Microgrids bring sustainable power to remote communities

**CHALLENGE:**
Help an indigenous community in Canada sustainably source power, reduce emissions and cut energy cost.

**SOLUTION:**
Eaton’s Power Xpert Energy Optimizer™ controller system providing centralized microgrid control for solar PV, energy storage components and diesel generator systems.

- **Eaton’s Power Xpert Energy Optimizer controller system**
  - 250-kilowatt solar PV array
  - 200 kilowatt-hours of lithium battery energy storage
  - Upgraded generator controls
  - Dual-port power inverter to convert existing single-phase distribution into a three-phase network

**Results**
- REDUCE harmful emissions and reliance on diesel generators
- MINIMIZE cost of energy and required maintenance
- MITIGATE risks associated with transportation and storage

**Microgrid applications are as unique as our communities:**
This project demonstrates the benefit of microgrids for powering remote communities. Eaton’s expertise can be applied to grid-connected communities, businesses and institutions to support more resilient, sustainable and affordable power.

For more information, please visit [Eaton.com/microgrid](http://Eaton.com/microgrid)