

Corporate overview

We make what matters work.*



Powering Business Worldwide

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01



ABOUT EATON



Powering Business Worldwide

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Headquarters and key locations



- Chairman & CEO – Craig Arnold
- Two-thirds of our Board of Directors are women or U.S. minorities

Electrical Sector:
2023 Sales \$16.2 B

Industrial Sector:
2023 Sales \$7 B

Total sales:
\$23.2 Billion USD

Operating Profit:
\$5.1 Billion USD

A legacy of innovation

We make stronger together work.*

US-focused power distribution and control business

Power quality and datacenter market

Global geographic expansion

Built scale

Extended capabilities



1979

1994

2004

2008

2013

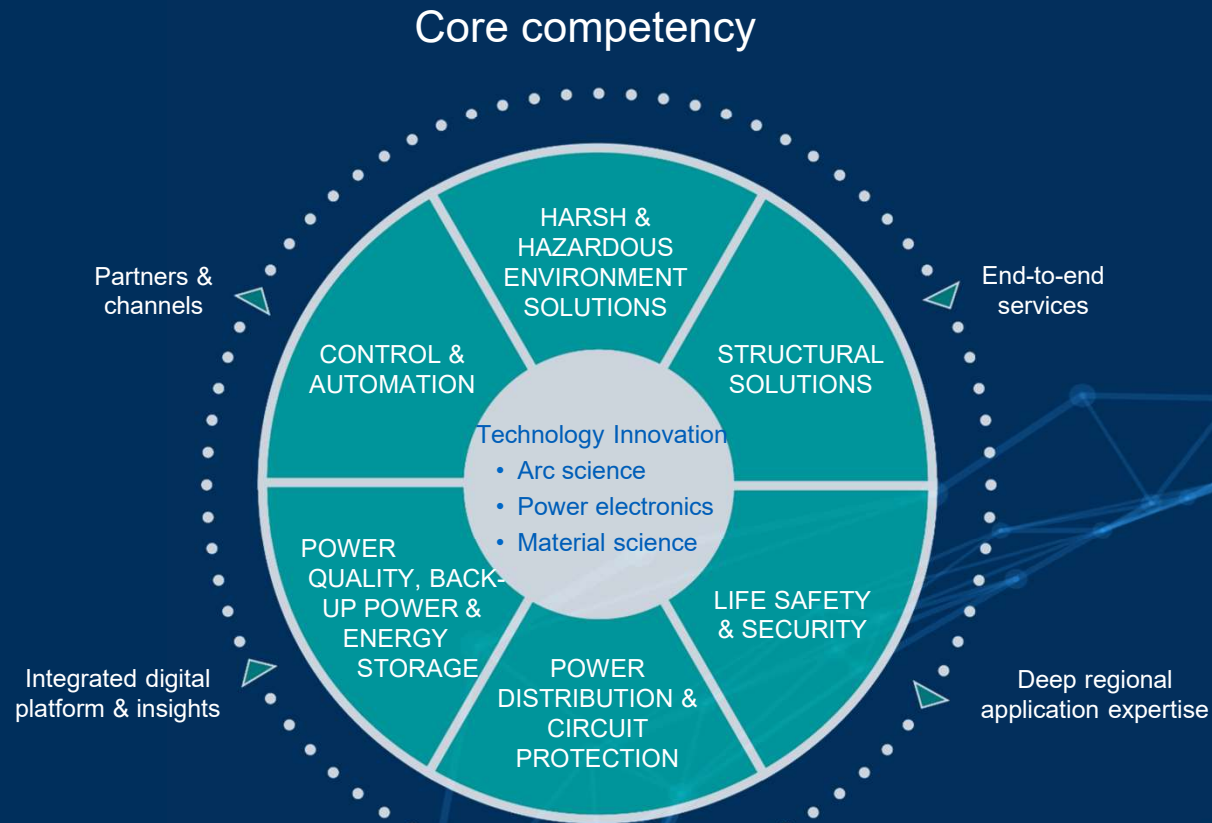
2019 - 2023

We have built our capabilities and expanded through key acquisitions and partnerships...



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Capabilities essential to the effective delivery of electric power and current energy needs.



