



**AlsoEnergy**

*clean*  
Knowledge is Power!

# PowerTrack™ Solar PV Monitoring System Solutions for Integrators and PPA Providers

## BENEFITS

Easy to install

Uses readily available, off-the-shelf hardware

Collects data from a wide variety of equipment

Individualized graphing and modeling capabilities

Customized, secure web portal allows you to view performance real-time, at one minute refresh intervals

View from web, desktop, and web-enabled phone

## Contact Information

**AlsoEnergy, LLC**  
PO Box 17877  
Boulder, CO 80308  
(303) 875-6311  
info@AlsoEnergy.com  
www.AlsoEnergy.com

AlsoEnergy provides a complete PV monitoring solution, that delivers real-time operational views of your entire PV system so you are assured that all components are operating optimally.

AlsoEnergy's patent-pending **PowerTrack™** software offers a secure, low cost solution that immediately detects any problems in a PV installation, with immediate automated alerts to minimize downtime.

**PowerTrack™** features easy-to-use graphing and modeling capabilities that offer detailed analysis of real time and past performance.

Additionally, **PowerTrack™** can calculate the value of produced solar energy for PPA customers and easily integrate with their accounting systems.

Our software compares data from the inverters, power meters and a weather station with the expected output for your specific system and location, and reports performance metrics in an easy to understand format.

## Compatibility

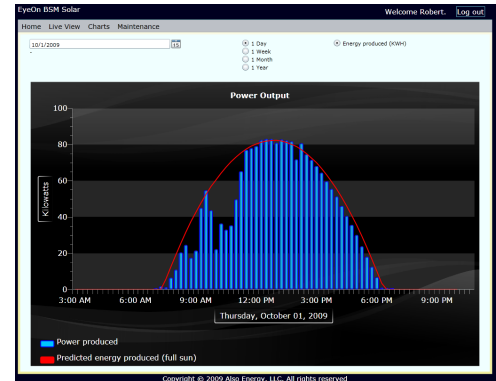
We support all Modbus-compatible inverters and power meters, plus SMA Sunny Boy and Sunny Central inverters.

## Security

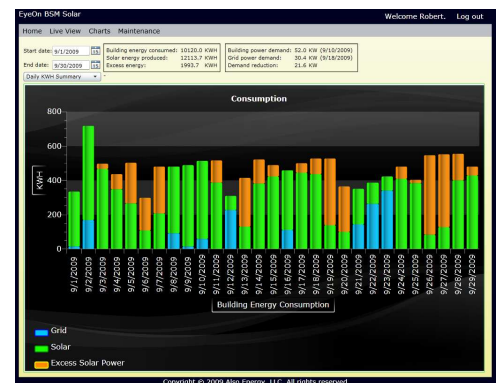
Our encrypted communications and fully redundant, co-located server architecture insures that your data remains secure and readily available.

## Pricing

Also Energy is committed to providing the lowest cost, highest quality solution. Our prices are based simply on system size and an annual subscription for all software features.



Real time Performance



PPA Billing Integration



Cumulative Production



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## About AlsoEnergy

### PRODUCTS AND SERVICES

**PowerTrack™**  
Solar PV Monitoring provides analyses of PV system performance using real time data

**PowerLobby™**  
showcases benefits of solar PV systems using PowerTrack

**PowerTrackPlus™**  
custom software development

**SolarComplete™**  
computer modeling of solar PV systems and third party review

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AlsoEnergy provides innovative Energy Service Companies, Solar PV developers, and Solar Power Purchase developers with the tools and information required to insure optimum system operation, with a unique combination of performance monitoring software and professional services.

Patent-pending **PowerTrack™** software offers a secure, low cost solution that immediately detects any problems in a PV installation and issues automated alerts. **PowerTrack™** features easy-to-use graphing and modeling capabilities with detailed analysis of real time and past performance, has the capability to calculate the value of produced solar energy for PPA customers and integrates with most accounting systems.

**PowerLobby™** software was developed for organizations that wish to showcase their environmental commitment. This product displays real time PV system data in an attractive and informative presentation. Along with a news feed, the display shows current temperature, wind, sunlight, solar power production, building power consumption and excess power production.

**PowerTrackPlus™** provides the services of AlsoEnergy's design engineers to create custom features and provide critical integration with other applications, such as financial and accounting packages.

**SolarComplete™** will allow you to have design engineers from AlsoEnergy review your PV system designs, and offer recommendations for improvements and possible modifications to optimize performance of the entire system.

### Principals:

Robert Schaefer, P.E., CEO, has over 26 years of high tech experience in Engineering, Operations, Sales and Marketing, where he has held executive positions in a wide variety of industries. Robert graduated from M.I.T. with a Bachelors of Science degree in Electrical Engineering and received his Masters Degree in Control Systems in 1993 from the University of Colorado, Boulder. He is a Professional Engineer in the State of Colorado.

Holden Caine, CTO, has spent his career developing high performance, low cost web-based online software solutions for the digital imaging market. As Vice President of Software Development for FujiFilm, USA, he architected web based image-processing systems for commercial and consumer markets. Prior to that, Holden worked at Applied Graphics Technologies and the Eastman Kodak research labs. He graduated with a Bachelors of Science degree in Computer Engineering from the Rochester Institute of Technology.