

# 6 ways Eaton is helping utilities advance grid reliability

2018 marks Eaton's 20th anniversary of providing electrical engineering services for customers in North America. Here are six innovative ways the organization has helped utilities support a more reliable and smarter electrical grid:

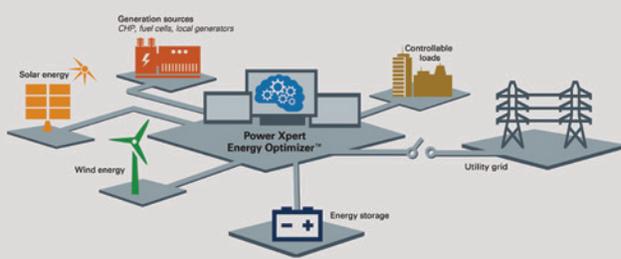
## 1 Converting generators to synchronous condensers

Integrating distributed energy resources while maintaining grid stability is a major challenge. Eaton has successfully completed six synchronous condenser plant conversion projects over seven years, providing a critical service to regional electric companies such as **FirstEnergy**.



## 2 Achieving cost-effective SCADA

When **Grand Valley** Power required an innovative solution to improve grid reliability and real-time monitoring, Eaton developed and deployed a scalable SCADA system that could be implemented with minimal investment and maintenance.

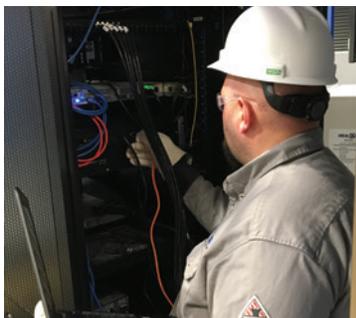


## 3 Implementing microgrids for energy resilience

The U.S. Department of Defense needed an expert to collaborate with local utility **Consumers Energy** when developing a demonstration microgrid at Fort Custer. Eaton responded with a turnkey solution designed to run indefinitely based on renewable generation and available fuel.

## 4 Enabling rapid disaster response

After a hurricane left much of the upper East Coast devastated by rain, wind and rising tides, New York residents got their power back on with the help of an **Eaton modular integrated transportable substation**, designed and installed specifically for this purpose.



## 5 Modernizing the aging grid

The need for a smarter and more secure grid is driving the requirement for faster and more responsive equipment. Eaton has helped utilities achieve secure, remote and cost-effective monitoring via the **addition of new or replacement of legacy RTU systems**.

## 6 Helping plan and manage grid modernization

Whether you're targeting enhanced generation capacity, cybersecurity, safety or efficiency, Eaton is leveraging 20 years of engineering services expertise to perform the **power system studies** you need to stay up-to-date with the most pressing power management challenges.



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