Key Segments



Business Portfolio

Power Distribution Systems & Services

- MV & LV Assemblies
- VCB & OHS
- Low-voltage Busway
- Power Distribution Reliability
- EV Charger
- Power System Analysis, Integration and Service
- Dry-type Transformer

Circuit Protection & Controls

- Power Distribution Components
- Industrial Control
- Bussmann Fuses

Critical Power Solutions

- Hotswap Modular
- Scalable Large UPS
- Monolithic
- Industrial
- MDC

Distributed Power Quality

- Online 1-20 kVA UPS
- Offline 1 Ph UPS
- Battery
- MDC, Rack, PDU

Electronics (ELX)

- Overcurrent Protection
- Overvoltage Protection
- Power Magnetics
- Supercapacitor



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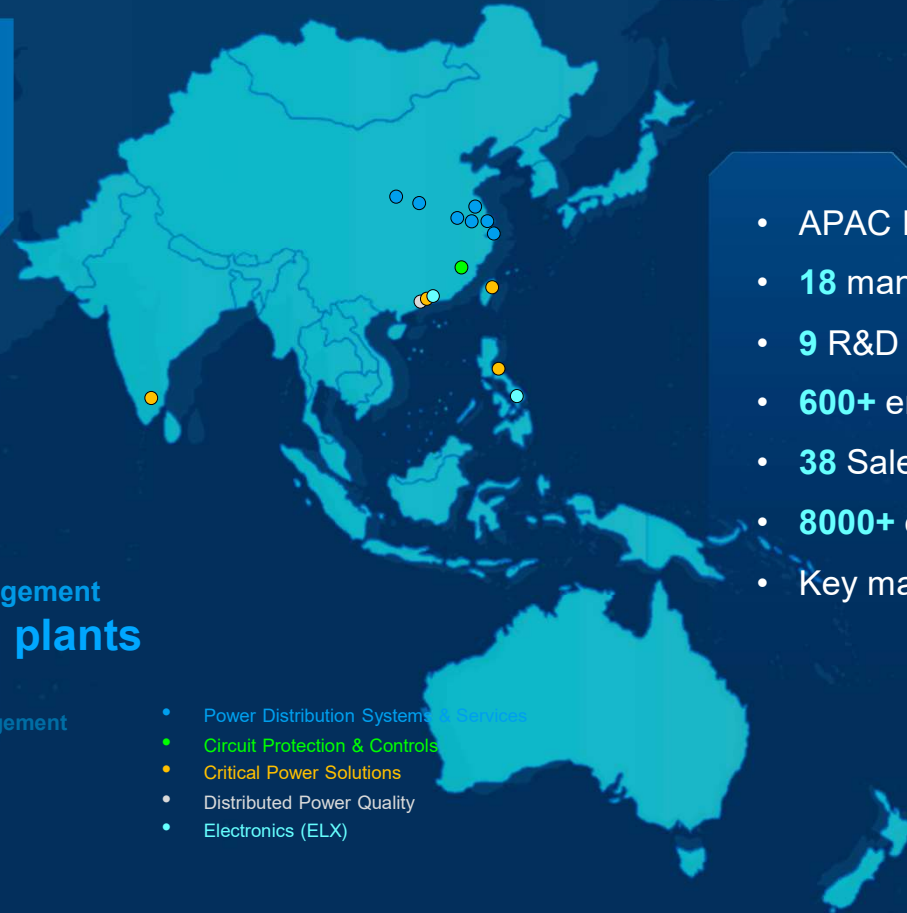
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Intelligent Manufacturing

Information tracking
digitalized management
augmented reality
collaborated reality
automated management

18 intelligent manufacturing plants

electric instructions
flexible production
visualized management
material auto-delivery
digitalized management

