

SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEMS FOR SOLAR PV PLANTS



IRP SCADA



Power Plant Controller



Remote Monitoring System



Weather Sensors

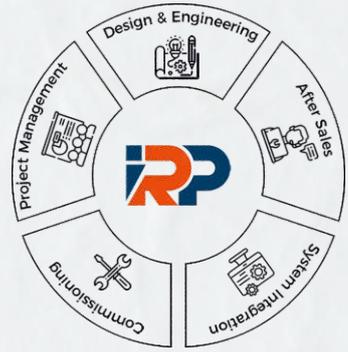


Data Logger



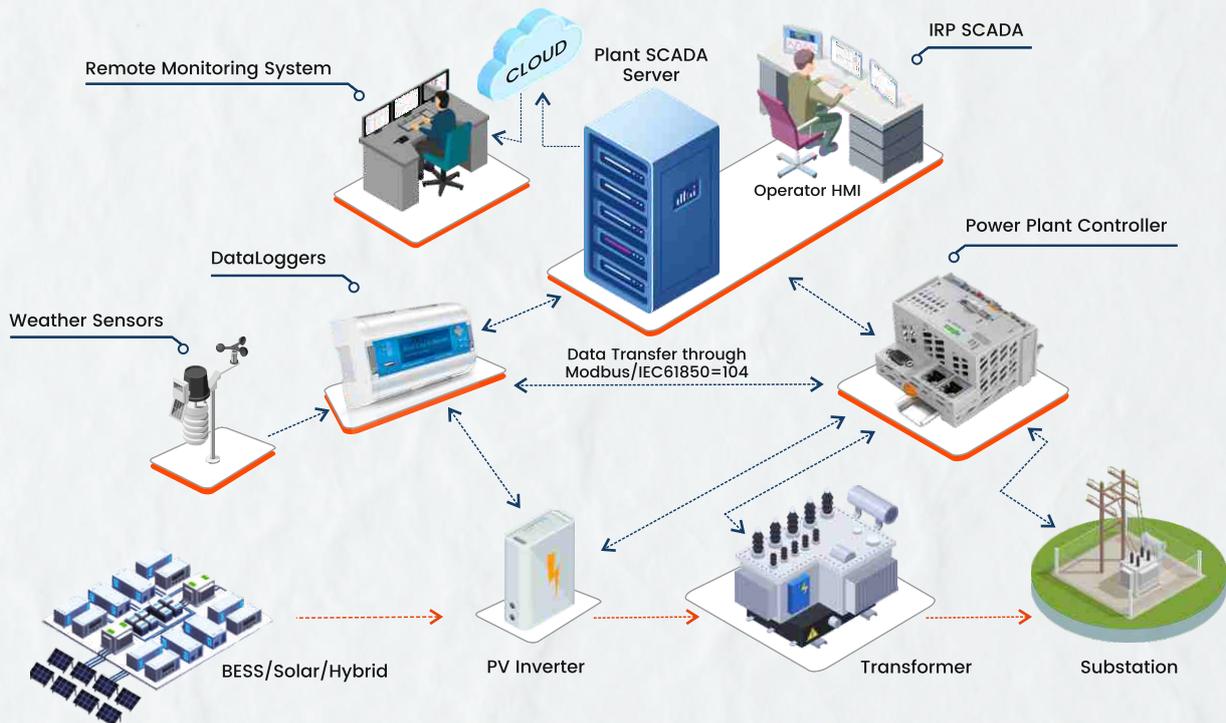
About Us

We are leading Provider of Integrated SCADA & Automation solutions for solar power plant. From detailed engineering and design to timely commissioning and after-sales support, we offer a comprehensive hardware and software solution for solar plant monitoring ensuring customer satisfaction.



Solar/BESS/ Hybrid SCADA & Automation Solutions

PV power facilities have technical operation management on-site, thanks to our SCADA system. All measured values are displayed locally and instantly. You can respond swiftly and effectively in the case of a malfunction. A clever alarm management system, power flow diagrams, and high-quality analysis are offered for this purpose. Actuators, programmable logic controllers, and data loggers can all be accessed through interfaces on the system. As soon as you activate actuators in the SCADA Center, you receive visual status feedback.



