



TSTY 天晟电气

TSTY Electric Co., LTD

Let Green Energy Change the World



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TSTY 天晟电气

TSTY: Innovative Green Power Development

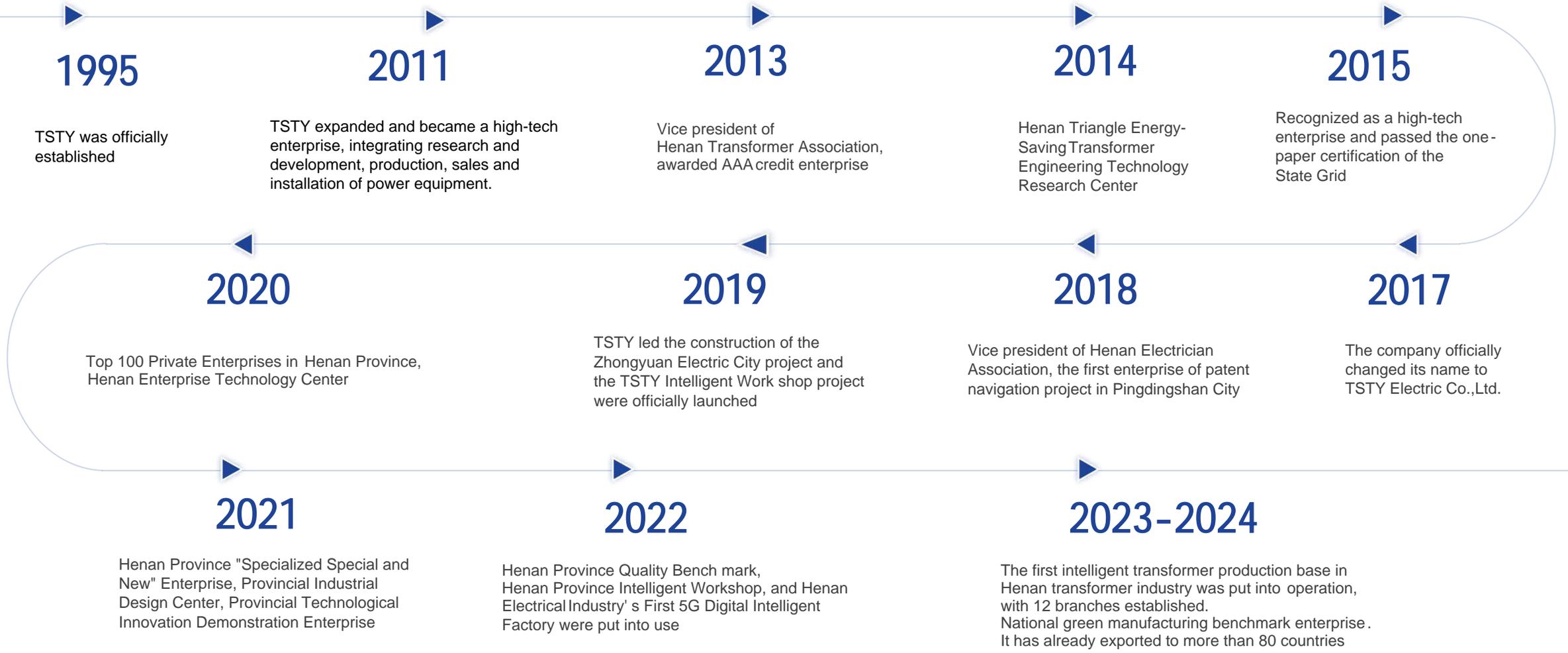
TSTY Electric Co., Ltd is a digital management enterprise, integrating R&D, production, sales, installation and service of high and low voltage power transmission and transformation equipment.

Founded in 1995 with a registered capital of 101 million RMB, it is head-quartered in Pingdingshan City, Henan Province.

