

# Brief Introduction of CHINT Group

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**CHINT Overview**

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# A

## CHINT Overview

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# Key Features

CHINT

Empower the World

**13.7** billion USD  
2020 CHINT Group Revenue

**13.6** billion USD  
CHINT Group Total Assets

**30000+**  
Global Employees

**5.1** billion USD  
2020 revenue of  
CHINT Electric (601877)

**10.02 %**  
2020 Year on year growth of  
CHINT Electric (601877)

**37 %**  
2020 year on year growth of  
CHINT Global

**140+**  
Countries and Regions

**20** years  
Listed as Top 500 Enterprises of  
China for 20 Consecutive Years

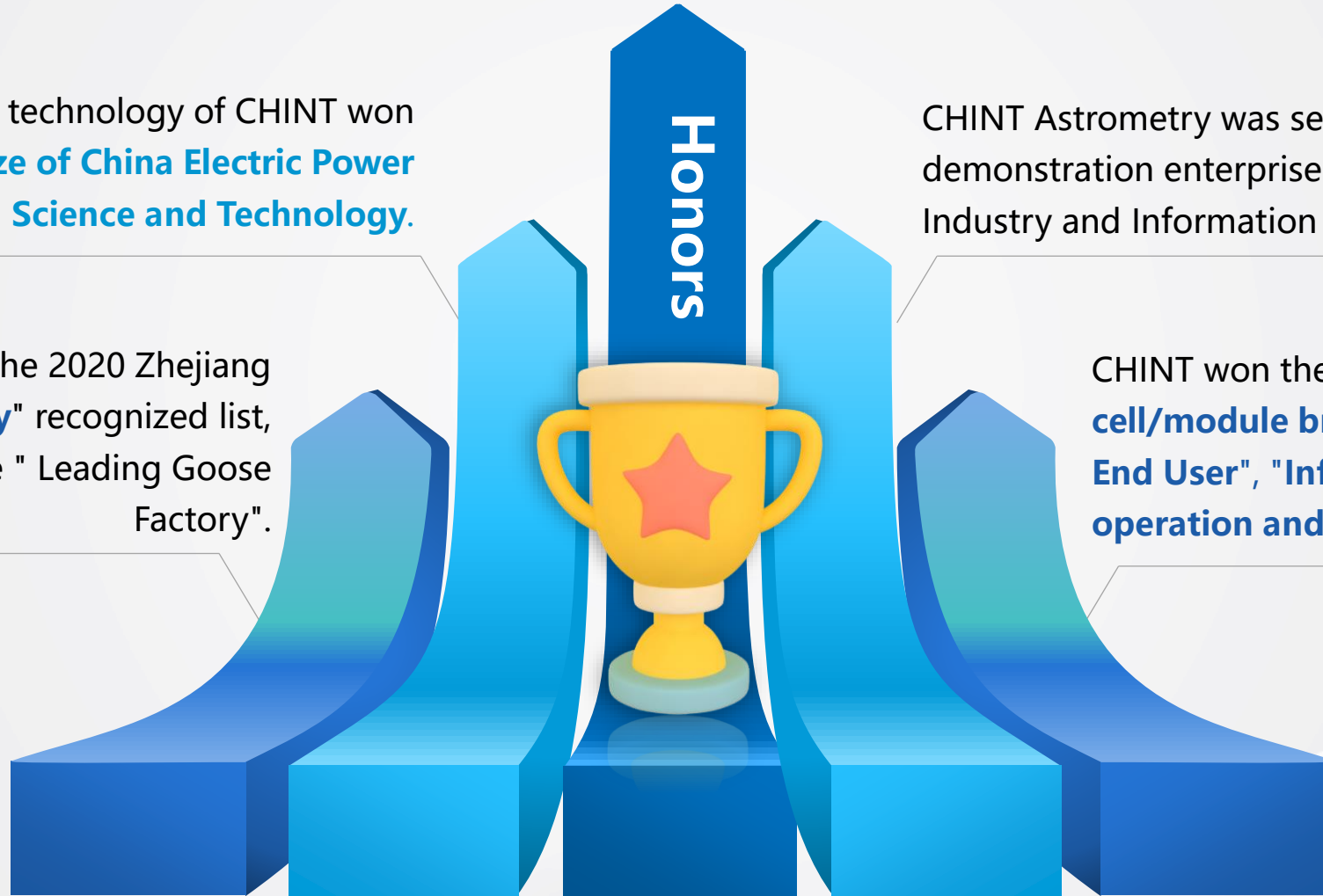
**6000+** MW  
Cumulative Investment in  
Photovoltaic Power Plants Worldwide

The key inverter technology of CHINT won **the second prize of China Electric Power Science and Technology**.

CHINT was selected in the 2020 Zhejiang Province "**Future Factory**" recognized list, and was rated as the "Leading Goose Factory".

CHINT Astrometry was selected as the smart PV demonstration enterprise list of the Ministry of Industry and Information Technology

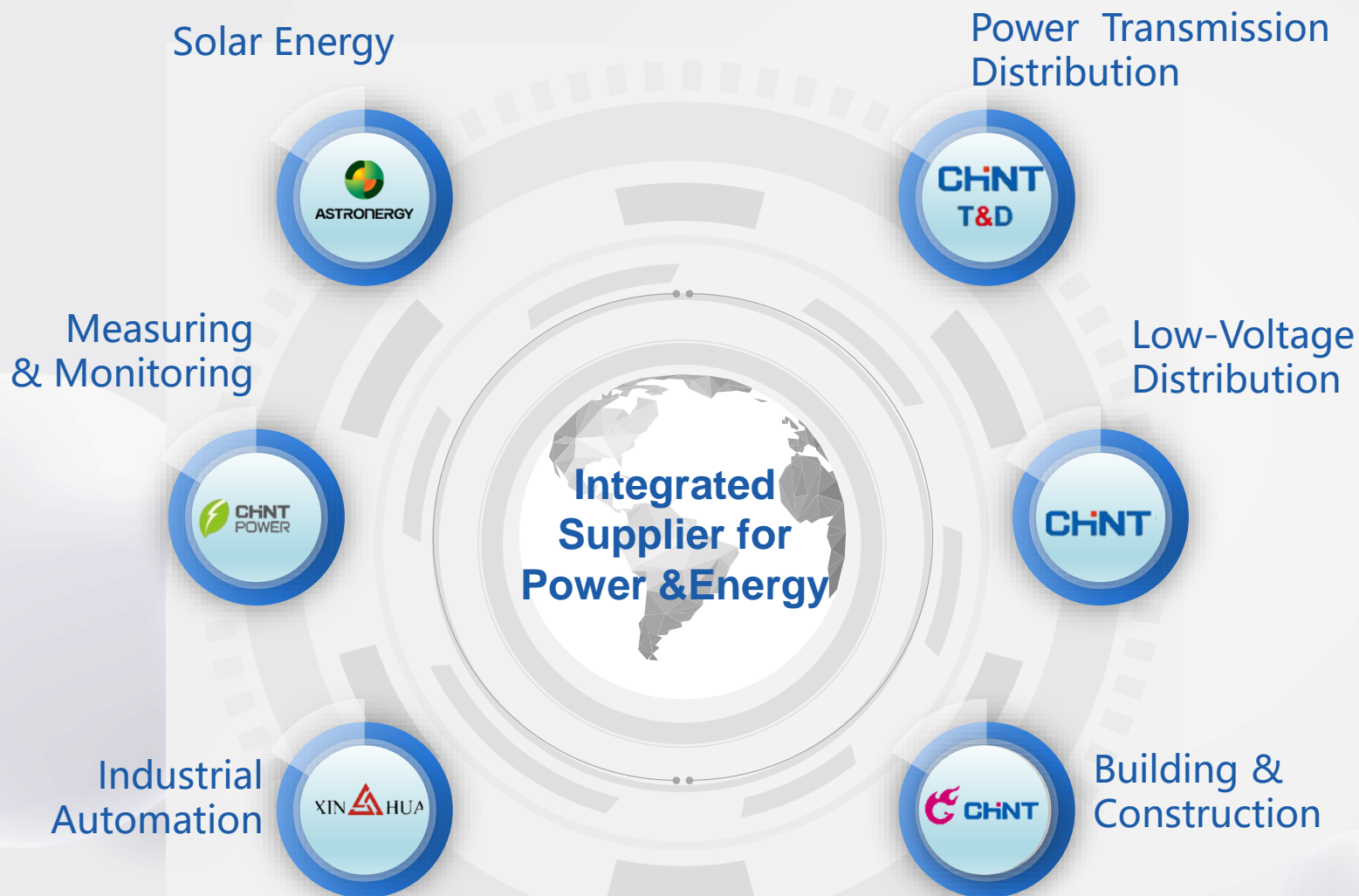
CHINT won the honor of "**Influential PV cell/module brand**", "**Influential PV EPC / End User**", "**Influential PV power station operation and maintenance brand**".