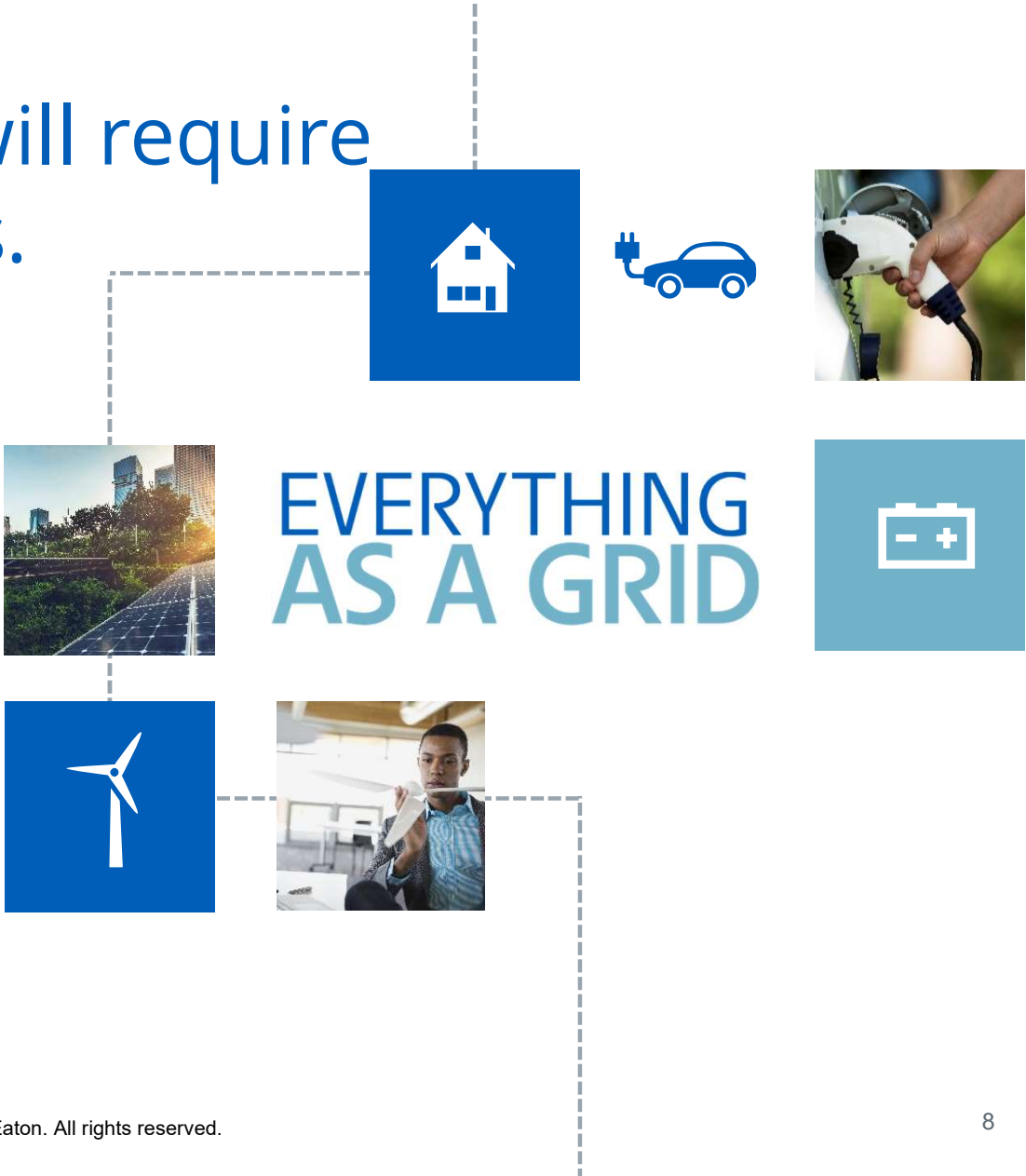


- Power Distribution Systems & Services
- Circuit Protection & Controls
- Critical Power Solutions
- Distributed Power Quality
- Electronics (ELX)

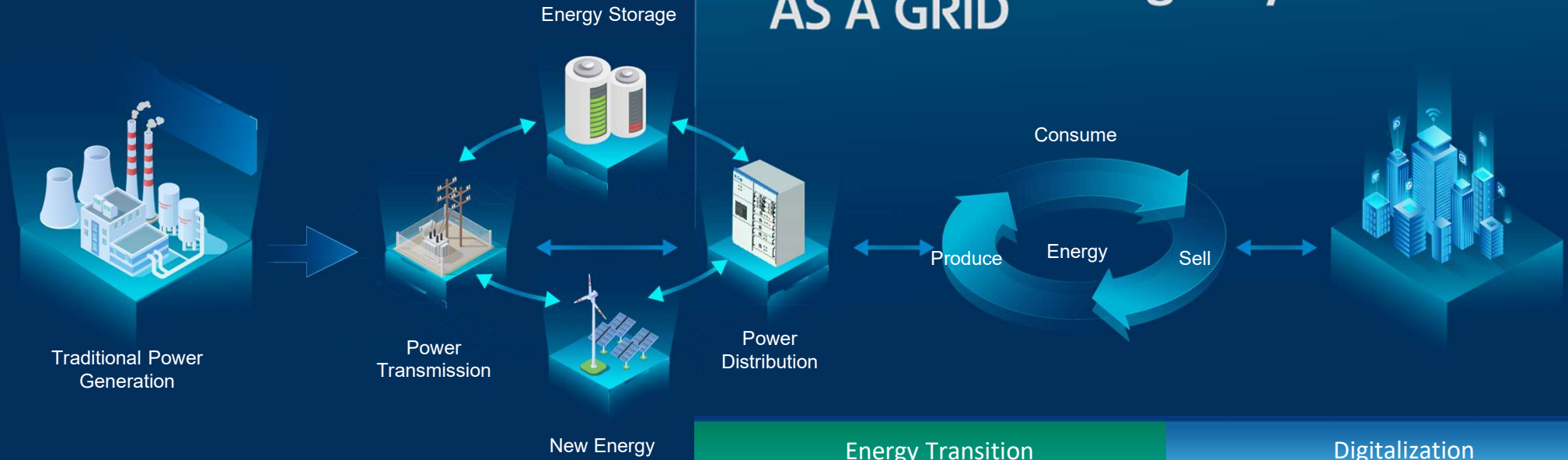
- APAC HQ: Shanghai
- **18** manufacturing plants (**4** JV plants included)
- **9** R&D centers
- **600+** engineers, **300+** patents
- **38** Sales offices
- **8000+** employees
- Key market: China, India, East Asia, ANZ

The energy transition will require flexible energy systems.

