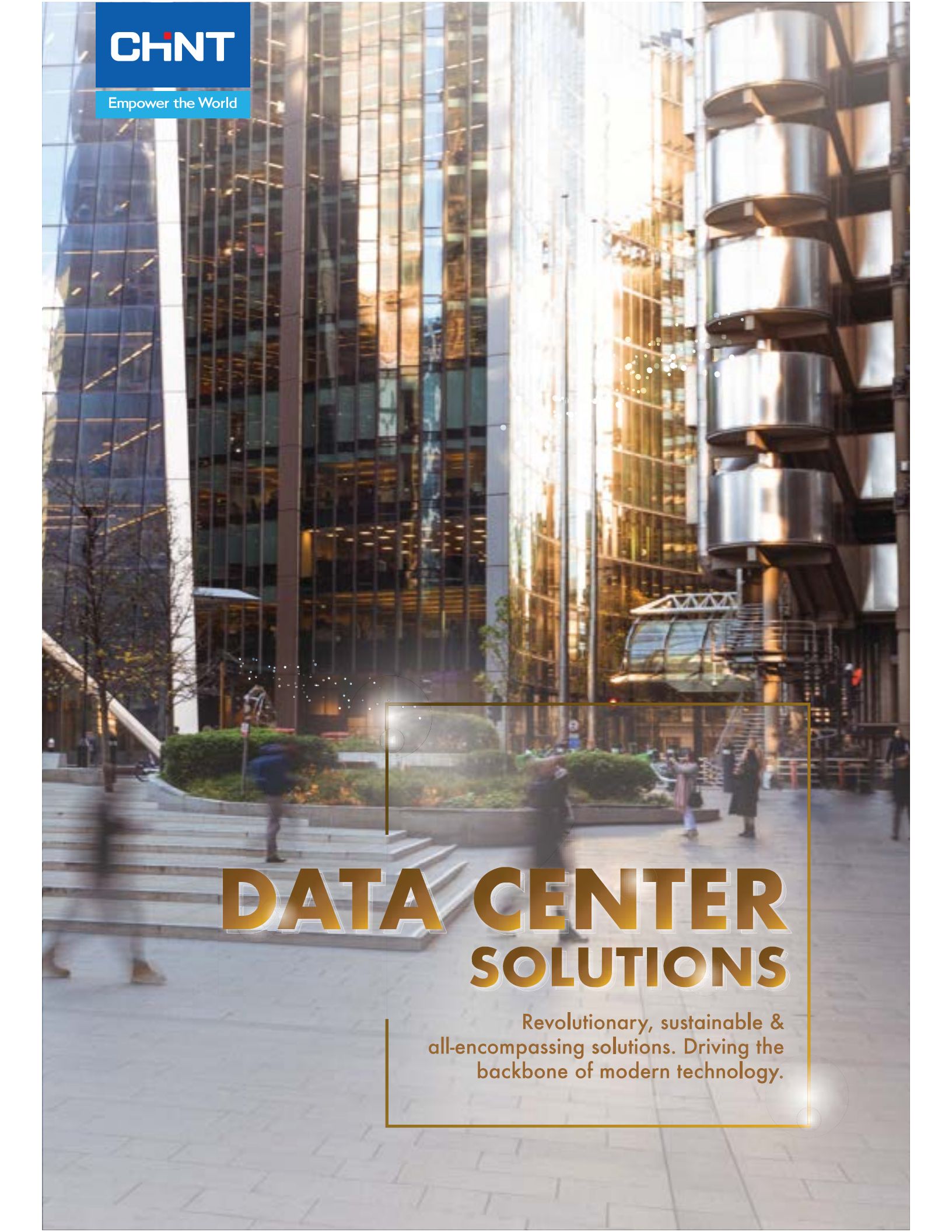


The CHNT logo is located in the top left corner. It consists of the letters "CHNT" in a white, bold, sans-serif font, with a small red square positioned above the letter "H". The logo is set against a blue rectangular background.

CHNT

Empower the World

The background of the entire page is a photograph of a modern city street. On the left, there is a tall glass skyscraper reflecting the sky. To the right, another building features a series of stacked, cylindrical, metallic-looking balconies or staircases. The street is paved with light-colored tiles, and several people are walking, some appearing blurred due to motion. In the foreground, there are some green bushes and a set of stairs. The overall lighting suggests it might be late afternoon or early morning, with a warm glow.

DATA CENTER SOLUTIONS

Revolutionary, sustainable &
all-encompassing solutions. Driving the
backbone of modern technology.

