

SunFlow Monitor® ensures that your solar photovoltaic (PV) or wind energy systems perform at contract specifications and kWh production guarantees. With real-time monitoring, real-time diagnostics and live data reporting, SunFlow Monitor® gets the most out of your renewable energy investment.

SunFlow Monitor® goes a step further by comparing system's performance against expected, taking weather effects and outside temperature conditions into account. SunFlow Monitor® also produces hourly reports for solar renewable energy credits (SRECs).

Meaningful graphics, analysis-based alerts, detailed reporting and complete data export flexibility give you the answers to monitor and manage performance of your renewable energy systems.

Customers

Whether you're a commercial enterprise, government, utility or an educational institution, we'll help you maximize your investment in renewable energy.

Representative Examples:

- Leading U.S Utility Optimizes Performance of 500 kW Solar and 7.5 MW Wind Energy Systems
- U.S Municipality Monitors 500+ kW Solar Energy Project and Reduces Energy Usage by 50%

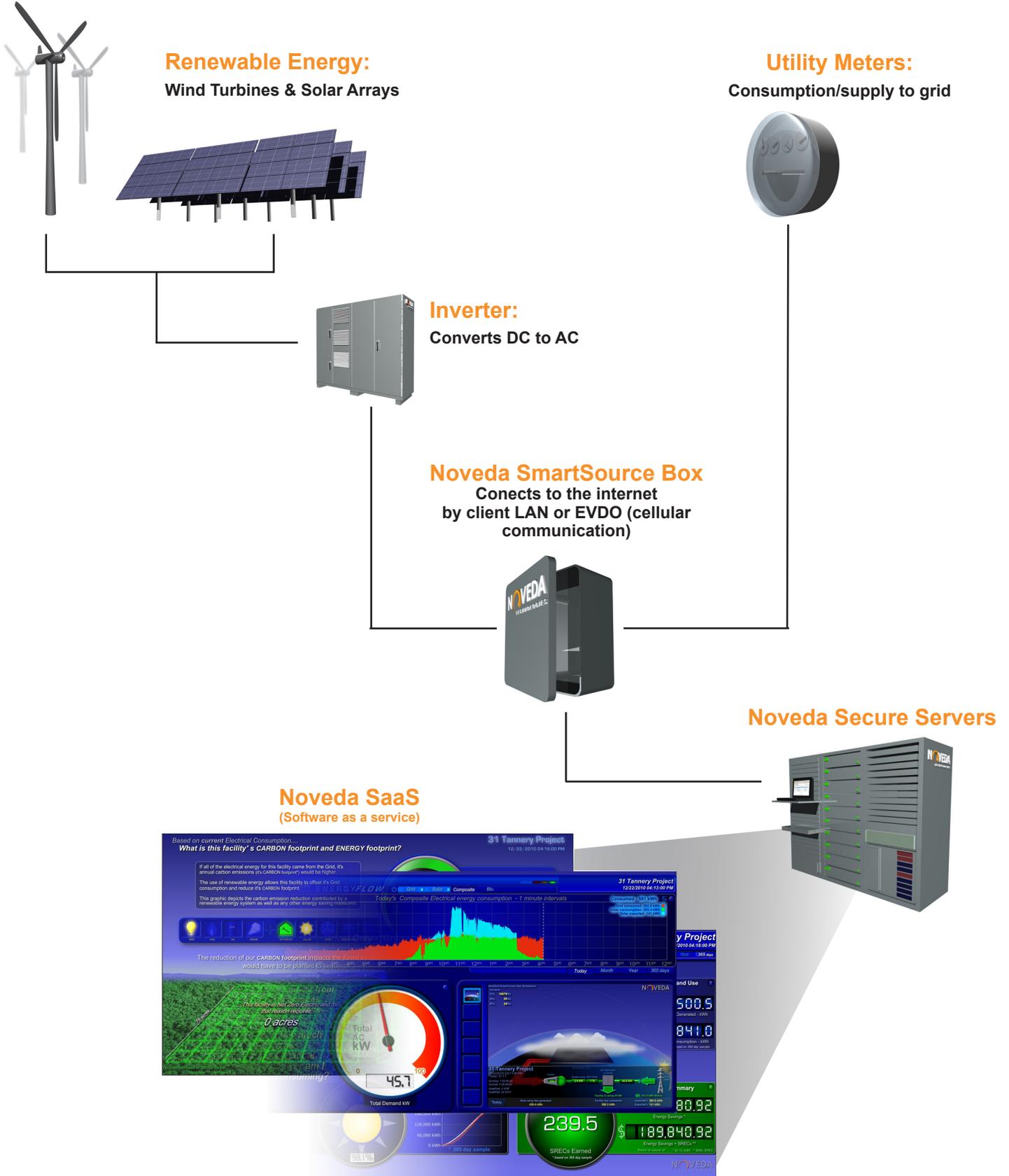
Real Benefits. In Real-Time.

