



Evidence(s)



THE-Impact Ranking

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

7.2 University Measures Towards Affordable and Clean Energy:

7.2.1 Energy Efficient Renovation and Building:

Sri Sri University, located in India, accommodates a resident population of 3,850 individuals and a floating population of 500. 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.

Energy Efficient Appliances Usage (Plates.1-11)



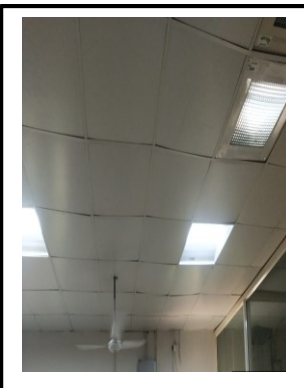
Plate 1. A/C ISSER rating>4.5



Plate 2 Solar street light



Plate 3 LED bulb in academic building





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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



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Plate 11 Electric Vehicle Charging Station



Plate 12 Smart laundry

Description:

Sri Sri University is committed to closely monitoring and minimizing energy use throughout its campus, implementing a series of efficient measures to achieve this objective. Here is the refreshed presentation of these energy initiatives:

1. Energy meters are installed strategically across all campus buildings to continuously monitor and control electricity usage.
2. All air conditioning units have been upgraded to models with an exceptional ISSEER rating above 4.5, enhancing their energy efficiency (See Plate 1).
3. The campus features 75 solar-powered streetlights, collectively generating about 35 units daily and contributing roughly 13,000 units annually (See Plate 2).
4. LED lighting has been extensively adopted across academic, administrative, hostel, and outdoor spaces, providing efficient and eco-friendly lighting (See Plates 3 & 5).
5. A highly efficient groundwater pump is in use, designed to significantly reduce energy consumption (See Plate 4).
6. Natural lighting in staff rooms is utilized to reduce artificial light requirements during daytime hours (See Plate 6).
7. Energy-efficient Air Sourced Water Heaters in hostels result in daily savings of around 25 units during winter, accumulating to approximately 3,000 units annually (See Plate 7).



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8. IoT-enabled centralized washing machines are available on campus, designed to use minimal water and electricity, underscoring sustainable practices (See Plate 8).
9. Solar water heaters are installed in faculty and staff residences, primarily for winter use, promoting further energy savings (See Plate 9).
10. Traditional ceiling fans consuming 75 watts have been replaced by BLDC motor fans, which require only 25 watts, significantly improving energy efficiency (See Plate 10).
11. Electric Vehicle (EV) Charging Station Access: Sri Sri University (SSU) provides dedicated EV charging stations on campus, enabling both students and staff to conveniently charge their electric vehicles. This initiative supports the university's commitment to sustainable transport solutions, reducing carbon emissions and promoting green mobility across the campus. (See Plate 11).
12. Smart Laundry System: The campus is equipped with a state-of-the-art, energy-efficient smart laundry system accessible to all students. This facility not only provides convenience but also minimizes water and electricity consumption, contributing to SSU's overall sustainability efforts by reducing the campus's environmental footprint. (See Plate 12).

Sri Sri University continues its dedication to sustainable practices and reducing its environmental impact through these ongoing energy-efficiency initiatives.

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

Appliance	Total Number	Total number energy Efficient appliances
Lamps	6174	<ul style="list-style-type: none"> • 10W Bulbs: 370 units • 10W Tubes: 2,147 units • 20W Tubes: 3,657 units
Fans	2997	2525 (Finolex and Havells make fans)+472(BLDC fans added during June 23-July 24).
Solar and LED street light	161	75+86
AC (ISSER> 4.5)	590	590

Electricity Usage per Year (in Kilowatt hour)



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Description:

1. Total electricity consumption from Apr-19-Mar 20 is 1811035 kWh
2. Total electricity consumption from Apr 20-Mar 21 is 800000 kWh
3. Total electricity consumption from Apr 21- Mar 22 is 1,869,698 kWh
4. Total electricity consumption from July 22- June 23 is 2557617 kWh
5. **Total electricity consumption from July 23- June 24 is 2,794,202 kWh (2998kW /day generated from solar energy resources).**

$$2998\text{kWh} * 277 = 830446 \text{ kWh}$$

$$\text{Total power consumption } 2,794,202 \text{ kWh} - 830446 \text{ kWh} = 1,963,756 \text{ kWh}$$

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%.

