Solar2You (S2Y) is a user-friendly, effective and complete monitoring system allowing, through a dedicated website, to monitor the performance and operating status of one or more photovoltaic plants. Thanks to the professional and reliable EdaLog Datalogger, the system detects in real time all the measures, the status indicators and alarms coming from the inverter and/or other devices (box strings, environmental sensors, energy meters,…), it records them and, through an internet connection (ADSL or 3G), it sends them in secure mode to Solar2You Server Farm. The data coming from the various plants, properly processed by the Server Farm, are made accessible in real time on the dedicated website. The user can log in the Customer Area of the website www.solar2you.it from any connected place or smartphone, to monitor all its systems by an unique dashboard.

Thanks to S2Y monitoring system you can minimize the economic damage caused by production interruptions and/or reductions. Alarms and information directly displayed on the website will warn, remotely and in real time, about any anomalies of the plant. This will allow the maintenance personnel to take prompt action to restore proper operation.
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**PLANTS OVERVIEW**
By such view the maintenance personnel can check the operating status of all monitored systems with a glance, by monitoring the alarms and the production compared to the estimated one. This section, customizable with your own logo, allows to search and arrange the set of plants according to several criteria such as: power plant, daily or monthly energy production, etc.

**PLANT SCHEME**
All devices (inverters, string boxes, meters, etc.) are shown in an overall view, in the technical scheme of the single system, available in the Real Time section. The scheme also allows to detect any problems of the monitored system, as well as to access to detailed data and daily measurements in order to detect and analyze the problem.
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REAL TIME
Through the Real Time section you can monitor in real time the correct operation of the system and analyze the performance of each part of the system: inverters, strings, energy meters, environmental sensors. Status indicators and measures concerning the last update are displayed, as well as some charts about plant performance in the instrument panel.
In case of faulty, the system automatically generates alarms, to be sent via email/SMS to the owner and the maintainer of the system for a timely intervention.

HISTORICAL DATA
Some reports, specially created, use data recorded over time by the system to perform detailed analyzes on the performance of each system.
For example, you can view: the energy produced compared with the estimated production; produced energy for every inverter; revenue related to the incentive; CO2 avoided; power trend, etc.
Historical data can be displayed, both in graphical and tabular, with different details: yearly, monthly, daily and hourly. Reports can also be exported in various formats (Excel, CSV).
CASE HISTORY: GRID DISTURBANCES

BEFORE
S2Y detected that, in a photovoltaic system, sudden changes in voltage over threshold were causing temporary inverter shutdowns thereby preventing the energy produced feed-in (power curve in blue and voltage curve in red). All this was causing a considerable loss of efficiency and money.

AFTER
The detailed analysis carried out by S2Y allowed to identify the cause of the problem and consequently to report the disservice to the distributor, with all the technical evidence attached. After the local distributor intervention on the grid, the plant is now functioning and fully efficient.

SOLAR2VIEW

Solar2View is the integration of S2Y system with video supports (LCD display, LED billboard, etc). It is the ideal solution for public administrations and private citizens wishing to give greater visibility to the results obtained from their own investment, also by integrating the main info with notices, images and advertisements. All information is accessible too on Android devices (smartphones, tablets, mini PC, etc.) by innovative APP.

INNOVATIVE FEATURES: HISTORICAL AND ZONE INDEX

ZONE INDEXES
Through them the maintainer can compare the performance of a system with those of other equipments installed in the same area. Thanks to these indicators, based on elaborate calculating, it is therefore possible to check the proper functioning of the single photovoltaic system even without knowing the local environmental conditions (irradiation, cell temperature, environmental temperature). Most populated is the sample in the reference zone, most significant will be the corresponding index.

HISTORICAL INDEXES
They allow a medium-term or long-term analysis about the inverter and the whole plant performance. (main indexes: system total efficiency; inverter conversion efficiency; PV array efficiency)
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**EDALOG DATALOGGER**

Industrial Embedded Computer low energy consuming, suitable to operate in both industrial and domestic environments. It is available in both Ethernet and 3G (integrated modem) and it can be installed on DIN rail inside switchboards. It interfaces to devices through RS485 and RS232 communication ports.

**GSM ANTENNA**

Dual Band 900 MHz / 1800 MHz 3dBi Omni Directional Magnetic Antenna GSM DCS Cellular Aerial.