

ZTT GROUP

—— Connecting Wonderful Life with Optic-Electric Networks ——





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- **Main Industry**
- **QHSE Management**
- **Representative Customers**
- **Social Responsibilities**

ZTT Group Overview



1992

Established

80

Global Plants

16,000⁺

Employees

\$13.5⁺ BILLION

Revenue.2023

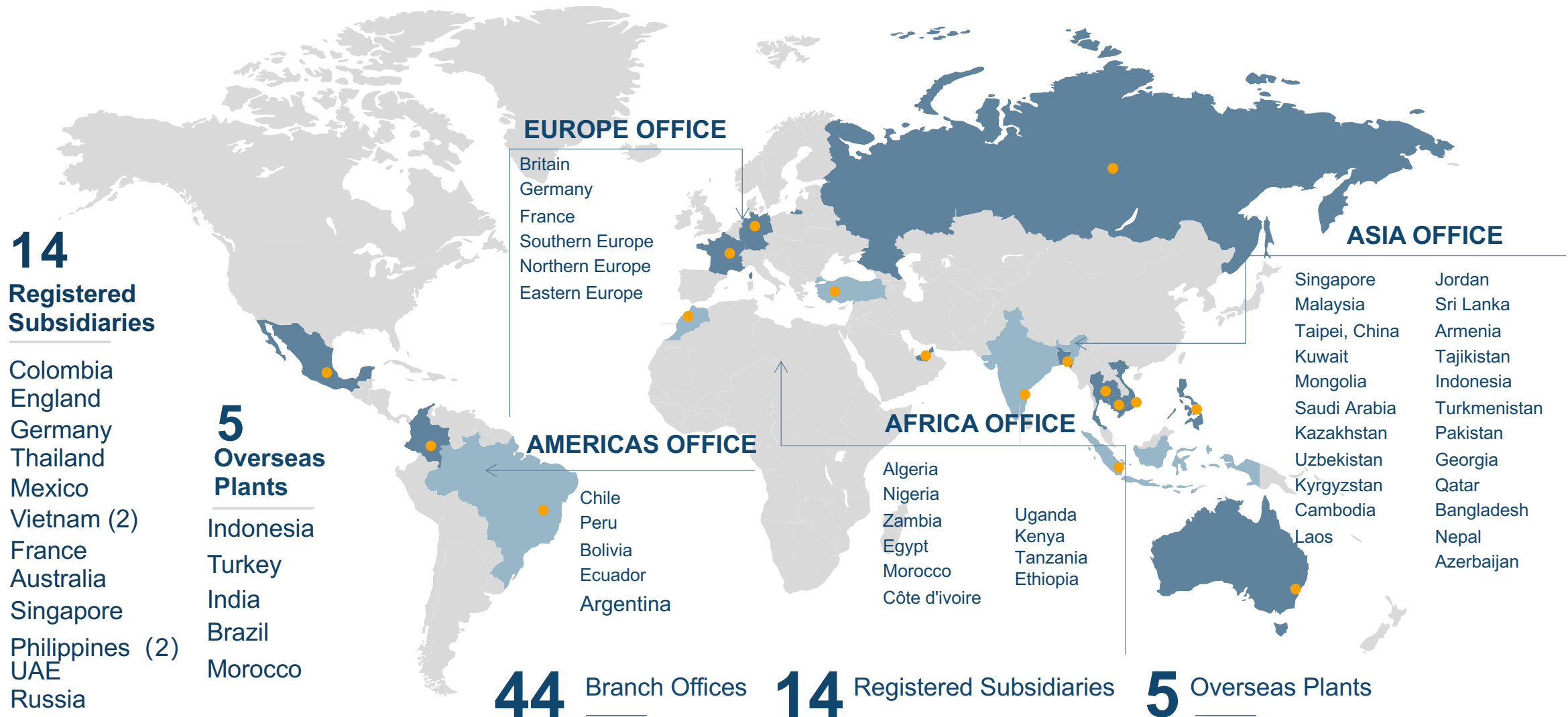
160

Global Markets

2002

Listed

Branch Offices & Registered Subsidiaries



Business Activities



TELECOM

- Preform
- Optical Fiber
- Fiber Optic Cable
- ODN Products
- Antenna & FTTA System
- 5G BTS Energy Solution
- Coaxial Cable
- Optical Transceiver & Active Optical Cable
- Data Center
-



