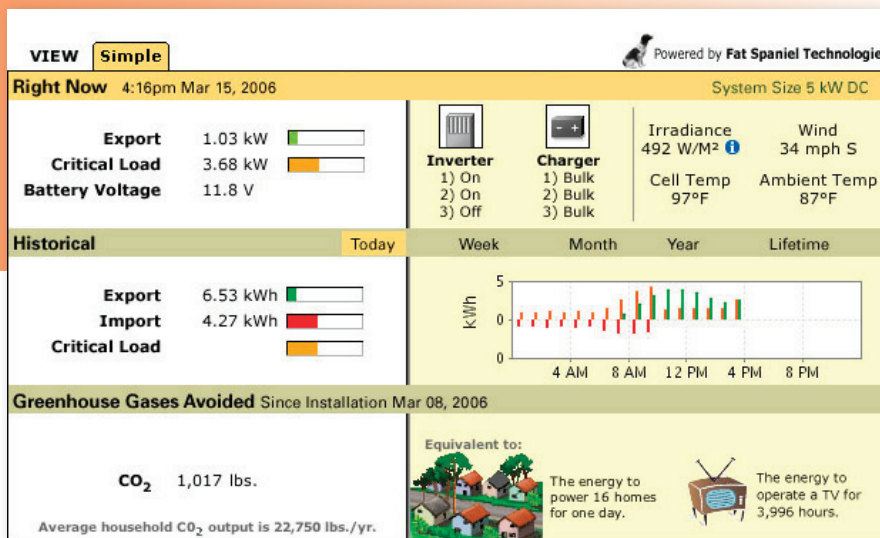




OFF-GRID SOLAR ELECTRIC MONITORING SERVICES FOR COMMERCIAL SYSTEMS: MAXIMIZING RELIABILITY AND PERFORMANCE



Fat Spaniel Technologies provides an effective way to remotely monitor off-grid solar electric system health and performance.

24x7 Monitoring of Off-Grid Sites

Commercial installations, such as cell phone sites or repeater stations, may be located in areas too remote to economically connect to the power grid. Off-Grid applications such as these increasingly depend upon renewable energy sources to supply the power they need. Ensuring that these systems are operating correctly at all times is critical. Downtime can mean loss of revenue. But their remote locations make frequent physical checks impractical. As a solar electric system installer, your commercial customers look to you to maintain these systems. How do you maximize battery life, ensure reliability, and proactively identify and correct component failures?

Maximum Battery Life and Performance

Fat Spaniel Technologies offers remote monitoring and reporting services for Off-Grid solar electric installations through a partnership arrangement with OutBack Power Systems and Morningstar Corporation. Battery life and performance is typically the highest concern with these systems. Fat Spaniel enables you to remotely monitor battery voltage and view its real-time charge state, including charge controller and inverter charging modes. Knowing how the equipment is operating the batteries and analyzing daily performance patterns enables you to better understand component settings for maximum reliability. Diagnose component failures remotely so you know what to bring with you before making that long trip. Monitoring also facilitates analysis of battery usage to more effectively determine when an equalization charge procedure is needed to maximize the life of flooded batteries.

Critical Monitoring and Reporting Services for Renewable Energy Systems

Benefits

- Provide 24x7 remote monitoring of your customers' Off-Grid solar electric system
- Remotely monitor battery life for reliability to maximize power storage
- Manage multiple sites and multiple customers easily and efficiently
- Access system data remotely anytime from any Web browser
- Track production, usage, and environmental statistics with real-time and historical data via on-line downloads or XML data feeds
- Increase customer satisfaction with improved service and uptime
- Educate customers through Web views and use these views as effective sales tools to sell more systems to new customers
- Determine proper device setting by analyzing charge state history

For more information, please contact your installer or visit www.fatspaniel.com

Our sales and technical specialists will also be glad to help you at sales@fatspaniel.com or call 1.408.279.5262

Manage Multiple Sites Easily

Fat Spaniel Insight Manager™, a Web-based portal for managing multiple customer sites, provides an at a glance overview of all your sites. The tool shows their health status, offers a detailed event log, and stores asset information. These powerful capabilities help increase system output and reduce support costs by minimizing site visits – maximizing customer satisfaction.

More Effective Marketing and Education

Seeing is believing! Fat Spaniel's Web views enable customers and prospects to more readily grasp the concept and benefits of remote renewable energy monitoring and reporting. You can leverage these views as effective sales tools to sell more systems to new and existing customers.

Grid-Tie Solution

Fat Spaniel, in partnership with OutBack Systems, also offers monitoring services for Grid-Tie renewable energy systems. Grid-Tie systems provide back-up power while allowing the solar electric panels to continue to operate whenever the utility grid goes down. Contact Fat Spaniel for more information about monitoring solutions for Grid-Tie systems.

Basic Off-Grid Monitoring Includes:

- 24x7 monitoring service
- Web-based views showing how your solar electric system is working
- Online storage of your data and system information, hosted at Fat Spaniel's data center
- Communication compatibility with cell modem and satellite services

Features:

- Battery voltage reading
- Charger and inverter states
- Critical load graphs
- **OutBack solutions supported by Fat Spaniel Insight Manager™**

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