# Industrial Cluster

CHNT

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T&D > 90 Power Utility Companies

MCB: 3 Million /Day

PV Total Power: 12 GW

Inverter: 15 GW

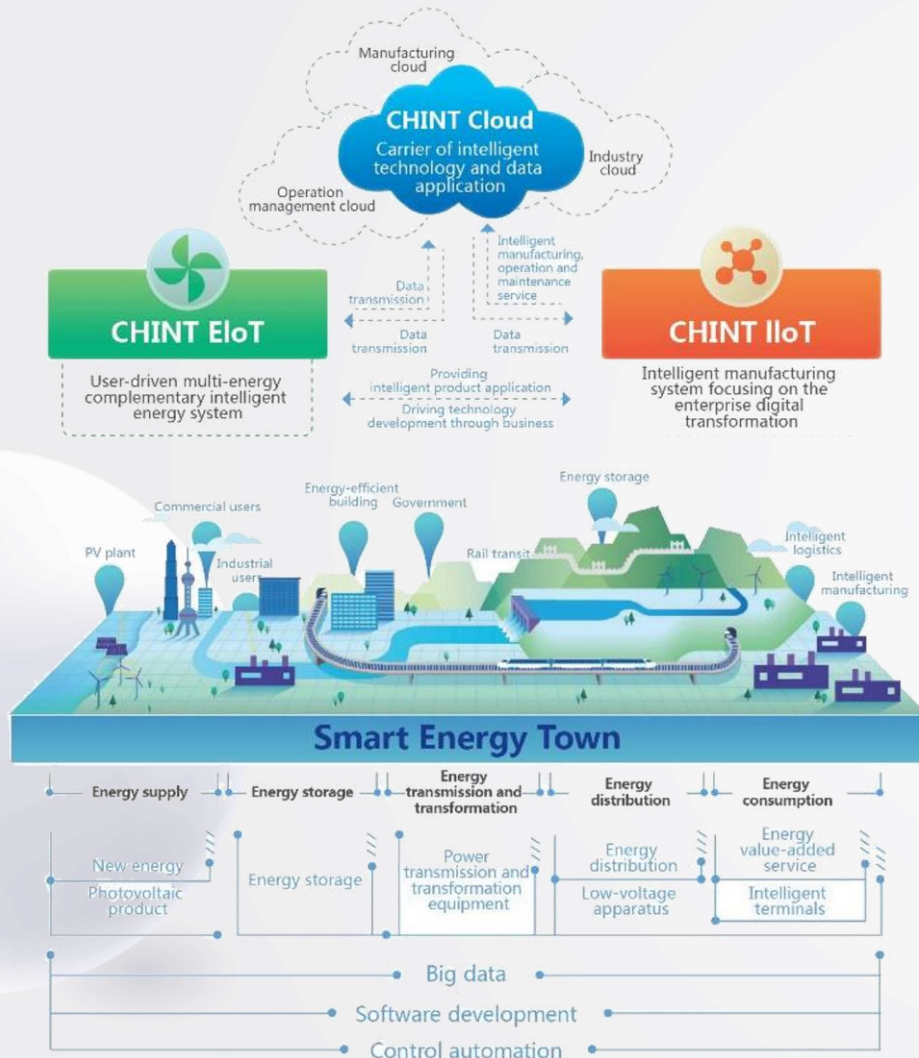
Meters: 23 million pcs / year

# “One Cloud Two Nets” Strategy

CHINT

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CHINT, a leading global smart energy solution provider



CHINT has adopted the *One Cloud & Two Nets* as business strategy.

Focusing on energy system of supply, storage, transmission, distribution and consumption, CHINT realizes intelligent application in electrical industry and develops the **regional EIoT mode**.

To develop into a platform enterprise, CHINT provides a package of energy solutions for public institutions, industrial & commercial users and terminal users by building a regional smart energy operation ecosphere.



# Development Journey

**CHINT**

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- Green Energy
- Smart Manufacturing
- 2006-2015

- Platform Built to Enables Innovation
- 2016-NOW

- Industry-focused
- Integrated Development
- 1984-2005

**1994**  
Established  
Wenzhou CHINT  
Group

**1991**  
Set-up of  
Wenzhou CHINT  
Electric Co., Ltd

**1984**  
Started from  
Low Voltage

**2010**  
CHINT Electrics (60187)  
A-share listed

**2012**  
Acquisition of  
Shanghai  
Xinhua

**2017**  
Established  
Research  
Institute of  
CHINT Group

**2019**  
Released the "One  
Cloud and Two  
Nets " Strategy

**2020**  
Launched  
CHINT  
Global

**2016**  
Taking a stake in  
GRABAT and  
graphene  
batteries

**2015**  
Lead to set up  
Wenzhou Civil  
Commercial  
Bank, etc.

**2006**  
Layout in new  
energy

**2004**  
Layout in high  
voltage

# Global Capacity Layout

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The industrial manufacturing bases are mainly located in Wenzhou, Hangzhou, Shanghai, Jiaxing, Xianyang, Jinan and Yancheng, with factories in Thailand, Singapore, Vietnam, Malaysia, Egypt, Algeria and Cambodia (preparation).

