NOVEDA TECHNOLOGIES

Case Study

Bed & Breakfast Inn

SunFlow Monitor™ Helps Raritan Inn to Detect Fault in Inverter in Real Time And Avoid Unnecessary Electric-ity Spending

Goal:

- Monitor performance of 7.2 kW solar PV array
- Generate reports for solar renewable energy credits (SRECs)

Noveda Solution:

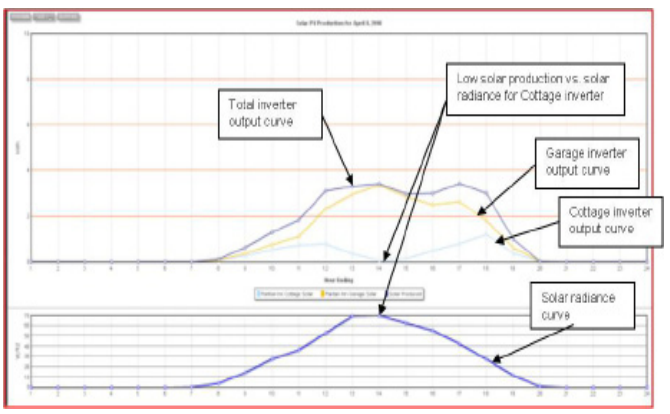
- SunFlow Monitor™ to monitor performance of the solar PV system in real-time

Results:

- Real-time fault detection and notification
- Avoidance of 167% increase in electricity spend-ing

Raritan Inn is an approximately 4,000 square foot bed & breakfast inn that utilizes a 7.2 kW grid tied solar PV array to meet a part of its daily electricity demand. SunFlow Monitor™ was installed to moni-tor the performance of the solar PV system in Feb-ruary 2008.

In April 2008, SunFlow Monitor™ data showed a discrepancy between the measured solar produc-tion and measured solar radiance. The inverter output was dropping even though solar radiance was increasing, which led to the conclusion that there was a problem with the solar PV array or the inverter. Further investigation revealed that a junc-tion box on the roof associated with the PV array electrical distribution system was damaged and was letting water in. The junction box was repaired and the array was brought back online thereafter.



Having access to the Noveda real-time data ena-bled Raritan Inn to immediately detect and then di-agnose fault with the PV system. Had the problem gone unnoticed, Raritan Inn would have pulled in more higher cost electricity from the utility to meet its electricity needs and also lost valuable solar renewable energy credits (SRECs), increasing its utility spending by 167%.

Request a Free Demo

To find out how we can help your organization improve building perfor-mance and reduce energy costs,

email: sales@noveda.com

Real Benefits. In Real-Time