



# Focus on Transformer

Hangzhou Qiantang River Electric Group Co., Ltd.

— Since 1976 —

# Brief Introduction



49Y  
Focus On Transformer



30000<sup>+</sup>  
Production Capacity in Units



0.6Mio<sup>+</sup>  
Trafo Manufactured



75  
Countries reference



3  
Bases: Hangzhou, Quzhou, Nanchang



323Mio<sup>+</sup>  
Total Asset in USD



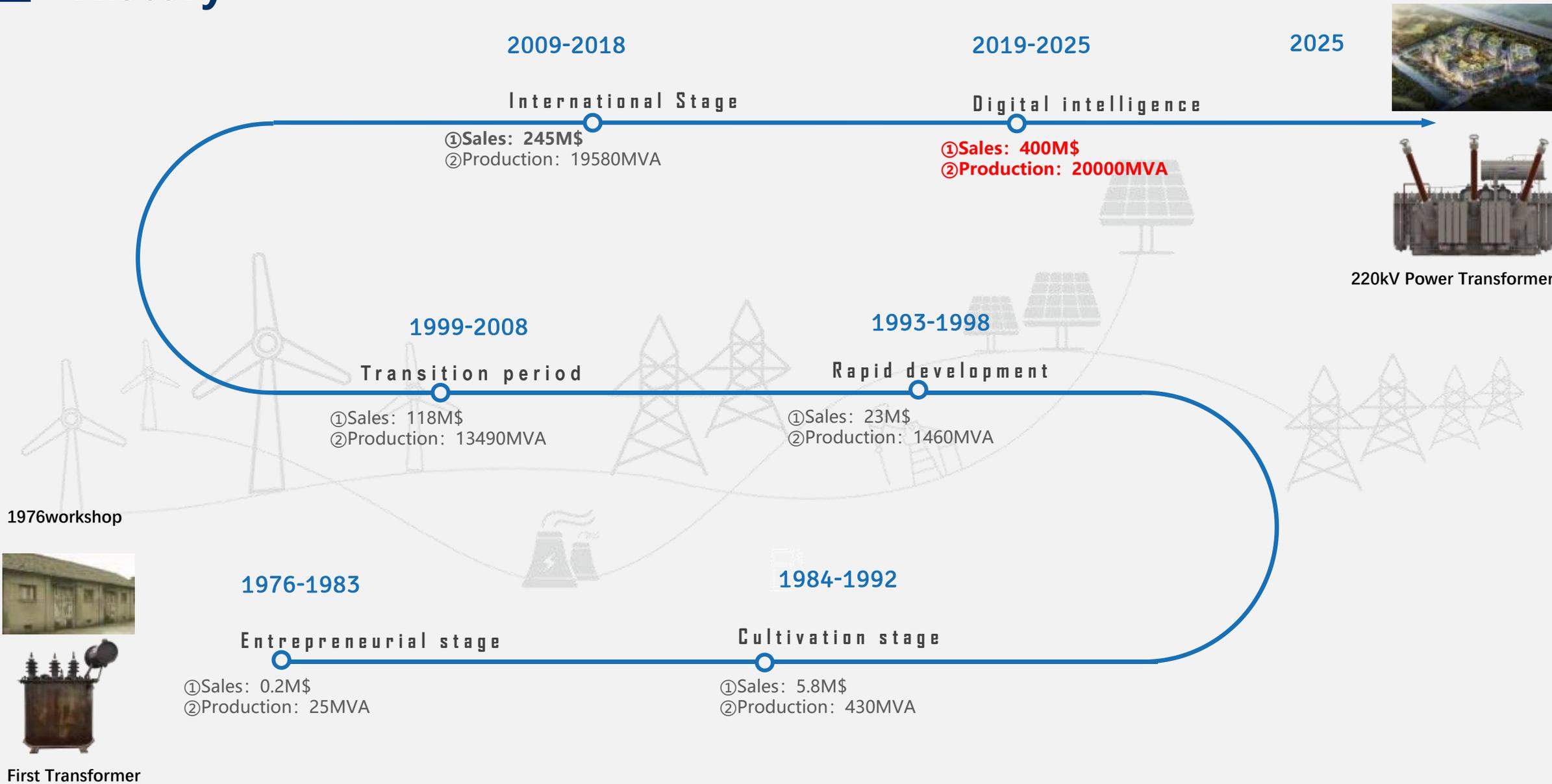
1200<sup>+</sup>  
Employees



400Mio<sup>+</sup>  
Annal Sales in USD



# History



# Main Business Indicators

2022~2024 Main Business Indicators

Unit: Mio USD



Indicator	2022	2023	2024
Annal Sales	352	385	415
Net Profit	18.3	22.4	20.3
Annal Tax	12.4	12.9	13.5