## Domestic Manufacturing Bases

## Overseas Regional Factories



Wenzhou Production Site



Hangzhou Production Site



Shanghai Production Site



Thailand Solar  
Production Site



Cambodia  
Production Site



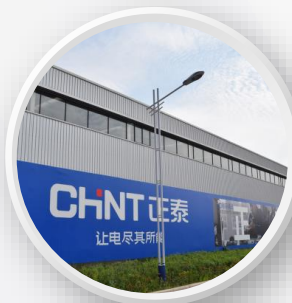
Singapore Production  
Site



Vietnam Production Site



Jiaxing Production Site



Xianyang production Site



Jinan Production Site



Malaysia Production Site



Egypt Production Site



Algeria Production Site

# Global Presence

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140+

Countries

2300+

Distributors

30+

Overseas subsidiaries

20+

Logistics centers

4

R&D Centers

13

Manufacturing Bases



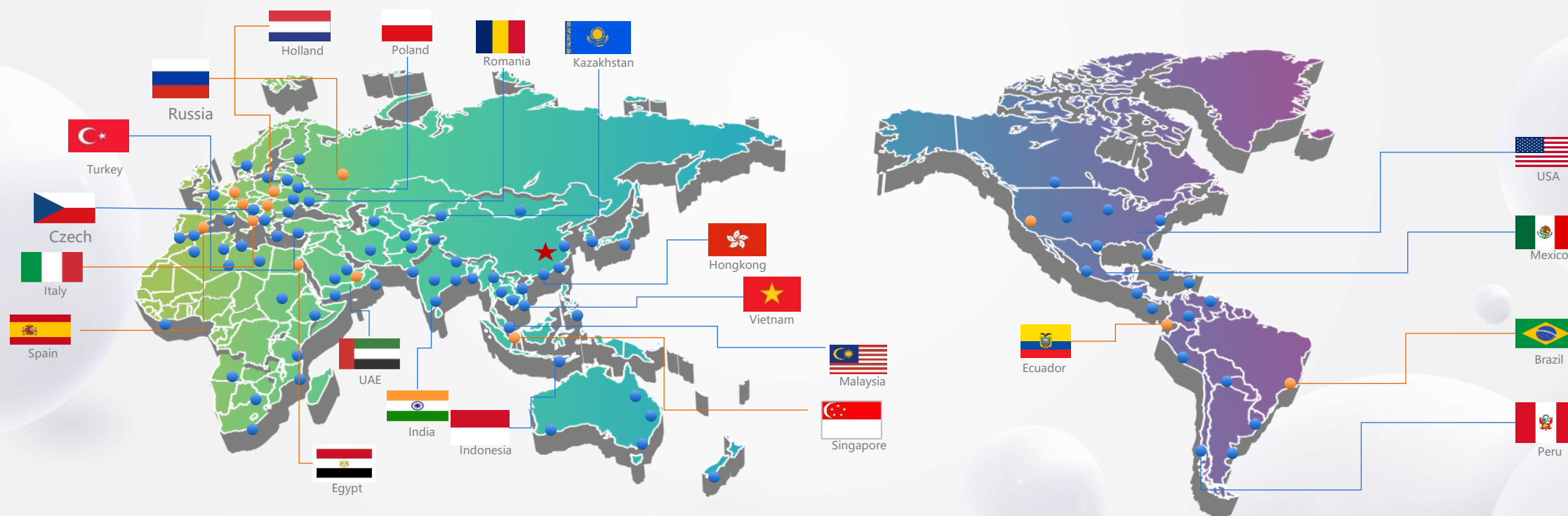
Headquarters



Regional headquarters



distributor



01

## Power Utilities





02

## Engineering Contractors

**aggreko**

Aggreko  
UK

**cobra**

COBRA  
SPAIN

**acciona**

Acciona Energy  
SPAIN

**SMS group**

SMS group  
GERMANY

**Bouygues**

Bouygues  
FRANCE

**EIFFAGE**

EIFFAGE  
FRANCE

**METKA**

METKA  
GREECE

**ENERGIPD**

ENERGIA PD  
HONDURAS

**GE**

GE  
USA

**JACOBS**

JACOBS  
USA

**FLUOR**

FLUOR  
USA

**HATCH**

HATCH  
CANADA

**SNC-LAVALIN**

LAVALIN  
CANADA

**BPR**

BPR  
CANADA

**ISOLUX CORSA**

ISOLUX CORSA  
SPAIN

**ABENGOA**

ABENGOA  
SPAIN

**SIEMENS**

SIEMENS  
GERMANY

**TATA**

TATA Power  
INDIA

**WorleyParsons**

WorleyParsons  
AUSTRALIA

**APR ENERGY**

APR Energy  
MYANMAR

**TAQQAT**

TAQQAT  
SAUDI ARABIA

**CONCO**

CONCO  
SOUTH AFRICA

**Cegelec**

CEGELEC  
BELGIUM

**LARSEN & TOUBRO**

LARSEN & TOUBRO  
UAE

03

## Industrial End User

**UPM**

UPM  
FINLAND

**KOC**

KOC  
KUWAIT

**FINCANTIERI**

Fincantieri  
ITALY

**ENI Saipem**

Saipem  
ITALY

**SAINT-GOBAIN**

Saint Gobain  
FRANCE

**SOLVAY**

SOLVAY  
BELGIUM

**bp**

BP  
UK

**SAMSUNG**

SAMSUNG  
KOREA

**bhpbilliton**

Bhp Billiton  
AUSTRALIA

**RioTinto**

Rio Tinto  
AUSTRALIA

**PDVSA**

PDVSA  
VENEZUELA

**INVISTA**

INVISTA  
USA

**Chevron**

Chevron  
USA

**JFE**

JFE  
JAPAN

**VISY**

Visy Paper  
AUSTRALIA


**SKS**

SKS  
SAUDI ARABIA

# Corporate Social Responsibility

CHINT

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**United Nations**  
Global Compact

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WHO WE ARE | THE SDGs | PARTICIPATION | TAKE ACTION | ENGAGE LOCALLY | EXPLORE OUR LIBRARY

**10,000 companies**  
**+ 4,000 non-businesses**

IN THIS SECTION

**Company Information**







Company  
**CHINT GLOBAL/  
Zhejiang Chint  
Electrics Co.**  
www.chint.com

















Type:  
Company  
Country:  
China  
Sector:  
Electronic &  
Electrical Equipment  
Ownership:  
Publicly Listed  
Engagement Tier:  
Participant  
Global Compact  
Status:  
Active  
Participant Since  
24 May 2021  
Letter of  
Commitment

Share Profile  
Twitter Facebook LinkedIn Google+

**Principles and Global Goals Addressed in their most recent CoP**

Next Communication on Progress  
(CoP) due on:  
2022-05-30





**Communication On Progress**

PUBLISHED ON	TITLE	LEVEL
2021-05-30	Communication on Progress	Learner

Note: Responsibility for the content of participants' public communication related to the Ten Principles of the UN Global Compact and their implementation lies with participants themselves and not with the UN Global Compact.