- 
- MV AIS/GIS Primary Switchgear & RMU
 - Step-Down Dry Transformers
 - Protection & Control System

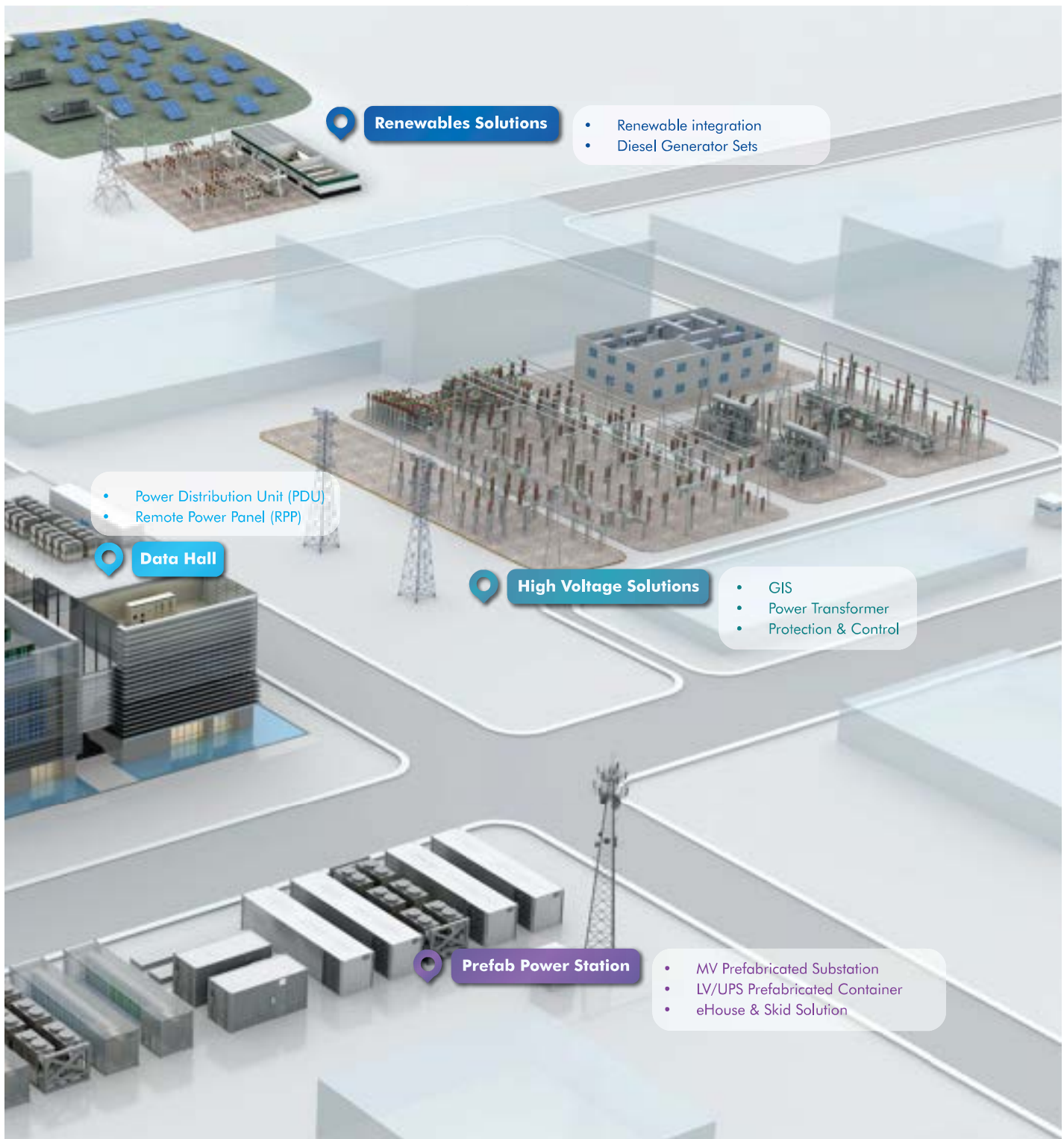
Medium Voltage Solutions

- Main LV Switchgear
- Sub Distribution LV Panel
- Relays & Controls
- Arc Flash Protection
- Mechanical & Lighting Distribution Board
- Metering Device
- Uninterruptible Power Supply (UPS)
- ATS/ATS Controller

Building Distribution

DRIVING CHANGE

Paving the Way for a Sustainable,
Energy-efficient Tomorrow



Data centers, varying in scale and categorized by the number of standard racks, are assessed by industry standards like T1 to T4. With the world swiftly transitioning into the digital age, driven by technologies such as AI, cloud computing, 5G, and IoT, there's an escalating need for increased data storage, computing power, and interaction speed. These centers, originally housing critical computer systems and equipment, have now evolved into innovation hubs. They play a pivotal role in maximizing business value. However, constructing and operating data centers comes with challenges in design, standards, security, and sustainability. CHINT brings a wealth of experience to help our partners build and tailor data centers that not only meet business goals, but also uphold environmental commitments — shaping a smarter, safer, and more sustainable future for the people who depend on them every day.

● HIGH VOLTAGE SOLUTIONS

GREEN TRANSFORMER



GREEN TRANSFORMER

These transformers are engineered to minimize energy loss and reduce environmental impact, aligning with sustainable practices and the green initiatives often pursued by modern data centers.

FR3

Biodegradable Natural Ester
Oil as insulating medium



Carbon Footprint
Certified



Type Tested

BLUE GIS HIGH VOLTAGE SWITCHGEAR

CB operates with a Spring-type mechanism, mechanical endurance classed at M2 (12,000 cycles)

Compact footprint, bay width of min 800mm



The design features a double sealing structure.