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

Overview of Energy Consumption at SSU



Plate1 .Academic building 'Kirti' is designed for reduced heat absorption and temperature control



Plate 2. Natural ventilation, lighting and natural laterite stone for construction



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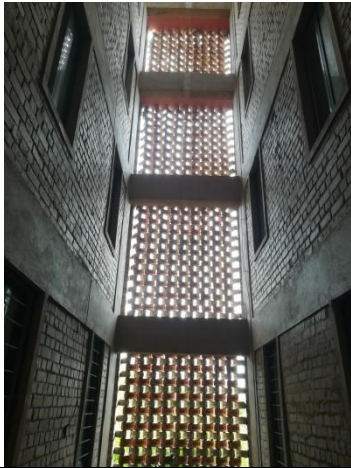


Plate 3. Naturally ventilated corridors

Plate 4. Smart Class Rooms

Additional pictures of smart building implementation





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Plate 1 wifi router in buildings

Plate 2 Sensor based urinary system

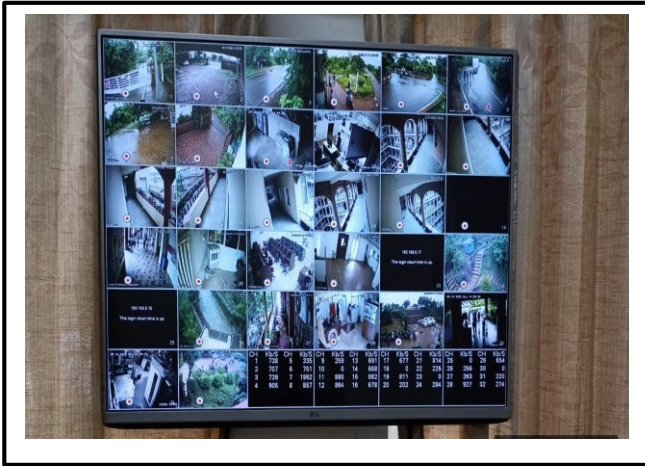
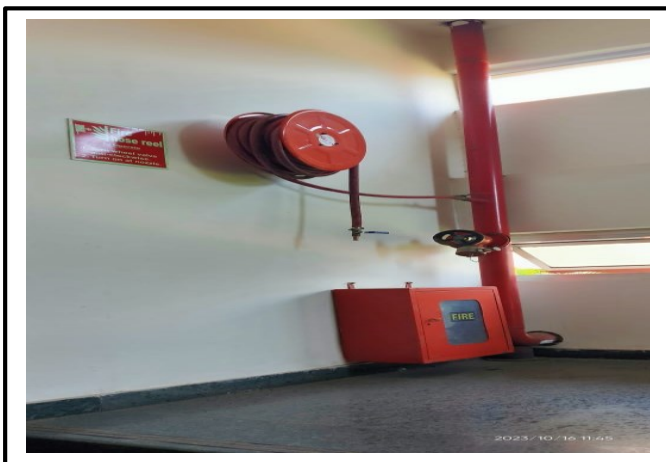


Plate 3 security surveillance chamber

Plate 4 24-hour CCTV surveillance





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Plate 5 Fire protection system

Plate 6 Fire alarm system



Plate 7 laterite stone building

Description:

1. The campus boasts a comprehensive Wi-Fi and router network, ensuring connectivity in every corridor (See Plate-1).
2. A sensor-based urinary system has been introduced, significantly reducing water consumption and promoting sustainability (See Plate-2).
3. To enhance security, a state-of-the-art CCTV surveillance system has been deployed across the campus (See Plate-3).
4. The institution maintains a 24-hour security surveillance chamber to ensure the safety and well-being of its residents (See Plate-4).
5. An automatic fire alarm and protection system have been meticulously installed within the buildings and hostels, enhancing safety measures (See Plate-5 & Plate-6).
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 (See Plate-7).