CHINT



IN ZHEJIANG

search

## Green energy solutions provider CHINT joins United Nations Global Compact

2021-06-21 15:10:18 source: CHINT



Zhejiang Chint Electrics Co. Ltd., a Zhejiang-based leading global provider of smart green energy solutions has recently joined the United Nations Global Compact (UNGC).

Launched In 2000, the UNGC is the largest corporate sustainability initiative in the world, with more than 9,500 companies and 3,000 non-business signatories based in over 160 countries, and more than 70 local networks. It is a call to companies everywhere to align their operations and strategies with ten universally accepted principles in the areas of human rights, labor, environment, and anti-corruption, and to take action in support of UN issues embodied in its sustainable development goals (SDGs).

## Joined the United Nations Global Compact (UNGC)

Appear on the official website of the United Nations, which endorse the CHINT brand and brings the following benefits:

- Exchange experience and learn from each other with consensus companies and organizations;
- Expand CHINT's resources for **overseas public welfare activities**;
- Obtain the most **authoritative sustainable development policy** information and connection;
- Establish **partnerships with United Nations agencies**, including the International Labour Organization, the office of the United Nations High Commissioner for human rights, the United Nations Environment Programme and the United Nations Development Programme.
- Improve the **ECO VADIS** corporate social responsibility score of **10 +**, so as to maximize business opportunities;



# Corporate Social Responsibility

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## Internal Charity Activities

- CHINT has always devoting to building a perfect CSR management system and improving social responsibility performance throughout all aspects of business operation.
- So far, it has donated more than 54 million dollars to social welfare such as precise poverty alleviation, school donation, epidemic relief, industry promotion and ecological protection.



Promote photovoltaic projects in the countryside to increase farmers' family income and protect environment.



Provide scholarship of 20 million dollars so far for educational institutions to help students in need and reward excellent students



Set up innovation award of more than 1 million dollars to encourage talents and promote development of the electric-power industry



Donated 1.5 million dollars of emergency supplies to the rescue operations in Henan flood



Join hands with China Society for Promotion of the Guangcai Program and actively participate in targeted poverty alleviation



# Corporate Social Responsibility

CHNT

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## Overseas Charity Activities



Donated over 1,000 boxes of food and necessary living materials to more than 1,000 families in need in 40 underdeveloped areas in Egypt in April 2021.



"CHINT, Let Love Shine" continues to bring clean energy experiences to schools, hospitals and welfare institution around the world



Join hands with the local public welfare organization foundation Fundación Frenó Al Ictus jointly launched the "Pearl against stroke" virtual low-carbon challenge to gather attention to the problem of stroke and improve people's awareness and vigilance.



Global relay to fight the pandemic together. Donated overseas more than 200k masks ,10k protective clothes and 50 respirators.



Helped Rebuild Homes in the Earthquake Areas of Turkey by providing urgently needed materials



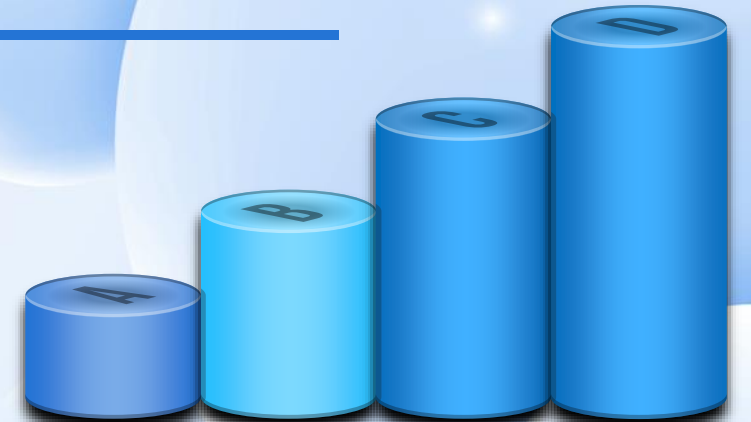
Launched an initiative to combat the devastation that caused by the storm Philomena: that is, donated 5 % of the amount of CHINT surge protections sold online to the tree recovery.



# B

## Products and Services

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The product series basically covers more than 2000 varieties of 150 series of 750kV and below voltage grade.

**2000+**  
varieties

**150**  
series



The most complete

## Low Voltage Products



The most complete low voltage product line: over 100 series and 10,000 specifications



The largest manufacturer of LV electrical products in China

# Component – PV Modules

CHNT

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The product series basically covers more than 2000 varieties of 150 series of 750kV and below voltage grade.



M12 Wafer+ "23% Eff Perc+"  
+HiDensity+12BB+Half Cut



M10 Wafer+ "23% Eff Perc+"  
+HiDensity+11BB+Half Cut



M6 Wafer+ "22.5% Eff  
Perc+" +9BB+Half Cut





# Component - PV Inverters

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Founded: **2009**



Investment: **30 Million USD**



Installation: **1.3GW**



Scope of Business :

**Research and development, manufacturing and sales in Electronic power supply, PV inverter, smart grid equipment, UPS, inverter and other related equipment and system.**