EVERYTHING AS A GRID is our approach to reinventing the way power is distributed, stored and consumed. With advanced technologies and digital intelligence, we are unlocking a low-carbon energy future for all.



Digital Platform



Eaton's primary areas of focus and increased industry investment

Powered by: **Brightlayer**



Power Distribution Systems & Services Division

EATON

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Power Distribution System & Services Business Overview

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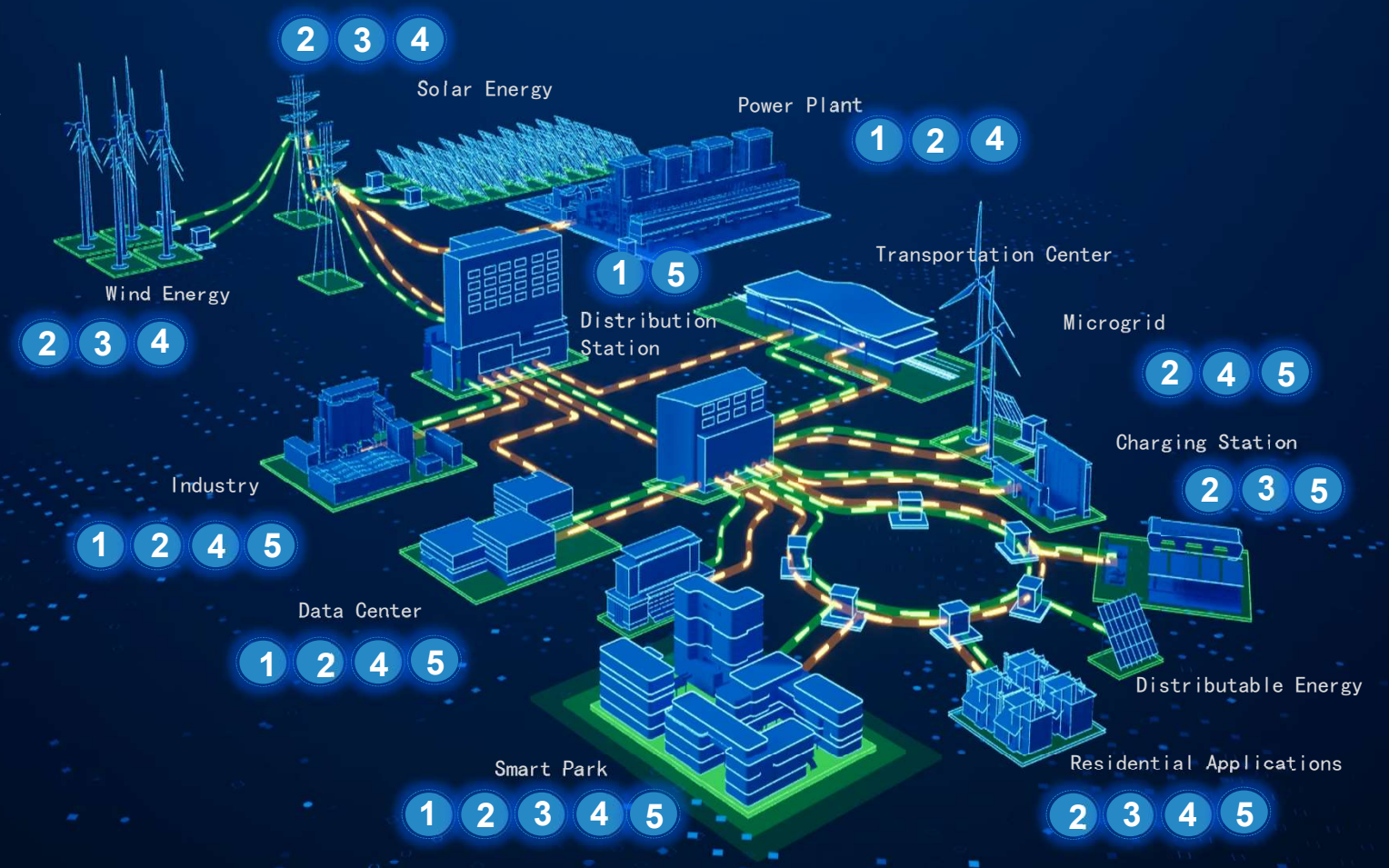
1 MV Assemblies
- 

2 LV Assemblies
- 

3 Ring Main Unit
- 

4 Busway
- 

5 Transformer



PDSS Plants

Cooper Edison (PDS) Electronic Technologies.,Co. Ltd.



SF6 RMU



Green gas RMU



Overhead

● WOFE

▲ Joint Venture

Eaton Busway (Jiangsu) Co.,Ltd.

Busway



Cooper (Ningbo) Electric Co., Ltd.



