



A monitoring system is an essential part of a PV plant. A monitoring system allows the yield of the plant to be monitored and compared with theoretical calculations and raise warnings on a daily basis if there is a performance shortfall. Faults can therefore be detected and rectified before they have an appreciable effect on production. Without a reliable monitoring system it can take many months for a poorly performing plant to be identified. This can lead to unnecessary revenue loss. The key to a reliable monitoring and fault detection methodology is to have good simultaneous measurements of the environmental conditions and plant power output.

In large-scale solar PV power plants, voltage and current will typically be monitored at the inverter. Monitoring at the inverter level is the least complex system to install.

OUR OFFERING

Digital Reach provides complete IoT gateway / controllers from data acquisition, transmission (3G/LTE/Wi-Fi) and computing in order to help our customers use intelligent systems using our extensive resources. Customers can focus on their smart applications with minimal system integration effort. Our solution offerings & services are fully compatible with most of the applications and provide all the components customers need for building an intelligent system.

FEATURES

- ⇒ Advanced detection of abnormal conditions
- ⇒ Provides 24/7 access to current operational data, trends, alarm history and messaging from a central location or remotely
- ⇒ Flexible, scalable architecture by using IoT gateway
- ⇒ Easily installed on new or legacy transformers from any manufacturer.

BENEFITS

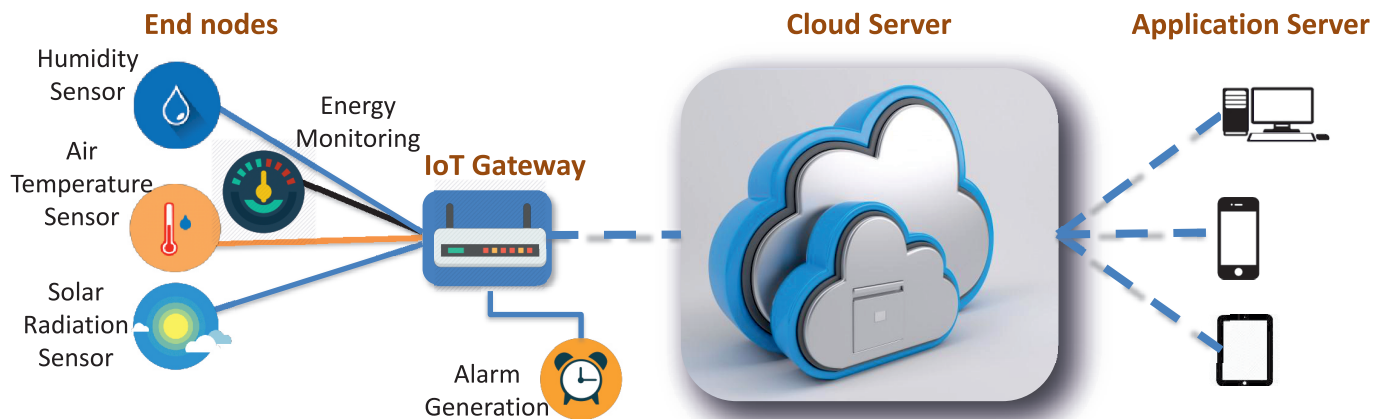
⇒ Operations management:

The performance management (either onsite or remote) of the solar PV power plant to enable the monitoring of inverters or strings at the combiner box level.

⇒ Alarm management:

Flagging any element of the power plant that falls outside pre-determined performance bands. Failure or error messages can be automatically generated and sent to the power plant service team via email or text message.

Solar Monitoring



REPORTING

- The generation of yield reports detailing individual component performance, and benchmarking the reports against those of other components or locations.
- Energy from PV, measured using an accumulative DC energy meter, if the charge controller displays incoming energy from PV.
- Energy to AC load, measured using an accumulative AC energy meter, if the inverter is displaying energy going to AC load, this value can possibly be used.
- Energy to DC load, measured using an accumulative DC energy meter, if the charge controller displays energy going to DC load, this value can possibly be used.

ABOUT US

Digital Reach is an IoT based solution company. We are experts in combining technical knowledge and insights from our extensive experience in the field to create Internet of Things (IoT) solutions, with our strong focus on innovation and integration with customer domain expertise. We create monitoring and control products and solutions that improve processes and services for our customers.

With our expertise is in embedded hardware development, embedded software development, system integration and project execution, in everything we do, we apply our values of respect and honesty through a commitment to teamwork and a high degree of responsibility to our customers, not only to satisfy but also to exceed our customer's expectations.



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