## Inverters for South America



17-30kw



50-70kw



17-30



17-30-2

## Single phase string inverters



1-3.6kw



3-6kw



3kw-ps

## Three phase string inverters



6-15KW.2



7-8kw



6~15KTL



6-15KW.1

## Inverters for North America



110kW



110kW II



110kW III



125kw



275kw-3



100-125kw  
1150x616x250mm



100-125kw

# Component – Metering

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## Net-worked Solutions



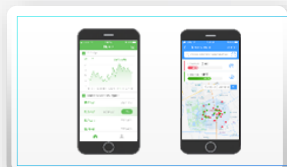
Cluster Metering Solution



Wi-Sun/G3 High Reliability AMI Solution



Cost-effective Handheld Wireless Solution



Mobile APP Solution



AMI System Solution

## HIGHER VALUE



## MORE COMPETITIVE

## Device Solution

Distributor  
Apartment

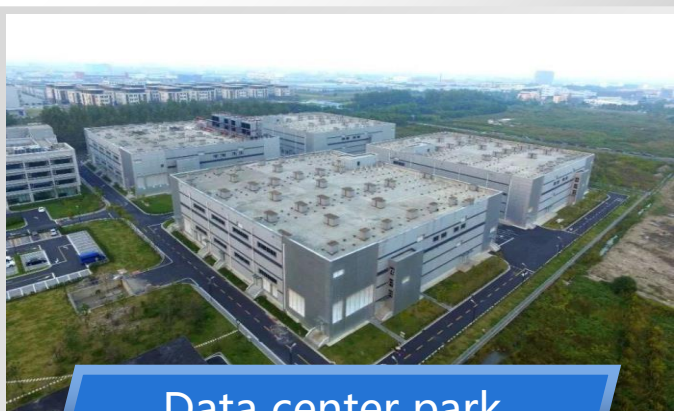
Factory  
Shopping Mall



# Industry solution-Segments

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Data center park



Water treatment plant



Oil & Gas



Commercial complex



Harbour & Shore

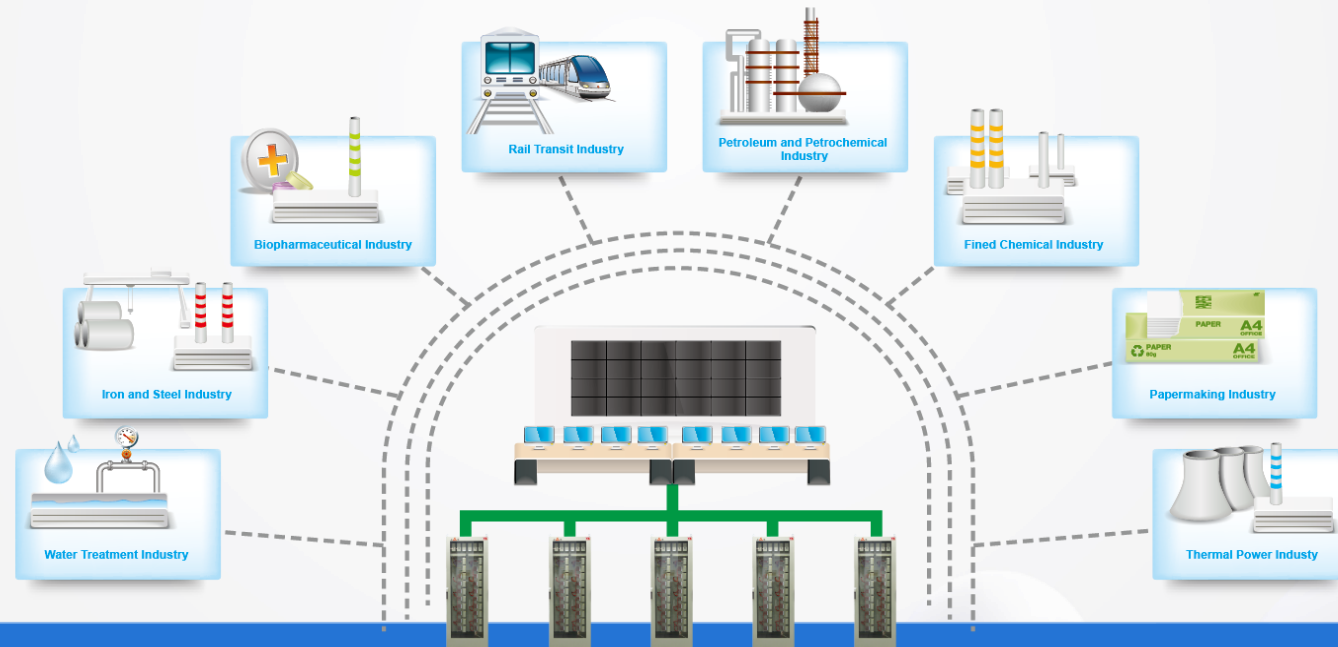


Power industry substation



## Automation Solution

We provide for users with automatic control set equipment and automated control systems of various scales, and offer optimization software and management and control integrated software, also all-round solutions in automatic control for industries such as power plants, power transmission and transformation, water supply, sewage treatment, environmental protection, municipal works, cement, petrochemical, papermaking, and iron and steel.



# Industrial Solution - Renewable Energy System

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## Photovoltaic System



Residential  
Roof-top



Commercial  
Roof-top



Solar-diesel  
Hybrid



Solar Charger  
Carport



Solar Power  
Plant



Storage System



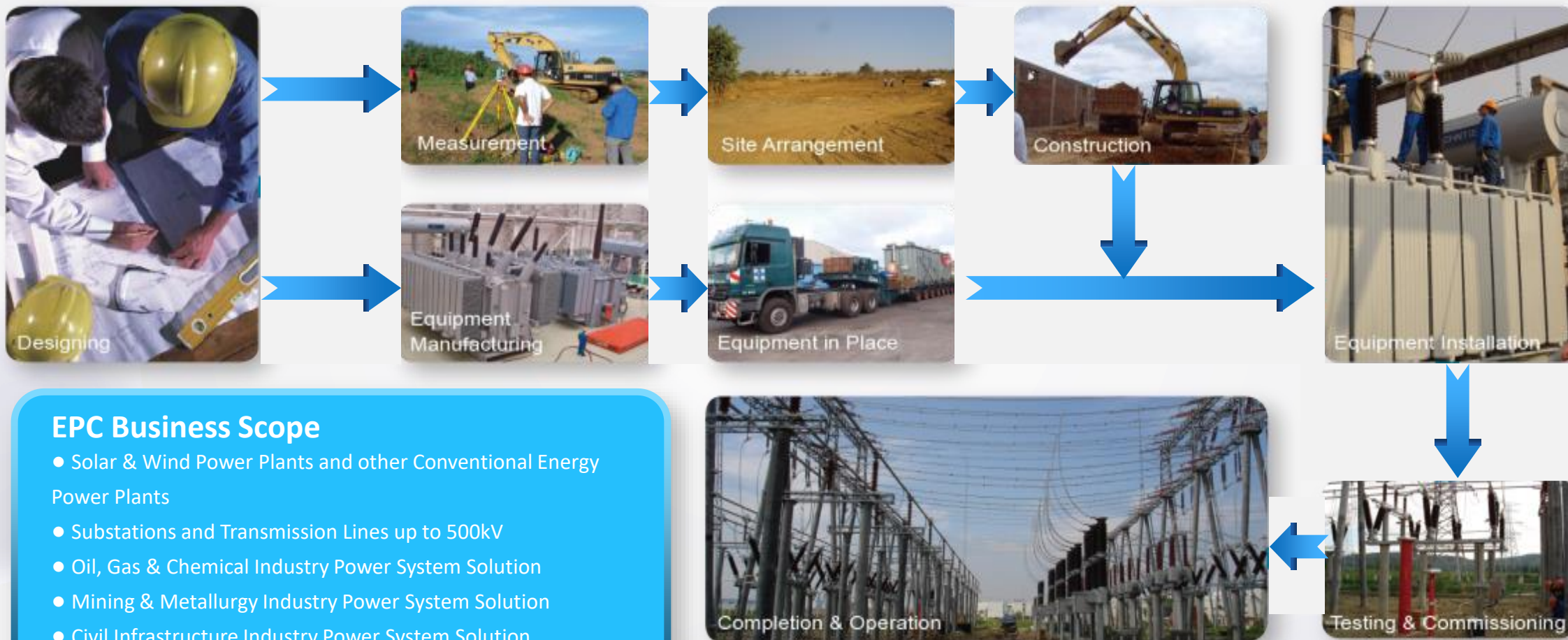
Solar Street  
Light



Solar Pumping  
System



## EPC Service - Turnkey Solution



# Power Operation & Maintenance Services

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After-sales extended warranty service for products and equipment  
Extended after-sale service of products and equipment