ABOUT TSTY

TSTY 天晟电气

DEVELOPMENT



COMPANY STATUS



Research Staff

200+



Construction Area

250000m²



Annual Sales

**220 million
USD**

FOUR MAJOR BUSINESS SEGMENTS

Power Transformer



High & Low Voltage Switchgear



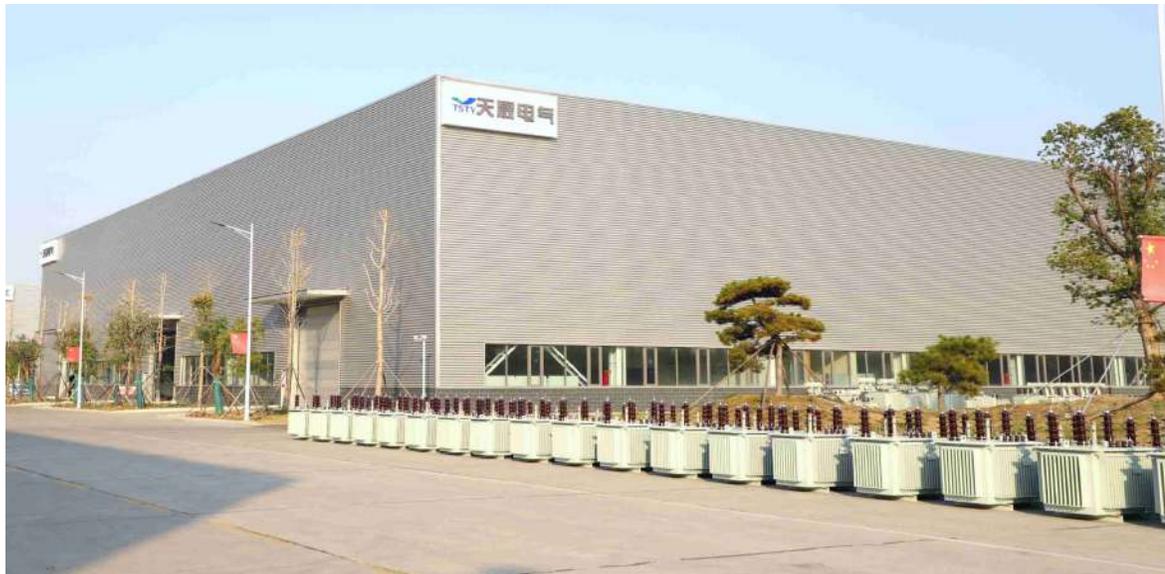
Substation Transformer



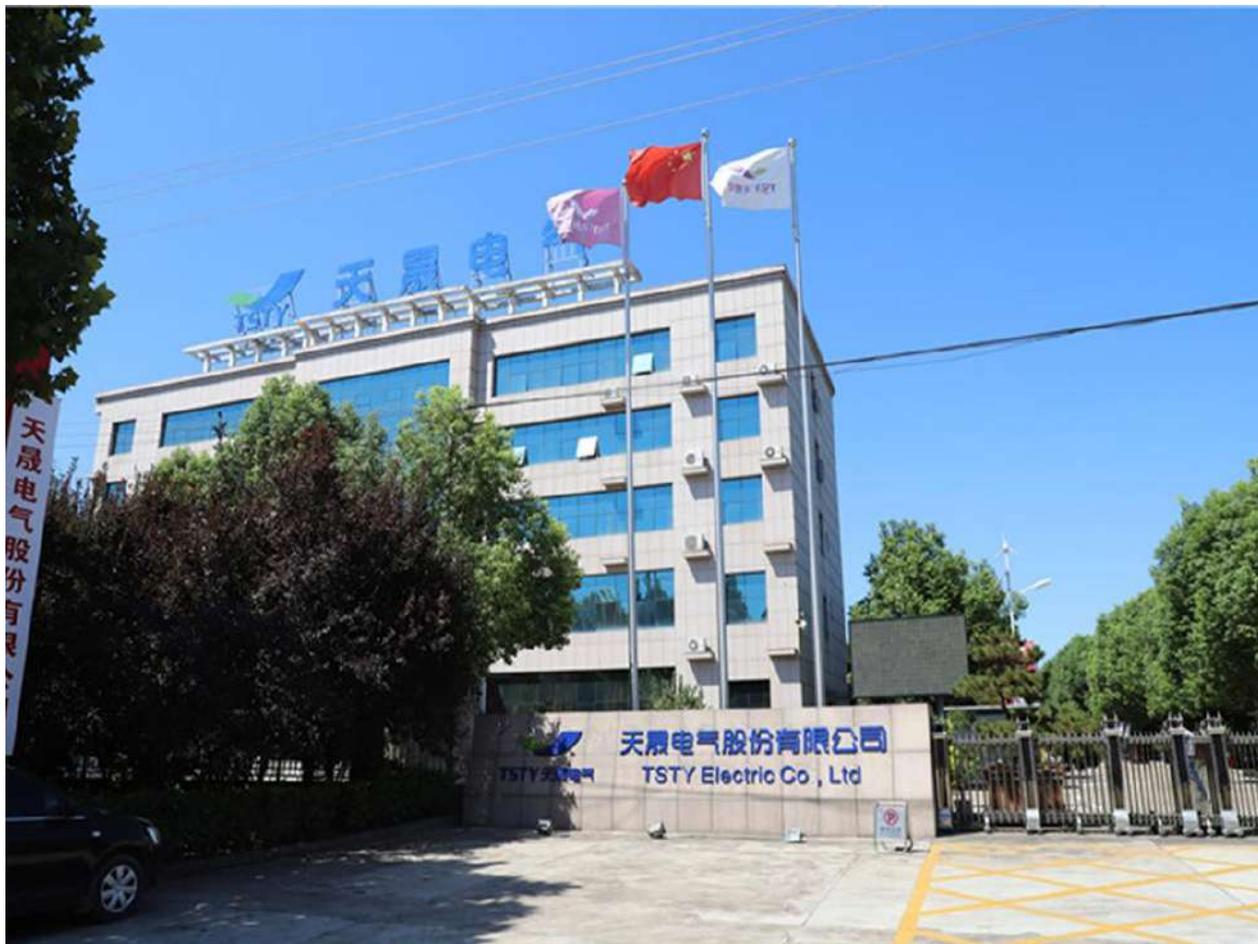
Energy Storage



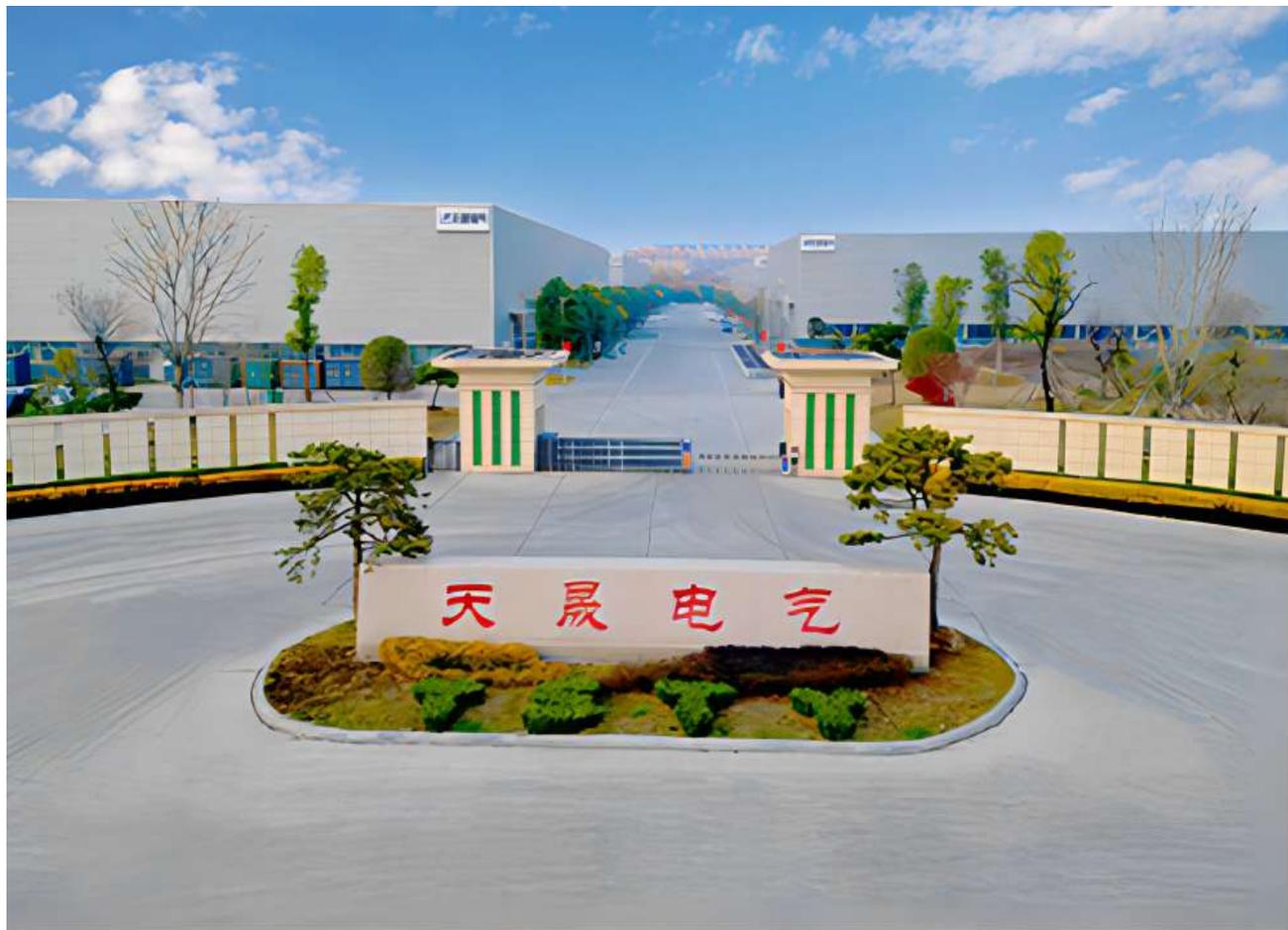
INTELLIGENT TRANSFORMER PRODUCTION BASE



GREEN ENERGY-SAVING DRY-TYPE TRANSFORMER PRODUCTION BASE



SUBSTATION TRANSFORMER PRODUCTION BASE



AMORPHOUS ALLOY ENERGY-SAVING TRANSFORMER PRODUCTION BASE



TSTY PRODUCTS

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OIL-IMMERSED TRANSFORMER

Product Description

S-Series Oil-immersed Transformer

The oil-immersed transformers produced by TSTY are divided into S9, S11, S13, S20 and S22 models based on performance. The voltage includes 6KV to 35KV, and the capacity ranges from 15KVA to 31,500KVA. It can be widely used in grid, industrial and mining enterprises, engineering construction, oil fields, farmland and other places.

-
- High efficiency, high strength, short circuit resistance, safe operation
 - Low loss, low noise, long life, advanced performance
 - Intelligent, unattended operation, remote control, telemetry
-



6KV/13.8KV Oil Transformer



20KV/22KV Oil Transformer



Three Dimensional Oil Transformer



33KV/35KV Oil Transformer

DRY TYPE TRANSFORMER

Product Description

SCB Series Epoxy Resin Cast Dry-Type Power Transformer

According to the performance, the dry-type transformers produced by our company can be divided into SCB10, SCB11, SCB13 and SCB18 series. The voltage levels range from 6.6KV to 35KV, and the capacity spans from 30KVA to 5000KVA. These products are suitable for important applications such as urban power grids, high-rise buildings, business centers, theaters, hospitals, hotels, tunnels, subways, high-speed railways and airports.

