

# P V Solar Generation and EPC

## Client Profile

The client is a globally recognized solar energy solutions provider, specializing in high efficiency PV module manufacturing and comprehensive EPC solutions. With international presence in more than 32 countries, they are an active contributor in shaping the solar revolution across continents. The company has a manufacturing capacity of 500 MW, installed capacity in excess of 100 MW and another 300 MW under execution

## Problem Statement

Centralised monitoring and accurate reporting is critical to all Solar operations. With the commercial contracts tightly linked to effective outputs such Performance Ratio, Plant Load Factor and Capacity Utilisation Factor, it's imperative that performance and operations data from various field devices must be collected on real time basis, archived in a structured database and must be available for retrieval and analysis for a host of users on demand.

This requirement poses a unique challenge cum opportunity for the technology integrators as it requires a complex integration of Industrial Control and Information Technology platforms. Our client too had the same set of requirements and that too further appended by the various requirements of their customers for whom they execute Projects and O&M contracts

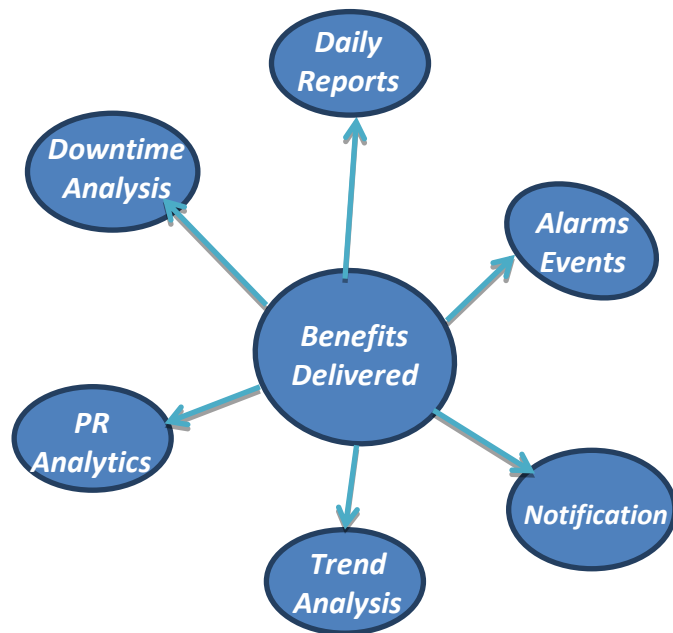


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## Solution Landscape

Greenwave's integrated PV Solar SCADA framework consists of a unified model of Data Logging and Control Hardware, Secured Network Platforms, Optimally sized Servers, Database and Efficient SCADA and Analytics Platform. Greenwave implemented a scalable and easy to implement Factory Model architecture. Greenwave's PV Solar SCADA application and code library made implementations possible in record time and thus facilitating faster go-live and revenue recognition.

### Technology Snapshot

- Rockwell Micro 850 RTU & CompactLogix PLC
- Rockwell Factory Talk View SCADA
- Rockwell FactoryTalk View Point
- Rockwell FactoryTalk Vantage Point Enterprise MI Platform
- Point to Multi Point Wireless System
- Perimeter Security