POWER GRID

- Power Cable
- Overhead Conductor
- OPGW/OPPC
- Insulator
- Fittings
- Transformer
-



RENEWABLE ENERGY

- Photovoltaic Technology
- Lithium Battery
- BESS Storage System
- Hydrogen
-



MARINE SYSTEM

- Submarine Cable
- Industrial Cable & Wire
- Cable Accessories
- Cable Installation
- Foundation Pilling
- Turbine Lifting
-



EPC

- Overhead Transmission Line
- Underground Cable System
- Submarine Cable System
- Telecommunication Line & FTTH System
- Smart Substation Solution
- Battery Energy Storage System(BESS)
- New Energy Power Generation
-

Telecom(Global Presence)



Top 10 Most Valuable Brands



Top 10 Strongest Brands



2023 Brand Finance Telecoms Infrastructure 10. Telecoms Infrastructure 10.



Morocco

India

Indonesia

Brazil

Nantong, China

● Preform
1 plant

● Optical Fiber
6 plants

● Fiber Optic Cable
9 plants

● Coaxial Cable
1 plant

● FTTx
2 plants

● Antenna
1 plant

Optical fiber annual production capacity of 85,000,000 core kilometers

Optical cable annual production capacity of 3,500,000 kilometers



Preform

(The Pearl of the Communication Industry Crown)

- The only enterprise in China with 100% independent intellectual property rights of "super large size fully synthetic optical fiber preform" ($\Phi 190\text{mm} \times 2\text{m}$)
- VAD(core) +OVD(cladding) complete synthetic preform manufacturing technology



Optical Fiber

(Ultra Low Macrobend Loss Fiber)

- **Low-loss fiber, (super) low-loss large-area fiber industry leading the industry**, filling the domestic gap
- **Ultra-large length, ultra-high proof stress cable** for Submarine cable
- **Extremely cold-resistant fiber**, supporting the construction of Qinghai-Tibet transmission line



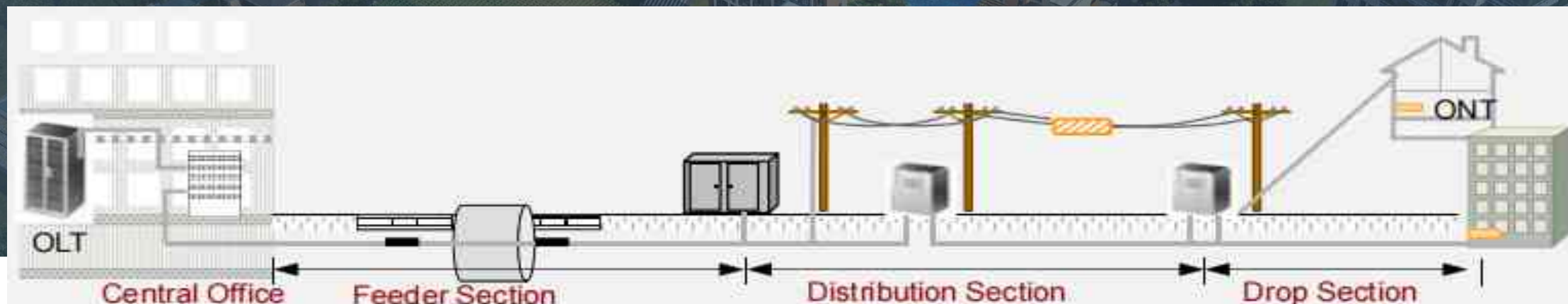
Fiber Optic Cable

(Special Optical Cable, Power Cable, Submarine Cable)

