

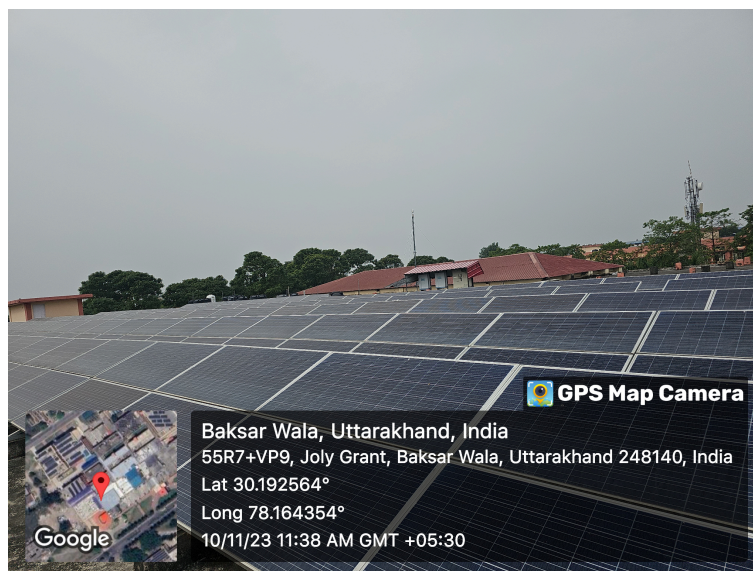
GOAL 7

SUSTAINABLE AND CLEAN ENERGY

Swami Rama Himalayan University (SRHU) acknowledges the significance of SDG-7 in establishing a sustainable future because of its emphasis on fusing sustainable practices with holistic education. The institution is dedicated to developing energy solutions that are affordable, dependable, and ecologically conscious. In order to support global sustainability goals, empower individuals and communities, and create a future where clean energy is widely available, SRHU aims to make a significant contribution to the accomplishment of SDG-7 through innovative research, community-based projects, and cooperation with regional and international stakeholders. The institute has facilities for energy saving and alternative energy sources.

1. Renewable Energy Integration

Solar Power Systems: The active promotion of solar energy systems is a component of Swami Rama Himalayan University's commitment to SDG-7. The institution lowers its carbon footprint, guarantees sustainable energy consumption, and aids in the switch to clean energy by utilising solar power. This project sets an example for the use of renewable energy sources and promotes environmental sustainability. The university is leading the way in implementing eco-friendly procedures in response to climate change and the growing concern for sustainable energy sources around the world. The 2017 installation of two rooftop solar power plants (1500 KW) on the campus of Swami Rama Himalayan University is one noteworthy step in this regard. ReNew Solar Power Ltd. has a power purchase agreement with the university to supply the electricity. [For more info](#)



Solar panels on the roof of the Himalayan College of Nursing

Waste to energy production: Biogas plant



The university has constructed a 4 M3/day biogas plant on campus that generates biogas from vegetable waste from the guest house kitchen and cow dung from its dairy. Through this program, 55.2 kg of LPG are saved each month (662.4 kg yearly), contributing to national energy conservation efforts. The guest house kitchen uses the biogas generated for cooking, encouraging sustainability by reusing organic waste. [For more info](#)



Biogas plant (Behind the university guest house)

