

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



IRP SCADA



Power Plant Controller



Remote Monitoring System



Weather Sensors



Data Logger



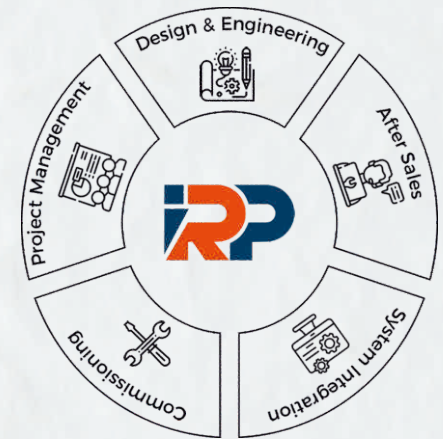
**INFRARED  
POWER**

Techsol Pvt. Ltd

Renewable Everywhere, Monitor Anywhere

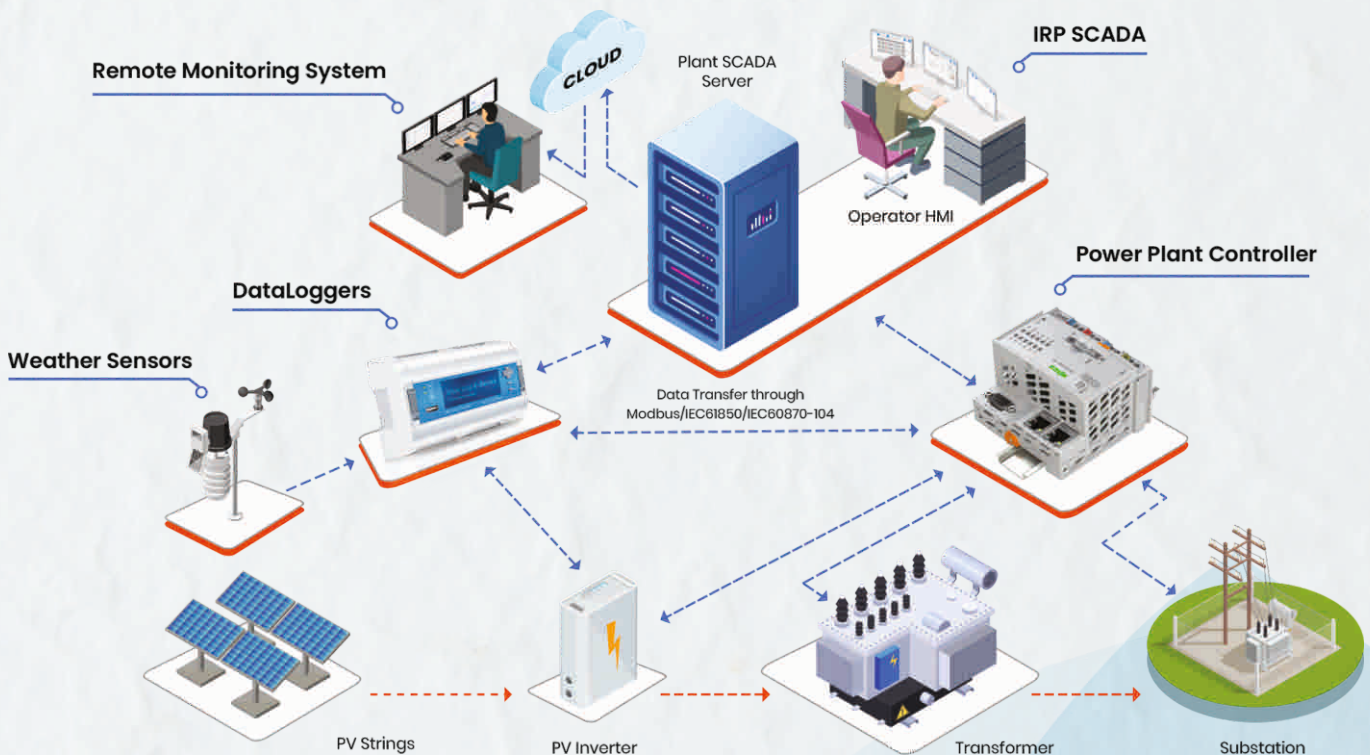
## About Us

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 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



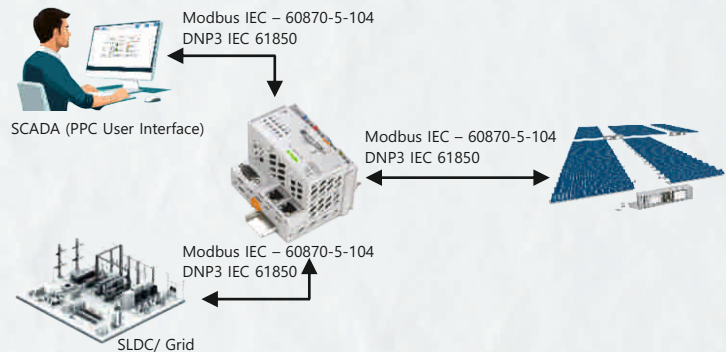
## IRP SCADA

- 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.



## Power Plant Controller

- Controller with Active Power Control , Reactive Power Control , Frequency Control & Voltage Control
  - 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.



## Weather Sensors

- Pyranometers ( SMP10/12) , Irradiance & Temperature Sensors (Module & Ambient)
- Wind Speed and Direction Sensors
- 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





**5+**  
Years Experience

**1.5GW+**  
SCADA-Solar

**45+**  
Sites

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



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