Weather Sensors

- Pyranometers (SMP10/12) , Irradiance & Temperature Sensors (Module & Ambient)
- Compact Weather Station: Temperature, relative humidity, precipitation intensity , its nature and type, air pressure, wind direction, and wind speed are all measured by this small, multipurpose weather sensor.



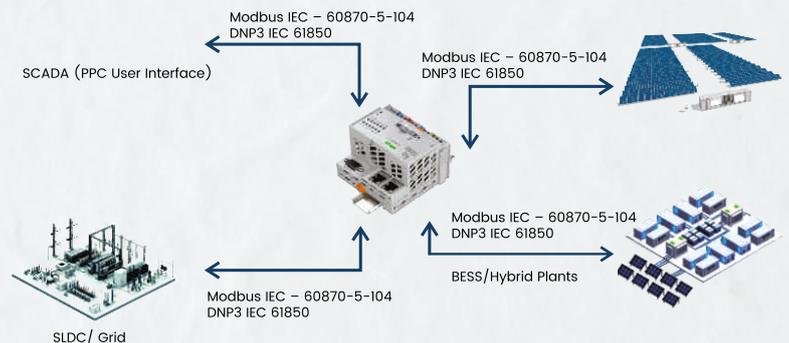
IRP SCADA/EMS

- Real Time Monitoring with high-resolution live values.
- Alerts makes it possible to promptly identify errors.
- Power flow diagram: from the medium/high voltage connector to the string level.
- Equipment's Communication Interfacing with Intuitive SLD via wide variety of interfaces (IEC 60870, IEC 61850, DNP3, OPC, etc.).
- Plant Control enabling feedback-equipped actuators.
- High Data Availability with on premise industrial Servers for long term data storage.
- Data Redundancy with on premise backup servers.
- Customizable & Adaptable as per project specifications and customer needs.
- Remote Operations through Web Clients.



