



Transformer 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.

One-hundred percent of Eaton's Cooper Power Systems™ pad-mount and substation transformers are customized. These transformer cores and coils are designed and manufactured to provide optimum field performance. Advanced quality management, combined with exhaustive testing, assures reliable performance with one of the industry's lowest failure rates.

Transformer pre-installation support

Eaton provides engineering services to support the initial design, engineering, and protection of transformers:

- 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

Transformer new construction support

Eaton provides turnkey installations from start-up to completion:

- Acceptance testing of individual transformer components including
 - Fluid testing and insulation resistance testing
 - Transformer turns ratio testing and winding resistance
 - Power Factor (Doble) testing and thermographic analysis
 - Transformer operational and condition monitoring device testing
- Level, temperature, pressure, fan operation
- Tap changer operation and testing
- Site supervision of equipment handling, installation and energizing
- Complete turnkey installation
- Training on equipment operational modes, and maintenance and troubleshooting guides

Transformer operation and maintenance support

Eaton provides full maintenance services including periodic maintenance, multi-year service contracts, and remote monitoring and alarming of potential failure indicators.

- Periodic maintenance during scheduled outages (DGA, insulation resistance, functional tests)
- Equipment thermographic surveys to identify electrical hot-spots
- Multi-year inspection and analysis service contracts



Powering Business Worldwide

Cooper
Power Systems
by **EATON**

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

For Cooper Power Systems
transformer product
information, call
1-877-277-4636 or visit:
www.CooperPower.com

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