Gas systems' leakage rate is less than 0.1%.

The first major inspection is recommended after 25 years.

Capacitive current test class is C2, Breaking current of 800A exceeds IEC values of 400A.

BLUE GIS HIGH VOLTAGE SWITCHGEAR

Blue GIS employs gas for insulation and arc extinguishing, enabling more compact and lightweight designs than conventional air-insulated switchgear. It is commonly used in high voltage situations with limited space and where safety and reliability are paramount. The unique blue color is often used by specific manufacturers to differentiate their GIS products.

70%
of N₂ **SF₆**

70% of gas used is N₂, reducing the amount of SF₆ used in the switchgear

HIGHER
Breaking Current

Breaking current of 800A exceeds IEC's recommendation of 400A



Environmentally
Friendly

● MEDIUM VOLTAGE SOLUTIONS

OIL TRANSFORMER



Option available for Biodegradable Natural Ester Oil for high performance and lower lifecycle environmental impact.

High degree of water saturation performance vs operating temperature

Good fireproofing and high overload performance

OIL TRANSFORMER

The oil transformer utilizes oil for insulation and cooling to transfer electrical energy across varying voltage levels, ensuring secure and efficient power distribution. CHINT's oil transformers excel in its high security, fire resistance, mechanical strength, and short circuit resistance. It has good thermal stability for enduring reliability with their moisture resistance caters to rigorous demands in specialized settings. Given these robust attributes, they maintain a compact and lightweight design, allowing for easy transportation.



High degree of water saturation performance vs operating temperature



High overload performance



Environmentally friendly
/ Natural Ester Oil Option /

DRY TYPE TRANSFORMER



DRY TYPE TRANSFORMER

CHINT's dry-type transformer utilizes solid insulation, eliminating the need for liquid cooling. It ensures reliable, secure operation with features like low temperature rise and low noise. It is also cost-effective, capable of reducing network loss and working expenses. This transformer excels in high humidity environments and can be customized to specific requirements. Widely applied in commercial, industrial, and utility fields, and are commonly utilized in low and medium-voltage applications in electric equipment.



High thermal
stability, moisture
resistant



IEC 60076-11
Compliant



High efficiency, low
noise

● MEDIUM VOLTAGE SOLUTIONS

ENCLOSED SWITCHGEAR



METALCLAD AC ENCLOSED SWITCHGEAR | WITHDRAWABLE TYPE

Air Insulated Medium Voltage is a reliable solution for power distribution. It uses air as a medium for insulation, offering safety, flexibility and easy maintenance. Voltage levels supports up to 40.5kV to ensure efficient and safe operations. With new technology, digitalization is possible such as the use of condition monitoring sensors (temperature, PD etc), camera system to monitor position of breaker internally.



SMART
AIS MVSG



Extra Safe
Short Circuit Withstand
25-31.5kA / 4sec



Flexibility
Wide range of
panel configuration

RING MAIN UNIT



RING MAIN UNIT (RMU)

A Ring Main Unit (RMU) is a compact, enclosed junction point in electricity distribution networks, forming a redundancy-enhancing "ring" of multiple feeders. It houses switches, fuses, and protective devices for circuit isolation and control. CHINT's RMUs, built to international standards, excel in space efficiency, boasting the smallest footprint in the industry. It surpasses IEC requirements with a 60pC partial discharge (PD) level, lower than the standard 100pC. With the widest range of types tailored for various applications, CHINT provides versatile solutions for diverse electrical setups. Advanced switchgear technology guarantees precise circuit management, ensuring a steady power flow.



Embedded sensors and
instrumentation for real-time
condition monitoring

COMPACT
IN SIZE

Small footprint, maximizing
value



IEC standard and
type tested

● MEDIUM VOLTAGE SOLUTIONS

SF₆ C-GIS SWITCHGEAR

Separate busbar & circuit breaker gas compartment ensures highest availability of power

Top or bottom cable entry, allowing flexibility in installation

25kA up to 4 secs ensuring the highest safety of GIS switchgear

SF₆ C-GIS SWITCHGEAR

The Blue GIS redefines high voltage applications, excelling in confined spaces where safety and reliability are paramount. The unique blue color is often used by specific manufacturers to differentiate their GIS products. CHINT's GIS design incorporates separate compartments for busbars and circuit breaker gases, ensuring uninterrupted power availability even during maintenance or faults. It also has the capacity to withstand short-circuit currents of up to 25kA for 4 seconds. Its top or bottom cable entry allows for flexible installations, accommodating diverse spatial requirements and configurations.



Separate busbar & circuit breaker gas compartment ensures highest availability of power



Customizable to meet customer requirements



Gas-free on-site to ensure optimum quality & reliability assurance

SF₆-FREE SWITCHGEAR



Environmentally friendly gas, utilizing dry air

Adopting proven VCB technologies

Small footprint, smaller in size for easy replacement

SF₆-FREE SWITCHGEAR

SF₆-Free Switchgear is a sustainable, high-performance solution for medium-voltage power systems, designed to eliminate the use of sulfur hexafluoride — a potent greenhouse gas. By leveraging eco-friendly insulation technologies, it ensures reliable switching, compact design, and enhanced safety without compromising environmental responsibility. Ideal for data centers and industrial applications, this switchgear supports global decarbonization goals while delivering robust protection and operational efficiency.