- **Intelligent Plant**
- **World-class specialist for special fiber optic cable**
- **National product champion:ADSS, OPGW**
- Participated in the drafting of domestic industry standards for **air blowing micro-cables**
- Maximum core number can be 864 fibers for **Micro bundle cable**
- Participated in the revision of the **international standard IEEE 1222-ADSS, IEEE 1138-OPGW IEEE 1195-OPPC**

Integrated service provider for complete FTTx product line:

- 83 global markets
- 41 telecom operators
- More than 2 Millions FTTx households



CO

- ODF
- Rack Cabinet



Feeder

- Closure
- Street Cabinet



Distribution

- FAT
- Floor Box
- Splitters



Drop

- ATB
- Fast Connector
- Patch Cords/pigtails



Coaxial Cable

■ Radio Frequency Cable

Rank: **TOP 3** in China

Market share: Approx. 30% in China

- ✓ Serve **465,000** base stations
- ✓ More than **19,000** indoor distribution projects

■ RF Jumper: **TOP 5** in China

■ Leaky Cable

Rank: **No.1** Brand in China

Market share: Over 50% in China market

- ✓ Widely used in **42** cities, **158** subway lines globally
- ✓ Carry **2,900,000** passengers every hour



Hybrid Cable & Railway Signal Cable

■ Hybrid cable for BTS Project

- ✓ China Telecom, China Mobile
- ✓ Over **500** base station projects

■ Hybrid cable for IBS Project

- ✓ China Telecom, China Mobile
- ✓ More than **1000** indoor distribution projects

- The only test platform for leaky coaxial cable tunnel simulation in China



Data Center Cabinet

- Safe and reliable
- High efficiency and energy saving
- intelligent control
- Support rotation, backup and cascade functions to avoid competitive operation
- Support RS485 communication mode and Modbus protocol
- Cooling capacity mode: air cooling type or chilled water type
- Cabinet size: 300 mm wide or 600 mm wide optional