MVA



LVA



VCB

Eaton Transformer (Jiangsu) Co., Ltd

Transformer



Eaton Electrical Equipment Co., Ltd.



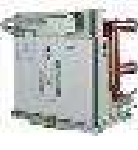
MVA



LVA



Solid RMU



VCB

Cooper Electronic Technologies (Shanghai) Co., Ltd.



LIPE



Overhead



Control

RTEFE



LIPE



Cooper (Shanghai) Power Capacitor Co., Ltd.

Capacitor



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Medium Voltage Assemblies



ET1



ET2



Power Xpert® UX



iET1



Power Xpert® XGIS



Power Xpert® GX

- High reliable metal-enclosed AIS with Vacuum interruption
- Long life, maintenance free epoxy encapsulated VCB
- Up to 12kV, 5000A, 50kA and 24kV 4000A 31.5kA for normal solution
- Comply GB/DL/IEC standard

- High reliable metal-enclosed AIS with Vacuum interruption
- Fitted epoxy encapsulated VCB and fully insulated primary circuit conductor
- Up to 40.5kV, 3150A, 31.5kA
- Comply GB/DL/IEC standard

- 12/17.5/24/36kV high performance fully IEC type-tested product
- Up to 50kA-1s IAC test
- Globally unified design platform and manufacturing standards to ensure quality and service
- Comprehensive marine certification

- Flexible modularized smart function and option
- State display, parameter monitoring and fault warning
- Visual operation raises security
- Provide suggestions for maintenance to improve efficiency

- Single tank design drastically reduces the number of welds, and volume of SF6
- Up to 38kV 2500A 31.5KA
- Comply IEC 62271 and UL
- Virtually maintenance-free VCB and disconnect switch
- SSIS main bus have a modular design for ease of installation

- Dry air or nitrogen as insulating medium, safety and environmental with SF6 free
- The high-voltage parts completely sealed from the environment
- Vacuum circuit breaker and disconnecter maintenance free
- Up to 12kV 1250A 31.5KA

Ring Main Unit



RVAC SF6 RMU

- SF6 insulated technology
- Applicable for 12kV and 24kV system
- GB/IEC certificate
- Utility bidding chance, End user projects and oversea EPC projects



XIRIA Plus Solid RMU

- Solid epoxy insulated technology
- 12 kV GB/IEC certificate
- Utility bidding chance, Infrastructure projects and end user projects



RVACH Hybrid RMU

- SF6 hybrid insulated technology
- 12 kV GB certificate
- Utility bidding chance and end user projects



RVACN SF6 Free pressured RMU

- Dry air gas insulated technology
- Three position load-break switch design
- 12 kV GB certificate
- Utility bidding chance, Infrastructure projects and end user projects

Low Voltage Assemblies



**Power Xpert® DX series
Low Voltage Assemblies**

- Complete range, Up 6300A, 415V/690V, GB/IEC compliance
- Meet harsh environment: Seismic, Internal Arc, High altitude etc.
- Arc free/Arc resistant Customization as option
- High-end Industrial, DataCenter, Oil&Gas etc.



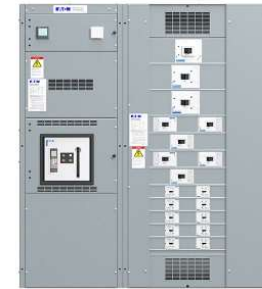
**Power Xpert® DX series
Compact Low voltage
assemblies**

- Customized, extended to SGCC request
- Meet communication and control request from SGCC
- Incomer: 2500A, Feeder: 3*630A
- Compact: 500mm width
- Safety: Input/Output cables segregation
- Complete heat shrink copper conductor



**iPDU
Power distribution
unit**

- Power distribution unit dedicated in Datacenter
- Monitoring as option to branch circuit
- Electricity/Load curve and Smart interface
- GB Compliance
- Customized products according to application



**Pow-R-Line
Panelboards and
switchboard**

- UL Listed and marked
- AC/DC application
- Provides circuit control and overcurrent protection for light, heat or power circuits
- AP1000, 3rd generation nuclear power plant – BOP, Non-1E equipment



**Power Xpert® DX series
DC Traction System**

- Core technology. Wide application and reference
- Comprehensive DC microcomputer protection device
- Eaton 100+ years experiences
- Subway, Light rail, Tram etc.

