

SOLAR-X

Monitor generation from renewable energy plants & get insights in real time with this remote monitoring solution

Overview

Solar-X offers proactive monitoring of system performance & guarantee smooth plant operation. It offers an integrated system of controllers & sensors by collecting data from sensors on photo voltaic panels to monitor their performance & provide real time insights to site management teams. It monitors real time generation from renewable energy plants of various vendors in distributed locations country-wide typically solar. The software monitors instantaneous electrical parameters on real time basis and also provides historical data views for analysis purpose.

As this a distributed system, the data from the generating sources are pushed to the cloud server using latest communication technologies such as GPRS, 3G, lease link etc. The monitoring service includes a complete graphical user interface (GUI) to represent all the monitored power generation parameters.

It has Intelligent Field Equipment with a unique connection channel for communication with the cloud server at data centre and is capable of automatically connecting to central server. This ensures hassle free field data transmission, event logging and remote field equipment configuration using the same dedicated unique communication channel.

Advantages:

- The application is purely web based and does not need any client installation as it requires only web browser to work. Users can securely access system from anywhere using Internet.
- provides historical data views for analysis purpose.
- accessible, flexible and secure
- capable of resuming the communication from the last point in case of interruption.

Features:



**Real-time Data
management**



**Easily accessible
& secure**



Flexible



Alert management

Real-time Data management

- It provides information on Electrical Generation data such as daily generation, average power factor, voltage, current, kWh, frequency, irradiance, peak power etc.
- Enables user to see the data from date of installation till present.
- Provides logs & graphs of monitored power parameters in a downloadable excel, Word, PDF or CSV format
- Energy Generation in kWh: Ability to show the cumulative kWh values for different locations, for any time interval selected.
- Net Import/Export :The Dashboard shows the Net Import/Export of Energy over the period selected
- The Web Based Application Software and Services provides tabular as well as graphical reports on various intervals.

Easily accessible & secure

- Easily accessible through secure password protected web portal.
- The application is purely web based and does not need any client installation as it requires only web browser to work
- In case of interruption in the communication, the Intelligent Field Equipment is capable of resuming the communication from the last point.

Flexible

- Create customized reports as per specific needs.
- The Application is modular and scalable so that it can at a later date be integrated into an integrated large scale Information Management System.

Alerts management

- The Web Based Application generates notifications/alerts and communicate via SMS and E-mails.