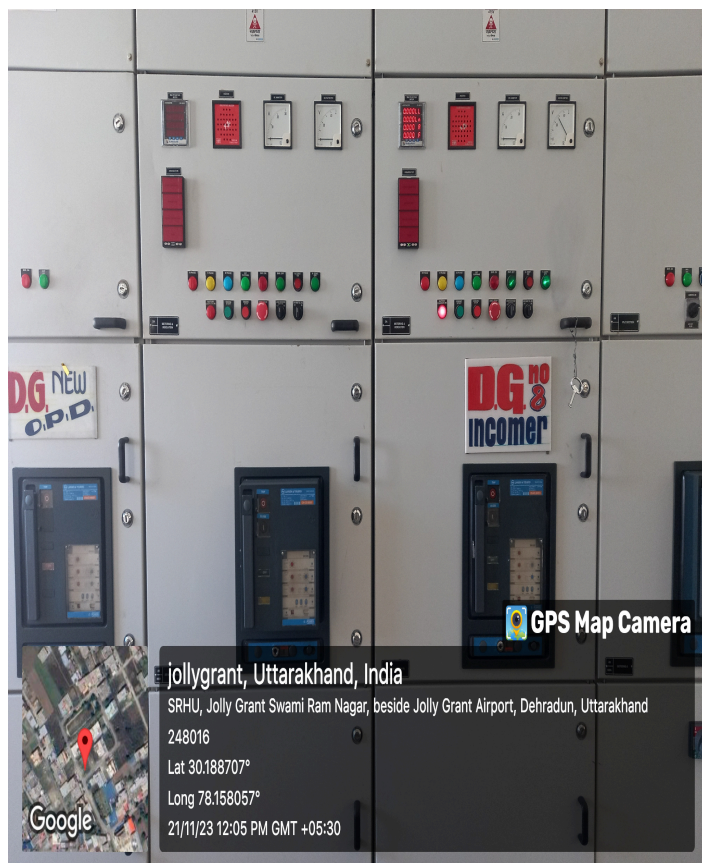
2. Energy Efficiency Measures

Use of LED bulbs/power-efficient equipment

In an effort to reduce its ecological footprint and electricity consumption, SRHU has implemented LED lighting for its campus. LEDs can cut electricity use by up to 80%, which lowers greenhouse gas emissions. To reduce energy waste, the university has also installed smart lighting solutions that use sensors and automated controls. Additionally, brushless direct current (BLDC) fans are used for increased comfort and energy efficiency. BLOC fans provide better airflow and use less electricity, which lowers costs and makes campus operations more sustainable. BEE-rated air conditioners have also been installed by SRHU, encouraging cost savings, increased indoor comfort, and energy efficiency. Reduced electricity costs can be used for educational or environmental projects. [For more info](#)

Sensor-Based Energy Conservation

SRHU is paying close attention to efficient energy conservation on campus. Passive infrared (PIR) sensors have been placed in a few spots on the university campus to measure the light (IR) emitted by objects in their field of vision. [For more info](#)



Diesel Generator Set panels with Automatic mains failure (AMF) and load balancing (Behind Main Hospital Building)



Motion based sensor lights at HSST building

3. Sustainable Energy Infrastructure

Green Practices at Swami Rama Himalayan University

Sustainability is ingrained in every aspect of our university's activities. We are committed to putting into practice strong green practices that include waste minimisation, energy efficiency, and community involvement. We aim to establish a campus that prioritises the health of our planet for present and future generations in addition to academic success by cultivating a culture of environmental stewardship.

[Video of SRHU Campus](#)

Some of the practices for fostering a green campus are:

1	Restricted entry of automobiles	For more info
2.	Battery-powered vehicles	For more info
3.	Pedestrian-friendly pathways	For more info
4.	Ban on use of Plastics	For more info
5.	Landscaping with trees and plants	For more info



1. Liquid waste management : STP

An innovative 1 MLD sewage treatment plant (STP) that uses MBBR technology and an extended aeration-activated sludge process treats the sewage from the campus, including the hospital. The state pollution control board's quality standards are met by the treated water, which is utilised for campus parks and green spaces irrigation, guaranteeing sustainability and environmental compliance.

S.No.	Name of the policy	Link to the relevant document
1.	Policy for General Waste Management	For more info



2.	Policy for Bio-medical Waste Management	For more info
3.	E-Waste Management Policies	For more info



Sewage Treatment Plant (Capacity: 1 MLD)

2. Wastewater treatment: ETP

In order to demonstrate its commitment to sustainability, the institution built a 90 KLD Effluent Treatment Plant (ETP) on campus. The substantial amount of wastewater produced every day by different campus operations, such as labs and laundry, is handled by this plant. In addition to reducing environmental hazards, SRHU maintains campus beauty and public health by cleaning this effluent. In order to preserve precious freshwater resources and uphold SRHU's dedication to environmental stewardship, the treated water is effectively recycled for non-potable applications like irrigation.