Busway



XAP-C Series Compact Busway

- Standard: GB/IEC
- Rated voltage (kV) : $\leq 1000V$ AC
- Rated current (A): 400A-6300A



XAP-B Series Compact Busway

- Standard: GB/IEC
- Rated voltage (kV) : $\leq 1000V$ AC
- Rated current (A) : 400A-5000A



XAP-S Series Compact Busway

- Standard: GB/IEC
- Rated voltage (kV) : $\leq 1000V$ AC
- Rated current (A) : 250A-5000A



XAP Track Busway

- Standard: GB/IEC
- Rated voltage (kV) : $\leq 1000V$ AC
- Rated current (A) : 160A-630A



XAP-HS Series Fire-resistant Busway

- Standard: GB / IEC
- Rated voltage (kV) : $\leq 1000V$ AC
- Rated current (A): 400A-4000A



XAP-J Cast Resin Busway

- Standard: GB / IEC
- Rated voltage (kV) : $\leq 1000V$ AC
- Rated current (A) : 400A-6300A



XAP-HR Series Fire Withstand

- Standard: GB / IEC
- Rated voltage (kV) : $\leq 1000V$ AC
- Rated current (A) : 400A-5000A



XAP Track Pro Busway

- Standard: GB/IEC
- Rated voltage (kV) : $\leq 1000V$ AC
- Rated current (A) : 160A-630A

VCB Products



i E-VAC Intelligent Circuit Breaker

- Flexible modularized smart function and option
- State display, parameter monitoring and fault warning
- Visual operation raises security
- Provide suggestions for maintenance to improve efficiency



150VCP-WG Circuit Breaker

- Standard : GB/IEC
- Rated Voltage(kV): : 15
- Rated Current (A): Up to 7000
- Interrupt (kA): Up to 75
- Generator capacity: <160MW
- Application: Generator protection



SL MV Contact

- Standard : GB/IEC
- Rated Voltage(kV): : 7.2/12
- Rated Current (A): Up to 400
- Mechanical life : 1,000,000 times
- Application: Motor/Starters



120E-VAC Circuit Breaker

- Standard: GB/IEC
- Rated Voltage(kV): 12
- Rated Current (A): Up to 5000
- Interrupt (kA): Up to 50
- Application: Full range of industry coverage



240E-VAC Circuit Breaker

- Standard: GB/IEC
- Rated Voltage(kV): 24
- Rated Current (A): Up to 4000
- Interrupt (kA): Up to 31.5
- Application: 24kV markets



405W-VACi Circuit Breaker

- Standard : GB
- Rated Voltage(kV): : 40.5
- Rated Current (A): Up to 4000
- Interrupt (kA): Up to 31.5
- Application: Full range of industry coverage



W-VACi Circuit Breaker

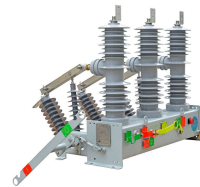
- Standard: IEC
- Rated Voltage(kV): 17.5/24//36
- Rated Current (A): Up to 4000
- Interrupt (kA): Up to 50
- Application: IEC market

OHS Products



NOVAi Recloser

- Solid Insulation / Vacuum Interrupter / PMA Mechanism / Optional 6 Voltage Sensors
- 15/27/38kV, IEC/IEEE
- Oversea utility bidding / Industry projects



NOVAs Circuit Breaker

- Solid Insulation / Vacuum Interrupter / Spring Mechanism / Optional external disconnecter
- 12/24kV GB; 24kV IEC
- Oversea utility bidding / Industry projects



NOVAc Circuit Breaker

- Solid Insulation / Vacuum Interrupter / PMA Mechanism / Optional external disconnecter
- 12kV GB
- China utility bidding



SOV Circuit Breaker

- SF6 Insulation / Vacuum Interrupter / Spring Mechanism / Internal Zero-Seq CT
- 12kV GB
- China utility bidding



FZWe LBS/Sectionalizer

- SF6 Insulation / Vacuum Interrupter / Spring Mechanism / Internal Disconnecter
- 12kV GB
- China utility bidding



SOVw P&S Integration Circuit Breaker

- SF6 Insulation /SF6 arc quence / Spring Mechanism / Internal Zero-Seq CT & PT
- 12kV GB
- China utility bidding



NOVAw P&S Integration LBS

- SF6 Insulation /SF6 arc quence / Spring Mechanism / Internal Zero-Seq CT & PT
- 12kV GB
- China utility bidding



NOVAr Railway Outdoor CB

- Air Insulation / Vacuum Interrupter / Spring Mechanism / Eaton VI
- 27.5kV TB
- Railway traction substation

Power Capacitors – HV/MV Units/ HV/MV Assemblies



MV Capacitor Unit

- Capacity: 30 ~1200kvar
- Internally fused/Externally fused
- Standard: IEC, IEEE, ANSI, GB, DL



CKSC Iron-core Reactor

- Voltage: 1kV – 35kV
- Reactance: 6%/7%/12%/14%
- Type: Current limiting, Filter, Series



BLR Power Factor Controller

FXD Protection Relay

- Automatic power factor control
- Capacitor protection relay
- RS485 Modbus



Shunt, Filter, SVC Capacitor Banks

- IEC, ANSI, GB, DL standard.
- Up to 750kV
- Internally fused, Externally fused and fuseless



