



**RADIANT
SOLAR**



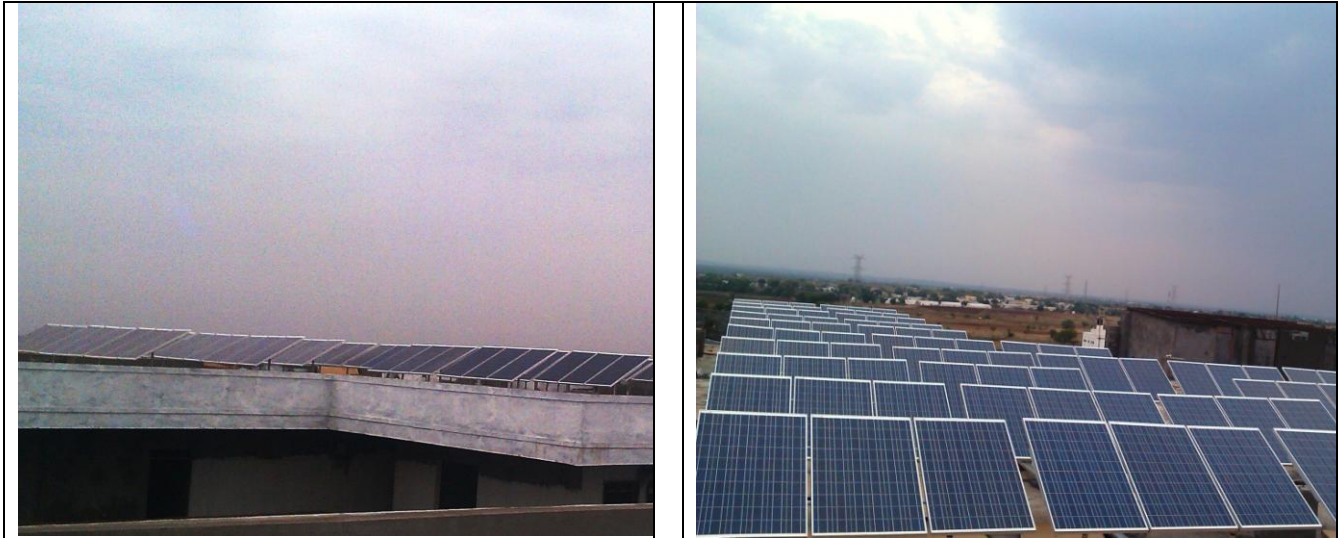
Green energy for life

RADIANT SOLAR



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Accreditation by Ministry of New and Renewable Energy of Government of India (MNRE) as authorized Channel Partner for Off grid, decentralized solar applications and Grid Connected Rooftop Solar Power Plants



A CASE STUDY OF 25kW SOLAR INSTALLATION AT SAGAR GROUP OF EDUCATIONAL INSTITUTIONS, HYDERABAD



- Approved Empanelment Agency under ANERT 10,000 Home Projects in Kerala
- Second largest installer for ANERT 10,000 Home Projects in Kerala
- Radiant Solar – A company consisting of 90% Engineers
- We know it, we understand it
- Radiant Solar allows you to be free from all procedural whirlpools after placing the order
- From installation to subsidy Radiant does it all

Introduction

Sagar Group of Educational Institutions located at Urella Road, Chevella, Hyderabad, is a well known Engineering College in Andhra Pradesh. They are dedicated to provide world class platform for education, research and knowledge creation in Engineering & Technology and create global leaders in technical areas for ensuring environment friendly development needed for the society.



The Challenges

Sagar Group of Educational Institutions was facing the following major challenges:

