



Free solar inverter monitoring software

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Just as more consumers expect Bluetooth to come standard in cars, solar professionals expect monitoring to come standard with inverters. To stay competitive, manufacturers have responded with their own monitoring platforms, which have become an essential part of the value proposition for their residential and commercial solutions.

For solar professionals: Enlighten Manager streamlines O& M and allows users to manage multiple systems. Users can remotely diagnose and prioritize maintenance, view module-level performance, receive automatic emails when performance is affected and compare actual and modeled system performance.

For consumers: MyEnlighten lets homeowners track their energy use and production, monitor their systems' health and share their data with family and friends. The platform lets customers relate their solar investment to their utility bill by presenting information in kWh.

Both platforms integrate Enphase consumption metering and storage, making it easy for installers to assess systems. Enphase also offers a free Installer Toolkit app to help installers commission systems quickly and easily.

For solar professionals: Fronius Solar.web provides an overview of all systems under an installer's account. It provides remote diagnostics and alerts such as email notifications when inverters are underperforming. It also lets installers view state codes remotely to determine whether a truck roll is necessary. The ability to remotely update inverters further eliminates O& M complexity and cost.

For consumers: Fronius Solar.web also provides users with an overview of their system including features such as real-time and archived performance data, analysis of their energy consumption (with use of the Fronius Smart Meter) and more.

Installer insight: "We like the simplicity of Fronius Solar.web to set up and monitor our customers' facilities. We also like having the ability to log-in and run reports for specific time periods on a given facility. With the app, customers enjoy not having to go to a website and type in login information every time they want to check on their system to see how much power they are producing." -Derek Dykes, project manager at Green Street Solar in Delaware

For solar professionals: Sunny Portal provides central management for all customer and plant data. The installer can configure automated emails to provide the system owner with production reports or get automated error reports. Sunny Portal also offers module-level data when used with SMA's Power+ Solution, which includes its Sunny Boy US string inverter and Tigo power optimizers.



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For consumers: The solar installer can add access for the system owner to use the Sunny Portal. The owner will typically have user-level access, which means they will see the same information as the installer, but they cannot change settings or add users.

Installer insight: Sunny Portal can help customers identify a problem with their system before they get an unexpected electric bill. Customers have remarked that they like having the phone app to show friends and neighbors the energy their system is producing; Bryan Walsh, owner of Solar Connexion in Virginia

For solar professionals: SolarEdge's platform provides PV performance monitoring through fault detection and alerts at the module, string and system levels. The platform includes features such as analytics tracking and reports of energy yield, system uptime and financial performance and remote troubleshooting to minimize site visits. As soon as the system is connected to the monitoring platform, installers can also generate a commissioning report remotely or onsite to verify proper installation.

For consumers: System owners can view production and consumption. The installer is able to open the monitoring platform to system owners to include more features if requested.

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