Series Capacitor Banks HVDC Filter Capacitor Banks

- IEC / GB standard.
- Up to ± 1100 kV



Metal Enclosed Capacitor Bank

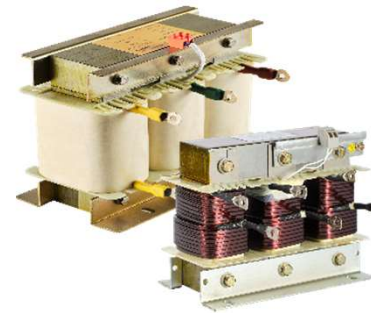
- 3kV – 35kV
- Indoor / Outdoor

Power Capacitors – LV Solutions



CELIC/CELICR LV Capacitors

- Capacity: 10 ~120kvar
- Voltage: 480V/525V/900V
- Frequency: 50Hz/60Hz



CELR LV Reactor

- Voltage: 220V/400V/690V
- Frequency: 50Hz/60Hz
- Reactance: 6%/7%/12%/14%



CELP PF Controller

- Voltage: 90-550V, 1ph
- Output: 250V AC/5A, 400V AC/2A
- Communication: TTL standard
- Option: RS485 Modbus



CELA Active Power Filter

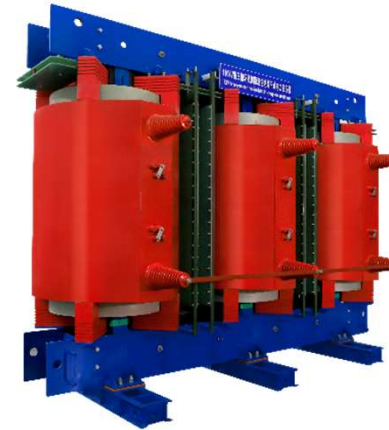
- Capacity: 50 A-500A ...
- Voltage: 400V
- Frequency: 50Hz/60Hz

Dry type transformer



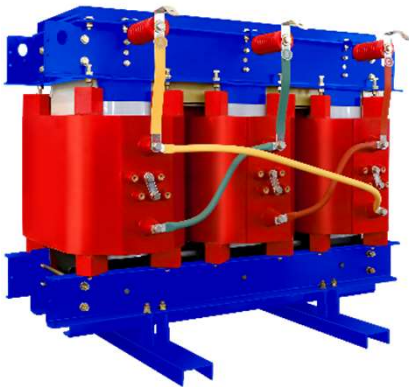
6-35kV Cast resin dry-type transformer

- Voltage: up to 35kV
- Capacity: up to 31.5MVA
- BIL: up to 200kV



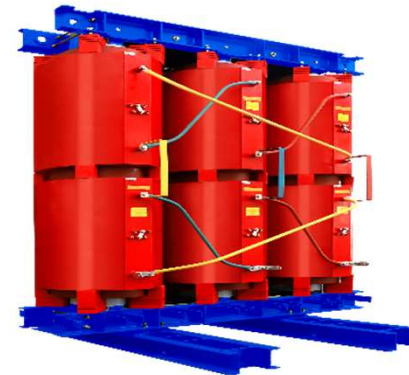
110 kV Cast resin dry-type power transformer

- Voltage: up to 110kV
- Capacity: up to 20MVA
- BIL: up to 480kV



Amorphous alloy dry type distribution transformer

- Voltage: up to 11kV
- Capacity: up to 2.5MVA
- BIL: up to 75kV



Double split dry type rectifier transformer

- Voltage: up to 35kV
- Capacity: up to 12.5MVA
- BIL: up to 200kV

Oil immersed transformer



6-35kV Oil immersed distribution transformer

- Voltage: 6-35kV
- Capacity: up to 3.15MVA
- BIL: up to 200kV



35-110kV Oil immersed power transformer

- Voltage: 35-110kV
- Capacity: up to 180MVA
- BIL: up to 480kV

Substation



Pad-mounted transformer

- Voltage: 6-35kV
- Capacity: up to 3.15MVA
- BIL: up to 200kV



Prefabricated Substation

- Voltage: 6-35kV
- Capacity: up to 2.5MVA
- BIL: up to 200kV



Integrated power conversion and step-up unit

- Voltage: 6-35kV
- Capacity: up to 3.75MVA
- BIL: up to 200kV

LIPE Products

Coldshrink Cable Accessories



- Imported high quality SIR rubber
- 17.5kV - 40.5 kV, GB certificates
- City level utility central bidding, C&I projects, Renewable energy application



IEC Separable Connector

- Imported high quality EPDM rubber
- 17.5kV – 72.5 kV, GB/IEC certificates
- City level utility central bidding, C&I projects, Renewable energy application



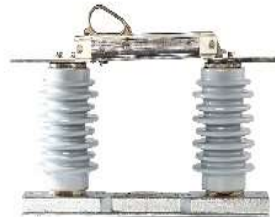
110kV Cable Accessories

- Stress cone made of high quality SIR rubber, compact design
- 126kV, GB certification
- City level power utility central bidding, C&I project like renewable and petrol-chemical

