

Campus Sustainability

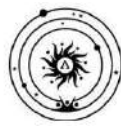
Aditya University is focused on enhancing its campus sustainability through a series of strategic energy-efficient upgrades. These initiatives are designed to reduce our environmental footprint, promote the use of renewable resources, and achieve long-term operational savings.

1. Solar Power Generation

A 500 KW solar panel array has been installed on the rooftops of campus buildings. This system generates clean, renewable energy, which is supplied to the local power grid.



Fig. 1: Roof top of the university buildings installed with the solar panels



2. Wheeling to the grid

By wheeling electricity to the grid through their solar panels, Aditya University not only powers their own campus but actively contributes to a cleaner and more sustainable energy grid for the community.

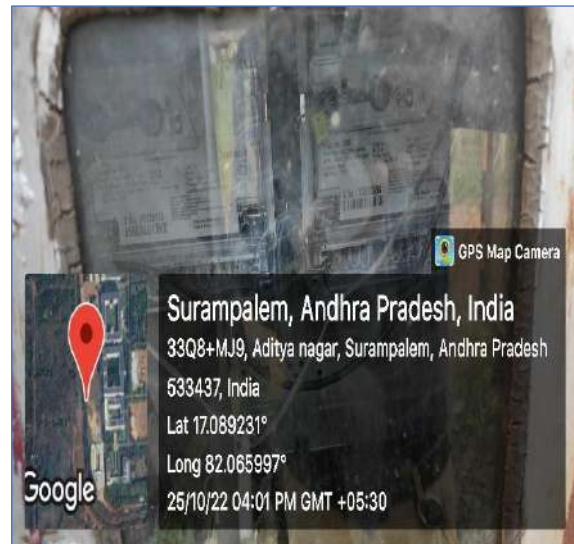
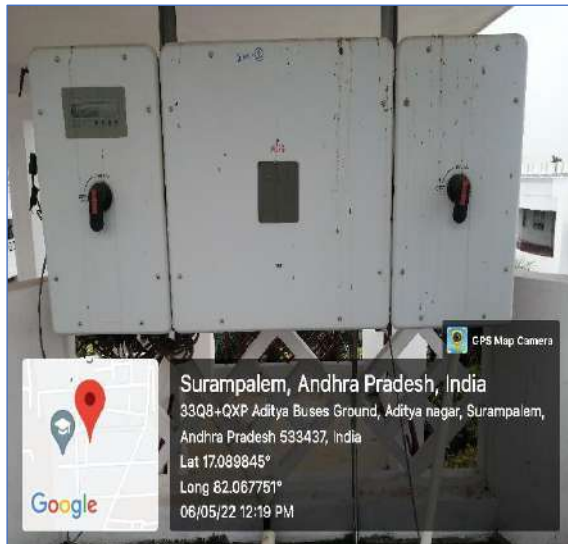
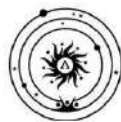


Fig. 2: Wheeling to the grid



3. Biogas Production

The university operates a biogas plant with a daily intake capacity of 40 kg. This facility productively converts organic waste, generating 4 cubic meters of biogas each day for on-campus use.



Fig. 2: Biogas plant

4. Energy-Efficient Infrastructure

To reduce electricity consumption, we have undertaken a full transition to LED lighting and other power-efficient equipment across the campus.

