



Evidence(s)



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7.2.4 Plan to Reduce Energy Consumption:



Plate 7.2.4.a Solar based street light (75 nos)



Plate 7.2.4.b 8kW Solar panel



Plate 7.2.4.c. Electric control room



Plate 7.2.4.d. Energy literacy certificate by Energy Swaraj



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Plate 7.2.4.e. Centralized IOT based Washing Machine



Plate 7.2.4.f. Air sourced water heater



Plate 7.2.4.g. Common dishwasher in hostel area



Plate 7.2.4.h. GAIL petroleum natural gas

Description:

Sri Sri University (SSU) has been committed to a proactive approach to energy efficiency and the reduction of power consumption through an ongoing annual replacement program. The university systematically identifies and replaces old, energy-intensive, and low-efficiency equipment, tailored to the specific needs of its buildings. This approach consistently results in a 10% reduction in electricity consumption each year. SSU has diligently pursued this



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energy-saving policy since 2020, and as of 2023, the cumulative electricity savings have exceeded 15% of the annual consumption.

The energy-saving plans for 2022-2023 are as follows:

1. **Solar-Powered Street Lights (Plate 7.2.4.a):** All street lights have been replaced with solar-based LED panels, with 75 solar-based lights already installed. This transition to solar-powered lighting enhances energy efficiency and sustainability.
 2. **Solar Plant Installation (Plate 7.2.4.b):** An 8 kW solar plant has been installed within the university campus, generating approximately 35 units of electricity per day, totaling 13,000 kW per year. Additionally, 75 solar street lights have been provided across the campus, contributing to an annual generation of 13,000 units (Plate 7.2.4.a).
 3. **Smart Electric Control Room (Plate 7.2.4.c):** The implementation of a smart electric control room enhances the efficiency and management of electrical systems, reducing wastage and promoting a more sustainable energy infrastructure.
 4. **Energy Conservation Awareness (Plate 7.2.4.d):** SSU actively raises awareness among staff and students to prevent energy wastage through the Energy Swaraj training program. This initiative empowers individuals to make energy-efficient choices.
 5. **IoT-Based Washing Machines (Plate 7.2.4.e):** IoT-based washing machines have been adopted in all hostels, contributing to reduced energy and water consumption during laundry processes.
 6. **Air Sourced Water Heaters (Plate 7.2.4.f):** Air-sourced water heaters are utilized in the hostels, effectively conserving a substantial amount of energy, particularly during the winter season. This innovative technology saves approximately 25 units of electricity per day, equivalent to 3,000 units annually.
 7. **Automatic Dishwashers (Plate 7.2.4.g):** Automatic dishwashers are employed to minimize water usage, reducing the dependence on water pumps and promoting water efficiency.
 8. **Natural Gas Adoption (Plate 2.10h):** LPG has been replaced with petroleum natural gas, a more environmentally friendly energy source that aligns with sustainability objectives.
- These initiatives collectively demonstrate SSU's ongoing commitment to energy conservation and sustainability, contributing to a greener and more environmentally responsible campus.

Few more steps taken by Sri Sri University to reduce energy consumptions are

- a. **Restricted use of high energy consuming appliances in student hostels and among the staff rooms.**
- b. **Zero Hour observed during 12.30 PM to 2 PM, which saves 2206.845 kWh every day from Shruti & Kirti academic building.**
- c. **SSU has signed a MOU with TATA Power to produce 500 kW power from rooftop solar panels (2022-24) and at the end of 2030 SSU has aimed to set-up 2 megawatt rooftop solar panels.**



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