports.

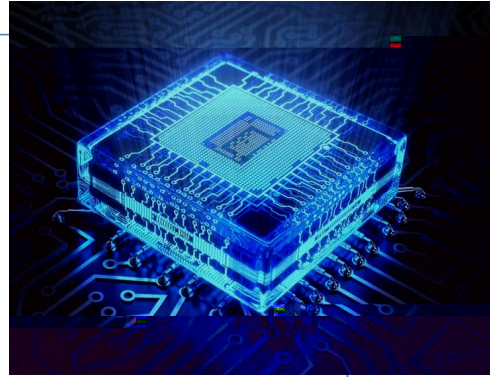


Hunt for seasoned, promising enterprises for investments, mergers and acquisitions





- Take “the foundation of the company's applications in power electronic products” and “Guangzhou CanSemi Technology Inc., the only mass production platform for 12-inch chip in the Guangdong-Hong Kong-Macao Greater Bay Area” as two fulcrums, looking for proper investment projects along the IGBT industry chain, with enterprises in medium voltage chip, module design and packaging as key focuses.



- Zhiguang Electric will appeal to the pre-production verification and industrialization ability of Guangzhou CanSemi Technology Inc., a joint-stock enterprise whose main investments are in analog chip design service projects.



- Energy conversion revolution is the core driving force for the development of power semiconductor industry;
- The third generation semiconductors of SiC and GaN will play a crucial role in recyclable, efficient and reliable energy systems; and
- Zhiguang Electric will follow closely with SiC and GaN technology projects.

is a "Double Hundred Enterprise" by the State-owned Assets Supervision and Administration Commission of the State Council, one of the fourth batch of national pilot enterprises of mixed reform and the business carrier of the integrated energy business of China Southern Power Grid, and a leading enterprise in the field of integrated energy services in China.



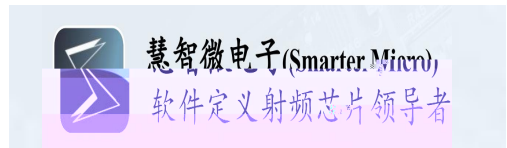
as well as an important partner of a group of large-scale integrated circuit manufacturing and design enterprises at home and abroad.



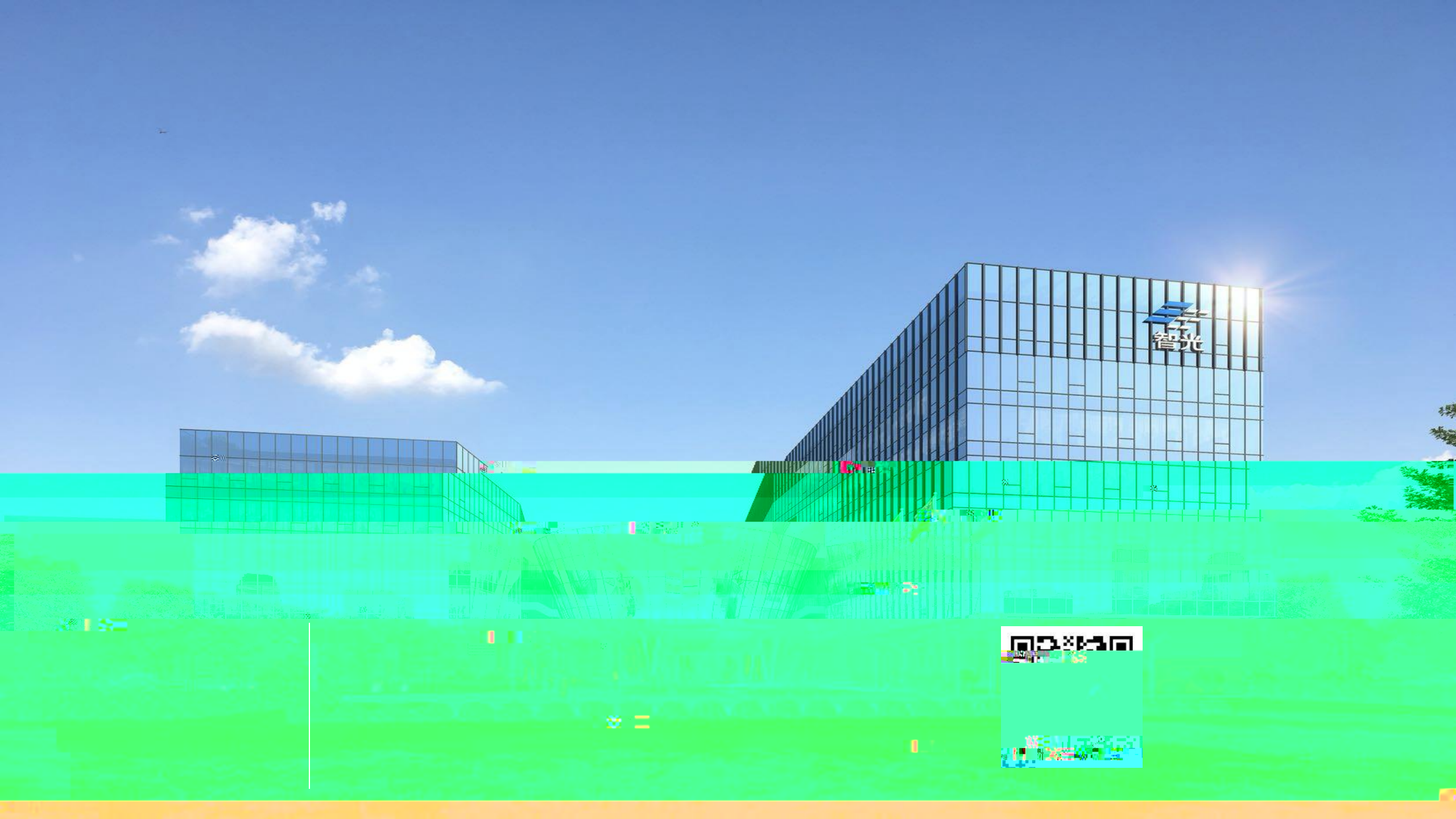
, the only 12-inch chip mass production company in the Guangdong-Hong Kong-Macao Greater Bay Area.



. The company majors in the development of RF / analog integrated circuits and SoC system integrated circuits, with annual chip shipments of 700 million.



. The company has developed the basic patent -- RF front-end reconfigurable technology, which takes the lead in achieving technological breakthrough and large-scale commercial applications in the world.



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