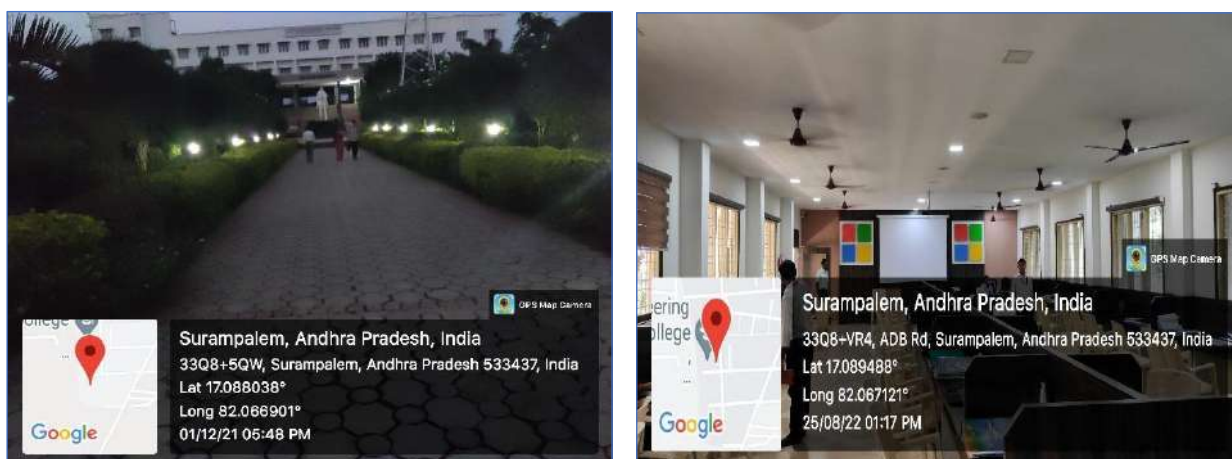
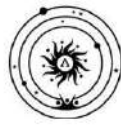


Fig. 3: Use of LED bulbs/ power efficient equipment

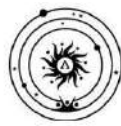


5. Smart Energy Management

We have integrated sensor-based technologies to optimize energy use. This includes the installation of GIC Analog Timer switches, which automatically control lighting based on ambient light conditions, preventing unnecessary power usage.



Fig. 4: Sensor-based energy conservation (Location-cotton bhavan)



Carbon emissions management

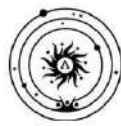
Aditya University has implemented a comprehensive Green Environment Policy aimed at promoting sustainability and reducing its overall carbon footprint. The policy integrates several initiatives that collectively contribute to effective carbon management and the reduction of carbon dioxide emissions within and beyond the campus.

1. Clean Campus Initiatives

The University maintains a clean and eco-friendly campus through systematic waste management, energy-efficient practices, and regular awareness campaigns. These efforts ensure a sustainable and environmentally responsible academic environment.



Fig. 1: Clean and eco-friendly campus



2. Clean Air Initiatives

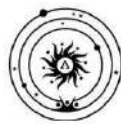
To minimize air pollution, the University has introduced battery-operated vehicles and bicycles for internal transportation. The entry of fuel-based automobiles into the campus is restricted, and pedestrian-friendly pathways are provided to encourage walking and reduce vehicular emissions.



Fig. 2: Use of battery vehicles



Fig. 3: Use of Bicycles



3. Landscaping and Green Cover Development

Extensive landscaping across the campus enhances green cover, supports biodiversity, and contributes to carbon sequestration. The lush green surroundings also help create a calm and pollution-free learning atmosphere.



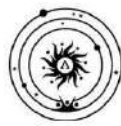
Fig. 4: Lush green campus

4. Community Environmental Awareness

Beyond the campus, Aditya University actively collaborates with nearby communities to promote environmental awareness. Through outreach programmes and sustainability drives, the University encourages eco-friendly practices and community participation in protecting the environment.



Fig. 5: Students of Aditya University participating in SWACHHATA HI SEVA



Energy management

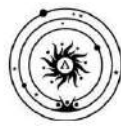
Aditya University has established and actively implements a comprehensive energy management plan, demonstrating our institutional commitment to environmental stewardship and operational excellence. Our strategy is designed to systematically reduce overall energy consumption through a multi-pronged approach that integrates renewable energy generation, smart technology, and infrastructure modernisation.