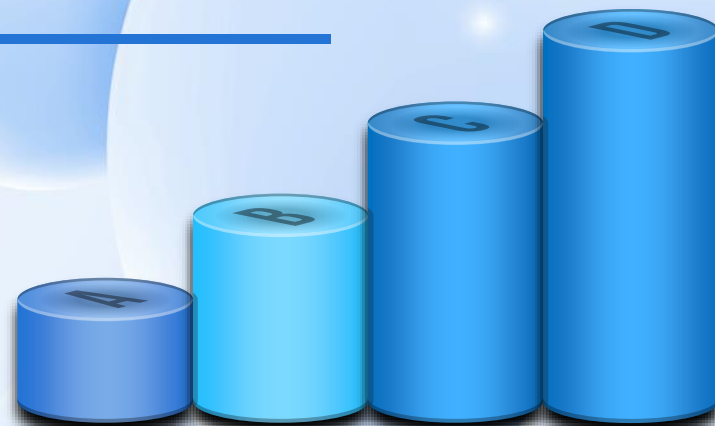
Engineering turnkey O&M extension services  
EPC operation & maintenance extension service

Products or equipment& spare parts on demand  
Products or equipment & spare parts service-on-demand



# Why Choose CHINT

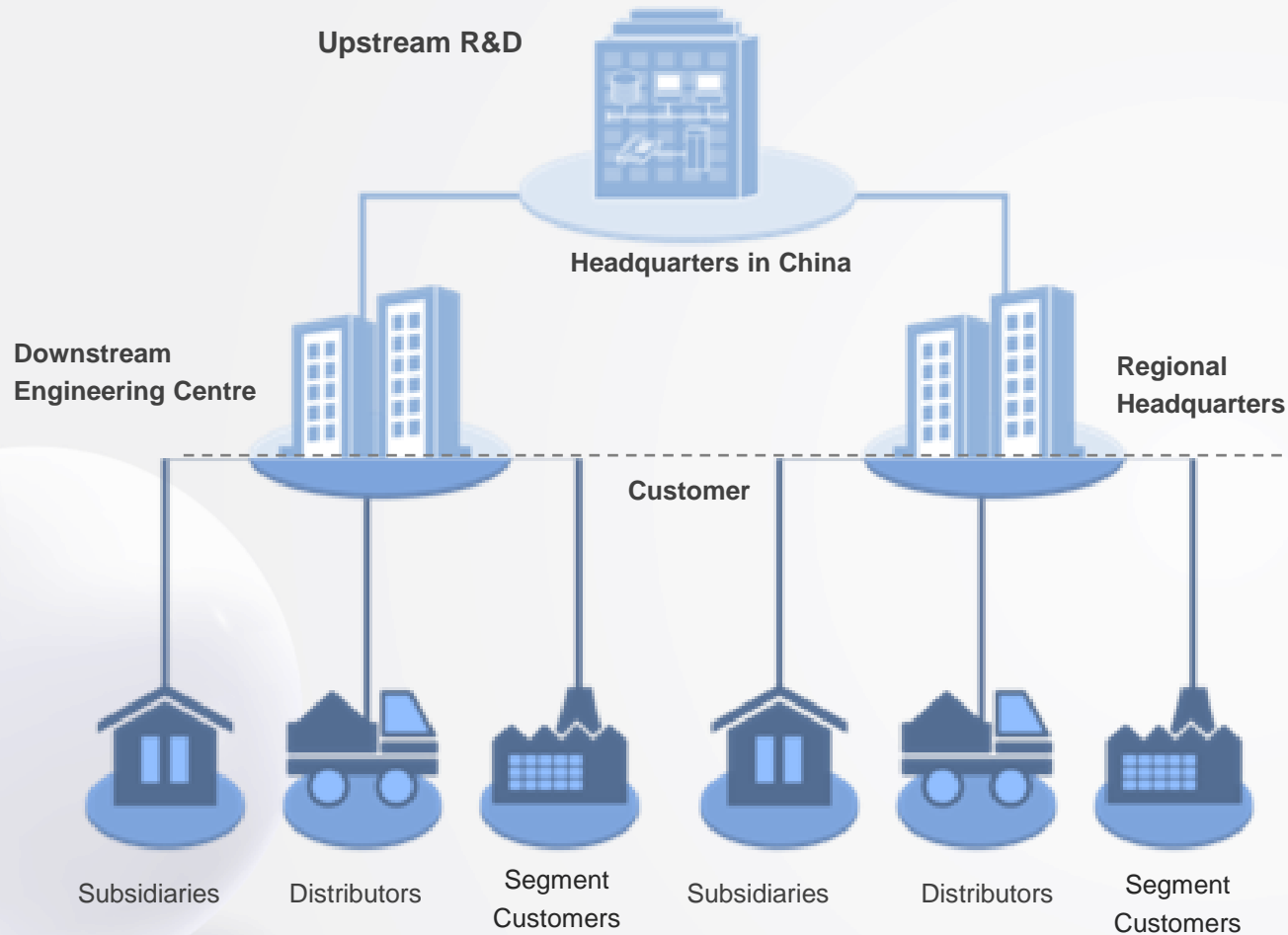
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# Upstream & Downstream R&D System

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## China to Global

Focus on product road Map & Developing new products.

## Local for Local → Local for Global

Focus on market positioning, demands analysis, raising requests for new products, localizing solutions.

Think Globally, work locally, achieve quick response by joint global coordination



