



## Modular substation installation services

Eaton's engineering and consulting services focus on understanding business requirements, and setting strategies to ensure long-term, efficient and safe operation of your power system. Eaton's engineers and consultants can help diagnose problems and identify ways to improve performance, or transform concepts into flexible, practical solutions that can improve productivity and capital utilization. Eaton can help keep power systems safe, efficient, reliable and up-to-date.

Eaton's Cooper Power Systems™ Modular Integrated Transportable Substation (MITS) is a factory-integrated design of an electrical power distribution substation assembled on a self-supporting structural base, or a D.O.T. compliant trailer for mobile applications. If planning to build or replace a new substation or distribution center, or add capacity to an existing substation, the MITS can provide a total packaged solution - saving time, space, and labor. MITS can be readily transported to the project site and set in place with one crane lift, meaning quick, safe, and easy installation.

### Modular substation pre-installation support

Eaton provides the following engineering services to support the initial design and protection:

- System conceptual and detailed electrical design
- Short-circuit, coordination, arc flash and load flow studies
- Unique installation planning with back-up power contingencies
- Start-up and commissioning test plans to fully simulate all anticipated normal and emergency operating conditions

### Modular substation new construction support

Eaton provides turnkey installation and full support from start-up to completion:

- Acceptance testing of individual MITS components:
  - Fluid testing, insulation and contact resistance testing

- Transformer turns ratio testing and winding resistance
- High potential testing, power factor (Doble) tests and IR scan
- Verification of protection device settings
- Commissioning to ensure proper normal and emergency operations
- Testing of all transfer schemes, switching operations, remote operation via communications protocols, and customer specific operating parameters
- Synchronizing to utility grid and on-site generation
- Site supervision of handling, installation, connection and energizing
- Complete turnkey installation
- Training on equipment operational modes, protection schemes and troubleshooting guides

### Life extension support

Eaton provides a full complement of the newest technologies to upgrade existing equipment; providing the latest control and protection functions while maintaining your existing infrastructure.



### The power of Eaton

Eaton offers complete services for all your power distribution and automation needs. The Eaton global service team is one of the largest and most experienced teams of power system engineers in the industry available 24 hours a day. Eaton provides equipment acceptance testing, start-up and system commissioning; power system analysis including arc flash, harmonics and other power quality studies and field measurements; preventive maintenance, testing and field troubleshooting; multi-year service contracts; power system automation and remote monitoring; aftermarket life extension solutions; as well as turnkey project capabilities.

Eaton's field service engineers can install, start up, commission and service Cooper Power Systems as well as any other manufacturer's power equipment to precise standards with minimal disruption to ongoing facility operations.

For expert service, call  
**1-800-498-2678** or visit:  
[www.Eaton.com/EESS](http://www.Eaton.com/EESS)

For Cooper Power Systems  
MITS product information,  
call **1-877-277-4636** or visit:  
[www.CooperPower.com](http://www.CooperPower.com)

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