



University: Sri Sri University

Country: India

Web: www.srisriuniversity.edu.in

SDG7: AFFORDABLE & CLEAN ENERGY

7.2 University Measures Towards Affordable and Clean Energy:

7.2.1 Energy Efficient Renovation and Building:

Energy Efficient Appliances Usage



Plate 1. A/C ISSER rating>4.5



Plate 2 Solar street light

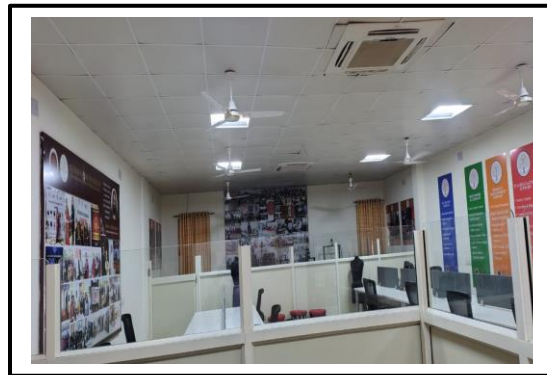


Plate 3 LED bulb in academic building



Plate 4 ground water pump

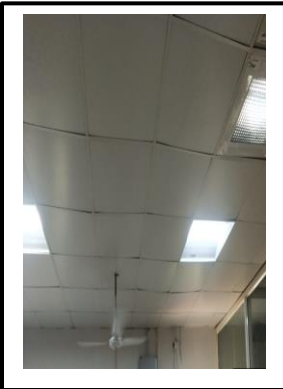


Plate 5 LED light in class room



Plate 6 Natural day light in staff room



Plate 7 Air Sourced Water Heater



Plate 8 IOT enable centralized Washing machine



Plate 9 Solar Water Heater



Plate 10 BLDC ceiling fan



Plate 11 Electric Vehicle Charging Station



Plate 12 Smart laundry



Plate 13 Community E-Sooty Charging Station



Plate 14. wifi router in buildings



Plate 15. Sensor based urinary system



Plate 16. Security surveillance chamber



Plate 17. 24-hour CCTV surveillance

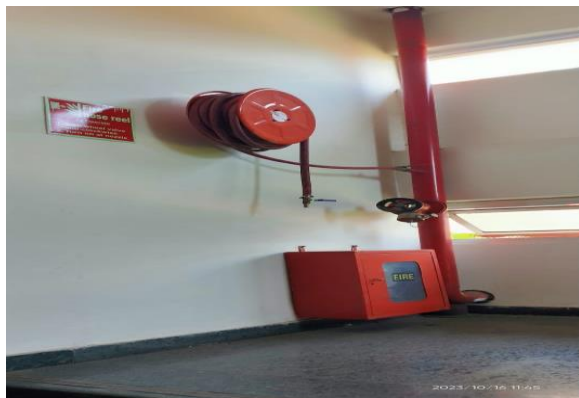


Plate 18. Fire protection system



Plate 19. Fire alarm system

Description:

Sri Sri University, located in India, accommodates a resident population of 4382 individuals and a floating population of 700. The institution places a strong emphasis on energy efficiency and environmental responsibility. Encompassing a sprawling area of 187.5 acres (equivalent to 840,498.58 square meters), the university actively promotes the utilization of energy-efficient equipment. Furthermore, Sri Sri University has undertaken a significant overhaul of its aging infrastructure. It has instituted a comprehensive policy to ensure that all new constructions and renovations adhere to stringent energy efficiency standards. This proactive approach has yielded several benefits, including a notable reduction in carbon emissions, the optimization of electricity consumption, and a significant decrease in wastage, reflecting the university's commitment to sustainable practices and environmental stewardship.



Sri Sri University continues to strengthen its commitment to SDG 7 through the active implementation and expansion of the following energy efficiency and renewable energy initiatives:

1. **Comprehensive Energy Monitoring:** Strategic installation of energy meters across all campus buildings ensures continuous monitoring and precise control of electricity usage.
2. **High-Efficiency Cooling Systems:** All air conditioning units have been upgraded to models with an exceptional ISEER rating above 4.5, significantly enhancing climate control efficiency (See Plate 1).
3. **Solar-Powered Outdoor Lighting:** The campus features 105 solar-powered streetlights, which collectively generate approximately 105 units daily, contributing roughly 38,325 units of clean energy annually (See Plate 2).
4. **Campus-Wide LED Lighting:** Energy-efficient LED lighting has been extensively adopted across all academic, administrative, hostel, and outdoor spaces, providing superior, eco-friendly illumination (See Plates 3 & 5).
5. **Efficient Water Management:** A highly efficient groundwater pump is in operation, designed to significantly reduce energy consumption associated with water supply (See Plate 4).
6. **Harnessing Natural Light:** Staff rooms are designed to maximize the use of natural daylight, effectively reducing the need for artificial lighting during daytime hours (See Plate 6).
7. **Efficient Water Heating:** The use of energy-efficient Air Sourced Water Heaters in hostels results in substantial energy savings, conserving approximately 3,000 units annually (See Plate 7).
8. **Sustainable Laundry Systems:** IoT-enabled centralized washing machines are available on campus, engineered to use minimal water and electricity, underscoring a commitment to resource conservation (See Plate 8).
9. **Solar Thermal Systems:** Solar water heaters installed in faculty and staff residences provide sustainable hot water, primarily for winter use, and promote further energy savings (See Plate 9).
10. **Advanced Fan Technology:** Traditional 75-watt ceiling fans have been systematically replaced with 25W BLDC motor fans, drastically improving energy efficiency for cooling (See Plate 10).
11. **Electric Vehicle Infrastructure:** The university provides dedicated EV charging stations on campus, enabling students and staff to conveniently charge their electric vehicles and supporting a shift towards sustainable transport (See Plate 11).
12. **Smart Laundry Facilities:** The campus is equipped with a state-of-the-art, energy-efficient smart laundry system for students, which minimizes both water and electricity consumption, thereby reducing the environmental footprint (See Plate 12).
13. **Community Charging Partnership:** The installation of the "Sri Sri University Community Station" by E-Drive provides accessible, clean energy for electric vehicles, directly advancing sustainable transportation and reducing reliance on fossil fuels (See Plate 13).