- Maintenance-free, low loss, low noise and low temperature rise
- High short-circuit resistance and excellent flame-retardant ability
- Fireproof, explosion-proof and pollution-free
- High temperature resistance, excellent moisture resistance, and safe, reliable operation



20KV/22KV Dry Transformer



33KV/35KV Dry Transformer

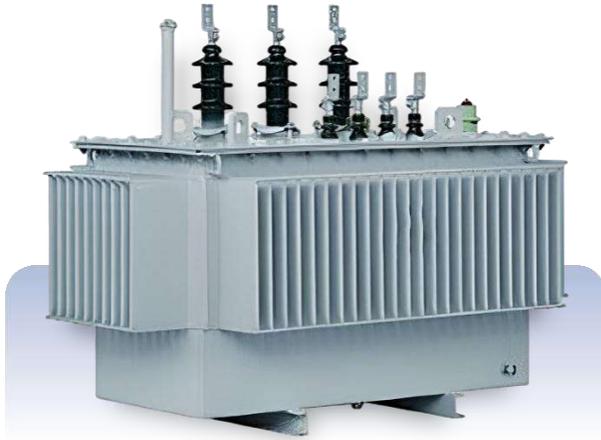


SCBH15
Amorphous Alloy Transformer



11KV(10KV/6KV) Dry Transformer

SPECIAL TRANSFORMER



High Overload Transformer

A distribution transformer designed to solve the short-term, sharp increases in electrical load

Energy-efficient, environmentally friendly, with no-load current, minimal reactive power loss, and strong resistance to stand sudden short circuits

Generally used as supporting equipment for the State Grid



SZ-On-load Capacitance Regulating Transformer

Used to monitor voltage and current on the low voltage side of the transformer

Easy to operate, with low maintenance costs, minimal no-load loss, energy-saving and environmentally friendly

Suitable for industrial and mining enterprises, rural, power grid transformation, etc.



Single Phase Pole Mounted Transformer

Simplified installation, Cost- effectiveness , vertical orientation saves valuable ground space

Reduced environmental impact: Since these transformers do not require additional land clearing or construction, they have a lower environmental footprint

Typically used for smaller loads and in distribution networks where space is limited

HIGH & LOW VOLTAGE SWITCHGEARS



KYN28A-12 High Voltage Switchgear

3D parametric structure design

Advanced technology and stable performance

Reasonable structure, convenience, safe



GGD Low Voltage Switchgear Panel

Stable and innovative structure

Wide usability and high protection level

Highly applicability and flexible installation



MNS Distribution Cabinet

Large capacity, heat dissipation

Visible broken circuit, line maintenance safety

Convenient maintenance, replaceable with the same model

HIGH & LOW VOLTAGE SWITCHGEARS



SF6 Gas Insulated Switchgear

3D parametric structure design

Advanced technology and stable performance

Reasonable structure, convenience, safe



Schneider BlokSeT Active Low Voltage Switchboard

TSTY is a switchgear manufacturer that has been authorized by Schneider to produce Schneider switchboard.

modular design, intelligent functions and high safety performance

integrates intelligent interconnection functions and supports digital operation and maintenance.



GCK Low Voltage Drawer Panel

Compact size and structure

High separation capacity and simple fault investigation

Well dynamic and thermal stability, advanced and reasonable structure

SUBSTATION TRANSFORMER



Landscape Type Box Transformer

Flexible combination and easy transportation

Simple installation, no pollution and maintenance-free

Aesthetic and customizable box cover



YB Pre-installed Substation
(European Box Type)

Compact size and structure

Convenient installation and rapid power supply

Improves power supply quality and reduces losses



ZGS Pad-Mounted Transformer

Three-phase linkage, no phase loss operation

Remote control and maintenance-free

Reduces losses and improves power supply quality

SUBSTATION TRANSFORMER



Substation for Solar PV Generation

Highly safety performance and compact size

Convenient conversion with a reliable power supply

Low operating costs

Low noise, high short-circuit resistance, and overload capacity



YBD Buried Type Box Transformer

New type of compact electrical transformer

Switch-integrated hybrid structure

Does not occupy the surface space and can operate in water

Compact design, does not affect ground facilities



Huashi Prefabricated Substation

Adopts a fully sealed and fully insulated structure

High reliability and ease of maintenance

Intelligent design with good heat dissipation

Rain, snow, and dust-resistant, anti-corrosion, fully sealed

JP SWITCHGEAR

Product Description

Integrate power distribution, metering, protection (overload, short circuit, leakage, snow protection) capacitor reactive power compensation.

A large number of JP cabinets are used in rural power lines and distribution stations.