GWP=0

Global Warming
Potential (GWP) of Zero



Dry Air medium
widely available



Compact
footprint

● PREFAB CONTAINERIZED SOLUTIONS

PREFAB CONTAINERIZED SOLUTIONS



PREFAB CONTAINERIZED SOLUTIONS

Our prefabricated plug-and-play substations are engineered to accommodate medium and low voltage switchgear, transformers, vital power equipment, and automation systems. These containerized solutions integrate comprehensive building systems such as air conditioning, fire protection, lighting, and security & surveillance systems, providing a controlled environment for electrical equipment.

These prefab substations offer complete customization based on specific requirements and can be swiftly and easily installed on-site.

PREFAB CONTAINERIZED SOLUTIONS

Medium Voltage Switchgear

- GIS RMU Switchgears
Up to 40kV
- Type Tested IEC 62271-200

Container

- IP 54, 3 hrs fire rated
- Separate compartments for equipment
- 20ft, 6m (L) x 2.4m (W) x 2.8m (H)
- Type Tested IEC 62271-202



Transformer

- Oil Transformers
- FR3 Biodegradable Oil
- Type Tested IEC 60076

Low-voltage Switchgear

- 400V up to 7500A, Form 4B
- Type Tested IEC 61439-1/2

 **30% - 50%**
Reduction

Electrical
Room Size

SINGLE
Brand

Complete equipment
from CHINT



IAC Tested
IEC 62271-202

 **60% - 70%**
Reduction

Reduce
Wastage

● PREFAB CONTAINERIZED SOLUTIONS

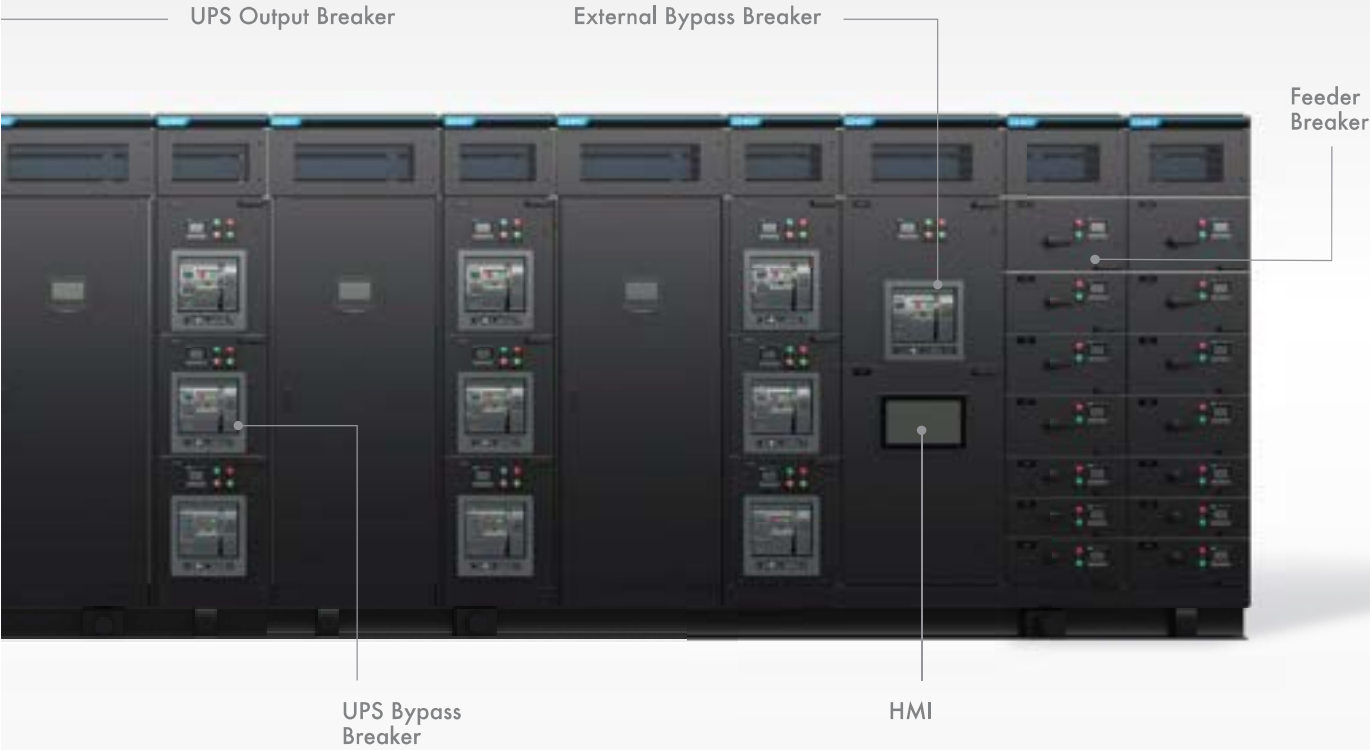
INTEGRATED PREFABRICATED POWER MODULE



NIPOWER DC7000 FUSION POWER MODULE

In a world where power density is rising rapidly while allowable footprints are getting smaller for cost competitiveness. CHINT's NIPower DC7000 Fusion Power Module is an integrated prefabricated power module designed from the ground up specifically to address this challenge. Utilizing CHINT's extensive experience, manufacturing capabilities and technical expertise, Fusion Power Module is manufactured and integrated in our factories

