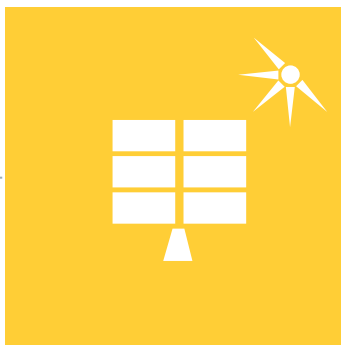


Electrical Engineering Services & Systems

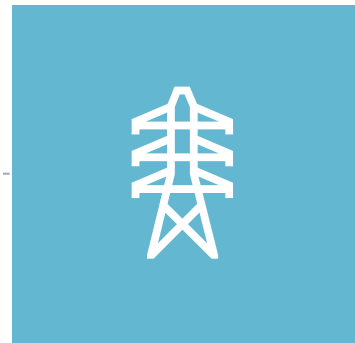
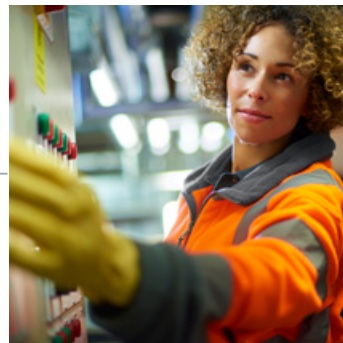
Power Xpert microgrid solutions



Eaton's Power Xpert microgrid solutions provide, reliable power that delivers operational resilience, minimizes carbon emissions and reduces energy costs.



EVERYTHING
AS A GRID



EATON

Powering Business Worldwide

Solutions overview

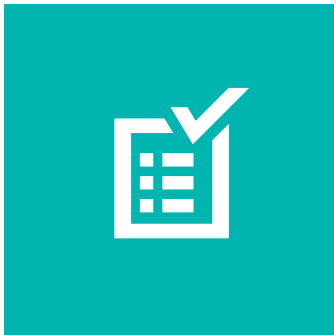
EVERYTHING
AS A GRID

Eaton's broad range of capabilities to support microgrid financing, design and deployment for an end-to-end solution.



Microgrid solutions

- Power Xpert Microgrid Controller
- Pow-R-Line Xpert Microgrid Switchboard
- Energy as a Service (EaaS) financing
- DER monetization



Studies and modeling

- Site-specific microgrid system studies
- Techno-economic analysis
- Microgrid simulation
- Interconnection studies



Field services

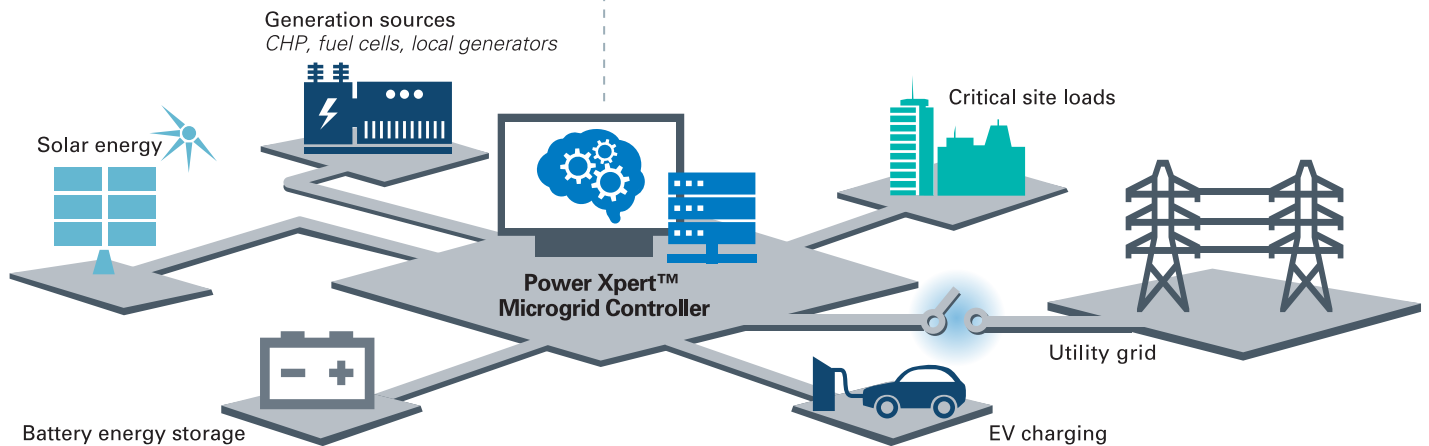
- Site electrical upgrades
- 24/7 Emergency support
- Operations and maintenance



Turnkey electrical solutions

- Microgrid system design
- Engineering, procurement and contracting (EPC)
- Project management
- Start up and commissioning

Eaton's Intelligent Power Xpert Microgrid Controller



The microgrid controller maintains overall system stability regulating power flow and monitoring protection schemes in real-time, while dynamically managing generating assets and loads to meet user defined goals.

Thoughtfully designed, borne from experience

A modular approach is used with each asset type configured to a standard template.

Each template includes the control functions, alarms, and measurement values for integration and implementation. This modular architecture allows the controller to be efficiently scaled for the application and adaptable to changing generation assets and loads.

Eaton's Power Xpert™ Microgrid Controller is built on utility-grade hardware that provides a reliable, intelligent, and scalable control platform. Deployable as grid connected or in isolated power system applications, large or small, the Power Xpert Microgrid Controller is up to the task.

Over the last decade, Eaton has successfully applied its power systems and automation expertise to design and implement control systems for basic to very complex microgrids.

With experience spanning a wide range of industries and geographies we understand the inherent electrical operation and control challenges of microgrids. Our power system experts have developed and harnessed unique optimization strategies that maximize resiliency, efficiency, and sustainability.

What makes us stand out?



Broad capabilities with local support

Eaton has one of the largest and most experienced teams of power system engineers, field technicians, and customer support engineers in the industry — strategically positioned around North America for rapid, dedicated local support. With complete end-to-end service capability, Eaton can take your microgrid project from initial concept phase with feasibility studies through to turnkey project design and EPC support of complete projects with operations and maintenance contracts.



Flexible integrated solutions

Eaton's broad portfolio of power distribution products enables cohesive and cost effective microgrid integration into existing or new electrical systems. Factory installation and testing of the Power Xpert Microgrid Controller into power distribution assemblies as an integrated solution ensures interoperability and expedited on-site commissioning.



Cyber secure

Eaton's Power Xpert Microgrid Controller leverages our proven utility-grade, SMP automation hardware platform. Our microgrid solutions are North American Electric Reliability Corporation (NERC) and Federal Energy Regulatory Commission (FERC) compliant while utilizing advanced cybersecurity features such as firewalls, TLS, AES 128/256, X.509, etc).

EVERYTHING
AS A GRID

For more information, visit
[Eaton.com/microgrids](https://www.eaton.com/microgrids)

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