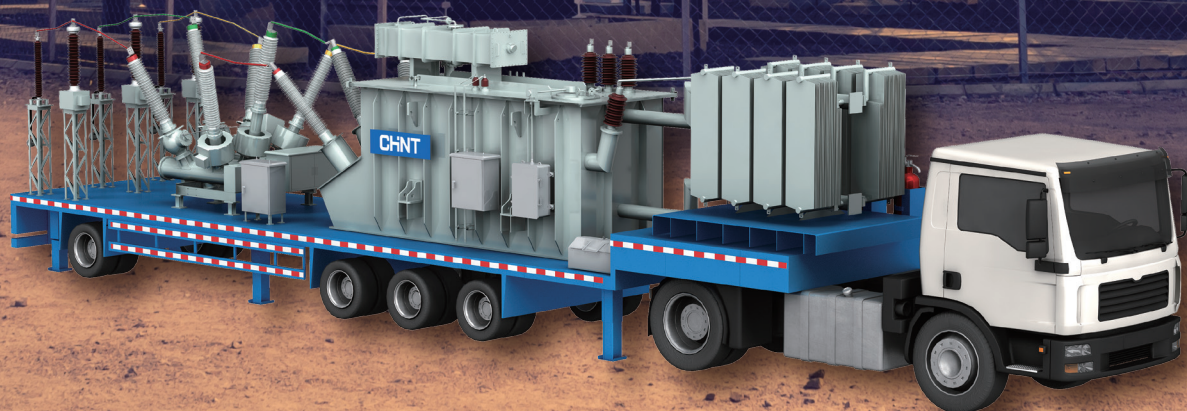


CHNT

Empower the World



Mobile Substation

One Stop Energy Solution

ABOUT CHINT



CHINT A leading global provider of smart energy solutions

CHINT was established 38 years ago in 1984 and built from the capital of approximately 8,000 US dollars. With our rapid development these years, CHINT has become the world's leading intelligent energy solutions provider for the whole industrial chain with the most complete product ranges. In 2021, our annual sales revenue exceeded 16.1 billion dollars and total assets of more than 16.2 billion.

Over two decades of global expansion, our business network covers more than 140 countries and regions worldwide in business industries of low-voltage electric, power transmission and distribution, smart technology, energy instruments and meters, green energy, solar and more. CHINT has more than 40,000 employees worldwide, creating more than 200,000 jobs in the industrial chains.

As the market localization progresses steadily, CHINT Global further establishes its supply chain through business integration and industrial upgrade. Optimizing the service system and project financing, providing innovatively integrated technical services for the global energy market, and a flexible working business model. energy, intelligent manufacturing and digital technology, CHINT has adopted "One Cloud & Two Nets" as the business strategy, takes "CHINT Cloud" as the carrier of intelligent technology and data application, and takes the lead in building the energy Internet of things (EIoT) and industrial Internet of things platforms (IIoT).

Focusing on the energy system of supply, storage, transmission, distribution and consumption, CHINT has core businesses of clean energy, energy distribution, big data and energy value-added services. Furthermore, CHINT's pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. By developing into a platform-based enterprise, CHINT provides a package of energy solutions for public institutions, industrial & commercial users and end-users, by building a regional smart energy operation ecosphere.

Main Businesses



Clean Energy



Low-voltage
Apparatus



Power Transmission and
Distribution



Instrumentation
and Apparatus



Smart Home



Intelligent
Building



Intelligent
Manufacturing



Industry
Automation



Smart Heating



Smart Water



Home Electrical
Apparatus



Energy Efficiency
Management

ABOUT CHINT ELECTRIC

CHINT Electric Co., Ltd is a subsidiary of CHINT Group Corporation. With the wide range of transmission and distribution products, as well as the systematic and professional solution, CHINT Electric has supplied products and EPC services to customers over 140 countries across different industrial sectors, including power utility, renewable energy, oil and gas, metallurgy, railway and so on. Now CHINT Electric Co., Ltd has become one of the main players for Power T&D equipment and EPC services in the world.