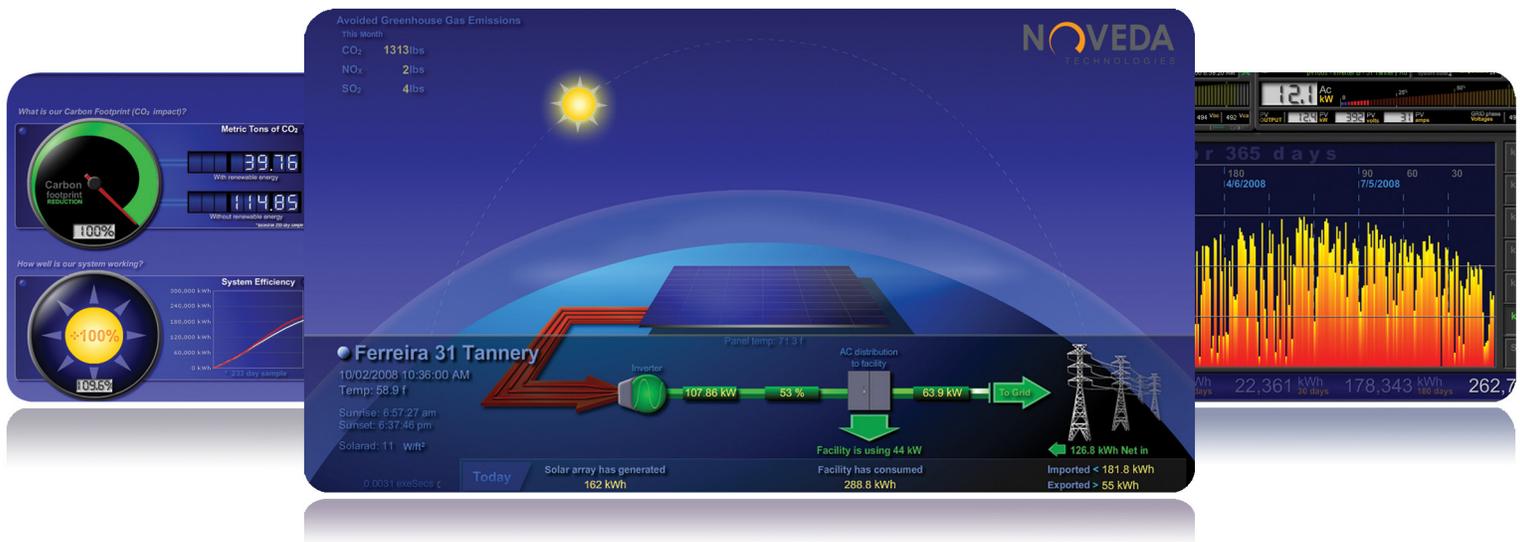
Key Features:

- Real-time information at 1 min intervals on renewable energy production, facility energy consumption, greenhouse gas generation
- Web based data storage with access to data from any web browser, anywhere, anytime
- Renewable energy credits (RECs) tracking and reporting
- Normalized system performance reports
- Automated billing information for power purchase agreement (PPA) providers
- In-depth data analytics with full export capability
- Data available from each inverter or the total system
- Data reported (& stored) with better than 1% accuracy at 1 min intervals
- String level monitoring
- Remote fault diagnosis and remote reset capabilities, which minimize O&M costs
- Customizable alerts and alarms
- 5 year limited warranty

Request a Free Demo

See for yourself how SunFlow Monitor® can help you to monitor and optimize performance of your renewable energy systems. email us today at sales@noveda.com





Product Contents:

Each SunFlow Monitor® application includes one or more Noveda Technologies Full Weather SmartSource Box (NTSB) and weather sensors depending on the configuration required by your specific application, 5 years of monitoring service and a limited 5 year warranty.

Noveda Technologies Full Weather SmartSource Box (NTSB)

- Electrical Supply: 120 VAC, 60Hz
220 VAC, 60Hz
220 VAC, 50Hz
- Internet Connection: LAN (cat5), Wireless Wi-Fi or Cellular EVDO
- Temperature: -20°C to +70°C
- Humidity: 0% - 95%
- Enclosure Size: Composite NEMA 4x Weatherproof
20"H x 16"W x 8"D
- Compliance: UL Listed

Bi-Directional Revenue Grade Meter

- Electrical Supply: Universal (90-400)V ac @ 50/60 Hz
- Measured Values: Volts, Amps, Watts, VAR, PF, Watt-hr, Frequency
- Range of Measure: Auto-ranging up to 416VAC L-N (721VAC L-L)
- Supported Hookups: 3 element wye, 2.5 element wye
2 element delta, 4 wire delta
- Accuracy: IEC 687 (0.2% Accuracy)
ANSI C12.20 (0.2% Accuracy)
- Current Inputs: 5A nominal, 1 A nominal
- Interface: Modbus RTU, Modbus TCP,
Pulse Interface

Note: Current transformers and voltage transducers must be ordered separately depending on the application.

Monitoring Specifications:

- Sample Rate: 1 min standard
10 sec in real-time
- Data collection: Generated/Consumed kW/kWh
Imported/Exported kW/kWh
Solar Radiance per sq. foot
Outside Air Temperature
Panel Temperature
Relative Humidity
Wind Speed/Wind Direction
- Data Server Storage: No Limit
- Local Data Storage: Up to 1 Month
- Data Connection: Ethernet 10Base-T, TCP/IP,
HTTP, HTTPS, XML, FTP
- Meter Connection: Modbus TCP CAT6
Modbus RTU shielded pair
- Access: Any standard web browser
Mobile WAP, Mobile Web
- Alerts: User customizable
Device outage
Network outage
Performance analytics
- Client Firewall: HTTP port 80 (or specified)
DHCP or static IP
- Analog Inputs: 8 channels
- Input Type: mV, V, mA
- Input Range: +-150 mV, +-500mV,
+- 5V, +-10V,
0-20mA, 4-20 mA