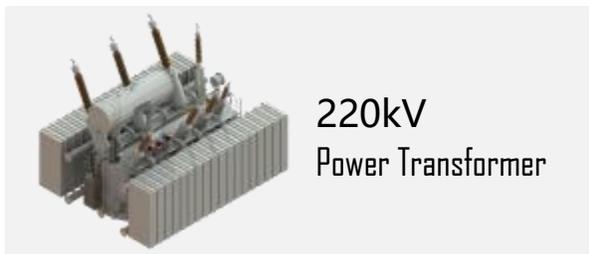
# Product List



500kV  
Power Transformer



330kV  
Power Transformer



220kV  
Power Transformer



132kV  
Power Transformer



35kV  
Power Transformer



Distribution Transformer



Amorphous Transformer



OLTC Transformer



Petro Transformer



VPI Transformer



Dry Type  
Amorphous Transformer



Dry Type  
Casting Transformer



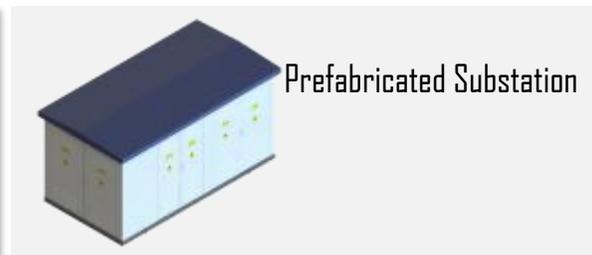
Solar/Wind  
Step-up Transformer



Under Ground  
Transformer



Combined Transformer



Prefabricated Substation

# Power Transformer

## Power Transformer

- ◆ 10 - 340 MVA base
- ◆ Up to 500 kV
- ◆ Mineral oil (ONAN) or Ester oil (KNAN)
- ◆ Loop or Radial Feed Configuration
- ◆ On-load tap-changer
- ◆ ANSI, DOE, IEEE, CSA & IEC

**KEMA****DEKRA****CE**

# Data Center Distribution

## Padmounts for Data Centers

- ◆ 30 - 10,000 kVA base
- ◆ Up to 35,000V
- ◆ Mineral oil (ONAN) or Ester oil (KNAN)
- ◆ Loop or Radial Feed Configuration
- ◆ No-load tap changer
- ◆ ANSI, DOE, IEEE, CSA & IEC



# Data Center Distribution

## Dry Type Transformer

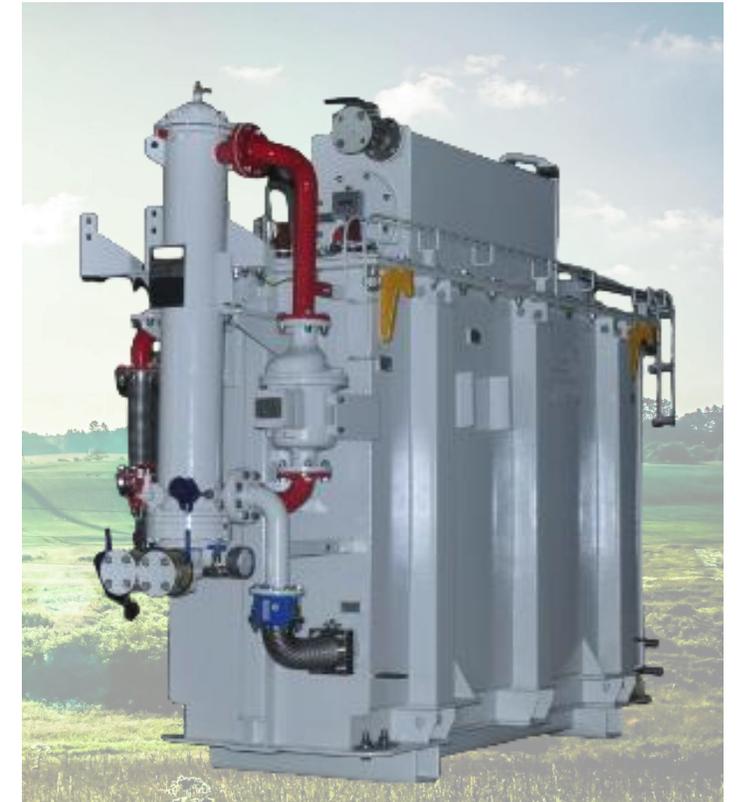
- ◆ 30 - 25,000 kVA base
- ◆ Up to 35,000V
- ◆ Eco-design regulation Directive EU548;
- ◆ High capability to withstand short-circuit;
- ◆ ANSI, DOE, IEEE, CSA & IEC