Product Line

The product series is designed solely for the electrical systems with maximum voltage 750kV, covering around 2000 kinds of products within 150 series.

Product Range

- Power Transformer (Up to 750kV)
- SVG Transformer (Up to 35kV)
- Dry-type Transformer (Up to 35kV)
- Reactor (Up to 252kV)
- GIS (Up to 252kV)
- Circuit Breaker and Disconnector (Up to 252kV)
- MV & LV Switchgear Panels
- Surge Arrester and Insulator (Up to 1000kV)
- Current Transformer and Potential Transformer (Up to 500kV)
- Vacuum Circuit Breaker (Up to 12-40.5kV)
- Distribution Automation System
- Cable (Up to 36kV)
- Capacitor (Up to 110kV)



Surge Arrester
up to
500kV



Insulator
up to
1000kV



GIS
up to
252kV



HGIS
up to
145kV



Dry-type
Transformer
up to
35kV



MV & LV
Switchgear
Panels
up to
40.5kV



Power
Transformer
up to
750kV



CT & PT
up to
245kV



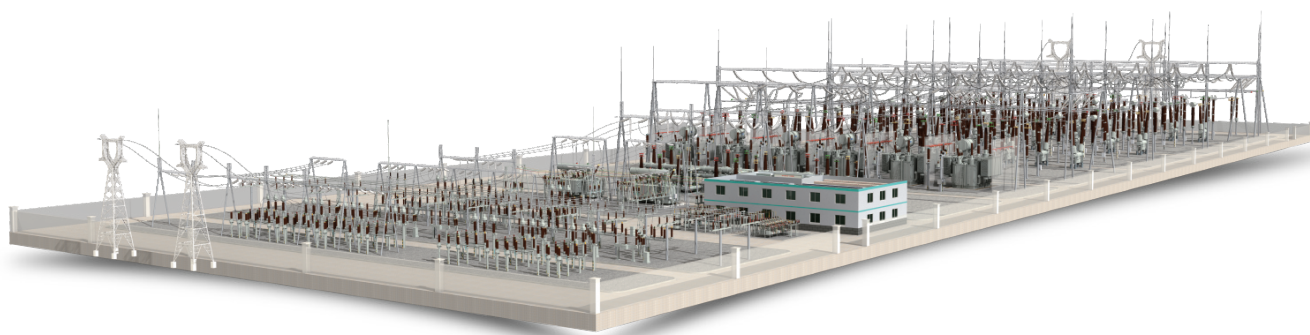
Circuit
Breaker
up to
252kV



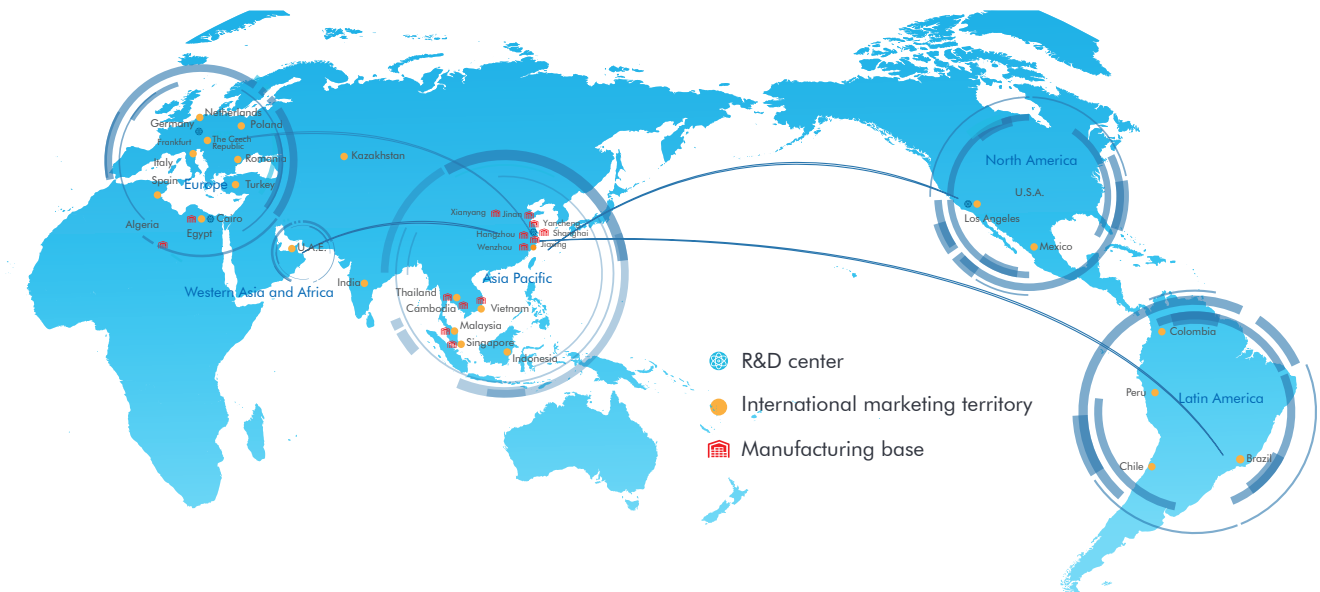
SVG
up to
35kV



Cable
up to
500kV



GLOBAL FOOTPRINT



4 National R&D Centers: North America, Europe, Asia Pacific, North Africa

6 International Marketing Territories: Asia Pacific, Western Asia and Africa, Europe, Latin America, North America, China

14 Manufacturing Bases: China (Wenzhou, Hangzhou, Shanghai, Jiaxing, Xianyang, Jinan, Yancheng), Thailand, Singapore, Vietnam, Malaysia, Egypt, Algeria and Cambodia

20+ International Logistics Centers

2300+ Sales Companies

GLOBAL CAPACITY LAYOUT

The industrial manufacturing bases are mainly located in Wenzhou, Hangzhou, Shanghai, Jiaxing, Xianyang and Yancheng. Additionally, CHINT has set up factories in Thailand, Singapore, Vietnam, Malaysia, Egypt, Cambodia etc.



R&D, QUALITY, SALES, LOGISTICS