# Technology Leads to Quality & Reliability

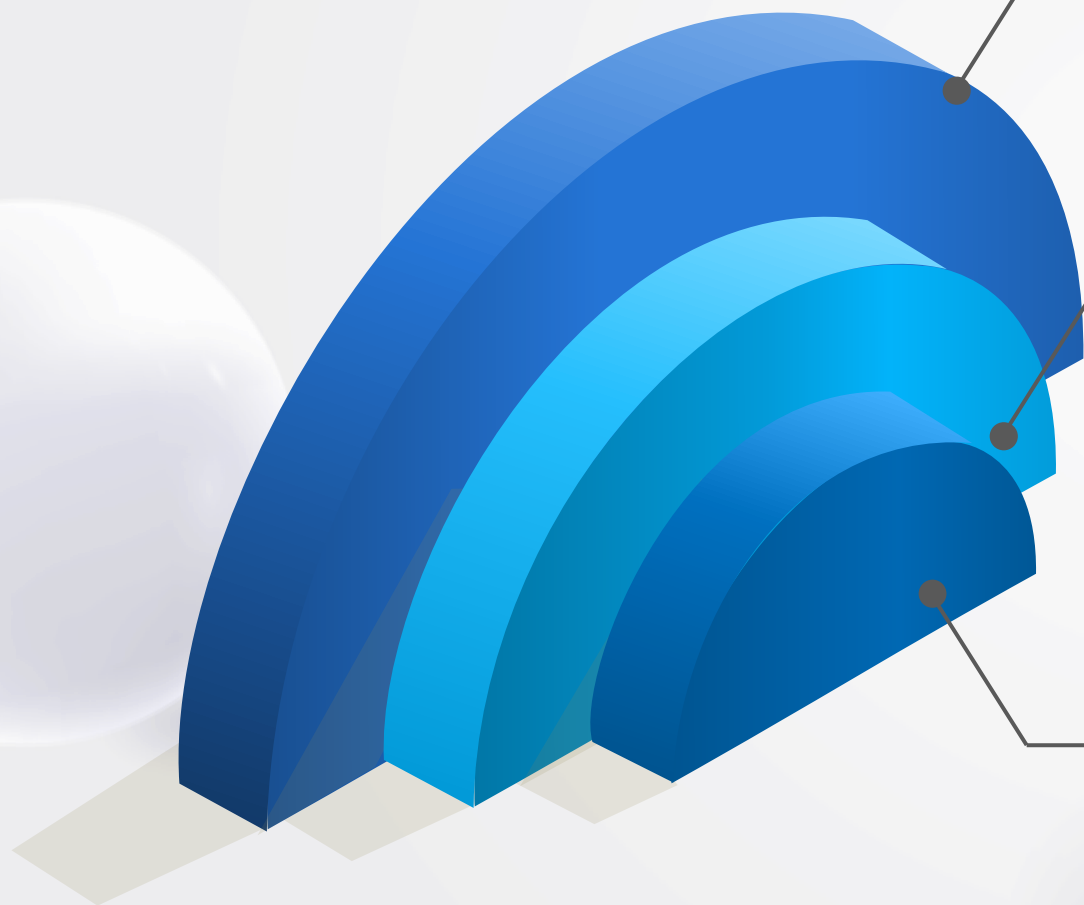
CHNT

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**4-12%** of annual sales revenue is devoted into new products development

R&D and technical teams accounted for **30%** of employees keep pace with technology and market trends

Up to 2020, we already has over **7000 patents**



# High Reliability & High Performance

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Standardized Management System

Systemized Quality Control Measures

Strict Testing Procedures

Certificates with ISO9001, ISO14001 and OHSAS18001...

World-class suppliers and partners



# Certificates

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Most products have achieved a variety of international certificates.

CHINT cooperates with top international laboratories for its product evaluation, such as KEMA, CESI, PCT(GOST) and TUV.

The quality policy of CHINT is to create a world famous brand and to lastingly provide the satisfied products and solutions for customers.

UL

VDE

SEMKO

KEMA



# More Reliable Tests

Type tests and SEC  
required tests

18  
items

Limit test of product  
application

19  
items

Reliability test

27  
items

The 26-day accelerated aging test (temperature: 80°C, humidity: 95%, frequency: 2 times/hour, total test time: 625 hours) was verified.

## Summary

The product has gone through a total of 3 batches, 64 items and More than 300 sets of verification, and verified to meet the requirements.

### Type test item

No	test item
1	Seq. I
2	Seq. II + III
3	Annex N for IT systems
4	Annex Q
5	Electromagnetic compatibility (EMC) Annex N

### Customer required test items

No	test item
1	dielectric properties
2	contact resistance
3	actuation time
4	action characteristics
5	Panel lock test
6	2 I <sub>n</sub> single pole
7	Cold state 1.3 I <sub>n</sub> tripping
8	dry heat test
9	low temperature test
10	damp heat test
11	Salt spray test
12	Product accelerated life test

### Application limit test items

No	Test items
1	dry heat test
2	low temperature test
3	damp heat test
4	alternating temperature humidity test
5	Salt spray test
6	dust test
7	Stricter dust test
8	vibration test
9	impulse test
10	drop test
11	stacking test
12	Magnetic interference test
13	Interphone interference test
14	Electromagnetic oven interference test
15	Motor interference test
16	Extreme temperature drift test
17	High temperature durability test for components
18	6kV surge test
19	Resistance to fusion welding test

### Customer required test items

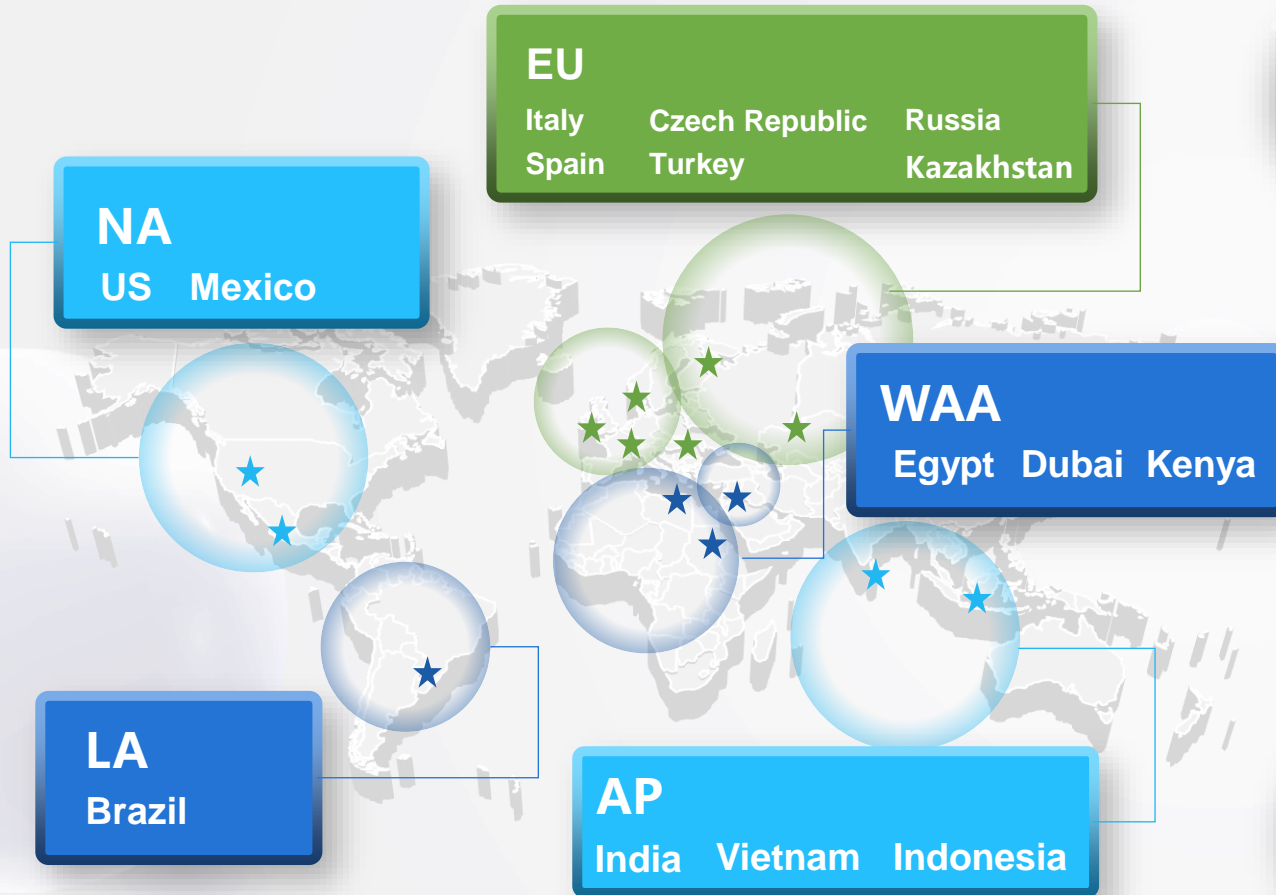
No	Test item
1	appearance
2	fit-up inspection
3	Mark durability
4	Indicator stick fastness
5	Bottom plate adhesion firmness
6	Contact parameters
7	contact resistance
8	Mechanical and electrical properties of terminals
9	<b>dielectric properties</b>
10	<b>Dielectric performance test of PRINTED circuit board</b>
12	<b>performance characteristic</b>
13	<b>Panel lock test</b>
14	Internal conductor strength test
15	Connector Plug and pull test
16	<b>microswitch vibration test</b>
17	Performance test of electrolytic capacitor
18	Assembly verification of positive direction limit size deviation of product parts
19	Assembly verification of negative direction limit size deviation of product parts
20	Mechanical operation and performance capability
21	<b>Maximum mechanical life number test</b>
22	<b>Limit Us operating voltage test</b>
23	<b>Reproducibility test of product characteristics</b>
24	<b>2 I<sub>n</sub> single pole</b>
25	<b>Cold state 1.3 I<sub>n</sub> tripping</b>
26	temperature rise
27	alignment joint-test