# Wind Transformer

## Wind Transformer

- ◆ 1000 - 14,000 kVA base
- ◆ Up to 66,000V
- ◆ Eco-design regulation Directive EU548;
- ◆ High capability to withstand short-circuit;
- ◆ ANSI, DOE, IEEE, CSA & IEC



# Renewable Energy

## PV Distribution Transformer

- ◆ 30 - 88,00 kVA base
- ◆ Up to 35,000V
- ◆ Eco-design regulation Directive EU548;
- ◆ Special shields provide filtering of harmonics;
- ◆ High capability to withstand short-circuit



# Renewable Energy

## Energy Storage Substation

- ◆ Energy storage, inverter & transformer
- ◆ Small footprint, flexible & mobile
- ◆ Integrated monitoring, alarm, HVAC
- ◆ Support black start; Supports IEC61850
- ◆ Functions such as PQ, VF, VSG, etc



11.25MW/22.5MWh energy storage system



Headquartered in Xiaoshan District, Hangzhou, the group is only 150 kilometers away from both Shanghai and Ningbo, offering excellent logistics connectivity and comprehensive infrastructure support. Currently, the company operates three manufacturing bases strategically located in Hangzhou, Quzhou and Nanchang, Jiangxi Province.



## Hangzhou Factory

Covers an area of 93000 s.q.m., and a plant area of 70000 s.q.m.. It has an annual production capacity of 30000 power transformers up to 500kV, total capacity in 15 Mio kVA.



## Quzhou Factory

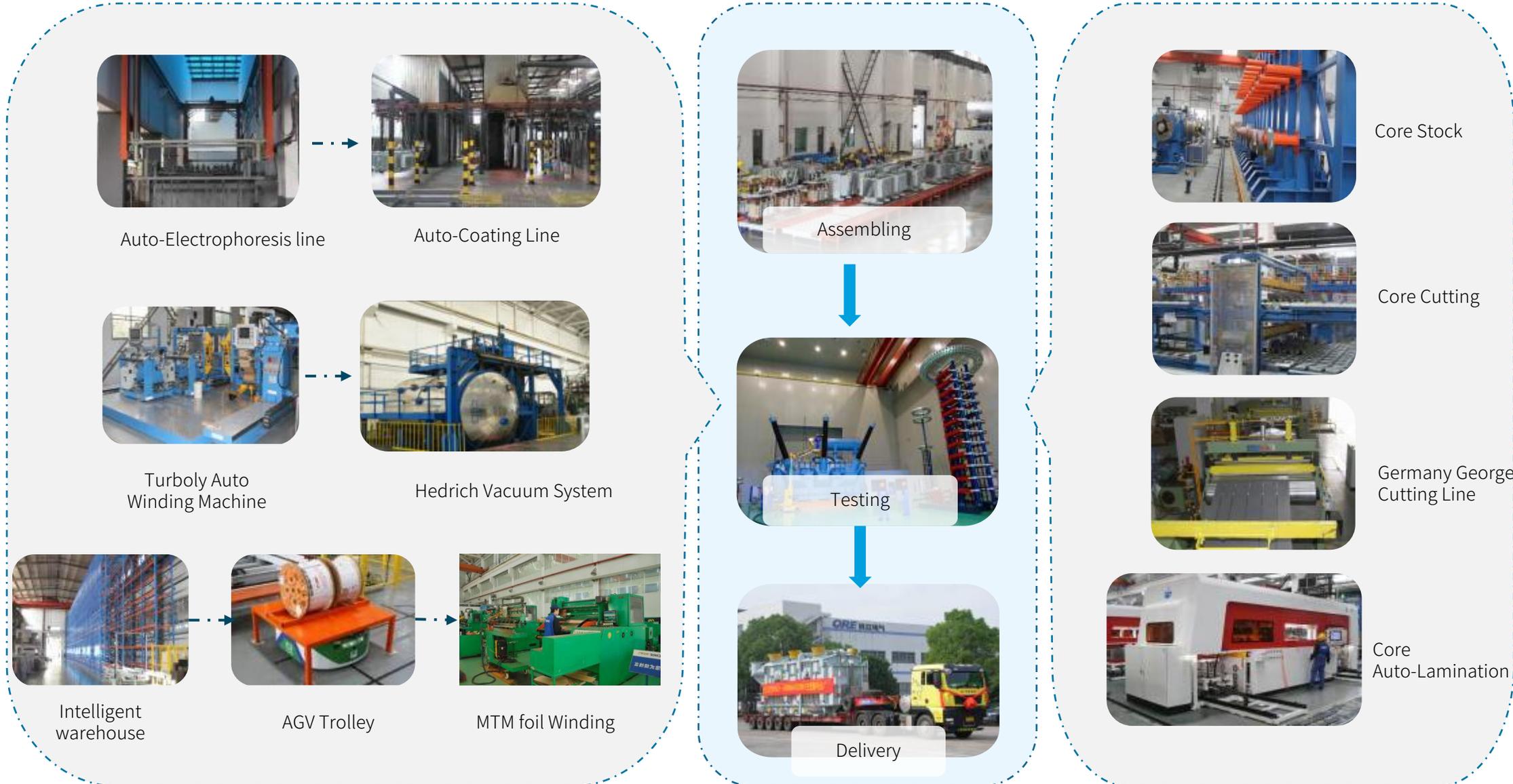
Covers an area of 75000 s.q.m., a construction area of 20000 s.q.m. and has more than 230 employees. It has the annual production capacity of 35kV and below power transformers and dry-type transformers, with an annual production capacity of 6.5 Mio kVA.