Energy Cabinet

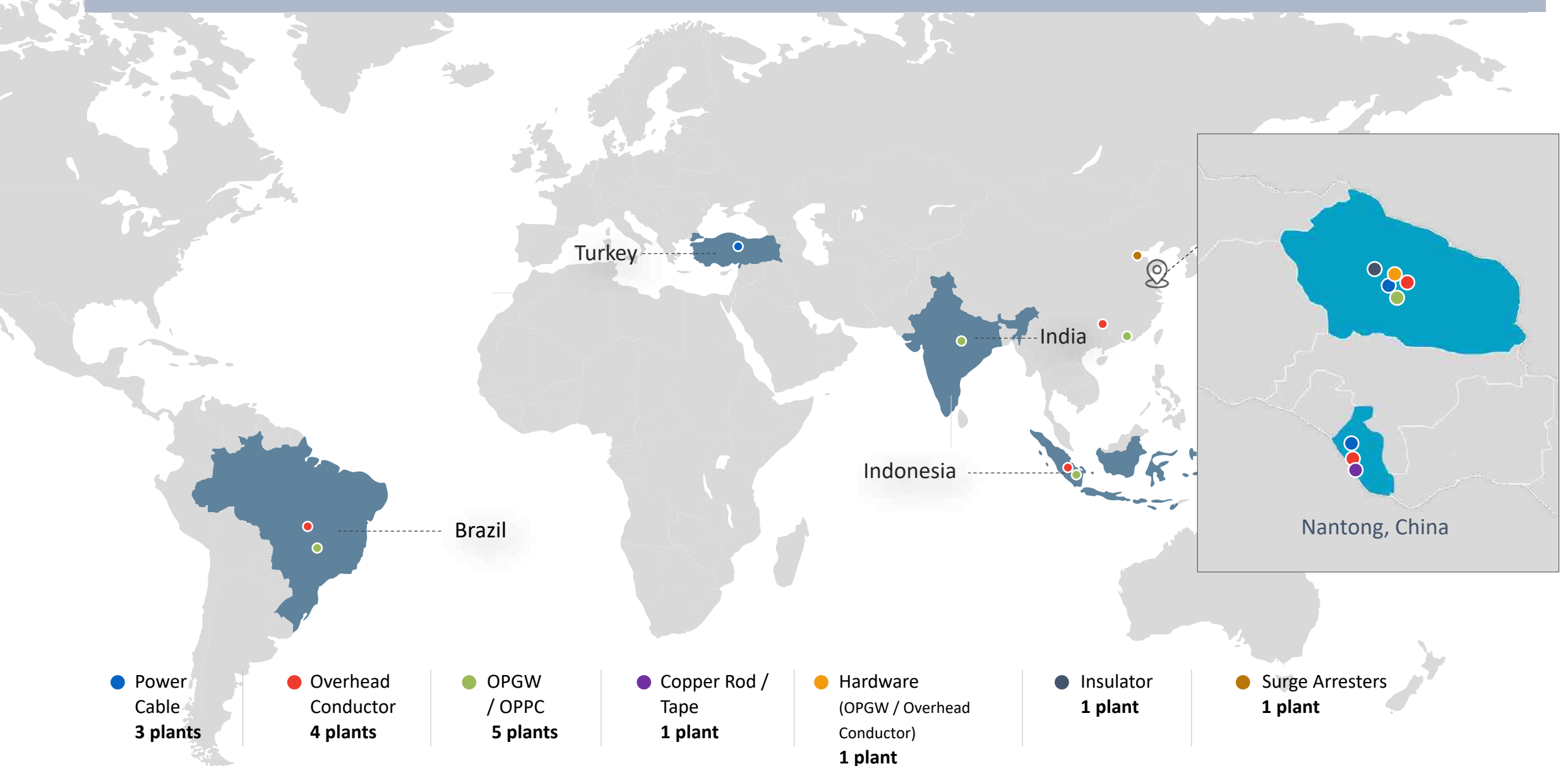
- High compatibility, cost saving (Idle batteries reuse).
- Digital power supply, high density and efficiency.
- Intelligent operation and maintenance for improving operation efficiency.
- Intelligent battery for maximizing the value of battery life cycle.



Optical Transceivers

- Professional optical transceiver research and development ability
- High-speed optical device packing , advanced automatic production and testing capabilities
- Workshop types: SMT/COB/OSA/transceiver

Power(Global Presence)





Power Cable

■ **HVDC System**

- ✓ $\pm 160\text{kV}, \pm 200\text{kV}, \pm 320\text{kV}, \pm 400\text{kV}$
- ✓ $\pm 525\text{kV}$
- (World Highest voltage & capacity 2000MW)

■ **HVAC System**

- ✓ 220kV (PQ & Type test qualified)
- ✓ Largest drum length
1.45km for 220kV 2500mm²
- ✓ 400kV (Type test and PQ test qualified)
- ✓ 500kV (Type test and PQ test qualified)

- LV, MV, HV,EHV cable solutions
- 62 global markets
- 75 power utilities
- $\geq 10,000$ km online operation



Overhead Conductor

■ **Conventional Conductor**

- ✓ Biggest Crossing in Asia **2,756m**
- ✓ Biggest Cross-section Area **1,645mm²**
- ✓ World Highest Voltage **$\pm 1100\text{kV}$**
- ✓ Heavy Ice **60mm**
- ✓ High Attitude **5,300m**

■ **Uprating Conductor**

- ✓ ACSS/GAP/INVAR
- ✓ More than **55,000km** online operation

- $\geq 1,750,000$ tons online operation
- 85 global markets
- 320 power utilities