Main Advantages

Global R&D System

CHINT has established national R&D centers in North America, Europe, Asia Pacific, North Africa and other areas. We have explored the mode of Industry-University Research Institute Collaboration and Integration together with the universities and research institutions worldwide so as to integrate the global innovation resources and promote corporate R&D innovation and talent cultivation.



24 research institutes



The average annual R&D investment accounts for 4-12% of the revenue



Over 6000 patents in total

Global Certification

The products have passed the standards and specifications in various regions around the world and obtained numerous international certifications



Honors

- No. 1 in China's Top 100 Private Enterprises with Social Responsibility in 2021
- No. 92 in 2021 China's Top 500 Private Enterprises
- No. 244 in 2021 Top 500 Chinese Enterprises
- The intelligent manufacturing factory of low-voltage electrical appliances was selected as the national 2021 Intelligent Manufacturing Demonstration Factory




Integrated Vertical R&D

 By gathering the global industry elites to Provide safe and stable energy-saving green and advanced electric products.


5%

At least 5% of revenue is invested in research and development


Great Quality System

 Ensuring flaw-free products, the multi-dimensional and multilevel control is conducted through procurement, inspection, quality control and certification.

One-stop Services

 CHINT's concept is that it is not difficult to fulfill a high-quality logistics distribution at one time, while it is difficult to stay as accurate and prompt as the first-time. High-efficiency and high-precision accuracy are our requirement.

