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Skywire Electrical Systems

SOLAR + STORAGE CASE STUDY

SYSTEM SPECIFICATIONS	
Location	Ozark Mountains, Missouri
System Power	24kW PV/solar system
Components	• Radian inverter/chargers • FLEXmax charge controllers • FLEXware combiner boxes • MATE3 system display and controller

OVERVIEW

Skywire Electrical Systems is a family-owned business that provides residential and commercial services to customers in Springfield and the Ozarks area of Missouri. The company offers lighting design, electrical work and solar energy solutions, including grid-tied, grid-interactive with battery backup and solar thermal.

Following the installation of a grid-tied solar energy system for a home, Skywire Electrical Systems was contracted to design a system for a second, neighboring house on the lot. This new construction project uses a grid/hybrid system with battery backup to add the capability of providing continuous electrical power through any possible utility outages.

CHALLENGE

- Design a reliable energy system with battery backup to support critical electrical loads in the event of an outage
- Install cleaner, more aesthetically pleasing systems for customers to differentiate Skywire's installations from other intrusive, surface-mounted configurations
- Offer a control panel to support remote management and monitoring of equipment
- Deploy well-respected technology to create customer confidence

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01/2020

SOLUTION

Skywire Electrical Systems chose several OutBack Power products to meet the needs of its customer's new home project—FLEXmax charge controllers, Radian inverter/chargers, FLEXware combiner box for solar arrays and MATE3 system display and controller. The customer identified numerous critical loads supported by the solar power system, including refrigerators and freezers, lighting in the master bedroom and bathroom, solar thermal water heater pump for two solar thermal water heaters and all the sump pumps in the basement. The system can draw from a 24kW worth of solar array and a 27kW generator to back up the battery bank on a cloudy day during a grid loss.

OUTCOME

- OutBack Power's industry reputation for quality equipment and great customer service helped Skywire secure approval for the customer's project more quickly
- The FLEXmax charge controller provides critical system information including amp/hours in and out of the battery bank
- OutBack Power made technical support easily accessible throughout the project

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