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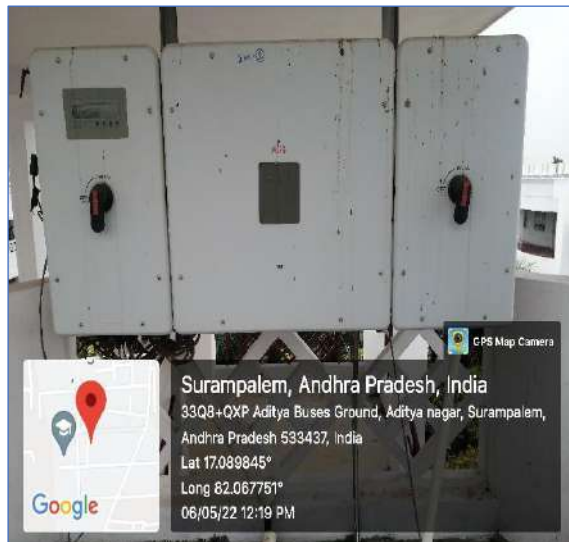
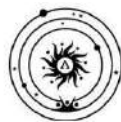


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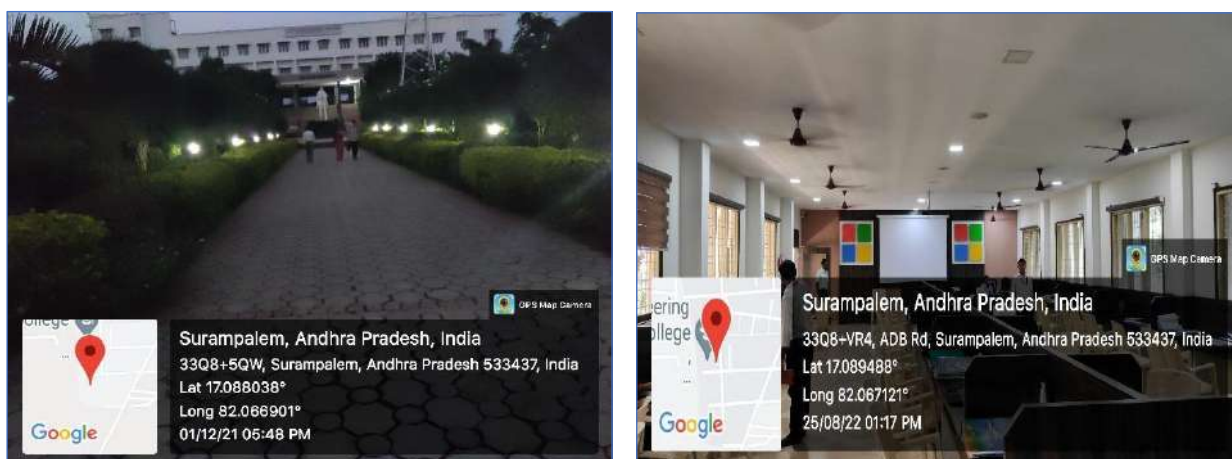
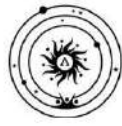


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Low-carbon innovation through start-ups

Aditya University provide assistance for start-ups that foster and support a low-carbon economy/technology.

The institute plays a pivotal role in fostering innovation that advances a low-carbon economy and sustainable technological development. A notable example is Hydro Tribe, a start-up incubated and supported by the university.

The Hydro Tribe specialises in crafting and setting up tailor-made structures for cultivating organic vegetables through soil-less farming techniques, such as hydroponics, aeroponics, and geaponics. They offer a variety of models suitable for both households and high-rise buildings.

The enterprise is driven by a vision of environmental stewardship, aiming to eliminate harmful chemicals from food systems and ensure equitable access to clean food and air. This collaboration underscores the university's strategic commitment to environmental sustainability and its proactive engagement in nurturing ventures that address urgent global challenges through science and innovation.

The university is endorsing Hydro tribe at all entrepreneurship and start-up summits across the nation.



Hydrotribe executives at the Idea Spark event and the entrepreneurship summit held at Rajamundry, Andhra Pradesh, India