PREFAB CONTAINERIZED SOLUTIONS ●



ALL IN 1 Integrated Solution
Modular & Scalable

75%
Faster Deployment
Faster deployment by 75%

40%
Space Saving
Save 40% space

97%
Efficiency
Up to 97% efficiency

● LOW-VOLTAGE SOLUTIONS

LOW-VOLTAGE SWITCHGEAR



LOW-VOLTAGE SWITCHGEAR

CHINT modular multifunctional withdrawable LV switchgear provides high reliability and best in class technical specifications for different segments like utilities, data centers, renewables, industrial, mining and etc. Highly flexible withdrawable system allows for high uptime of power while performing regular maintenance, without compromising safety and reliability. Our switchgear is rigorously type-tested to withstand up to 100kA, meeting even the most stringent requirements. Its smart operational features enhance efficiency and control. Additionally, the equipment is designed to operate effectively even in environments with temperatures of up to 50° degrees.



Certification for full life-cycle product carbon footprint of low-voltage electrical components and smart electrical meters. Type Tested to IEC 61439.



Condition monitoring of LV panel via smart panel to monitor parameters & health of LV panel



IEC 61439 Type Tested LV Switchgear. Projects deployed in high temperature countries

POWER DISTRIBUTION UNIT



POWER DISTRIBUTION UNIT

Power Distribution Unit (PDU) in a data center is a critical component that distributes electrical power to servers, storage devices, and networking equipment. It ensures reliable, efficient power delivery while managing redundancy and power monitoring. CHINT's PDU complies to the most stringent of IEC requirements, in the smallest footprint possible for space saving in data halls. Intelligent branch sensors allows for detailed monitoring of power consumption of servers.



Smallest Footprint
for 144 outgoing



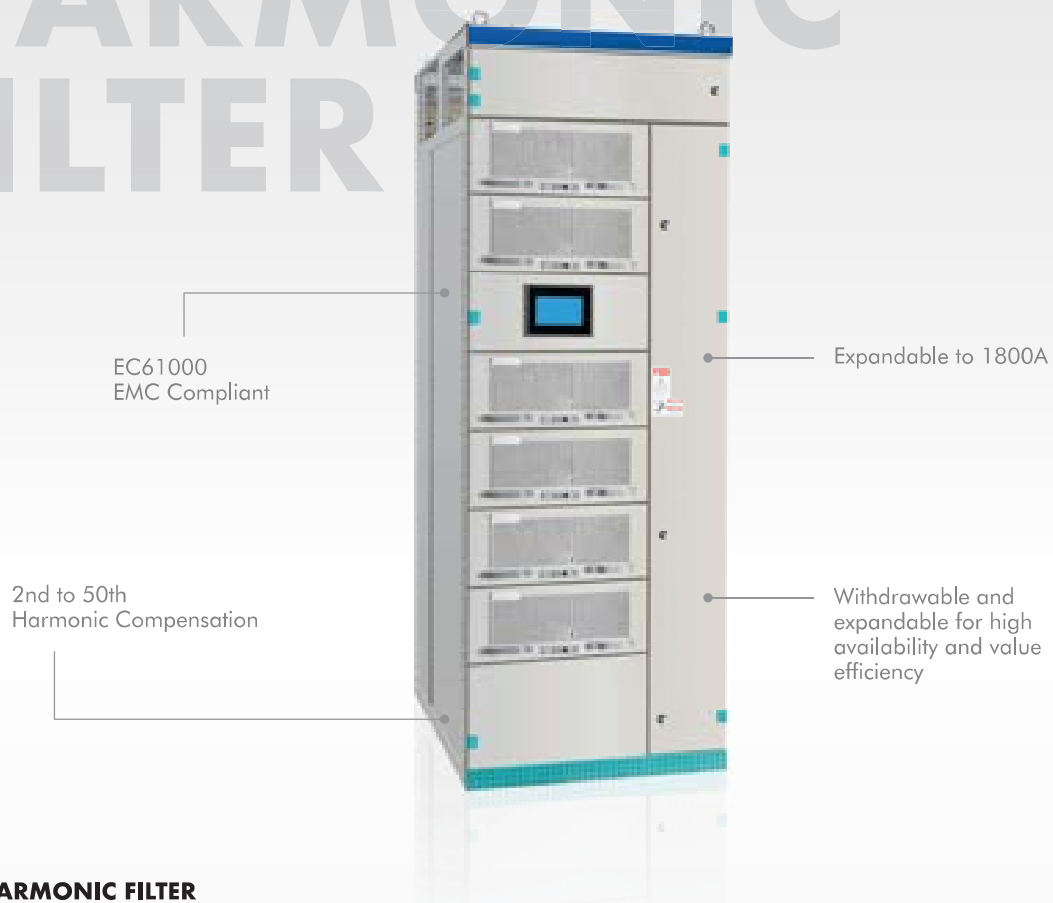
IEC 61439
Seismic Type Tested to
withstand earthquake
zones