OPGW/OPPC

■ **Typical Experience**

- ✓ Ultra-high Voltage 1000kV, $\pm 1100\text{kV}$
- ✓ Ultra-long Span 2,756m
- ✓ Ultra-low Temperature -60°C
- ✓ Ultra-heavy Ice Load 60mm

- **Top 1 global market share**
- $\geq 650,000$ km online operation
- 125 global markets
- 518 power utilities
- IEEE 1138 OPGW committee members
- IEEE 1595 OPPC committee chairman

		
Fittings	Insulator	Surge Arresters
■ Overhead Line Fittings ■ Substation Hardware ■ OPGW\ADSS\OPPC\OFC Hardware ✓ Max Voltage Up to 1000kV, ±1100kV ✓ Max Span 1,940m ✓ Max Altitude 5,300m ✓ Max Strength 1200kN ✓ Type Test KEMA, CESI, VEIKI	■ Voltage Up to ±1100kV, 1000kV ■ Max Strength 1000kN ■ Type Test Report ±1100kV, 1000kV ■ 5000h Multi-stress Test Report	■ Voltage up to 500kV ■ Side insulated glazed resistor with heat resistance up to 470 °C ■ China's first fully enclosed slurry production line ■ China's First 10000-Class Clean Room for Assembly
• 71 global markets • 128 power utilities	• 36 global markets • 74 power utilities	• For transmission & substation

Renewable Energy—Energy storage



A purpose designed 80MW/200MWh BESS container being transported under full monitoring to Ulaanbaatar, Mongolia.

Next Gen BESS Solutions

Scalable, Robust,
Modular for Rapid Deployment

8 yrs+

Exp. in BESS
Integration

10 yrs+

LFP Battery
Production

-45°C

Low Temperature
Resistance

8GWh

Annual
Capacity

2500

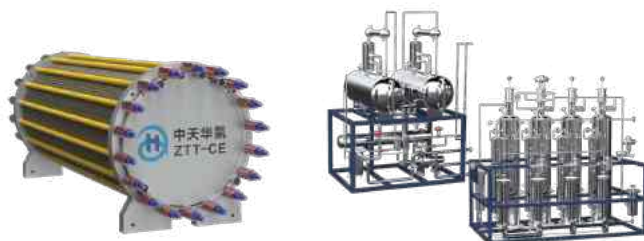
Group
Patents



Renewable Energy—Hydrogen Energy

ZTT has embarked on a project to become the leading supplier of hydrogen production equipment supplier and project contractor for Hydrogen stations in China. We are doing this based on our unmatched expertise in manufacturing and engineering construction, and in partnership with the National Energy Group Hydrogen Technology Co. for the investment and construction of hydrogen energy projects. We will also utilise the and the technical knowledge of the National Institute of Clean-and-Low-Carbon Energy for the required hydrogen energy equipment technology. This ambitious project will allow ZTT to become a global leader for Hydrogen technology.