48-Hour Response

 Providing end-to-end one-stop services for customers with complains, business consulting and technical support by solving problems immediately and including any possible problems in advance.



1.0

CHINT Mobile Substation

Chint mobile substation can be used in all aspects of power generation, transmission, transformation and distribution to provide customers with reliable and stable power supply.

Grid operators and power generation companies are devoted to ensure a stable and reliable supply of electricity to their customers. Satisfying its customers' power demand in a short time and are not affected by potential emergencies.

Chint mobile substation solutions ensure a safe and reliable grid connection that meets the harsh environmental requirements anytime, anywhere.

Chint's modular solutions, all module units undergo comprehensive factory testing before shipping, ensuring quick and easy on-site connection and timely commissioning.

What is Mobile Substation?

CHINT Mobile Substation is installed on a moveable platform, equipped with HV&MV components such as Power transformer, Switchgear (GIS,HGIS,AIS), Instrument Transformer, Surge Arresters, Protection Relays, AC and DC auxiliary power supply and control systems and other equipment are all there to meet client's specific requirements



2.0

Application Scenarios

Turnkey solutions for our customers, Chint Mobile Substation can solve pain point as below scene:

Power maintenance, power grid reconstruction

Rush repair, high-load power expansion temporary demand for old station transformation, replacement of places after call.

In the transformation/maintenance of substation equipment, replace the transformation or maintenance equipment or run at intervals for a period of time to achieve no power outage transformation or maintenance.

In the case of sudden power equipment accidents, there is no need to outage the whole process, and the mobile transformer can quickly replace the accident equipment or the accident interval, improving the reliability of power supply.



Mining smelting, petroleum and petrochemical

Remote material shortage, the work site will be frequently changed.

Mining, smelting field engineering, etc., need to provide temporary power access, a few months or years, the ground power station cost is high, the construction of land is difficult, mobile change is an adaptive solution.



Temporary infrastructure, new industrial park

Located in remote areas, construction requires electricity and frequent replacement of sites.

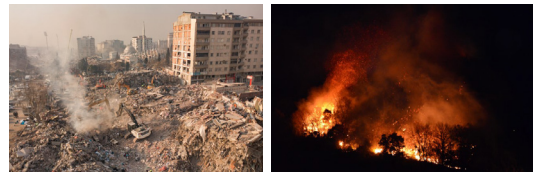
Temporary infrastructure projects, new parks, put into mobile substations, provide power supply, easy to transfer after use, repeated use, without land approval.



Natural disaster, artificial damage

VUCA Times, earthquakes, floods, mudslides, extremely large hail, typhoons occur from time to time, emergency and environment man-made destruction of power supply facilities.

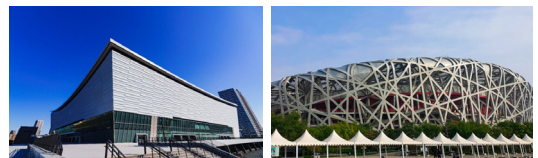
In case of sudden and unpredictable natural disasters or man-made damage, sudden equipment failure and other emergency situations, it can quickly replace conventional power substation and restore power supply.



Key areas, major events

Places that can not be cut off, large and important activities on-site power supply, standby transmission and transformation equipment.

Hospitals, major events, exhibitions, Olympic games and other important places, people want some equipment could be used as a backup power supply to obtain uninterrupted power supply.