-
- Compact footprint and easy to move
-
- Located close to the load center, with a short construction period, reducing waste
-
- Complete system, compact size, and aesthetically pleasing design
-
- Safe and reliable operation, easy maintenance and a wide range of options
-



JP SWITCHGEAR



TSTY

INDUSTRIAL AND COMMERCIAL
ENERGY STORAGE

LIQUID-COOLED INDUSTRIAL AND COMMERCIAL ENERGY STORAGE



215kWh Energy Storage

Use peak and valley electricity prices in different periods for arbitrage and discharge during peak demand

Store and dispatch at any time, and supply power to areas without electricity when the power grid fails

The AC string design system conversion efficiency reaches 93%



200kWh Energy Storage

Flexible deployment, splicing, and assembly reduce floor space.

Intelligent management system, 24-hour system performance detection, real-time safety warning

Multiple fire protection design guarantees, multiple redundant protections



100kWh Energy Storage

Lightning impact resistant, low noise

“3D + parametric” design software can realize automated design and cost optimization, simulation and emulation

Advanced test and inspection equipment, complete inspection and testing system

CONTAINER-BASED ENERGY STORAGE



3MWh liquid cooled energy storage system

Standardization, comprehensive functions, integrated integration, and it can achieve rapid installation and deployment

One cluster one management, the system operation is more flexible and intelligent

Liquid cooling design, battery cell temperature difference <3 degrees Celsius, longer life

Four-level fire redundancy protection, more peace of mind

Support on-grid and off-grid operation to meet the needs of emergency power distribution, power distribution capacity expansion, etc.



5MWh liquid cooled energy storage system

Small footprint: High energy density, single-sided maintenance, significant savings in installation space

Easy maintenance: Liquid-cooled configuration with two-way cut-off plug, can be quickly maintained with liquid

High security: Pack system level fire protection, thermal runaway alarm, fixed point fire extinguishing, 3-level short circuit protection, 4-level active protection

Long life: The design life of battery cell, BMS and EMS is more than 15 years

High SOC accuracy: At room temperature, SOC error $\leq 1\%$, more accurate control of system charging and discharging capacity, and improve the utilization rate of energy storage system

PORTABLE HOME STORAGE POWER SUPPLY



2.9kWh/5.04kWh household energy storage power supply

Additional functions

Modular design

Easy to install and maintain

Uninterrupted monitoring



3kW AC energy storage integrated machine

Adaptation

Adapt to all photovoltaic inverters

High energy density

Easy to install and maintain



3.6kW/5kW single-phase hybrid/AC inverter

Modular design

Uninterruptible Power Supply and 200% PV input

Quick response of VPP scheduling

Support dual power supply functions of grid and oil generato



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CORPORATE HONORS

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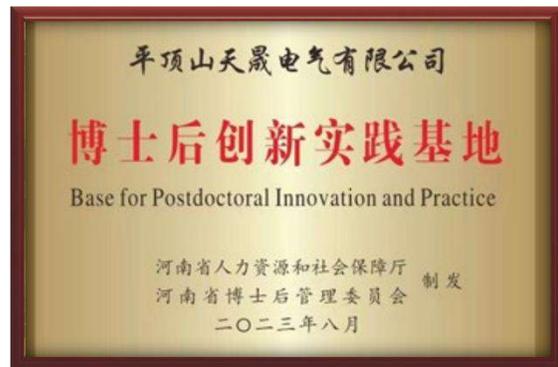
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制造商：厦门市三友和机械有限公司

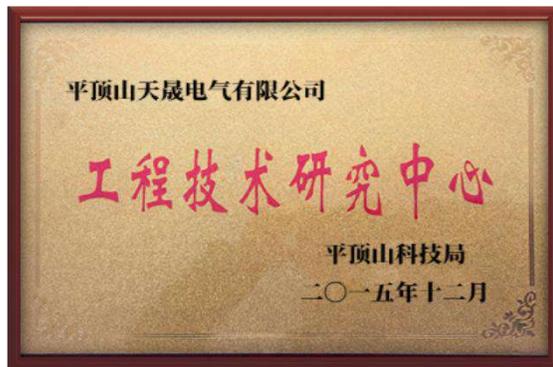
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ENTERPRISE HONOR



