

# Live Online Remote Monitoring for PHOTOVOLTAIC SYSTEMS



LONG TERM TRACKING AND PERFORMANCE ANALYSIS TO OPTIMISE UP TIME AND INCREASE MARGINS

## TECHNICAL INFORMATION

### MONITORING SYSTEM FEATURES

#### ▶ PV System Features

Acquisition of vital data such as: *FITs, power, energy production, solar radiation, solar panel temperature, air temperature and CO2 offset.*

#### ▶ Reliable and Efficient Data Backup, Access and Management System

- Information accessible on any web browser enabled device such as pc, laptop, mobile phone and public displays.
- Online management systems employing multiple levels of hierarchy over multiple sites and management of clients' access level all from a single portal.
- Daily backup of data on SAS70 Type-II certified data centre.
- Native iOS and Android App access.

#### ▶ Alerts and Controls for Monitoring

- Custom alerts and alarm conditions configuration, alerts emails and built-in alerts log-book.
- Global map installation monitoring, one simple view to see site location and status.

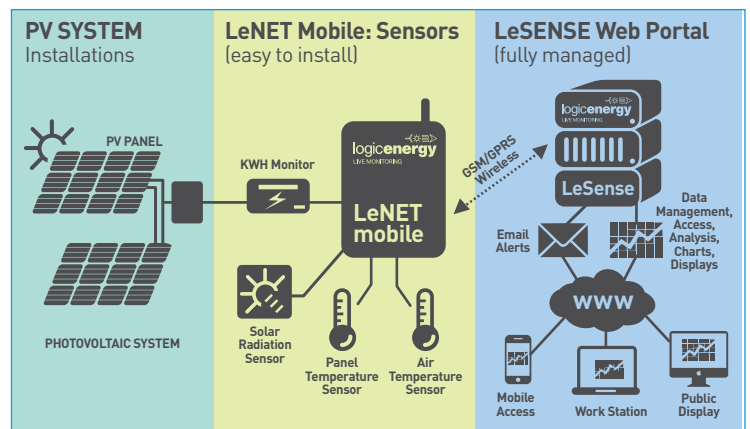


#### ▶ Advanced Tools for Graphing, Charting, Analysis, Report generation and Display

- Advanced graphing and charting reporting tools such as custom date/time period selection and average intervals.
- **Multi site and sensor comparison tools** for easy performance evaluation.
- **Solar radiation vs power** output for efficiency tracking.

#### LeNETmobile

LeNETmobile is connected to the PV system using kWh meter and optional sensors for advanced monitoring like solar radiation sensor and temperature sensors.



### SYSTEM REQUIREMENTS

<b>LeNETmobile</b>	Monitoring hardware, 10 minutes frequency updates.
<b>GSM/GPRS SIM</b>	Active m2m GPRS data SIM, 10MB per month (works worldwide on GSM networks).
<b>Power Supply Unit</b>	Mains or solar powered: 6Vdc to 12Vdc
<b>kWh Meter (energy meter)</b>	Standard Energy meter 1-phase/3-phase with pulse output. (Typically 1000 imp/kWh pulse rate for highest resolution).
<b>OPTIONAL SENSORS FOR ADVANCED MONITORING</b>	
<b>Solar Radiation Sensor</b>	Analogue pyranometer <b>Visit <a href="http://shop.logicenergy.com">shop.logicenergy.com</a> for detailed options.</b>
<b>Panel Temperature Sensor</b>	Analogue temperature sensor <b>Visit <a href="http://shop.logicenergy.com">shop.logicenergy.com</a> for detailed options.</b>
<b>Air Temperature Sensor</b>	Analogue temperature sensor <b>Visit <a href="http://shop.logicenergy.com">shop.logicenergy.com</a> for detailed options.</b>

[www.logicenergy.com](http://www.logicenergy.com)

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