Effluent Treatment Plant (Capacity: 90 KLD)

3. Conservation of water (Rain Water Harvesting)

The medical college building's roof collects and stores rainwater in a 150 KL subterranean tank. The medical and nursing colleges utilise this water for cleaning and for their restrooms. The campus's excess rainfall is channelled to fourteen infiltration wells so that it can replenish subterranean aquifers. This environmentally friendly method aids with campus conservation and groundwater management initiatives.



Rainwater harvesting pits with filter bed recharge near Cardiac OPD building

4. Recycling and waste management

On campus, SRHU runs an 8 kg waste paper recycling facility to handle paper waste from different offices and educational institutions. The envelopes used in university offices are produced from recycled handmade paper. Additionally, a compost pit is used to treat biodegradable garbage that has been gathered throughout campus, creating organic fertiliser for the university's gardens and nurseries. Additionally, SRHU has its own Bio-Gas plant close to the university guest house, using vegetable waste from the guest house kitchen and cow dung from the campus dairy to create biogas for cooking and organic waste recycling.



Waste paper recycling unit

5. Solid Waste Management:

The institution uses green and black bins positioned throughout the campus to separate biodegradable and non-biodegradable items at the source, thereby managing solid waste effectively. Every day, housekeeping employees gather the trash in coloured bags and deliver it to a central collection location. On-site composting of biodegradable garbage produces manure, and a biogas plant produces biogas from organic kitchen waste and cow dung.

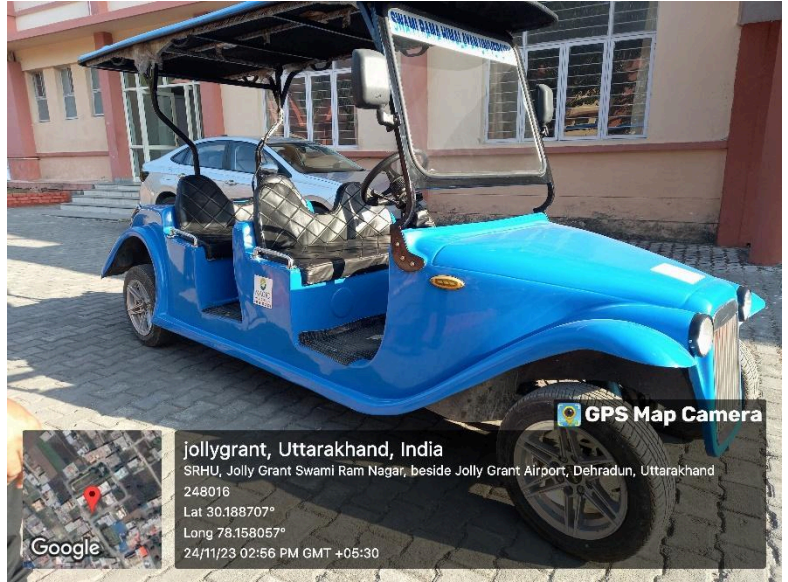


Collection of solid (general) waste from residences and hostels



Compost pit for disposal of biodegradable waste

6. **Vehicles that do not emit gases:** Battery powered vehicles



7. **Restricted entry of automobiles:**

For the purpose of reducing noise and air pollution on campus, automobile entry is restricted.



Restricted Entry of Vehicles in the University Campus



b. Green Audit (Certificate)



AUDIT CERTIFICATE

PRESENTED TO

Swami Rama Himalayan University

Swami Ram Nagar, Doiwala, Dehradun, Uttarakhand, India

Has been assessed by Ecoscience Consultancy for the comprehensive study of environmental impacts on institutional working framework to full the requirement of

Green Audit

(2023-24)

The green initiatives carried out by the university have been verified and found satisfactory in the report submitted.