Fuse Cutout



- Single vent design, high interruption capability
- 10kV - 40.5 kV, GB/IEC certificates
- Utility, Wind farm



Disconnect Switch

- High strength porcelain insulators, pure copper contacts
- 10kV system, GB certificates
- Utility



Fully Insulated Polymer Cutout

- Full insulated polymer cutout
- Used in 10kV system, Max 50A Fuse link
- Best option for full insulated lines, GB standard certificate



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Padmounted Transformer Components



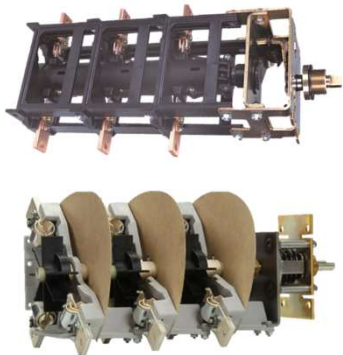
Fuses and ELSP current-limiting backup fuse

- Current sensing, Dual sensing and Dual element Bay-O-Net fuse link 8.3~23kV, 3~140A
- 38 kV Bay-O-Net fuse link, 10~120A
- High ampere overload Bay-O-Net fuse link, 8.3~15.5kV, 65~125A
- ELSP current-limiting backup fuse 8.3~38kV, 30~250A, 50kA



23kV and 38kV Bay-O-Net fuse assembly

- 23kV Bay-O-Net fuse assembly 160A, AC50kV, BIL150kV
- 38kV Bay-O-Net fuse assembly 160A, AC70kV, BIL200kV



Two-position and Four-position loadbreak switches

- Two-position loadbreak switch 12~38kV, 300~630A
- Four-position loadbreak switch 12~38kV, 200~630A



Bushing well

- 15/25/28kV Bushing well 15/25/28kV, 200A, AC 45kV, BIL 125kV
- 35kV Tri-clamp bushing well 35kV, 200A, AC 50kV, BIL 200kV

Energy Automation Solutions – EAS



FXD680 Protection & Control

- Compact protection relays
- Easier operation and maintenance



APM300/500 Power Quality & Metering

- Compact, high-performance power meters to monitor the electrical system and analyze the power quality



IEP640 Gateway & RTU

- IIoT data acquisition
- Edge computing
- Distributed IO system



ARC680 Arc Flash Protection System

- Ultra-fast arc flash protection
- Improve your reliability and efficiency



ATC680 ATS Control System

- Easy and fast switching between two independent power sources.



MatrixIoT Power Monitoring System

- Secure, scalable and interoperable platform
- IoT-Based MV/LV Power Distribution System Management and Control Platform

Electrical system analysis, integration and service

Customer Name	Address	City	State	Zip
Customer Name	1234 Main St	Anytown	CA	90210
Address	1234 Main St	Anytown	CA	90210
City	Anytown	CA	90210	
State	CA	90210		
Zip	90210			

Temperature	Humidity	Pressure	Current	Voltage
Temperature	Humidity	Pressure	Current	Voltage
Temperature	Humidity	Pressure	Current	Voltage
Temperature	Humidity	Pressure	Current	Voltage
Temperature	Humidity	Pressure	Current	Voltage



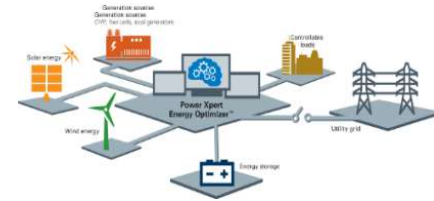
Electrical system safety audit

- Thermal imaging inspection of electrical equipment
- Arc flash safety analysis
- Short circuit protection setting value verification
- Identify potential electrical safety hazards
- Life extension of electrical equipment



ANSI electrical product service

- Over 15 years of experience in project management and on-site service of ANSI product service
- Relying on Eaton's global collaborative cooperation strategy to provide pre-sale high-quality project design consulting
- With ANSI/IEC/GB cross-standard product knowledge reserve, help customers quickly understand the differences in standard systems and form a more technical thinking



Electric power monitoring and management system

- Renewable energy system integration optimization
- Microgrid feasibility study
- Microgrid coordinated control system
- Black start, load balancing, frequency/voltage stability control
- Online monitoring system for electricity reliability and operation management level
- Improve power quality and reduce power consumption



EATON Track Inspection Robot

- Equipped with intelligent devices for 24/7 continuous on-site automatic surveillance,
- Versatile auxiliary components, assisting in addressing complex requirements,
- Smart data management, enhancing inspection efficiency, and reducing operational costs,
- Equipped with a remote management system for real-time equipment monitoring,
- Equipped with platform alarm linkage functionality, promptly responding to fault signals.



THANK YOU

EATON

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