## Nanchang Factory

Covers an area of 40000 s.q.m., a construction area of 20000 s.q.m. and more than 100 employees.

# Facilities





Assembly Workshop



Drying Oven



AGV & Stock



Testing Bay



Hedrich Vacuum System



Core Lamination



- ◆ Total Employee: 1242
- ◆ Design Engineer: 61
- ◆ Senior Engineer: 43
- ◆ Senior Technician: 113

# Overseas Reference



## Customers:



# Reference



Zhejiang Petro-chemical



Brunei Petro-Chemical



Transfer Chemical



Wanxiang Energy City

# Reference



## Off-Shore Wind

### GE Haliade-150 Wind Mill in 6MW

Apply to IEC/IEEE/ANSI Standards

Anti-Corrosion

Vibration Tested





## On-Shore Wind Transformer

- **Buyer:**  
GE Renewable Energy
- **Project:**  
Onshore Wind Transformer
- **Capacity :**  
20~33kV 3380/4300kVA
- **Deliver to:**  
SLZ & SY Factory
- **FPO:**  
2015.01

## Cooperation with GE & Hitachi

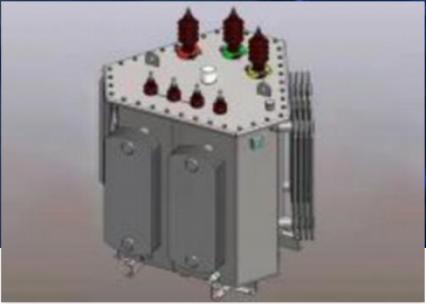
- ◆ Since initiating our partnership with GE in 2010, we have successfully delivered nearly 400 wind transformers, 17 rectifier transformers, and 330kV generator step-up (GSU), achieving a total contract value exceeding 100 million CNY. Our collaboration operates under the supply model, with products exported under the QRE brand. This successful partnership was recognized in 2015 when we were honored as GE's Best New Supplier.
- ◆ In November 2009, Established Hitachi QianDian (Hangzhou) Transformer Co., Ltd., the company's business scope mainly includes transformer design, manufacturing and sales operations.

