



Sri Sarada College for Women

(An Autonomous Institution)

(Reaccredited with “A” Grade by NAAC)

Institution included u/s 2(f) and 12(B) of UGC

Affiliated to Manonmaniam Sundaranar University

(A branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Tirunelveli Thoothukudi –High Road, Maharaja Nagar Post,
TIRUNELVELI- 627011.



Criterion VII

7.1 Institutional Values and Social Responsibilities

7.1.2 Sources of Energy and Energy Conservation

2024-25



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TIRUNELVELI-627011



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7.1.2 The Institution has facilities for alternate sources of energy and energy conservation

1. Solar energy

The institution is committed to promoting environmental sustainability and reducing its carbon footprint by adopting various alternate energy sources and energy conservation practices across campus. The following key initiatives reflect our eco-conscious and energy-efficient approach:

1. Solar Energy Utilization:

In a significant move toward green energy adoption, the college harnesses solar power for approximately 70% of its energy requirements. Solar panels are to convert sun light into renewable energy during the daytime, which is later used to power LED lighting systems in the evening. This initiative not only reduces dependence on conventional electricity but also contributes to reducing greenhouse gas emissions, promoting a clean and sustainable campus environment.

2. Sensor-Based Energy Conservation:

To ensure optimal energy usage, the institution has implemented sensor-based automation systems for lighting across the campus. Lights in pathways are equipped with automatic sensors that turn the lights on at dusk and off at dawn, thereby conserving energy and reducing manual intervention.

3. Use of LED Bulbs:

The college prioritizes the use of energy-efficient lighting systems, with over 80% of campus lights being LED-based. These lights are known for their low energy consumption and long-life span.

4. Biogas Plant and Vermicomposting:

The Institution maintains a functional biogas plant which utilizes organic waste from the college dairy farm. The waste is converted into manure through vermicompost, with help of species such as *Eisenia foetida* and *Eudrilus eugeniae*. The resulting vermicompost is employed to enrich the soil, supporting agricultural activity on campus, including flowering plants and the sacred grove. This initiative underscores the college's holistic approach to waste-to-energy and eco-agriculture.

Through these integrated systems, the institution not only supports environmental conservation but also sensitizes students the importance of sustainable living practices and responsible energy consumption.


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