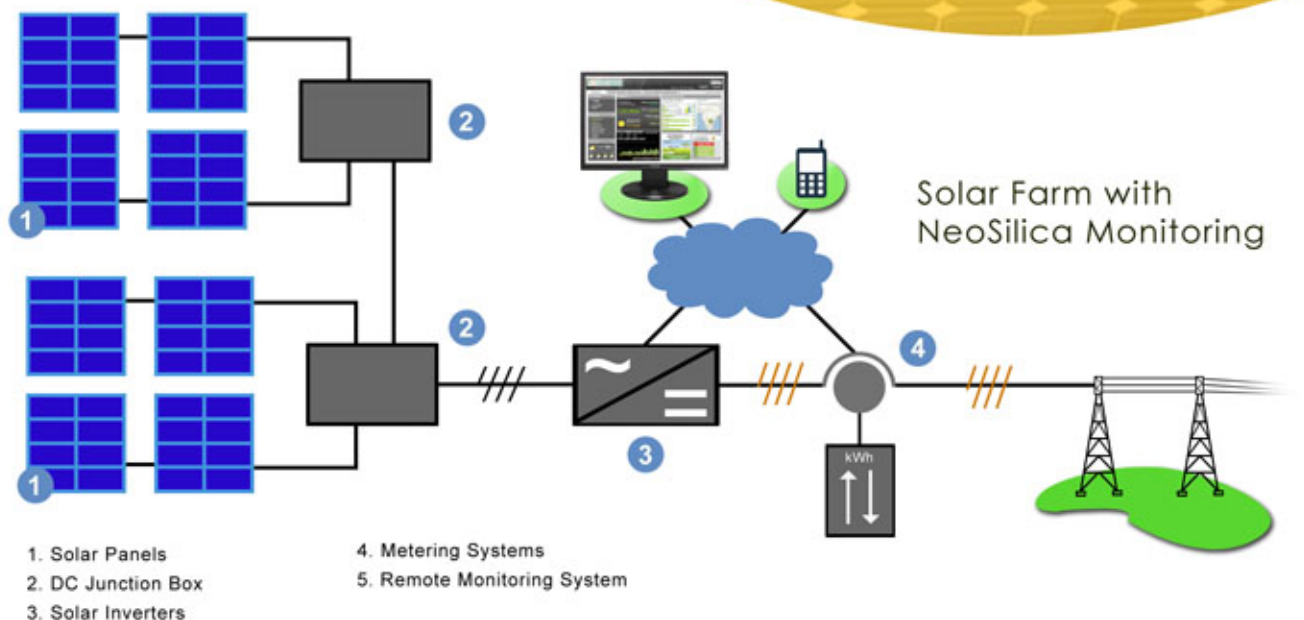


## Solutions for Renewable | Green | Energy Conservation



## Also Energy Management Solutions for Buildings & Campuses

**Commercial | Government | Townships | Utilities**



## NeoSilica Monitoring Solutions for Solar Power Plants

Power Plant owners are under constant pressure to 'ensure a predictable level' of 'Output' from their plants. In the case of Solar Power Plants, in countries like India, solar energy is abundant, but without historical data, it is difficult to predict energy output accurately. Add to that the new technologies that are deployed in remote locations and their maintenance issues.

Power Plant owners and managers need - a complete and comprehensive "monitoring solution", (accessible from anywhere and anytime) to be able to – a) *know what is produced in real time*, b) *have detailed analytics to understand if the power generated is 'as expected/designed'*, c) *know any issues with field equipment and correct*, d) *(at the end) predict the power generated with increased certainty*.



## NeoSilica provides continuous 24x7 monitoring of:

### Plant Running Status with SMS/email alerts on low generation or any malfunction

- Power generation at plant, sub-plant, string or module level
- Energy exported to the Grid
- Environment – ambient temperature, irradiation & wind speed
- Equipment Health Monitoring - inverters, grid equipment and modules
- Detailed Reports and Graphs in near real time for Remote Monitoring
- Compliance Reports - As per MNRE, IREDA or local utility guidelines
- Plant Performance - generation performance, Carbon credits, uptime & efficiency

NeoSilica Provides monitoring solutions for Wind Power Plants as well

### NeoSilica Monitoring solutions are:

**Comprehensive**

**Highly Flexible**

**Adaptable to Customer Needs**

**Compliant with MNRE, IREDA**

**Extensible as Micro-Grid**

**with Integrated Load Management**



If the Power Plant supplies to a local area, NeoSilica extends into a micro-grid with its Energy Management features

- Monitor energy usage in real time at meter or device level
- Monitor temperature and occupancy in different zones

Control Energy Usage

- Schedule device on/off times, or modify settings as per actual usage needs and available energy output from local & grid
- Enable conservation policies to reduce usage during peak times

### ABOUT NEOSILICA

Energy Solutions for Smart Grid | Integrated with Utilities

NeoSilica is founded by IT and Electronics industry veterans, with decades of experience across global organizations, in US, Europe, Japan, China and India. NeoSilica serves a broad range of customers – large to medium enterprises, utilities, service providers, and government and consumer markets. NeoSilica is active in industrial organizations and special interest groups in the fields of Cleantech, Green/Clean, Network Security, Embedded Systems, SOA, etc. NeoSilica is tied into senior expertise in Cleantech space in US and India.