Hot Swappable
system for high
availability of power

● LOW-VOLTAGE SOLUTIONS

ACTIVE HARMONIC FILTER



ACTIVE HARMONIC FILTER

An advanced electrical device designed to mitigate harmonic distortion in power systems. It actively monitors the electrical waveform and dynamically injects counteracting currents to neutralize harmonics, ensuring a cleaner and more stable power supply. This technology is crucial in environments where non-linear loads (such as variable speed drives and power electronics) generate harmonics, which can lead to power quality issues and equipment malfunctions. CHINT's Active Harmonic Filter helps maintain a more reliable and efficient electrical system by reducing harmonics and improving overall power quality.



Withdrawable for
high availability



Pay-as-you-grow

 **97%**
Efficiency

High efficiency,
more than 97%

AUTOMATIC TRANSFER SWITCH



CLOSED TRANSITION AUTOMATIC TRANSFER SWITCH

Specialized transfer switch designed for critical power applications. It facilitates a seamless transfer of electrical loads between the primary and backup power sources without any momentary interruption before disconnecting from the primary source. This feature is particularly vital for sensitive equipment or systems that are unable to tolerate power loss during the transition. The closed transition capability of CHINT's ATS enhances stability and reliability in situations where uninterrupted power is absolutely essential, such as in data centers, hospitals, and other mission-critical facilities.



ASTA Type Tested to
IEC 61439.
Fully comply with
international standards



IEC 60068
Seismic Type Tested to
withstand earthquake
zones



Hot Swappable
system for high
availability of power

24/7

Branch circuit monitoring
ensures loads are monitored
24/7, allow high efficiency
in load management

● LOW-VOLTAGE SOLUTIONS

AIR CIRCUIT BREAKER



AIR CIRCUIT BREAKER

An electrical protection device designed to safeguard circuits from overcurrent and short-circuit faults. It operates by automatically disconnecting the circuit in the event of an overload or a short circuit, thereby preventing damage to electrical components and ensuring safety. CHINT's Air Circuit Breakers are known for their reliability, efficiency, and advanced features, making them a popular choice in various industrial and commercial applications. They are an integral part of electrical distribution systems, offering critical protection for both equipment and personnel.

LOW-VOLTAGE SOLUTIONS



H-TYPE

- All functions of M-Type
- Communication function
- Event Log
- Contact Wear
- Breaker Health

Optional:

- Leakage protection function
- Advanced protection functions (Undervoltage, Overvoltage, Unbalance, Power reverse, Wrong sequence, Over-demand etc.)
- Energy meter (Current, voltage, power)
- Load monitoring, Harmonics analysis
- Zone selectivity interlock (ZSI)
- ERMS



S-TYPE

- All functions of H-Type
- Touch screen colored display
- Fault indicating LED colors
- NFC, Bluetooth communication
- Breaker temperature monitoring
- Waveform



Extra Safety

Energy Reduction Maintenance Setting (ERMS) allows for reduce arc energy for operators during maintenance of LV System. By enabling the maintenance mode, the fault clearing time of the circuit breaker is reduced.

7500A

Market-leading,
highest ampere rating

SUPERIOR PARAMETER, INTELLIGENT PROTECTION

$I_{cu}=I_{cs}$ up to 150kA
 I_{cw} up to 135kA

LSIG

Protection

All in one LSIG
protection for
maximum safety



Various frame size for
all design and space
requirements

● LOW-VOLTAGE SOLUTIONS

SMART CIRCUIT BREAKERS



Reliable Power Supply

- PSU-3 DIN-rail power module to supply stable 12V DC for gateways/displays
- Wide AC input, dual outputs, high efficiency, and built-in short-circuit protection for safe, reliable operation

Real-time Monitoring & Control

- Seamlessly connects NB2 devices to cloud via Wi-Fi, 4G or RS485
- Remote capabilities:
 - :: Track voltage, current, power with precision
 - :: Open/close circuits from anywhere
 - :: Full monitoring & control via apps*

NB2 Smart Circuit Breakers

NB2 Series Smart Breaker is a next-generation solution designed for modern electrical systems, combining the functionality of MCB and RCBO with intelligent monitoring and control. Engineered for enhanced safety, energy efficiency, and real-time diagnostics, the NB2 series supports remote operation, fault detection, and data logging through IoT connectivity. Its compact design and modular architecture make it ideal for application across various segments, including supermarkets, street lamp posts, commercial buildings, campuses, and public housing.

