



University: Sri Sri University

Country: India

Web: www.srisriuniversity.edu.in

SDG7: AFFORDABLE & CLEAN ENERGY

7.2 University Measures Towards Affordable and Clean Energy:

7.2.2 Upgrade Buildings to Higher Energy Efficiency:

Have plans to upgrade existing buildings to higher energy efficiency



Plate 7.2.2.a. BLDC ceiling fan

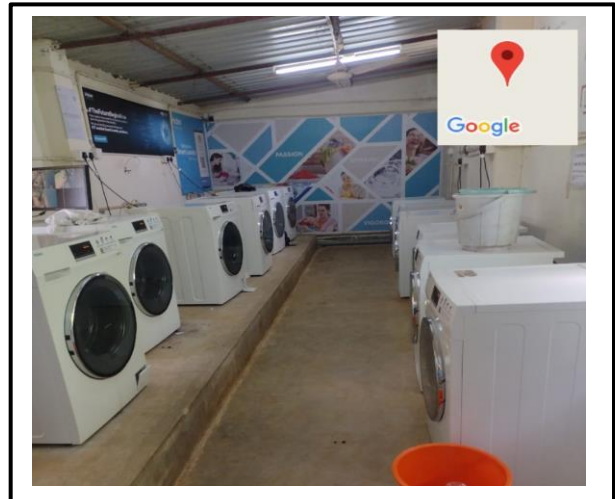


Plate 7.2.2.b Centralized IOT based washing machines in hostel area



Plate 7.2.2.c. laterite stone building



Plate 7.2.2.d. Naturally ventilated staff room



Plate 7.2.2. e. All CFL lamp replaced with LED bulb. Plate 7.2.2.f. A/C with ISEER>4.5



Plate 7.2.2.g Sensor based urinary system

Description:

Currently, the university has made it a paramount objective to align with national energy conservation policies. As part of this commitment, the institution systematically replaces non-compliant equipment on an annual basis. The relevant energy efficiency standards are subject to periodic review and adjustment, contingent upon the availability of additional funding. This proactive approach reflects the university's dedication to staying in harmony with national energy conservation initiatives and ensuring a sustainable and environmentally responsible campus environment.

Sri Sri University's (SSU) unwavering commitment to sustainability is demonstrated through its structured, annual conference focused on energy conservation and carbon reduction. This forum strategically evaluates and plans the systematic replacement of existing equipment with energy-efficient alternatives, backed by a dedicated annual budget. This proactive initiative aims to realize a year-on-year improvement in overall energy efficiency of no less than 10%.



This institutional dedication has been recognized at the highest level, as evidenced by SSU being honored with the "**Top Performer Award - Educational Institute**" at the **Odisha State Energy Conservation Award-2024**, jointly conferred by the Govt. of Odisha and the Bureau of Energy Efficiency, Govt. of India. This prestigious accolade validates SSU's successful, results-driven approach and its leadership in fostering an environmentally responsible campus, directly contributing to the objectives of SDG 7.

Here are the key energy-saving and carbon-reduction measures that have been implemented at SSU from Jan 2024 to Dec 2024:

Appliances	Total Number	Total number energy efficient appliances	Percentage (%)
Lamp	5034	4964+70 added in 2024(LED Lamps)	100%
Fans	2275+650=2925	2275+650 added in 2024 (BLDC Motor)	100%
		Total Percentage	100%

- 1. Energy-Efficient Retrofitting & Infrastructure (Plate 7.2.2.a):** The university has systematically replaced over 650 conventional fans with 28W BLDC models and outdated lighting with 36W LED fixtures, drastically reducing base-load energy consumption. This is complemented by the installation of a 450 kVAR APFC panel to minimize technical power losses and optimize overall electrical efficiency.
- 2. IoT-Enabled Centralized Washing Machine (Plate 7.2.2.b):** SSU introduced IoT-enabled centralized washing machines across the campus area. These machines are designed to optimize water and electricity usage, aligning with sustainability goals and promoting eco-friendly laundry practices.
- 3. Sustainable Building Materials (Plate 7.2.2.c):** The campus's commitment to sustainability is reflected in the construction of all campus buildings using laterite stone and fly ash materials. This eco-conscious choice involves repurposing local materials, such as soil and laterite from excavations, for construction. Laterite bricks, known for their natural cooling properties and thermal insulation, contribute to maintaining comfortable indoor temperatures, particularly in hot regions.
- 4. Maximizing Daylight (Plate 7.2.2.d):** All staff rooms have been intelligently designed to harness the maximum amount of natural daylight. This design feature not only enhances the well-being of occupants but also reduces the need for artificial lighting during daylight hours.
- 5. LED Lighting (Plate 7.2.2.e):** To promote energy efficiency, SSU has adopted LED lighting extensively throughout the academic, non-academic, hostel, and street areas. LED lights are known for their energy-saving attributes and provide efficient and eco-friendly illumination.
- 6. Air Conditioning Upgrades (Plate 7.2.2.f):** The university has undertaken the replacement of old air conditioning units with new models featuring an impressive ISSEER rating of more than 4.5, along with the use of R32 refrigerant. This upgrade significantly enhances cooling efficiency while reducing environmental impact.



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Evidence (s)

THE Sustainability Impact Ratings, 2026



Times Higher Education

**Sustainability
Impact Ratings**

7. Water Consumption Reduction (Plate 7.2.2.g): The university replaced the dual-knob water dispensers with a sensor-based urinary system. This transition has led to a substantial reduction in water consumption, contributing to the institution's commitment to water conservation and sustainability.

These initiatives collectively underscore Sri Sri University's dedication to reducing its carbon footprint and fostering a campus environment that aligns with the principles of energy efficiency and environmental responsibility.

Conclusion:

SSU's commitment to national energy conservation goals is demonstrated through a disciplined, annual equipment replacement strategy. This program systematically phases out energy-intensive equipment, targeting a consistent 10% annual improvement in energy efficiency. Recent upgrades include the installation of over 650 BLDC fans, high-efficiency ISEER 4.5+ ACs, and IoT-enabled washing machines. The use of sustainable construction materials and sensor-based systems further underscores a holistic approach to reducing the university's carbon footprint and fostering an environmentally responsible campus.