

7 .1. 2: The Institution has facilities for alternate sources of energy and energy conservation measures

- 1. Solar energy**
- 2. Biogas plant**
- 3. Wheeling to the Grid**
- 4. Sensor-based energy conservation**
- 5. Use of LED bulbs/ power efficient equipment**

Alternative Energy Sources

VSU has taken an initiation for energy conservation in different ways like installing roof top solar panels, solar street lights on either side of the approachable roads, replacing conventional light sources such as blubs and tube light with LED/CFL bulbs, These initiatives will not only make the campus self -sustainable but also save money.

- 1. Roof top Solar Panels at Dr.A.P.J.Abdul Kalam Bhavan**



- 2. Solar water heaters on the top of Women's Hostel**



3. **Solar Street Lights**

Solar street lights are installed along the road side from NH-5 high to Main entrance Gate and also in the premises of Pinakini and Swarnamukhi Ladies Hostel. Seven solar street lights were donated by Swarna Toll Highways and 18 butterfly model type solar lights of 18 Watt capacity were purchased from Non-conventional Energy Development Corporation of Andhra Pradesh (NEDCAP) following the University Procedures.

S. No	Location	Watts	Quantity	Total WATTS
1	Main road/Approach Road	18x2	36	648
2	Swarnamukhi Ladies Hostel	18	07	126



Solar Lights at the Entrance Road to VSU

Solar panels at Main Entrance Road/Approach Road



Solar Street Lights in front of 'Swarna Mukhi Women Hostel'



4. Sensor-based energy conservation

Sensor Based Light Energy System



Sensor Based Light Energy System



5. Use of LED bulbs/ power efficient equipment

Introduction of LED Fixtures

LED bulbs or lights LED light fixtures consume 80% of less energy compared to fluorescent lights. However, LEDs convert 95% of energy into light with only 5% being wasted as heat. Hence in addition to saving energy and LED lights are eco-friendly. LED lights save are being used for all new interior renovation works in the Administrative Building or SPSR Bhavan. So far, 4.9 KW capacity of LED fixtures are fixed as listed below

S. No	Room & Building	Watts	Quantity	Total WATTS
1	Vice-Chancellor Chamber, SPSR Bhavan	24	11	264
2	Registrar Chamber, SPSR Bhavan	24	06	144
	Seminar Hall, SPSR Bhavan	250	18	4500

Vice-Chancellor Chamber, SPSR Bhavan





Led lighting arrangement at Sir C V Raman Seminar Hall



ISO Certificate for Implementation of Energy Saving Practices



Certificate

HYM International Certifications Pvt. Ltd.

Certified that the Energy Management System of

VIKRAMA SIMHAPURI UNIVERSITY

Nellore, Andhra Pradesh - 524 320, India

has been assessed and found to be in accordance with the requirements of the Energy standards

ISO 50001 : 2018

for the following scope of certification

IMPLEMENTATION OF ENERGY SAVING PRACTICES

Further information about the scope of this certificate and applicability of ISO 50001 : 2018 requirements may be obtained by consulting the organization.

Issue Date : 29/10/2021

1st Surveillance 28/10/2022

Renewal Date : 28/10/2024

2nd Surveillance 28/10/2023



Authorised Signature

Certificate No : **En9186414083**

HYM International Certifications Pvt. Ltd

NOTE: This Certificate is Valid From 29/10/2021 to 28/10/2022

This is an accredited certificate authorized for issue by Accreditation Service for Certifying Bodies [Europe] Limited who have assessed M/s. HYM International Certifications Pvt. Ltd. against defined criteria and in cognisance of ISO 17021:2015 "Conformity Assessment - Requirements for bodies providing audit and Certification of management Systems".

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Regd. Office : Plot No. 265/C, Addagutta Society, Opp. JNTU, Kukatpally, Hyderabad - 500 072, Telangana State, India.
E-mail: siva@hymcertifications.com, Website: www.hymcertifications.com