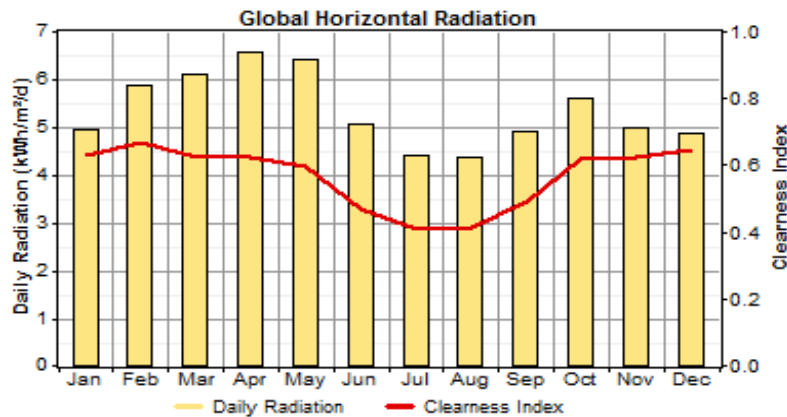
- Continuously increasing Electricity Bills
- High average monthly electricity consumption
- Frequent Power cuts
- Increasing Diesel Consumption
- Increasing rates of Diesel
- Number of working hours lost due to power breakdown

The average monthly electricity consumption of Sagar Group of Educational Institutions is 3,966 units. Due to continuous power interruption, increase in demand for the power supply and the shortage of power generation Sagar Group of Educational Institutions decide to Go Green with Radiant Solar Private Limited.

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The average annual solar insolation at the location is 5.34kWh/m²/day and the Sagar installation is designed to generate around 87 units of electricity per day and 31,773 units of electricity per year as per the average annual solar insolation.



Radiant's Solution

After multiple exhaustive site visits and meticulous study of load pattern, analyzing the current electricity charges, energy consumption pattern of the College, capacity of load for which backup is to provided , we have proposed a 25kW Grid interactive Solar Power Plant using 25kW Leonics make grid interactive inverter with 19.32kWp polycrystalline solar modules along with battery bank to provide backup.

The proposed Interactive Grid tie solar power systems use solar modules to convert solar energy into electrical energy. Solar regulators, which are also known as solar charge controllers, regulate the solar module's charging current before it is stored in banks of specially designed batteries.

Project Details

Technical Details

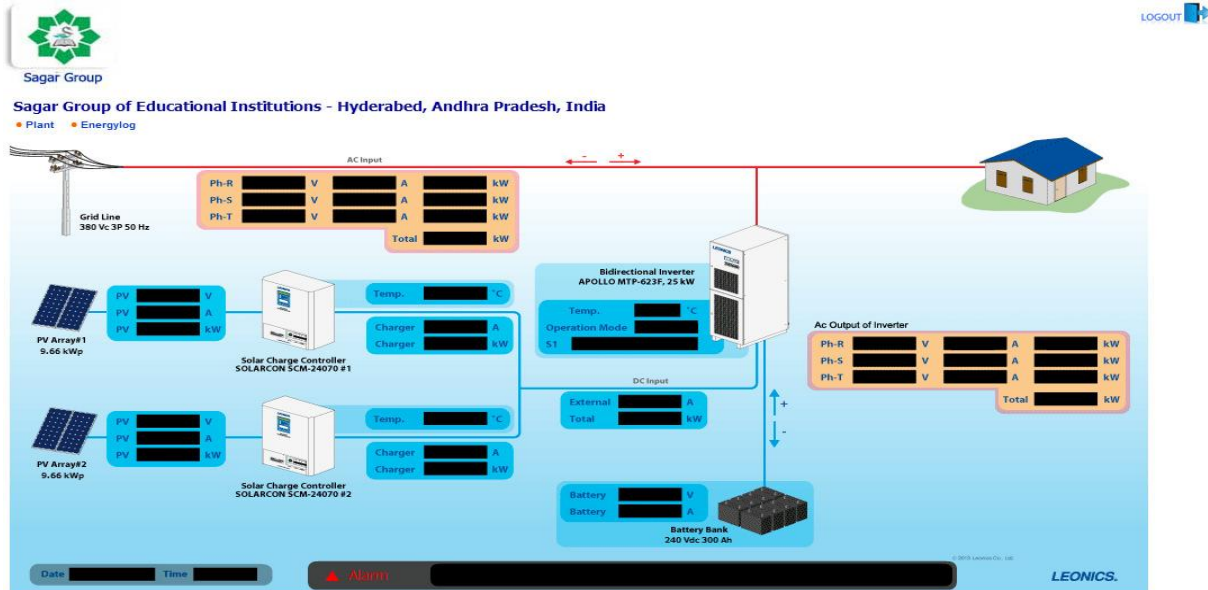
Capacity of Power Plant	25kW
Type	Grid interactive with battery backup
Inverter	Imported Leonics make 25kW Grid Interactive Inverter
Charge Controller	Imported Leonics make 240V 70A – 2 numbers
Modules	19.32kWp Polycrystalline Modules
Battery Bank	240V 300Ah Tubular VRLA GEL
Annual Energy Generation	31,773/annum