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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	<p>Highest recorded generation per day: 2,998 kW Total solar power generated: Shruti Building: 1,700 kW Kirti Building: 1,200 kW</p>
	<p>8kW Solar Panels (Sri Sri Kushal Vikas kendra)</p>

Description:

1. 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, 75 solar-powered street lights contributed about 35 units per day (or 13,000 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



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- 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.

<p>EHS alliance</p> <p>CERTIFICATE</p> <p>PRESENTED TO</p> <p>SRI SRI UNIVERSITY Sri Sri Vihar, Ward No - 3, Godi Sahi, Cuttack - 754006, Odisha, India</p> <p>Has been assessed by EHS Alliance Services for the comprehensive study of environmental impacts on institutional working framework to fulfil the requirement of</p> <p>GREEN AUDIT FINANCIAL YEAR 2022-23</p> <p>The green initiatives carried out by the institution have been verified on the report submitted and was found to be satisfactory.</p> <p>The efforts taken by the management and the faculty towards environment and sustainability are appreciated and noteworthy.</p> <p><i>[Signature]</i> CHANCE SENIOR SIGNATURE IGBC</p> <p>12.10.2023 DATE OF AUDIT</p> <p><small>EHS ALLIANCE SERVICES, PLOT A-70, SURYA VIHAR, GURUDRAM, 122001 WWW.CHALL.IN BUSINESS@CHALL.IN EHSALLIANCE@GMAIL.COM</small></p>	<p>INDIAN GREEN BUILDING COUNCIL</p> <p>IGBC</p> <p>MEMBER</p>
<p>Plate1. Green Audit certificate received by SSU</p>	<p>Plate2. Sri Sri University member of IGBC</p>
<p>EHS alliance</p> <p>CERTIFICATE</p> <p>PRESENTED TO</p> <p>SRI SRI UNIVERSITY Sri Sri Vihar, Ward No - 3, Godi Sahi, Cuttack - 754006, Odisha, India</p> <p>Has been assessed by EHS Alliance Services for the comprehensive study of environmental impacts on institutional working framework to fulfil the requirement of</p> <p>ENVIRONMENT AUDIT FINANCIAL YEAR 2022-23</p> <p>The environment legal compliances and initiatives carried out by the institution have been verified on the report submitted and were found to be satisfactory.</p> <p>The efforts taken by management and faculty towards environment and sustainability are highly appreciated and noteworthy.</p> <p><i>[Signature]</i> CHANCE SENIOR SIGNATURE IGBC</p> <p>12.10.2023 DATE OF AUDIT</p> <p><small>EHS ALLIANCE SERVICES, PLOT A-70, SURYA VIHAR, GURUDRAM, 122001 WWW.CHALL.IN BUSINESS@CHALL.IN EHSALLIANCE@GMAIL.COM</small></p>	<p>GREEN U AWARD 2019</p> <p>is presented to</p> <p>Sri Sri University Cuttack, Odisha</p> <p>towards bringing Nature into Higher Education.</p> <p>CERTIFICATE</p> <p>30th June, 19</p> <p><small>GREEN MENTORS</small></p> <p><small>GEDA</small></p> <p><small>150th ANNIVERSARY OF THE INDIAN NATION</small></p> <p><small>MINISTRI</small></p> <p>Ahmedabad</p>



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<p>Plate3. Environment Audit certificate received by SSU</p>	<p>Plate4. Award for bringing nature into higher education</p>
	
<p>Plate5. Green Champion Certificate Awarded to SSU</p>	<p>Plate6. Sri Sri University Ranked 12th in India and 416th in the world in UI Green Metric World University Rankings</p>

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

Policy in place for ensuring all renovations or new builds are following energy efficiency standards

https://drive.google.com/file/d/1WauXvoh8Ra4Hdf6nM6EoUO437-7tlzHm/view?usp=drive_link