Hydrogen Production



ALK Electrolyzer

Purification plant



Integrated hydrogenation station

Engineering Construction



Hydrogen production station



Hydrogen refueling station

Hydrogenation Equipment



35/70MPa Dispenser

Gas discharge pole



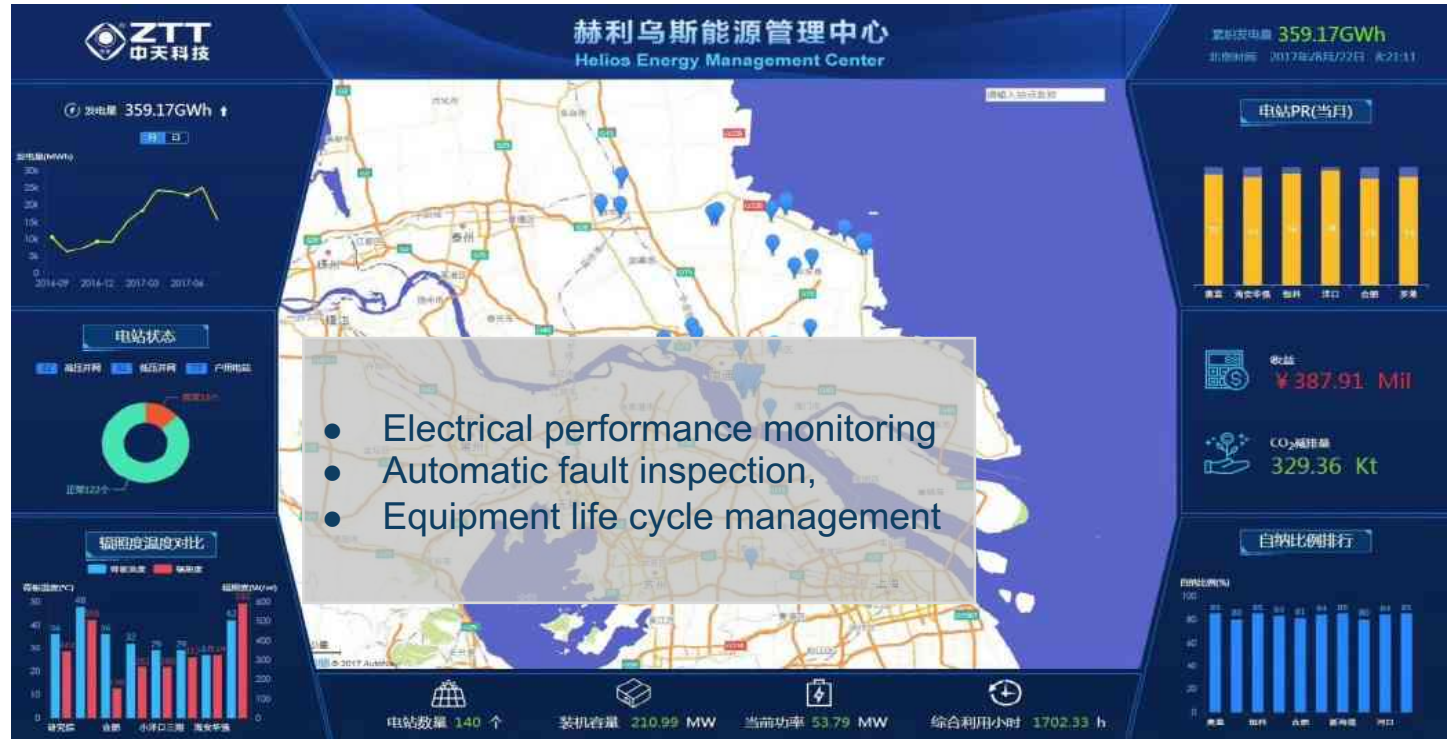
45/90MPa Diaphragm compressor



Sequence

Renewable Energy—Photovoltaic power

- The total amount of ZTT photovoltaic power generation now reaches 1GW, reducing carbon emissions by 853,000 tons in total.
- Most of our factories have installed photovoltaic panels on the roofs, carports and most of the open land, which can cover half of our office operation.
- From 2023 to 2025, the newly installed capacity of ZTT Photovoltaic is planned to be 3GW.
- ZTT has its own developed new energy management system-Helios Energy Management Center



Marine System

4 Manufacturing Plants



Note: Shandong Plant (MV & HV Submarine Cable) @Rushan – construction phase.

4 CLBs & 5 Offshore Installation Vessels



Marine System



Submarine Cable

- ✓ The largest and most comprehensive manufacturing base for submarine cable in Asia, with over 20,000 km supplied globally.

