



Complete solutions for tomorrow's power

Eaton's Electrical Services and Systems Turnkey Solutions team can manage large-scale electrical system projects from start to finish, reconditioning or upgrading equipment, or modernizing your power system.

Eaton's modernization and turnkey power system services place personnel in the field to complete a variety of undertakings, such as managing a construction project from start to finish, reconditioning or upgrading equipment, or modernizing your power system. With our project management services, you'll have a single point of accountability and a reduced risk of project delays and failures. The result is a safer, more reliable and cost-efficient power system. So that support is there when and where you need it, Eaton has experienced engineers and field technicians located throughout the world. In addition, we provide additional support from regional product centers for specialized services like equipment reconditioning.

Turnkey project implementation

We offer **centrally coordinated management** of all engineering disciplines, procurement, installation, startup and commissioning to implement power system solutions.

Project management

Eaton is a **single point of accountability** for all design and execution of your project.

New or existing infrastructure

Eaton can design projects for new infrastructure or work with you to **optimize or expand** your existing infrastructure to meet your changing needs.

SEGMENTS

Electric utility

- Substations
- Excitation
- Protection and controls
- Solar and alternate energy systems
- Facility electrical infrastructure upgrades
- Synchronous condenser
- Small hydro
- Pumped storage
- Automation and digitalization
- Panel fabrication
- Grounding solutions
- Battery storage
- NERC compliance studies
- Power system studies
- Distributed energy resources/microgrid systems

Data center / mission critical

- UPS and mechanical installations
- Modular / container solutions
- Substations
- Back up generation and paralleling gear

Government

- Facility and grid power distribution system electrical infrastructure modernization
- Mission Critical - UPS system modernization
- Distributed energy resources/microgrid systems
- Hydro electrical system modernization and upgrades
- Modular Integrated Transportable Substation (MITS)
- Automation and digitalization
- Excitation
- NERC compliance studies

Commercial

- Facility electrical infrastructure upgrades
- Protection and controls
- Distributed energy resources/microgrid systems
- Back up generation and paralleling gear
- Modular Integrated Transportable Substation (MITS)
- Substations
- Automation and digitalization
- Panel fabrication

Pulp and paper

- Substations
- Facility electrical infrastructure upgrades
- Excitation
- Protection and controls
- Hydro
- MV drives
- Automation and digitalization
- Electrocenter design and upgrades
- NERC compliance studies
- Back up generation and paralleling gear

Petroleum and mining

- Substations
- Protection and control
- Panel fabrication
- MV drives
- Modular Integrated Transportable Substation (MITS)
- Back up generation and paralleling gear
- Automation and digitalization
- UPS system modernization
- Electrocenter design and upgrades



Powering Business Worldwide

SERVICES



Engineering and design

- Electrical, civil and structural design to 345kV
- Design services
- Equipment specification including civil design
- Drawing development
- Power system studies: power quality, grounding, lightning protection, harmonic analysis, short circuit / coordination, Arc Flash, VAR compensation
- Power system protection, automation and control design including substation and distribution automation, automatic transfer schemes, SCADA, energy power monitoring systems (EPMS)
- Cybersecurity
- NERC compliance studies
- Equipment installation and commissioning
- Modular Integrated Transportable Substations (MITS)
- Circuit breaker reconditioning/replacements



Project and construction management

- Single-point responsibility
- Centralized project management group
- On-site installation supervision
- Standardized documentation practices including scheduling, reporting, and project closeout
- Project management/scheduling
- Web-based system for documentation sharing
- PrimaVera and MS Project



Installation services

- Nationwide subcontracting capability of all trades – on-site project management
- Site preparation, excavation, foundation, and grounding installation
- Steel erection, equipment installation, welding, cable connections and assembly
- Equipment set and final connections
- Substation yard upgrades
- Transformer replacement
- OCBs with vacuum replacement or SF6 breakers
- Civil demolition and construction
- Electrical demolition and construction
- Conduits, cables, steel structures, equipment placement



Startup and commissioning

- Acceptance testing and installation certification – all manufacturers
- Start-up and ground fault certifications
- Interconnect confirmation and commissioning
- Utility integration
- Warranty extension and training



Multi-vendor equipment supply chain

- Complete range of Eaton products available
- Coordination and purchase of all third-party customer preferred components
- Prefabricated control house
- Modular collector substation



Maintenance, emergency services

- Short/long term maintenance contracts
- 24/7 remote monitoring and support
- Emergency services and response 24/7 for all your substation needs
- Immediate personnel dispatch
- Monitoring of relaying, metering, HV, MV and LV equipment and transformers

About Eaton's Electrical Services and Systems

Eaton's Electrical Services and Systems is one of the largest and most experienced industrial service organizations in North America. With more than 800 highly trained professionals in 60 engineering service locations throughout the U.S. and Canada, Eaton's Electrical Services and Systems has complete local, national, and international capabilities to provide a full range of electrical, civil and mechanical equipment services. This broad range of service capabilities has established us as the leader in the engineering service industry.

For more information, visit
Eaton.com/Turnkey
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