# R&D

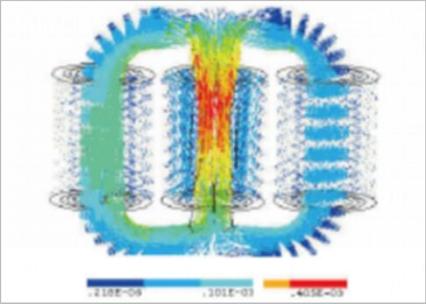
National postdoctoral workstation, provincial technical center and Zhejiang Qianjiang Electric Transformer Research Institute have been established

And the national energy efficiency testing laboratory, with more than 130 middle and senior technical experts, with strong technology R & D capability.

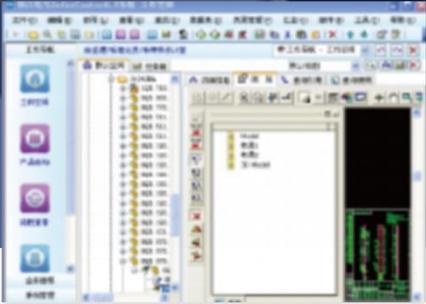
Obtained 3 software copyrights and participated in 8 national standards, industry standards and group standards



Drawing by Solidworks



Calculating by finite element



Management by PDM system

# Quality Assurance



ISO9001



OHS18001



EHS14001



Calibration



KEMA



APQP4WIND

# Certificates

200<sup>+</sup>  
National  
Patents

40<sup>+</sup>  
Hi-Tech  
Awards

### 1. KEMA Reports & certificates:

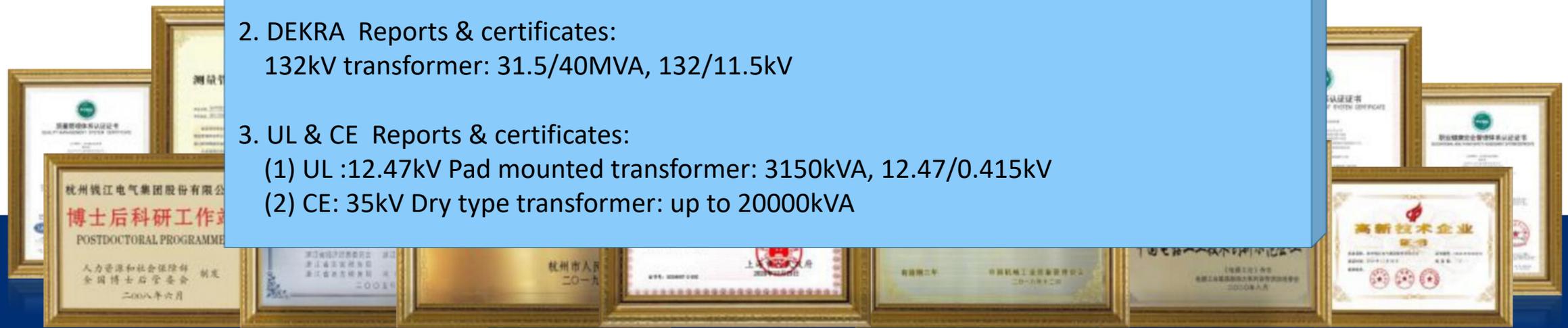
- (1) 330kV Power transformer: 178MVA, ONAF, 330/11.5kV, YNd1
- (2) 220kV Power transformer: 180/180/90MVA, ODAF, 220/121/10.5kV, YNyn0d11
- (3) 110kV Power transformer: 50MVA, 110/38.5/11kV, YNyn0d11
- (4) 10kV Oil transformer: 1600kVA, 10/0.4kV
- (5) 11kV Oil transformer: 1500kVA, 11/0.433kV
- (6) 10kV Dry type transformer: 2000kVA, 10/0.4kV

### 2. DEKRA Reports & certificates:

- 132kV transformer: 31.5/40MVA, 132/11.5kV

### 3. UL & CE Reports & certificates:

- (1) UL :12.47kV Pad mounted transformer: 3150kVA, 12.47/0.415kV
- (2) CE: 35kV Dry type transformer: up to 20000kVA





An aerial night view of a city, featuring a prominent illuminated spherical building in the foreground. The city lights are overlaid with a glowing network of white lines and nodes, symbolizing connectivity and technology. The background shows a hazy cityscape under a dark sky.

**Sustainable development**  
**To be a world-class supplier**  
of  
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# T h a n k s



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