- Submarine fiber optic cable
- Submarine power cable
- Submarine composite cable
- Dynamic submarine cable
- Umbilical cable



Marine System

- ✓ Oceanic observation system
- ✓ Submarine cable accessories:
 - Bend Restrictor
 - Junction Box
 - Cable End Cap
 - J-tube Seal
 - Power Cable Termination Kit
 - Power Cable Joint
 - Pulling Head / Bullnose
 - Tie-back Grip
 - Link Box
 - Protector
 - Repair Joint
 - Armor Hang-off



Marine Engineering

- ✓ Submarine cable installation
- ✓ Horizontal directional drilling (HDD)
- ✓ Installation of oceanic observation system
- ✓ Offshore foundation installation
- ✓ Offshore wind turbine installation
- ✓ Repair and maintenance
- ✓ Testing and other services

- ZTT now extends its service to Finance, Design, Supply, Installation, Testing and Maintenance, and offers EPC, EPC+F, BOO/BOT solutions.
- ZTT has executed several projects as the main contractor in Cambodia, Philippines, Bangladesh, Mongolia, Chile, Zambia, Uganda, Ethiopia and other countries.



Renewable Power
Generation



Telecommunication
Line



Underground
Cable System



Submarine Cable
System



Overhead
Transmission Line



Smart Substation
Solution

QHSE Certificate



Quality, Health, Safety & Environment Management (QHSE)

Key Customers

POWER GRID



Key Customers

TELECOM											
											
											
											
											
											
MARINE SYSTEM											
											

Social Responsibilities



Established ZTT charity fund to help the poor and families in difficulties



Established "ZTT Scholarship" for more than 20 universities



Employs International talents and continuously develop local employees



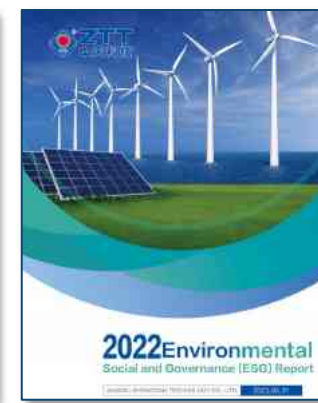
Provides equal employment opportunities and diversified career development channels



Regularly publishes ESG Report



WCA, SA 8000 & Ecovadis certified



Social Responsibilities

Carbon Footprint Real-time Monitoring

- ✓ ZTT carries out real-time monitoring 24/7 to collect and evaluate our carbon emission data.

Carbon Footprint Verification

- ✓ ISO14067: 2018 Approved.
- ✓ Grade B from CDP (Average score in Asia is C)



CDP SCORE REPORT - CLIMATE CHANGE 2022



Jiangsu Zhongtian Technology Co Ltd

Region	Asia
Country/Area	China
Questionnaire	General
Activity Group	Electrical & electronic equipment

The CDP Score Report allows companies to understand their score and indicate which categories require attention to reach higher scoring levels. This enables companies to progress towards environmental stewardship through benchmarking and comparison with peers, in order to continuously improve their climate governance. Investors will additionally receive a copy of the CDP Score Report upon request. For further feedback please contact your account manager or your key CDP contact.

Your CDP score



Average performance

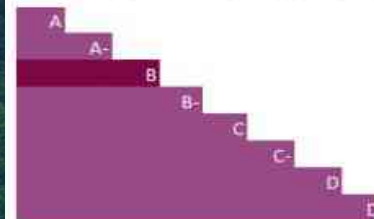


Electrical & electronic equipment

Asia

Global Average

UNDERSTANDING YOUR SCORE REPORT



Jiangsu Zhongtian Technology Co Ltd received a B which is in the Management band. This is higher than the Asia regional average of C, and higher than the Electrical & electronic equipment sector average of C.

Leadership (A/A-): Implementing current best practices
Management (B/B-): Taking coordinated action on climate issues
Awareness (C/C-): Knowledge of impacts on, and of, climate issues
Disclosure (D/D-): Transparent about climate issues

ACTIVITY GROUP PERFORMANCE

Electrical & electronic equipment

Your company is amongst 34% of companies that reached Management level in your Activity Group.

THANK YOU!



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