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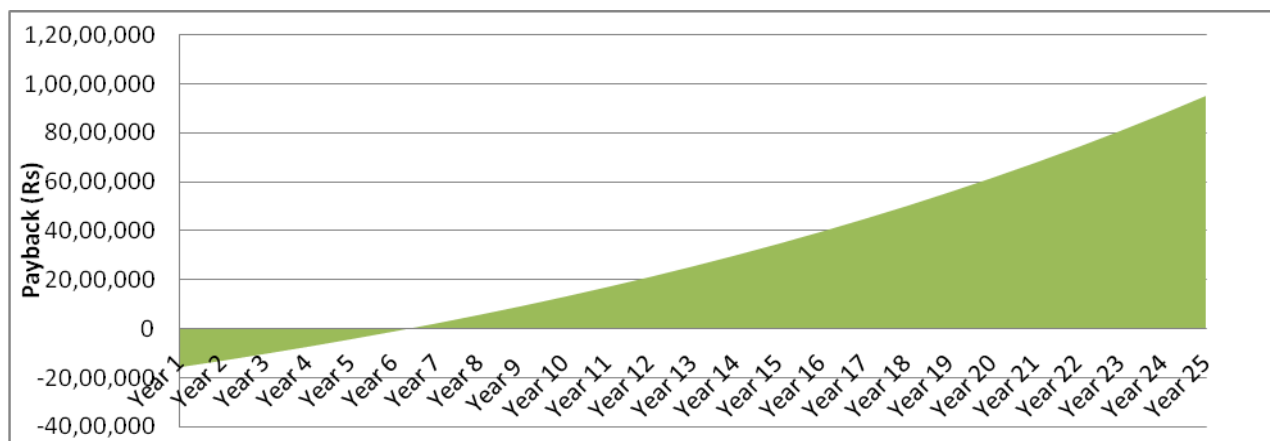
Remote Monitoring

We have provided Remote Monitoring facility at Sagar installation to provide 24x7 monitoring facility. Any issue in the solar power plant is easily detected through this monitoring facility. This monitoring helps us to know about the energy generation by the power plant.



Return On Investment

The Return on Investment for this power plant was one of the attractive and persuasive features. Based on an average of 87 Units of power generated per day for a 25kW system, and factoring in various other parameters the system has a rapid return on investment of 6 years.



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Subsidy

- Under the Jawaharlal Nehru National Solar Mission (JNNSM), the Ministry of New and Renewable Energy (MNRE) Sagar College was eligible for Rs. 60/Wp.
- Radiant has done all the documentation and approached NREDCAP for subsidy

Service & Maintenance

- Radiant Solar warranted the solar power system to be free from manufacturing defects for Five year from the date of commissioning as per MNRE guide lines.
- Any Service Call is handled within 24 hours

The solar power plant is installed keeping in mind all the MNRE guidelines and quality standard. The system performance and operation is smooth and satisfactory till date.

From Mr. S S Singh, Chief Operating Officer

“M/S Radiant Solar Private Limited , located at Plot No. 15, Fabcity SEZ, Raviryal Village, Maheswaram Mandalam, RR Dist, Hyderabad - 501 510, have successfully installed the 19.32kWp Solar Power Plant at our Campus in Chevella , Hyderabad . The Plant is functioning well and the output is as designed and agreed upon. We are satisfied with the work carried out by M/s Radiant Solar Pvt Ltd., and appreciate the commendable work done by their team for their meticulous planning and timely execution of the project.

We wish them success in their future endeavors.”

Call us now for more information +91-8414-392602/603/604

Radiant Solar Pvt. Ltd.
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Web: <http://www.radiantsolar.us>
Email: info@radiantsolar.us Maheswaram (M)
R.R dist, Hyderabad – 501510. A.P

To know more about Radiant Solar, visit us at www.radiantsolar.us

Catch us live at: <http://www.youtube.com/watch?v=JW3K8JbdCII&feature=youtube>

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