



Evidence(s)



THE-Impact Ranking

University : Sri Sri University
Country : India
Web : www.srisriuniversity.edu.in

7.2.2 Upgrade Buildings to Higher Energy Efficiency:

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.



Plate 7.2.2.a. BLDC ceiling fan

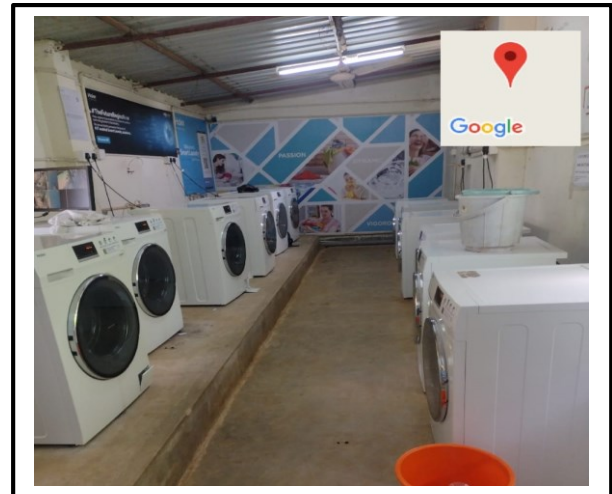


Plate 7.2.2.b Centralized IOT based washing machines in hostel area



Plate 7.2.2.c. laterite stone building

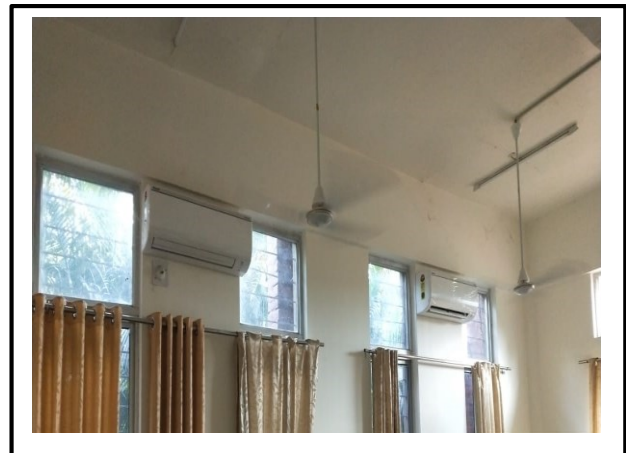


Plate 7.2.2.d. Naturally ventilated staff room



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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: Sri Sri University (SSU) hosts an annual conference focused on energy conservation and carbon reduction to evaluate plans for the replacement of existing equipment with energy-efficient alternatives in the forthcoming year. Each year, a specific budget is earmarked for the replacement of energy-intensive equipment, with the objective of realizing an annual improvement in overall energy efficiency by no less than 10%. This proactive approach reflects SSU's unwavering commitment to sustainability and its dedication to fostering an environmentally responsible campus.



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Here are the key energy-saving and carbon-reduction measures that have been implemented at SSU from 2022 to 2023:

Appliances	Total Number	Total number energy efficient appliances	Percentage (%)
Lamp	4964	4800+164 added in between 2022-23(LED Lamps)	100%
Fans	2375	2300+75 added in between 2022-23(BLDC Motor)	100%
		Total Percentage	100%

- Ceiling Fan Upgrade (Plate 7.2.2.a):** The university replaced the old ceiling fans, each consuming 75 watts, with technologically advanced BLDC motor fans. These new fans are remarkably energy-efficient, drawing only 25 watts of power, contributing to reduced energy consumption.
- 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.
- 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.
- 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.
- 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.
- 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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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.