The efforts taken by the management and the faculty towards environment and sustainability are appreciated and noteworthy.

ECOSCIENCE CONSULTANCY,
Lakshmi Vihar Colony, Bahadrapad
Haridwar, Uttarakhand- 249402 !

Dr. Gurpreet Singh
Dr. Gurpreet Singh
(Authorized Signatory)
Lead Auditor – Green & Environment Audits

Date: 24/01/2024





c. Energy Audit (Certificate)

ISO 50001:2018

Certificate of Registration

This is to Certify That
Energy Management System of

SWAMI RAMA HIMALAYAN UNIVERSITY
SWAMI RAM NAGAR, JOLLY GRANT, DOIWALA, DEHRADUN, 248140,
UTTARAKHAND, INDIA

has been assessed and found to conform to the requirements of
ISO 50001:2018
for the following scope :

PROVIDING EDUCATION UNDERGRADUATE (UG), POSTGRADUATE (PG) AND
DOCTORAL DEGREE PROGRAMS, RESEARCH, PHD AND HEALTH CARE
TRAINING COURSES

Certificate No	: 23EQNA76	
Initial Registration Date	: 11/09/2023	Issuance Date : 11/09/2023
Date of Expiry	: 10/09/2026	
1st Surve. Due	: 11/08/2024	2nd Surve. Due : 11/08/2025



DIRECTOR
Magnitude Management Services Pvt. Ltd.



Third Floor, A-66, Sector-2, Noida, Gautam Buddha Nagar, U.P. 201301, India. e-mail: info@mmcertification.com, website: www.mmcertification.com
*Subject to Successful Surveillance Audit a new Surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn
Certificate Registration. Please check the validity of certificate at <http://www.mmcertification.com/certificate> or www.mmcertification.com at India Client.
Certificate is the property of Magnitude Management Services Pvt. Ltd. and shall be returned immediately when demanded.



There is **ban on single use plastic** in the university





9. Landscaping with trees and plants



Gazebo at park area near Swami Rama Centre
Trees



Trees aligned at the road between Medical College and Himalayan Hospital, SRHU



4. Energy Awareness and Education

Swami Rama Himalayan University has conducted various environmental promotional activities.

List of beyond the campus environmental promotion activities of Swami Rama Himalayan University

SN	Activities	Date & Duration
1	Training on ODF Sustainability, Solid & Liquid Resource Management and Behavioural Change	2 - 4 /07/2018
2	Implementation of water Supply, spring shed and Sanitation Schemes	10/2019 – 12/ 2022 (3 Years)
3	Implementation of water Supply, spring shed and Sanitation Schemes	10/2019 – 12/ 2022 (3 Years)
4	Implementation of water Supply, spring shed and Sanitation Schemes	10/2019 – 12/ 2022 (3 Years)
5	Implementation of water Supply, spring shed and Sanitation Schemes	10/2019 – 12/ 2022 (3 Years)
6	Implementation of water Supply, spring shed and Sanitation Schemes	10/2019 – 12/ 2022 (3 Years)
7	Implementation of water Supply, spring shed and Sanitation Schemes	10/2019 – 12/ 2022 (3 Years)
8	Implementation of water Supply, spring shed and Sanitation Schemes	10/2019 – 12/ 2022 (3 Years)
9	Implementation of water Supply, spring shed and Sanitation Schemes	10/2019 – 12/ 2022 (3 Years)
10	Preparation of Village Action Plan (VAP) and Formation of Village Water & Sanitation Committee (VWSC)	5/ 2020
11	Training on Participatory Planning, Implementation and Operation & Maintenance for Har Ghar Jal	4-8/10/2021
12	Training on Innovative Technologies for Har Ghar Jal	7-11/12/2021
13	Online Training Program on Long- term Sustainability, Security, Recharge and	15-16/12/2021



