



Solar GRID CONNECT Power System at GPCB

Gujarat Pollution Control Board, An office for the Environmental precautions, is now home to another significant facility that merits the title “largest” – Gujarat’s largest solar roof top photovoltaic power plant on Government Office building and providing over 80 megawatts of electricity.

This innovative project showcases a unique public-private sector partnership using technology from Topsun Energy limited and GEDA with minimal Investment from GPCB.

The GPCB Base solar power system, designed built by Topsun Energy limited will meet an average of 100% of the electricity requirements at the office, where around 250 people work, using the Topsun 230 WP modules with single-axis solar tracking system to maximize solar electrical generation by following the path of the sun.

Equally innovative is the technology & methodology Topsun has adopted for this project. The generated power will be feed back to the Torrent Power AEC limited. This project is a landmark for the Gujarat state Solar Policy.



The solar project on the roof of Gujarat Pollution control Board demonstrates the aggressive response to the Energy Policy and *Strengthening Environmental, Energy, and Transportation Management*. This solar power plant places GPCB at the forefront of energy conservation and renewable energy initiatives. The solar power system will reduce CO2 emissions by more than 80 tons annually, equivalent to planting 8,000 trees or removing Appx 2000 cars from the roadways.

The GPCB based solar Power System supports the proud traditions of the Gujarat Pollution Control Board & Topsun Energy Limited in helping lead the way to a better future.

Project Information

Project surface area: 1200 Sq Mtrs

Solar plant capacity: 80 Kilowatts

Date of completion: March 2011

Annual energy output: 80 MW

Length of construction: 4 weeks

Number of workers: 15

Technical Specifications:

Topsun Solar Modules – 230 Wp

Number of Modules: 360

Number of solar cells: 21,600

Number of watts per panel: 230

Number of inverters: Central Inverter 100 KW

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Project Partners

Energy Purchaser and Site Host:
Gujarat Pollution control Boards

Utility:
Torrent Power Limited

Project Initiator:
Gujarat Energy Development Agency

Solar System Designer & Integrator:
Topsun Energy limited
B-101, Electronics Estate,
Sector – 25,
Gandhinagar, Gujarat

Solar Panel Manufacturers:
Topsun Energy Limited

Inverter Manufacturer:
REFU Sol GmbH

Data Acquisition System:
Online Data Monitoring Through
Internet