



SYSTEM SPECIFICATIONS	
Location	Laval, Quebec
System Power	20 to 40kW systems
Components	<ul style="list-style-type: none"> • FX3648 • (2) FLEXware 500 inverter/charger • (4) FLEXware 1000 inverter/charger • Battery bank

OVERVIEW

For more than a decade, Volts Energies, headquartered in Laval, Quebec, has designed energy-efficient systems for off-grid customers in and around Quebec.

Those customers, who include mining companies, outfitters, logging businesses and homeowners, trust Volts Energies for diesel generators and battery backup solutions to meet all of their power needs. One outfitter company on Anticosti Island approached Volts Energies for an efficient, practical power solution for two island sites serving sportsmen at this remote recreational outpost on the mouth of the Saint Lawrence River.

CHALLENGE

- Design a reliable diesel source of power for two sites
- Increase the installation's energy efficiency to reduce fuel costs
- Avoid cost of running electricity to the remote, lake-front site by providing an independent, on-site power system

SOLUTION

- Design and installed an OutBack FX inverter/charger with battery bank to increase system efficiency
- Reduce both site generator load from 40 to 20kW
- Batteries reduce generator run-time resulting in significant fuel savings
- Intelligent system programming starts generators when either loads increase or the battery banks' charge falls below 50%

OUTCOME

- The outfitting company saved 50% in fuel costs at one site and 66% at the other
- The two sites will save ~\$18,000 per year—on track for complete system payback in six years
- By going off-grid, the customer avoided the expense of connecting the island site to the local grid, while maintaining the same level of energy efficiency as the rest of the island

