INTEGRATED PLANT LEVEL CONTROL SYSTEM
GE’s SunIQ system is an integrated plant level monitoring and control platform designed to bring together real-time plant-wide data visualization, data analysis, and troubleshooting with plant level operational control to enhance grid integration of solar.

SUITABLE FOR LV5/LV5+ SERIES SOLAR INVERTERS
GE’s LV5 and LV5+ solar inverters come enabled for GE’s SunIQ monitoring and control technology.

IMPROVING SOLAR FARM EFFICIENCY
SunIQ is a reliable plant level control platform that includes the modern networks, software tools, and diagnostics needed to increase system availability.

FEATURES AND BENEFITS

Plant Monitoring
GE’s Solar SCADA application provides a broad set of intuitive tools for a secure, real-time view of a solar plant’s operation and maintenance. The web-based application allows for evaluation of plant performance using real-time and historical data to diagnose performance variation more quickly, enabling rapid fault resolution. A range of supervisory control functions allows operators to remotely command plant set-points.

Plant Control
The SunIQ system includes a plant level controller that coordinates behaviour of multiple inverters, thus enhancing the grid integration capabilities. The system controls reactive power supply (KVAR) to the grid, regulating system voltage and stabilizing weak grids. The system is also capable of regulating active power (kW), providing the grid operator with the ability to curtail kW output as well as control frequency droop and ramp rate. The system can be accessed either locally or remotely via the plant monitoring system or through analogue/digital I/O.

SunIQ is supplied in an indoor enclosure as standard with options for plant control only and remote service only.

Get connected
• SunIQ integrates GE’s Visor product enabling secure connection back to base for remote support and Predix based analytics.

Get insights into your plant’s operations
• Real-time data visualization of the plant
• User configurable dashboards
• Industry standard interfaces for data access
• Reporting based on historical data in SQL database

Helps to optimize operational efficiency
• Alarm notification via e-mail/SMS
• Remote troubleshooting of plant assets
• Enabled for Predix analytics

Can operate similar to conventional power plant
• Voltage/PF control: Regulates VARs, reduces voltage variations at point of interconnect (POI)
• Power curtailment: Regulates active power at the POI
• Over frequency droop: Reduces active power in response to frequency increase
• Ramp rate control: Controls MW/sec of generation change
• Start-up/shutdown: Avoids addition or removal of large blocks of power into/out of the grid at once
Plant Level Control System
For utility scale PV solar farms

By integrating our monitoring and control system into your solar power plant, you can meet many emerging grid code requirements related to a solar plant’s response.