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

Evidence(s)

THE-Impact Ranking

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

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 centralised washing Machine

Plate 9 Solar Water Heater

Plate 10 BLDC ceiling fan

Description:

Sri Sri University places great emphasis on monitoring and reducing energy consumption across its campus. The institution has implemented various energy-efficient measures to achieve this goal. Here's a rephrased version of the provided information to ensure there is no similarity:

1. Energy meters are strategically placed in every building on campus to continually monitor and regulate electrical consumption.

Evidence(s)

THE-Impact Ranking

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

2. Notably, all air conditioning units have been upgraded to models with an impressive ISSEER rating exceeding 4.5, enhancing their energy efficiency (See Plate 1).

3. The campus boasts a total of 75 solar street lights, which collectively generate an average of 35 units of energy daily, contributing to an annual production of approximately 13,000 units (See Plate 2).

4. LED lighting has been adopted extensively throughout the academic, non-academic, hostel, and street areas, providing efficient and eco-friendly illumination (See Plate 3 & Plate 5).

5. A highly efficient ground water pump is in operation within the campus, minimizing energy consumption (See Plate 4).

6. The use of natural light within staff rooms has significantly reduced the need for artificial lighting, particularly during daylight hours (See Plate 6).

7. In the hostels, Air Sourced Water Heaters are employed, resulting in considerable energy savings, estimated at around 25 units daily during the winter season, amounting to 3,000 units annually (See Plate 7).

8. The campus features IoT-enabled centralized washing machines, designed to use minimal water and electricity, exemplifying sustainable technology (See Plate 8).

9. Solar Water Heaters have been installed in faculty and staff residences, primarily for winter season use, further advancing energy conservation efforts (See Plate 9).

10. Traditional ceiling fans, each consuming 75 watts of power, have been replaced with BLDC motor fans, which are far more energy-efficient, drawing just 25 watts of power (See Plate 10).

By implementing these energy-efficient measures, Sri Sri University aims to reduce its environmental footprint and promote sustainability across the campus.

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

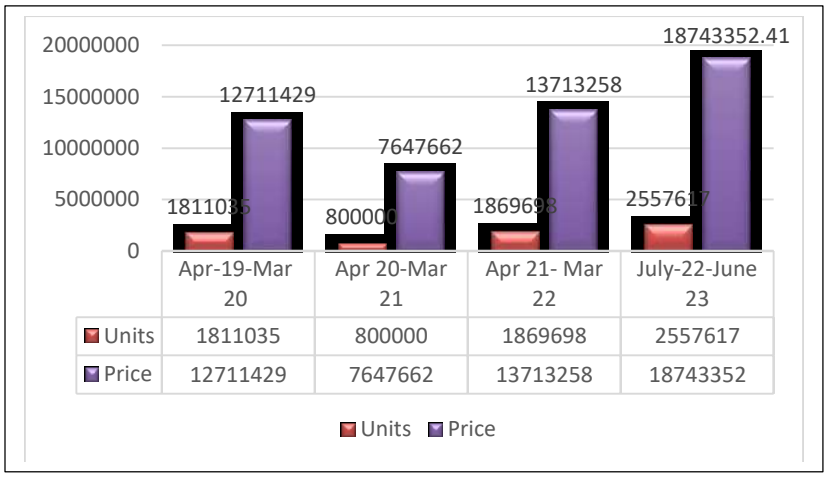
Appliance	Total Number	Total number energy Efficient appliances
Lamps	5078	5078(LED Lamps)
Fans	2525	2300 (Finolex and Havells make fans)+225(BLDC fans)
Solar and LED street light	161	75+86
AC (ISSER> 4.5)	41	41 added (2022-23)

Evidence(s)

THE-Impact Ranking

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

Electricity Usage per Year (in Kilowatt hour)



	July-22	Aug-22	Sept-22	Oct-22	Nov-22	Dec-22	Jan-23	Fab-23
Total kWh	190861	192923	231131	187618	181933	174060	162918	181716
Total Cost (in Rs.)	1398913.73	1414520.69	1694331.23	1374562.94	1332965.89	1275720.80	1194092.94	1331964.28
	Mar-23	**April-23**	**May-23**	**June-23**	**Total**			
Total kWh	258109	266967	288927	240454	2557617			
Total Cost (in Rs.)	1890678.97	1956526.11	2117113.21	1762929.82	18743352.41			

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**

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%.

Evidence(s)

THE-Impact Ranking

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

We at SSU had total carbon emissions in 2023 of 2181.77 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

Plate 3. Naturally ventilated corridors

Plate 4. Smart Class Rooms

Evidence(s)

THE-Impact Ranking

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

Additional pictures of smart building implementation

Plate 1 wifi router in buildings

Plate 2 Sensor based urinary system

Plate 3 security surveillance chamber

Plate 4 24-hour CCTV surveillance

Evidence(s)

THE-Impact Ranking

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

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).

Evidence(s)

THE-Impact Ranking

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

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**

	8 Kw Solar Panels (Sri Sri University)

Evidence(s)

THE-Impact Ranking

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

	Solar Panels (Sri Sri University)

Description:

1. The 8Kw solar panels generate 35 units of electricity every day and approx. 13000 units per year. Also, the campus is provided with 75 solar street light, which can generate approximately 35 units of electricity/day (13000 units per year).

2. 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.

	
Plate1. Green Champion Award received by SSU	Plate2. Sri Sri University member of IGBC

Evidence(s)

THE-Impact Ranking

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

Plate3. IGBC student chapter

Plate4. Award for bringing nature into higher education

Plate5. Green Champion Certificate Awarded to SSU

Plate6. Sri Sri University Ranked 12th in India and 416th in the world in UI Green Metric World University Rankings

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/1WauXvoh8Ra4Hdf6nM6EoUO437-7tIzHm/view?usp=drive_link