

NAAC Criterion 7: Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.3: The Institution has facilities for alternate sources of energy and energy conservation devices





PES Institute of Medical Sciences & Research

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Facilities for alternate sources of energy and energy conservation measures



PES INSTITUTE OF MEDICAL SCIENCES AND RESEARCH

7.1.3: Energy Conservation Measures

As part of our commitment to sustainability and environmental stewardship, our institution has implemented several energy conservation measures. These initiatives align with our mission to reduce our carbon footprint and promote the efficient use of resources in our operations. Given our location in a rural area, we have tailored our energy conservation strategies to be inclusive and accessible to all members of our community.

Energy-Efficient Infrastructure:

1. **LED Lighting:** We have replaced conventional lighting systems with energy-efficient LED bulbs across the campus, resulting in a significant reduction in electricity consumption. This transition has not only lowered our energy bills but also reduced the frequency of bulb replacements, minimizing maintenance costs.
2. **Solar Power Utilization:** To harness renewable energy, we have installed solar panels on the rooftops of key buildings. These panels contribute a substantial portion of our electricity needs, particularly in powering administrative offices and common areas. The adoption of solar energy also serves as an educational tool for our students, emphasizing the importance of renewable resources.
3. **Energy-Efficient HVAC Systems:** The institution has upgraded its heating, ventilation, and air conditioning (HVAC) systems to more energy-efficient models. These systems are equipped with smart controls that optimize energy usage based on occupancy and weather conditions.

Behavioural and Cultural Initiatives:

1. **Awareness Campaigns:** PESIMSR conducts regular awareness programs to educate students, faculty, and staff on energy conservation practices. These campaigns remind everyone of the small steps they can take to conserve energy, such as turning off lights and electronic devices when not in use.
2. **Green Practices in Residences:** In our student and staff residences, we have introduced guidelines for reducing energy consumption, including the use of energy-efficient appliances and encouraging natural ventilation over air conditioning. These guidelines are communicated in the local languages to ensure they are understood and followed by everyone.

Monitoring and Evaluation:

1. **Energy Audits:** Regular energy audits are conducted to assess the effectiveness of our conservation measures. These audits help us identify areas where further improvements can be made and ensure that our energy-saving strategies are yielding the desired results.
2. **Data-Driven Adjustments:** We monitor energy consumption data. This system allows us to make data-driven decisions to optimize energy use, such as adjusting lighting schedules or temperature settings during off-peak hours. These adjustments

include optimizing lighting schedules, and turning off non-essential systems during off-peak hours. By relying on the expertise and motivation of our staff, we ensure that energy-saving measures are tailored to the specific needs of each area, contributing to overall efficiency.

Future Plans:

To further enhance our energy conservation efforts, we plan to expand our solar power capacity and explore the use of energy storage solutions. Additionally, we aim to increase the adoption of green building practices in any new construction projects on campus.

Conclusion:

Our energy conservation measures are a testament to our institution's commitment to sustainability and responsible resource management. By continuously improving our practices and fostering a culture of energy efficiency, we are contributing to a greener future while maintaining a comfortable and conducive environment for learning and work.



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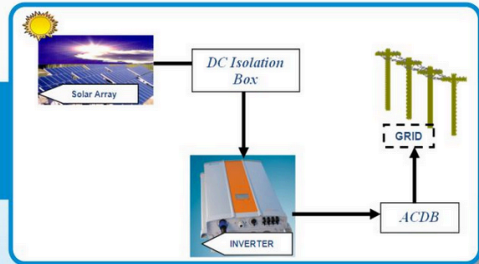


P.E.S. INSTITUTE OF MEDICAL SCIENCES & RESEARCH



TATA POWER SOLAR
25 Years ENABLING SOLAR EVERYWHERE

INSTALLATION INAUGURATION GREEN ENERGY PROJECT 465KWP ROOFTOP GRID INTERACTIVE SOLAR POWER PLANT



Inaugurated by _____

Sri. Nara Chandrababu Naidu

Hon'ble Chief Minister, Govt. of Andhra Pradesh

Presided by _____

Dr. M.R. Doreswamy, Ex-M.L.C

Chancellor, P.E.S University

Project executed by M/S TATA Power Solar Systems Limited

SOLAR POWER PLANT CAPACITY : 465KWP

SECI SUBSIDIZED

NET METERING CONCEPT

NO. OF MODULES : 1860 NOS; 250WP; MULTICRYSTALLINE

POWER GENERATION PER ANNUM : 7,21,900 UNITS

LIFE OF PLANT : 25 YEARS

STARTING DATE : 25/02/2015

COMPLETION DATE : 24/05/2015



6 Aug 2024 3:18:12 pm
336° NW

Beggilipalle
Andhra Pradesh
Altitude: 649.5m

Speed: 0.9km/h
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Index number: 1270



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 **GPS Map Camera**

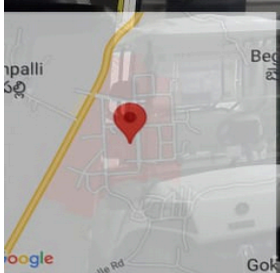
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