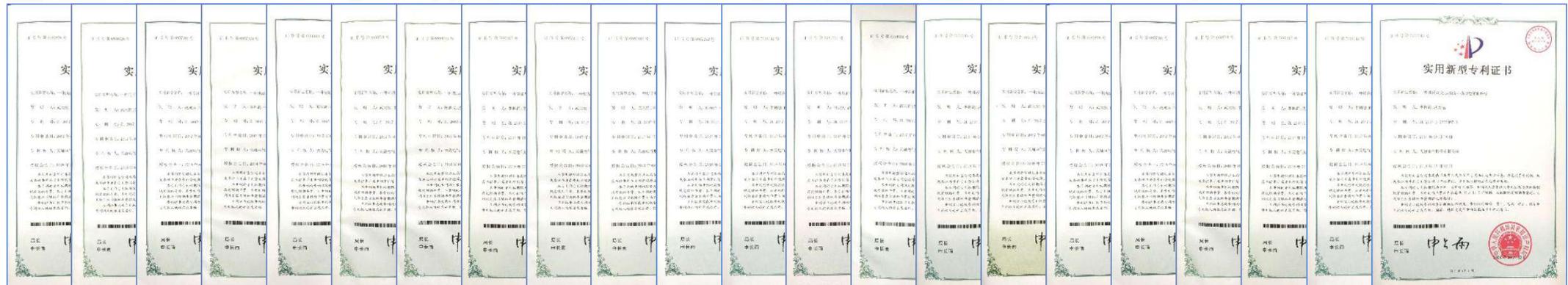
ENTERPRISE HONOR



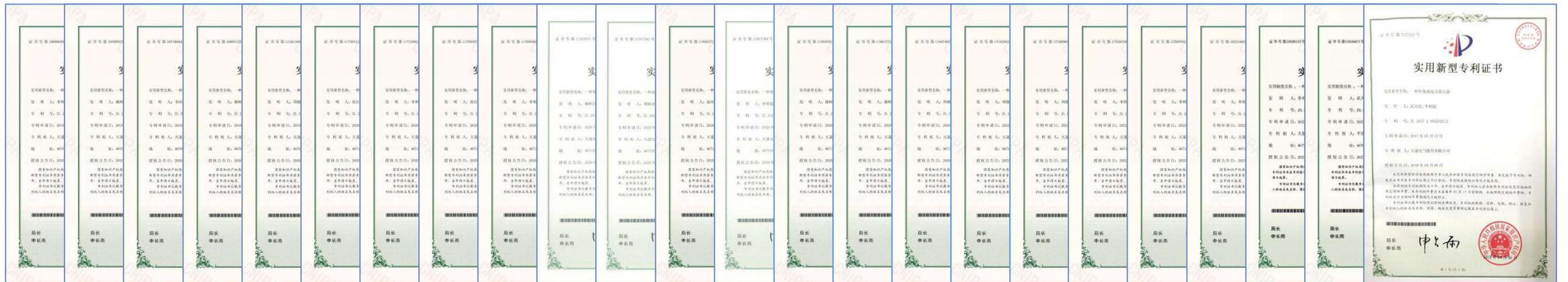
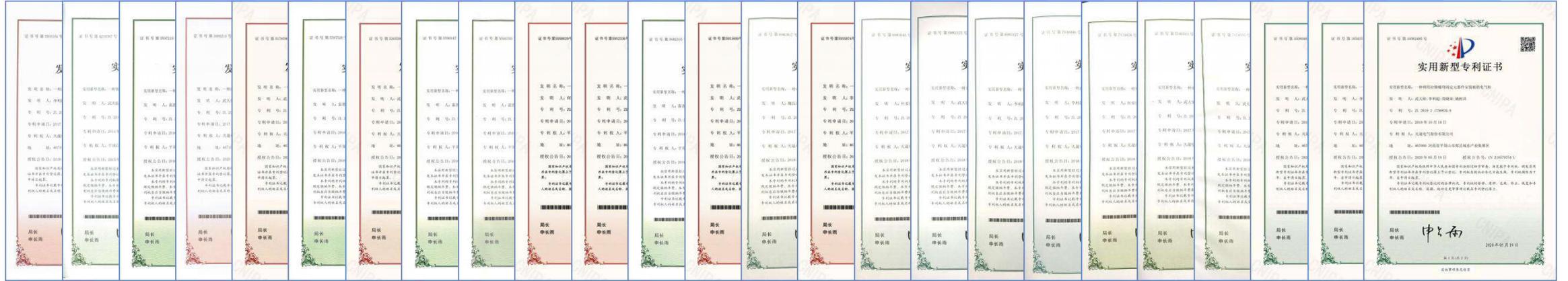
ENTERPRISE QUALIFICATION



- ◎ ISO 9001 QMS
- ◎ GB/T 23331 Energy Management System
- ◎ CCC SGS
- ◎ Utility Patent 158
- ◎ ISO 18001 OHSMS
- ◎ ISO 14001 Environmental Management System
- ◎ CE IEC GOST
- ◎ Customers 1000+