LOW-VOLTAGE SOLUTIONS



Built-In Energy Monitoring

- Track consumption patterns & identify inefficiencies

~75% reduction in panel space, and reduce in installation time

Advanced Protection

- Overload, short-circuit, earth leakage and voltage fluctuation protection
- Leakage detection, leakage current monitoring & self-diagnostic checks
- DIN rail mount, suitable for both industrial and commercial setups

24/7

24/7 Monitoring



Remote, Real-time
Monitoring & Control



Leakage detection,
leakage current
monitoring &
self-diagnostic checks



Compliant with IEC/EN
60898-1 & 61009-1

● MANAGEMENT & MONITORING SYSTEM SOLUTIONS

EMPOWER X ENERGY MANAGEMENT SYSTEM



EMPOWER X ENERGY MANAGEMENT SYSTEM

EmpowerX is an AI-powered Energy Management System designed to transform how businesses monitor, optimize, and manage energy. By integrating IoT and advanced analytics, EmpowerX delivers real-time insights, automates energy efficiency, and supports sustainability goals. It helps reduce energy consumption by up to 20%, lowers carbon emissions, and extends asset life through predictive maintenance. With seamless integration into existing BMS and SCADA systems, EmpowerX enables smarter decision-making and operational excellence across commercial buildings, campuses, and industrial facilities.



Reduce energy
consumption by up
to 20%*



AI-driven optimization,
real-time insights



Predictive maintenance to
prevent failures and
minimize downtime



Seamless integration
with existing BMS
& SCADA

*Savings are based on selected project data under defined conditions.
Actual results may vary depending on site-specific factors and the specific solution implemented.

TEMPERATURE MONITORING SYSTEM



ONLINE CONTINUOUS TEMPERATURE MONITORING SYSTEM

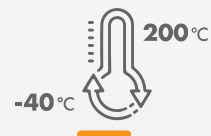
Electrical fires have devastating consequences and causes damage to property and lost of human life. For critical facilities, high availability of power is required and such electrical fires can cause extended down time. One parameter that gives early warning of these events is temperature. CHINT's wireless temperature monitoring solutions allows condition monitoring of electrical systems 24/7 through the detection of abnormal temperature rise in electrical systems. Operators can then react to these warnings in advance and prevent any incidents from happening.