Through these targeted measures, Sri Sri University diligently works to minimize its energy use and environmental impact, reinforcing its dedication to sustainable operations.

Overall we are using nearly 100 % of energy efficient appliances in our university

Appliance	Total Number	Total number energy Efficient appliances
Lamps	6214	<ul style="list-style-type: none"> • 10W Bulbs: 370 units • 10W Tubes: 2,147 units • 20W Tubes: 3,657 units • 72W Ceiling Light: 8 Unit • 36W Led Light: 32 Unit
Fans	3225	2575 (Finolex and Havells make fans)+650(BLDC fans added during Jan 24-Dec 24).
Solar and LED street light	191(105 Solar Light)	161+30 Solar Light installed during (2024)
AC (ISSER>4.5)	614	590+24

Electricity Usage per Year (in Kilowatt hour)

Total electricity consumption from Jan 24- December 24 is 2,794,202 kWh (2998kW /day generated from solar energy resources).

2998kWh *277=830446 kWh

Total power consumption 2,794,202 kWh -830446 kWh=1,963,756kWh

Carbon emissions per capita of India stand at 1.6 tons of CO2, well below the global average of 4.4 tons, while its share of global total CO2 emissions is some 6.4%.

SSU had total carbon emissions in 2024 of 1682.81 metric tons; the per capita emissions are well below 1.

1. The campus boasts a comprehensive Wi-Fi and router network, ensuring connectivity in every corridor (See Plate 14).
2. A sensor-based urinary system has been introduced, significantly reducing water consumption and promoting sustainability (See Plate 15).
3. To enhance security, a state-of-the-art CCTV surveillance system has been deployed across the campus (See Plate 16).
4. The institution maintains a 24-hour security surveillance chamber to ensure the safety and well-



being of its residents (See Plate 17).

5. An automatic fire alarm and protection system have been meticulously installed within the buildings and hostels, enhancing safety measures (See Plate. 18 & Plate 19).
6. Notably, all campus buildings are constructed using laterite stone and fly ash materials. The local soil and laterite excavated during construction are effectively repurposed. Laterite bricks, known for their natural cooling properties, contribute to energy-efficient insulation, particularly in hot regions.

Total Building Area: 77,289.66 square meters

Total Smart Building Area: 53,080.49 square meters

Smart Building Implementation: 68.677%

These features collectively underscore the institution's commitment to providing a technologically advanced, secure, and sustainable campus environment. **Steps taken for implementing energy efficiency standards**





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Evidence (s)

THE Sustainability Impact Ratings, 2026



Times Higher Education
Sustainability Impact Ratings



8kW Solar Panels (Sri Sri Kushal Vikas kendra)

In the previous year, the campus utilized an 8kW solar panel system, generating approximately 35 units of electricity daily and totaling around 13,000 units annually. Additionally, 105 solar-powered street lights contributed to save about 105 units per day (or 38,325 units annually).

For the current year, recorded data shows a peak generation of 2,998 units in a single day. Specific generation figures include:

- Shruti Building: 1,700 units
- Kirti Building: 1,200 units (Plate 20)

1. As part of skill training center training on solar PV installation and commissioning is given to the local village youth.

Awards for Promoting Green energy and for energy saving measures (Plates 21-26)

Sri Sri University has received 6 Awards in a short span for green campus initiatives in higher education. <https://srisriuniversity.edu.in/awards>.



Plate 21. Green Audit certificate received by SSU



Plate 22. Sri Sri University member of IGBC



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Sustainability Impact Ratings



Plate 23. Environment Audit certificate received by SSU



Plate 24. Award for bringing nature into higher education



Plate 25. Green Champion Certificate Awarded to SSU



Plate 26. Sri Sri University Ranked 12th in India and 416th in the world in UI Green Metric World University Rankings



Plate 27: Conservation Award Presented to SSU



Plate 28: Odisha State Energy Conservation Award-2024

Conclusion

Sri Sri University has established a comprehensive energy management system, anchored by strategic energy metering across its 187.5-acre campus. This enables precise monitoring and control of electricity for a resident population of 3,850. Key outcomes include a significant reduction in carbon emissions to 1,682.81 metric tons



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Times Higher Education
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in 2024. The university's renewable energy portfolio is robust, with rooftop solar installations on Shruti and Kirti buildings generating approximately 2,998 kWh daily. This is complemented by 105 solar streetlights and a suite of efficiency measures, including BLDC fans, LED lighting, and IoT-enabled appliances, collectively advancing SSU's commitment to a sustainable infrastructure.