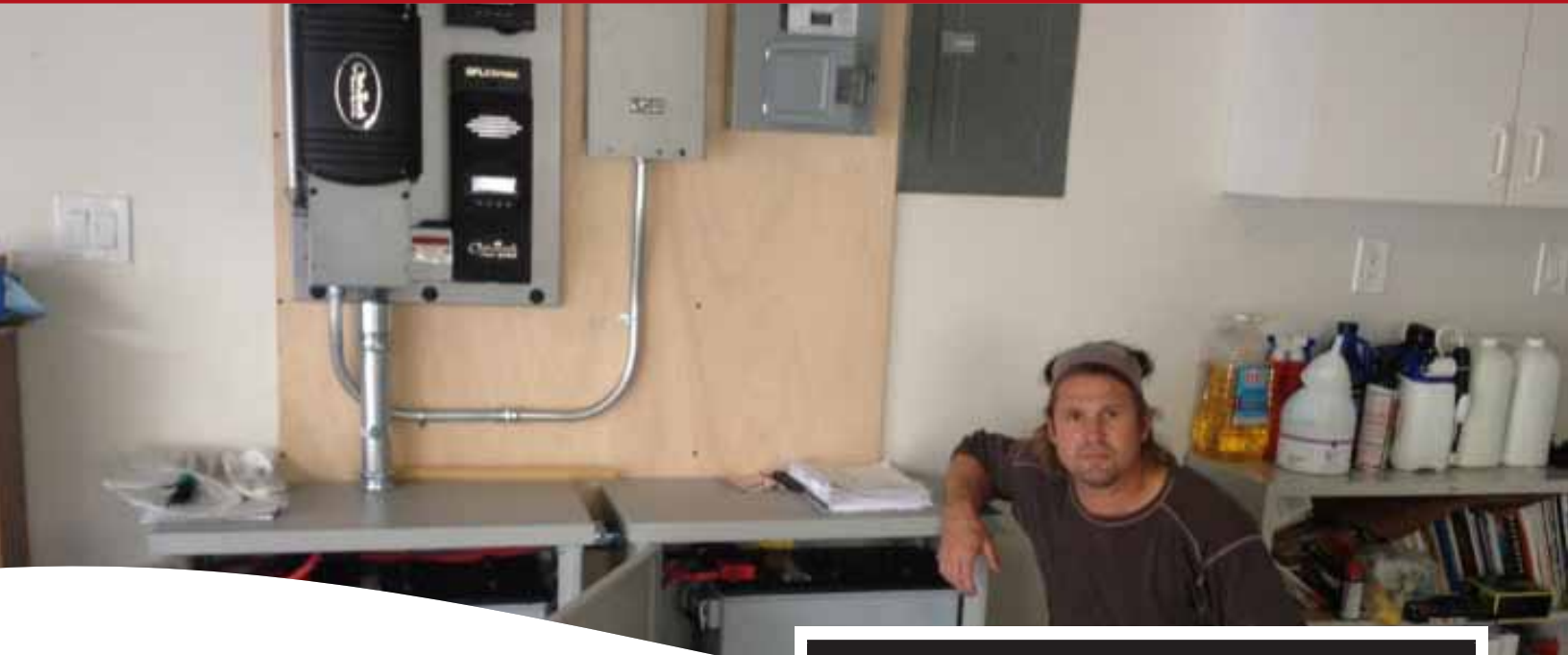




Case Study: Zina Sunshine

OutBack Backup Power System Installation



Overview

After starting his career in solar power in 1992, Jeff Johnston founded Zina Sunshine in 2000. **The Florida-based company specializes in solar-powered systems to support heated pools, water heaters and electricity for commercial and residential customers.**

State-licensed Zina Sunshine has installed more than 2,000 solar power systems in Dade, Broward, Palm Beach and Monroe counties. When a customer approached Zina Sunshine about a solar installation capable of supporting nearly 3,000 watts worth of applications on his plantation, the company sought out a fully integrated, reliable, true sine wave power system.

System Specifications

Location: Hollywood, Florida

System Power: 3,000W Solar System

Components: FLEXpower ONE (GFX Inverter/Charger, FLEXmax Charge Controller and MATE3 System Display and Controller



I can't imagine having to buy all of the solar components separately and tie them together. With OutBack Power, we give our customers a plug-and-play system that saves them time and money and delivers superior performance."

Jeff Johnston
Owner, Zina Sunshine





Objectives

- Design and specify a solar energy system capable of providing 3,000 watts of power to residential appliances and devices including a refrigerator, washing machine, computer, microwave, television, mini-split air conditioner and lights.
- Establish a backup power source to kick-in automatically in the event of a utility outage.
- Install a system that includes all the necessary components – such as an inverter, AC and DC wiring boxes, charge controller, surge protector, photovoltaic (PV) array breakers, display and communications managers, and more – in a compact design that is code-compliant and easy to install.

Solution

Zina Sunshine had worked with OutBack Power's products in the past and chose OutBack again for its superior performance with renewable energy-based backup power systems for emergency loads. For this installation, Zina Sunshine selected OutBack Power's FLEXpower ONE System, which includes all of the required components such as an inverter, charge controller, controller/programmer and communications hub. FLEXpower systems are pre-configured and tested, and come with all required installation components, including a ground-fault detector interrupter (GFDI) breaker, an input-output-bypass assembly and mounting locations for multiple style outlets. The installed FLEXpower system serves as an emergency load center and eliminates the need for a generator. In the event of a utility outage, the OutBack Power FLEXpower ONE System automatically takes over to power all residential needs, from air conditioning to refrigeration and lighting.

Benefits

- In post-installation testing, the OutBack Power system worked as expected by automatically replacing grid power when the grid connection was terminated.
- The fully integrated, pre-assembled and tested system reduced installation time, thereby lowering the customer's cost.
- Zina Sunshine predicts that through net metering policies, the customer will save approximately \$50 per month on his average electric bills, since the system generates offset power even when the grid is in service.
- In the event of a hurricane or other natural disaster, the customer will not suffer any power interruptions.