ENTERPRISE QUALIFICATION

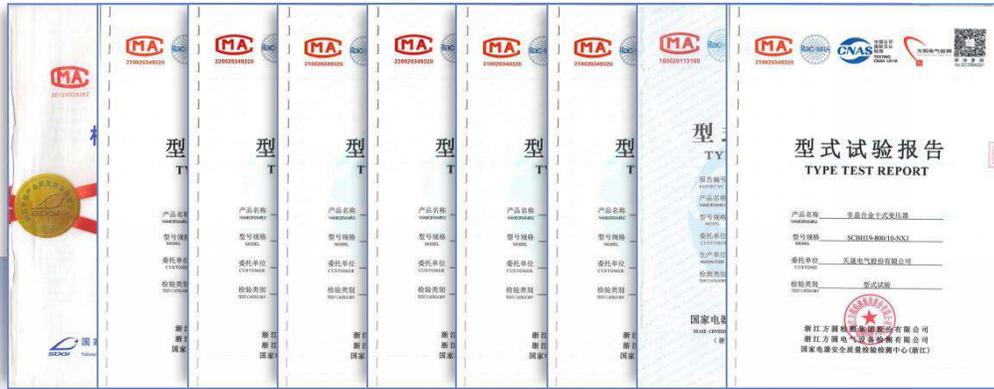


ENTERPRISE QUALIFICATION



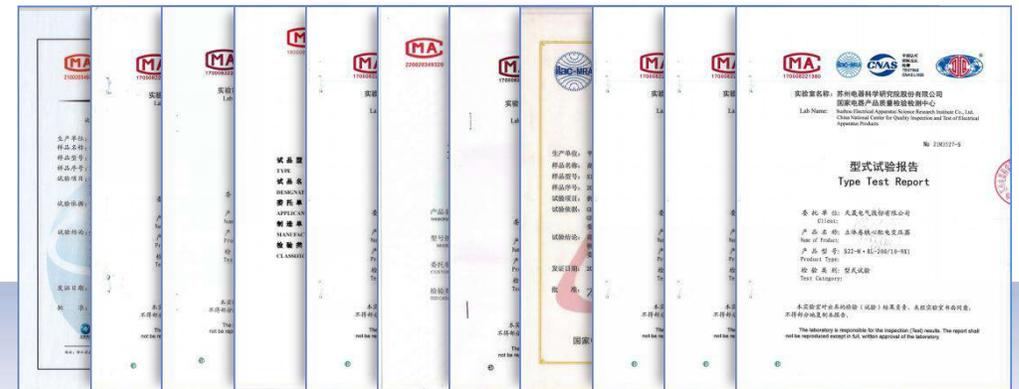
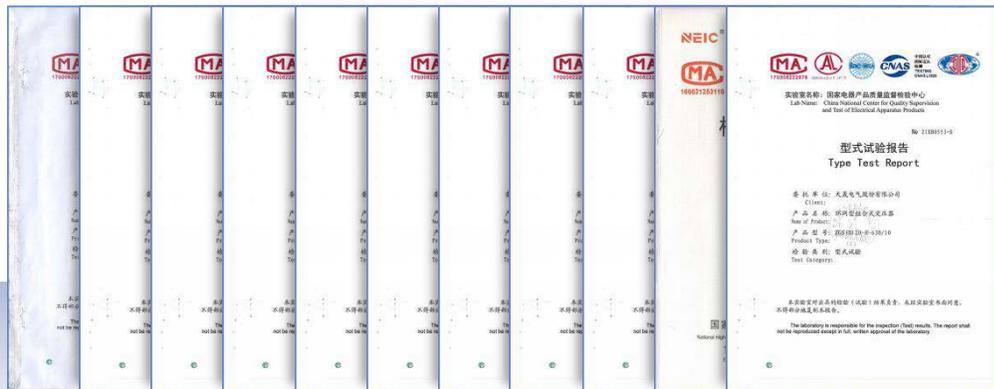
Dry Type Power Transformer

High & Low Voltage Switchgear



Substation Transformer

Oil-Immersed Power Transformer



GLOBAL MARKET

Established **12** branches and Exported to **80+** countries



CUSTOMERS



TSTY

CUSTOMER CASE

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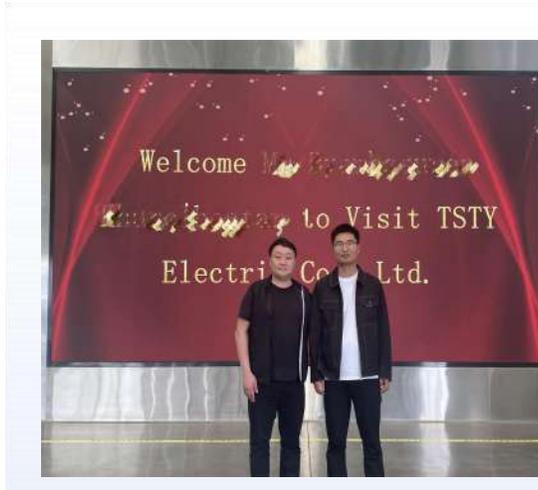
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CUSTOMER VISIT



CUSTOMER VISIT



APPLICATION CASES



Zhujiang, Guangdong Province
**Hongkong-Zhuhai-Macao
Bridge**



Jiuquan, Satellite Center
**The launching project
Shenzhou13**



Wenchang, Hainan Province
**The space craft
Tianzhou-3**



Renhuai, Guizhou Province
**Moutai wine technical
reform project and
supporting facilities**



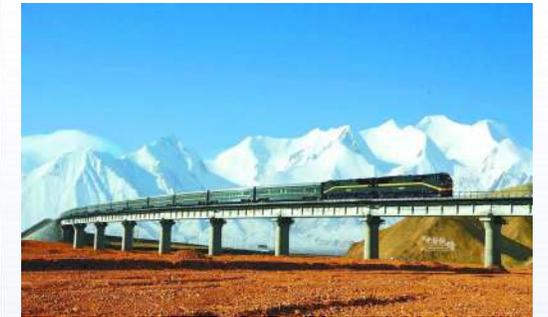
Haikou, Hainan Province
**Free Trade Port
Project in Hainan**



Yichang, Hubei Province
**Three Gorges
Project**



Chengdu, Sichuan Province
**Railway Urban Rail
Transit in China**



Lhasa, Tibet
**Railway Plateau Power
Supply and Distribution
Project**

APPLICATION CASES



Mongolia
Gold Mine Project



Netherlands
Mining Projects



Nigeria
ESS Energy Storage Project



Rwanda
Public Utility Office Building Project



Ethiopia
Plastic Factory



Bengal
Glass Factory



Zambia
Rural Power Grid Transformation



Philippines
Shopping Mall Project

SHIPPING CASES





TSTY

SERVICE SUPPORT

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SERVICE SUPPORT

Four Dimensions

To provide customers with intelligent manufacturing full-cycle services



Step 1 - Status of Diagnosis

After the technical problems raised by the customer, the feedback should be given within 2 hours and the required information should be sent to the customer within 4 hours.