24/7

24/7 Monitoring
sampling per second



Wireless sensors
Fast implementation

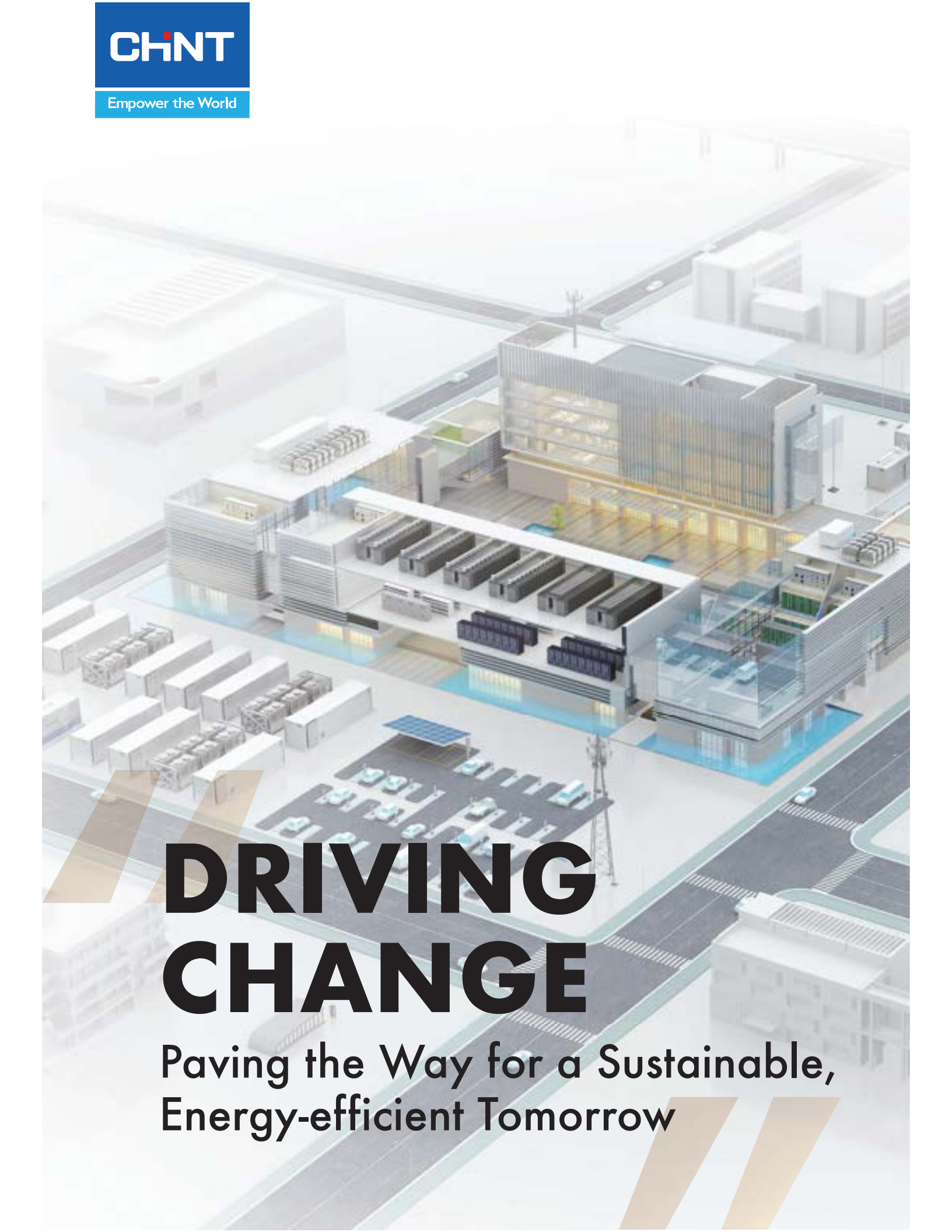


Wide temperature
range from
-40°C to 200°C



CHNT

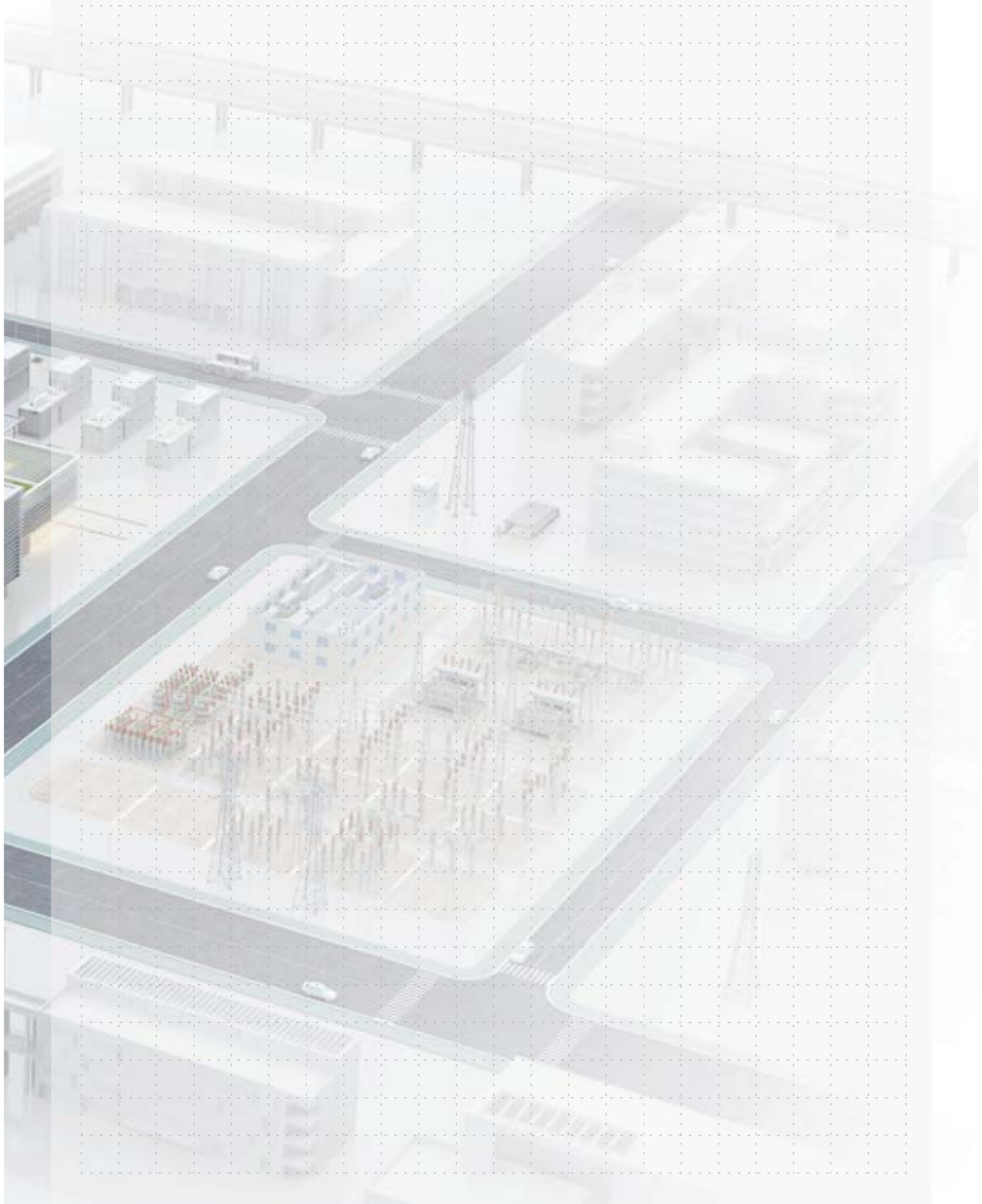
Empower the World



DRIVING CHANGE

Paving the Way for a Sustainable,
Energy-efficient Tomorrow

NOTES



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