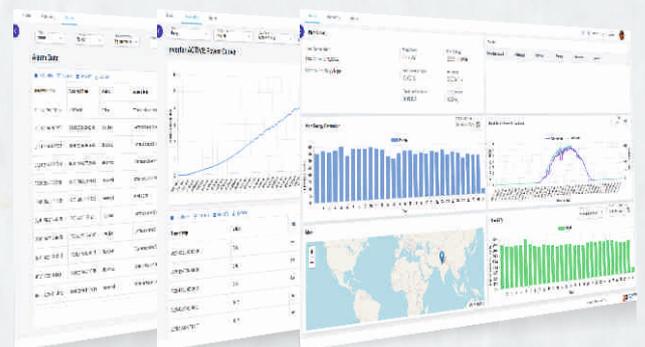
Power Plant Controller

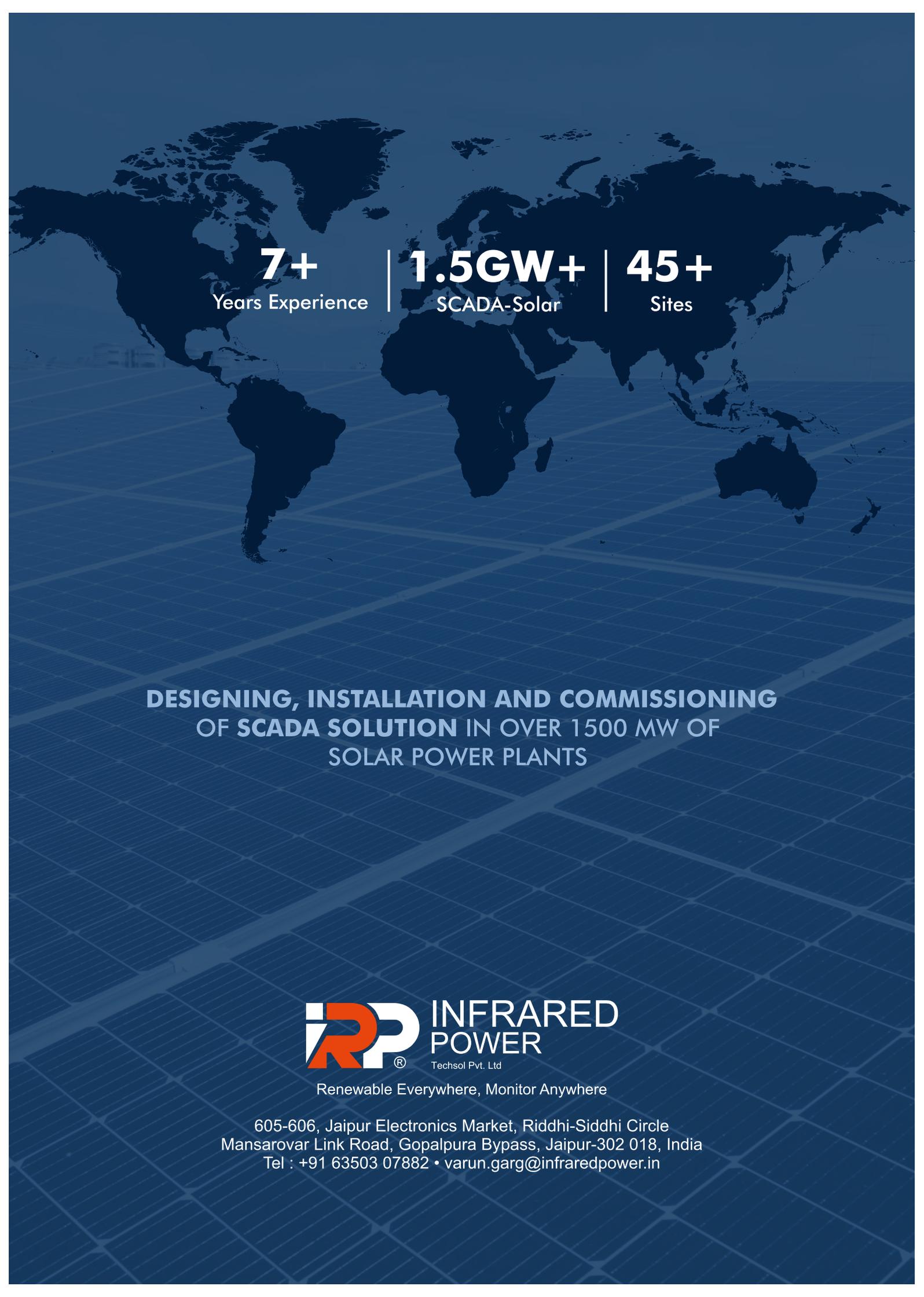
- Applications in Solar/BESS/Hybrid, featured with
 - ✓ P, Q, PF, V, F Control
 - ✓ Droop Control/Load Sharing
 - ✓ Grid Form/ Ancillary Support
 - ✓ Scheduled Charge/Discharge
 - ✓ Zero Feed-In*
- Controller with above features
 - ✓ Enhance Grid Dependability
 - ✓ Maintains Plant Stability
 - ✓ Avoid Grid Disruptions
 - ✓ Preserves Voltage Stability
- Fast Response & Execution by stabilizing the parameter within few seconds as per Inverters capability



IRP RMS

- Entire portfolio at one place
- Web based User Interface with Multiple User access
- Home Page/Dashboard for quick Alerts overview, Major KPIs, Production and Plant details
- Analysis for graphical representation as operator defines.
- Alerts through Email
- Reporting with CSV Export of all measurement data
- High Data Availability & Resolution
- Device OEM Independent





7+
Years Experience

1.5GW+
SCADA-Solar

45+
Sites

**DESIGNING, INSTALLATION AND COMMISSIONING
OF SCADA SOLUTION IN OVER 1500 MW OF
SOLAR POWER PLANTS**



**INFRARED
POWER**

Techsol Pvt. Ltd

Renewable Everywhere, Monitor Anywhere

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