Step 2 - Technology Assessment

The professional engineer shall provide the customer with a full range of technical support, the most reasonable solution and quotation according to the site situation.

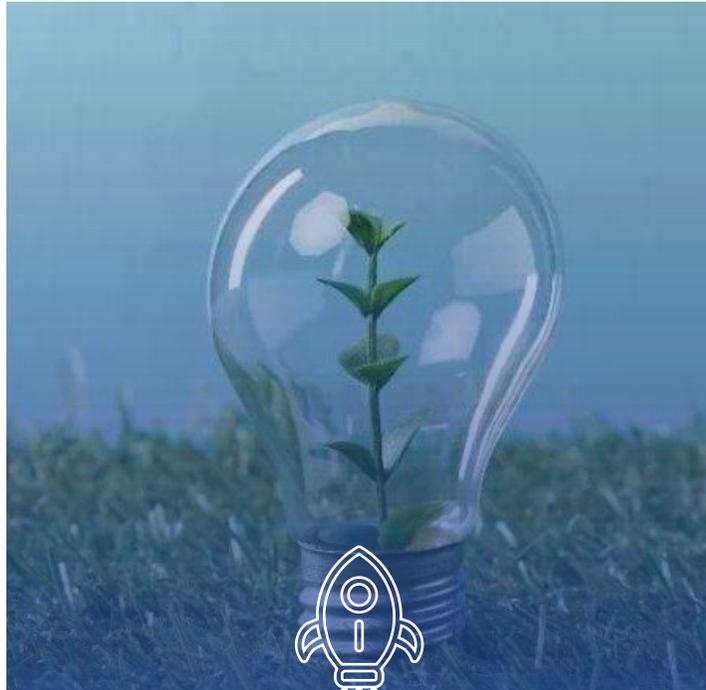
Step 3 - Operation and Maintenance Services

The product is covered by the three guarantees (repair, replacement and return) within the first year. Along with a lifetime maintenance service.

Step 4 - Solid Service

Dedicated customer service staffs pay return visit with effort to make sure the service results satisfy you and to make you enjoy the worry-free service.

ENTERPRISE CULTURE



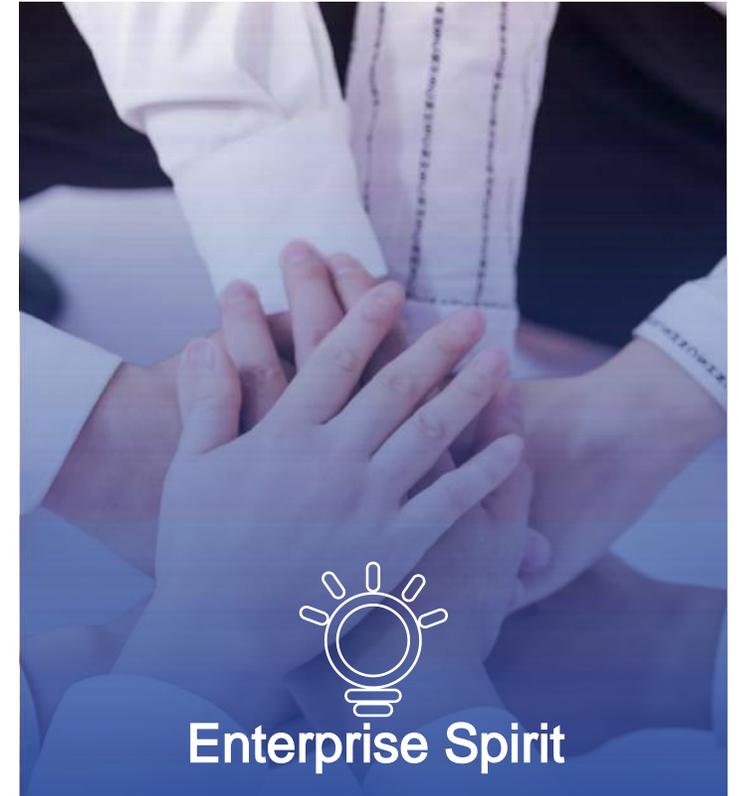
Our Mission

Let the green energy
change the world



Corporate Vision

To be the world-class
electrical manufacturer



Enterprise Spirit

Integrity Innovation
Unity Endeavour

STAFF PRESENCE





Partner with TSTY Electric Co., Ltd To Empower a Greener Future

Factory Adress: Jiaxian Industrial Cluster, Henan Province

Zhengzhou Office Address: Room 1119, Block D, Jianzheng Oriental Center, Zhengzhou

Shanghai Office Address: S1-3203,BFC Bund Financial Center Huangpu District,Shanghai