

Monitoring System for a solar park with 20MWp

Abstract

The aim is annual production of about 1.5 Million kWh/year of electrical power produced in an environmentally friendly way at Charanka in the Indian state of Gujarat. The project, a part of the Gujarat State Solar Policy is developed and commissioned by companies located away from the site. In order to facilitate their monitoring of the park, a remote monitoring system from iPLON which reports yield, errors and failures is employed.

Partners : Kiran Energy Solar Power Private Ltd, Larsen & Toubro, iPLON

Outline

Total Power	20MWp (DC)
PV Modules Manufacturer	Sharp, Japan
Panel Type	Amorphous Silicon
Panel Count	156,250
Module Wattage	128Wp
Inverter Type	Sharp (270kW – 70 numbers)
Inverter Topology	Central
Junction Boxes	Trinity Touch

Highlights of iPLON System

- Local Monitoring System / SCADA
- 60 Input – Output points
- 1500 Datapoints
- 11 iATs, 1 iMT
- GPRS
- Power Back-up
- Fiber Optics
- Data averaging every 15 minutes



Important Notes

19/09/12 Version 1.0 Subject to alterations