	Management of Drinking Water Sources ⁵	
14	Online Training Program on Rainwater Harvesting & Ground Water Recharge	21-22/12/2021
15	3 days Training program on key components of Jal Jeevan Mission (JJM)	27-29/12/2021
16	Online Training Program on Grey Water Management	27-28/01/2022
17	Training on Jal Jeevan Mission for Har Ghar Jal	24-27/02/2022
18	Online Training Program on Innovative Technology	8-9/03/2022
19	3 days training and Capacity Building on Jal Jeevan Mission for Har Ghar Jal	5-7/04/2022
20	2 days Training Capacity Building of Implementation Support Agencies (ISAs) under Jal Jeevan Mission	13-14/06/2022
21	Training on Issues, Challenges and Solutions in Spring based Water Supply Systems	30/8-1/9/2022
22	2 days Training & Capacity Building of Implementation Support Agencies (ISAs) under Jal Jeevan Mission	12-13/10/2022
23	One day training program on Jal Jeevan Mission (JJM) at Nyay Panchayat Level	8/12/2022
24	2 days training & Capacity Building on Change Management (Role as Public Health Engineers) And Activities for Har Ghar Jal	20-21/12/2022
25	Training on WASH Services during Disaster and Emergencies	27-28/01/2023
26	One day training program on Jal Jeevan Mission (JJM) at Nyay Panchayat Level Date: 05 May 2023	5/5/2023
27	One day training program on Jal Jeevan Mission (JJM) at Nyay Panchayat Level Date: 06 May 2023	6/5/2023



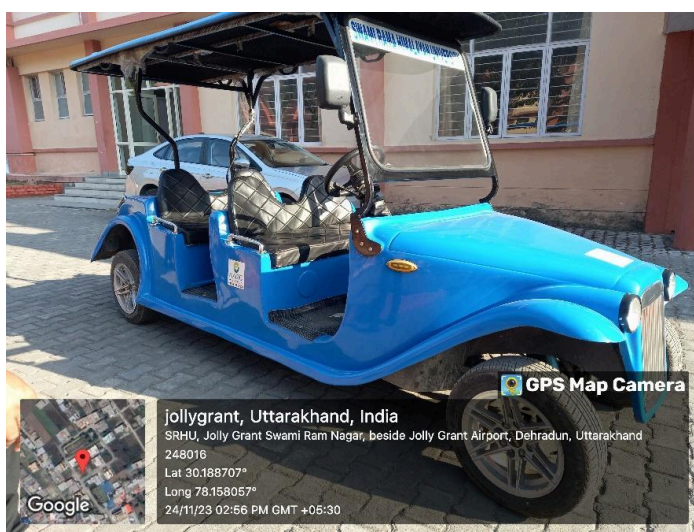
28	One day training program on Jal Jeevan Mission (JJM) at Nyay Panchayat Level	25/5/2023
29	Training on Direct injection of treated rainwater in aquifer recharge, revival of springs & spring shed management, spring-based water system and innovative technologies for mountainous area	21-23-06/2023
30	Training on Issues, Operation and Maintenance (O&M) of water supply systems, Utility approach & tariff collection mechanism	26-28/06/2023
31	Swachhta Pakhwada	23/01/2020
32	Plantation Drive at Gauhari Mafi Village, Raiwala, Dehradun	20/09/2023

[For more info](#)



5. Sustainable Transport

Vehicles that do not emit gases: There are 2 Battery powered vehicles and Bicycles at Swami Rama Himalayan University.



- **Reduced Carbon Footprint in Commuting:(Certificate)**



6. Collaboration and Partnerships

Swami Rama Himalayan University has worked with numerous organisations to manage solid waste. Management of liquid waste Management of biomedical waste Management of e-waste mechanism for recycling garbage and managing radioactive and hazardous materials. [For more info](#)



स्वामी राम हिमालयन विश्वविद्यालय
Swami Rama Himalayan University

7 AFFORDABLE AND
CLEAN ENERGY