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## Automatic Stereo-Warehouse



Total Capacity : **6,272** pallets;



Computer Control;



Guarantee the fullest space utilization,  
handling mechanization and storage  
management modernization;

# Investment and Cooperation in International Projects

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Wenzhou Minshang Bank approved to operate, boosting industrial development by setting up investment and financing platform.



Established BOT Project with  
State-owned enterprises

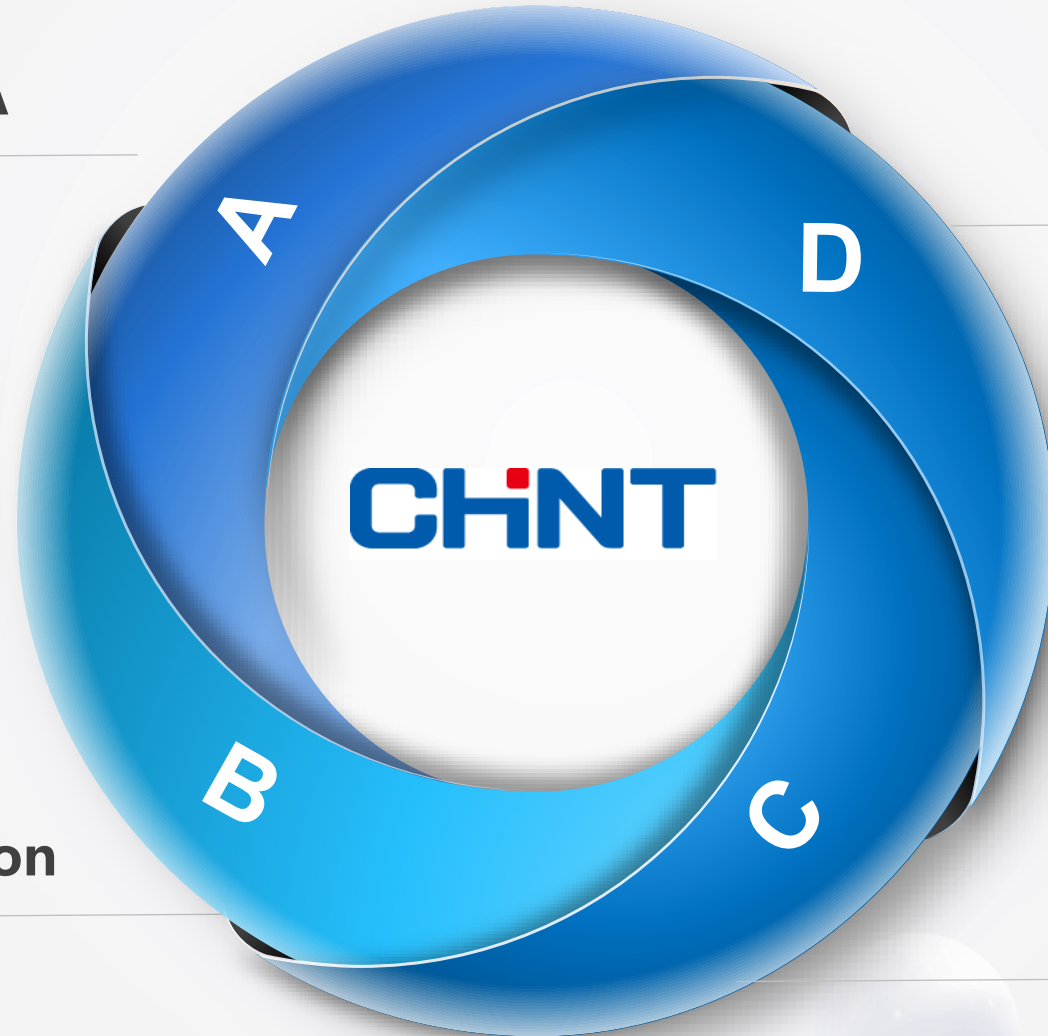


**M & A**

**Solid Partnership**

**Product Innovation**

**Distribution Network**

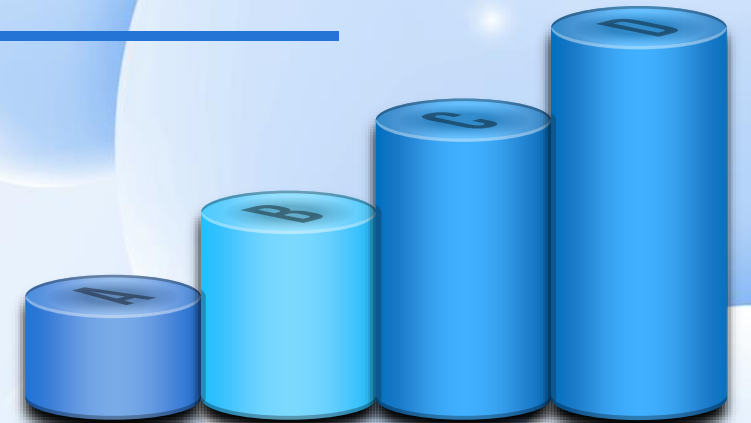






**Contact Us**

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