132 / 33kV, 40MVA Mobile Substation



- Pre-sale, customized design;
- In sale, project management concept;
- After-sales, global service system;

- Whole process control;
- Full cycle service;
- All-round guarantee;

9 | CHINT

4.0

Parameter and Key Benefits

MOBILE SUBSTATION ARE AVAILABLE FOR THE FOLLOWING RATED VOLTAGE AND POWER LEVELS

High-voltage(primary)side						
Rated voltage	[kV]	36	72.5	145	170	245
Rated frequency	[Hz]	50,60				
Power frequency withstand voltage	up to [kV]	70	140	275	325	460
BIL	up to [kV]	170	325	650	750	1050
Power transformer						
Rated power	[MVA]	35	35	63	120	120
Medium voltage (secondary) side						
Rated voltage	[kV]	7.2	12	17.5	24	36
Rated frequency	[Hz]	50,60				
Power frequency withstand voltage	[kV]	20	28	38	50	70
BIL	[kV]	75	75	95	125	170

Note: CHINT also has the ability to design and produce other voltage level and capacity products

Chint provides a full range of professional services, from the trailer and transport system to the connection to the grid on site and commissioning of the whole substation.

Key Benefits of CHINT Mobile Substation

Conventional substation VS Mobile substation

● Cost and Area

- Invest cost high;
- Process complex and time-consuming;
- Occupy area large;

● Time-consuming

- The preparation before putting into operation is complicated and time-consuming;

● Fixed

- Fixed power station, inconvenient to move, not easy to move transfer;

● Maintenance

- On-site maintenance or return to factory maintenance inconvenience;



Conventional

Mobile

● Cost and Area

- low investment cost;
- Short delivery cycle;
- 1/10 of the traditional power station;

● Rapidly time-saving

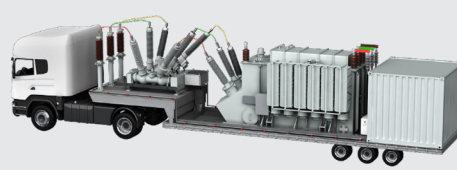
- Less preparation before operation and Quick operation;

● Mobile

- Mobile and flexible, move everywhere;
- Quickly arrive at site;
- Easy to disassemble, easy to expand;

● Maintenance

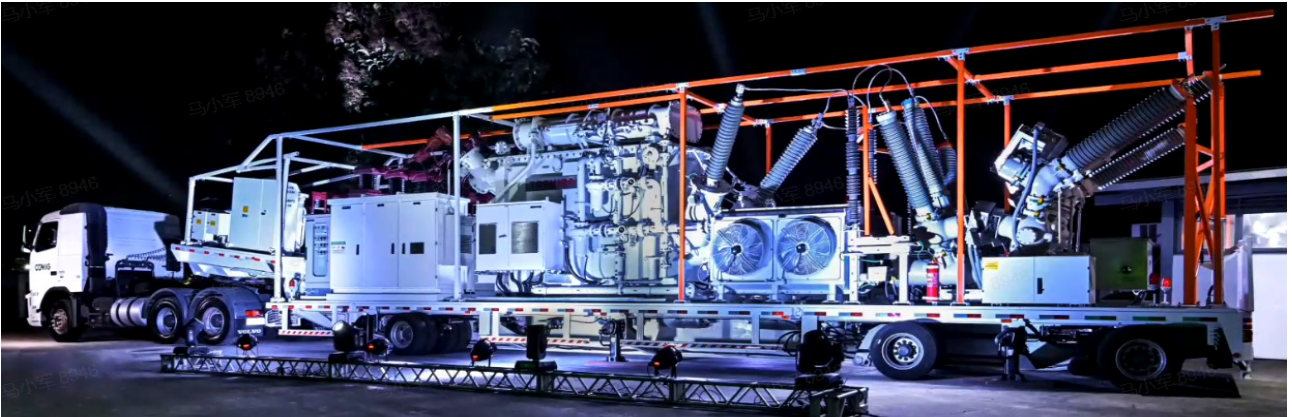
- Easy maintenance and repair;



One-stop solution, perfect matching requirements, short delivery period, throughout the global service system to escort customers

5.0

Mobile Substation Reference



Brazil 145kV Mobile Substation



Italy 69kV Mobile Substation



Ecuador 46kV Mobile Substation



China 35kV Mobile Substation



China 132kV Mobile Substation

Asia Pacific

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