



**SWAMI VIVEKANAND**  
**SUBHARTI**  
**UNIVERSITY**  
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*Where Education is a Passion...*



# Report on UN SDG 13 — Climate Action



University's contributions in achieving  
UN SDG — 13  
Year - 2024



# Report on UN SDG 13 - Climate Action

Climate change is one of the most critical challenges of the 21st century, affecting ecosystems, livelihoods, health and economic stability across the globe. Recognising its social responsibility as a higher-education institution, Swami Vivekanand Subharti University, Meerut has consciously aligned campus policies, academic programmes and extension activities with the United Nations Sustainable Development Goals (SDGs). Among these, SDG 13 – Climate Action is a central focus, as it calls for urgent measures to combat climate change and its impacts through mitigation, adaptation, education, and international cooperation.

In 2024, the university strengthened its climate-action portfolio through a combination of:

- **Campus-level green infrastructure and policy measures** (waste management, renewable energy, water conservation);
- **Awareness and capacity-building programmes** for students, faculty and staff;
- **Community outreach initiatives** in nearby rural areas and villages;
- **Academic conferences and seminars** that directly addressed climate change, net-zero transitions and sustainable environment; and
- **Student-led campaigns** that connected lifestyle choices with environmental impacts, especially in food, waste and resource use.

These initiatives were coordinated primarily by the **University Environment Committee**, various **NSS units**, and different constituent colleges, especially the **Bhikaji Cama Subharti College of Hotel Management**, **Sardar Patel Subharti Institute of Law**, faculties under **AYUSH**, and departments under the **Faculty of Arts and Social Sciences**.



## Institutional Framework and Green Campus Infrastructure

The **University Environment Committee**, has played a central role in designing and monitoring environment- and climate-related initiatives at SVSU. It coordinated the **World Environment Day 2024 celebrations**, tree-plantation drives and campus awareness activities, and regularly involves deans, faculty representatives and student council members in planning.

Through policy directions and regular events, SVSU has nurtured a “**green campus culture**” in which tree-plantation, waste management, water conservation and energy efficiency are treated as integral parts of academic life, not as isolated activities.

### Green Technologies: STP, ETP, Rainwater Harvesting and Solar Parking

A key dimension of SDG 13 is **mitigation and adaptation through infrastructure**. Under the **Swachhata Hi Seva Campaign** in 2024, **Sardar Patel Subharti Institute of Law** organised educational visits for students to the **Sewage Treatment Plant (STP)** and **Effluent Treatment Plant (ETP)** on campus, where they learnt about processes for treating wastewater, maintaining water quality and enabling reuse.



Students were also oriented to:

- The **rainwater harvesting systems** installed on campus and how they help recharge groundwater and reduce dependence on external water sources;
- The **solar-panel-equipped parking facility**, which demonstrates the university's commitment to **renewable energy** and reduced carbon emissions; and
- The campus's **zero-waste policy**, emphasising waste segregation at source and minimising waste generation in canteens and other facilities.

These initiatives combine physical infrastructure with student education, directly serving SDG 13 (climate action) and SDG 6 (clean water and sanitation) by reducing emissions, conserving resources and building resilience against water stress.

## **World Environment Day 2024 – Campus-wide Climate Action**

### **Campus Celebration and Symbolic “Uncaging of Birds”**

On **5 June 2024**, SVSU celebrated **World Environment Day** with great enthusiasm on its green campus. The event, organised by the **University Environment Committee**, was attended by the Vice Chancellor, CEO, deans, faculty members and student representatives.

The programme began with a unique **“Birds Uncaging Ceremony”**, where caged birds were released into their natural habitat by the Vice Chancellor, CEO and other dignitaries. This symbolic gesture highlighted the values of **living in harmony with nature**, wildlife conservation and respect for all forms of life—ideas that resonate strongly with climate and biodiversity protection.

Speakers emphasised:

- The urgent need to conserve forests and natural resources;
- The importance of adopting **environment-friendly practices** in everyday life; and
- The role of youth in acting as climate ambassadors within and beyond the campus.

### **Tree-Plantation Drive and Long-term Stewardship**

Following the inaugural ceremony, a **tree-plantation drive** was held in which dignitaries, faculty members and students planted a variety of saplings across the campus. Each tree was **tagged with the name of the participant** to instil a sense of belonging, responsibility and long-term stewardship.

This initiative contributes to **climate-change mitigation** through:

- **Carbon sequestration**, as planted trees absorb CO<sub>2</sub> over their lifetime;
- **Micro-climate regulation** within the campus; and
- **Biodiversity enhancement**, providing habitat and shade for birds and small fauna.

The World Environment Day events also included educational and interactive sessions designed to deepen understanding of environmental issues and climate change among the university community, thereby strengthening climate literacy.

## **World Environment Day Outreach Campaign at Kalanjari Village**

The **Bhikaji Cama Subharti College of Hotel Management** extended World Environment Day beyond the campus by organising an **outreach campaign in Kalanjari Village**. Faculty members, students from BHMCT, MHMCT and B.Voc (Hospitality & Tourism) programmes, village community members and school students actively participated.



Awareness sessions focused on:

- How deforestation, pollution and unsustainable consumption contribute to climate change;
- Simple community-level measures for environmental protection—using less plastic, conserving water and planting trees;
- The link between a healthy environment and livelihood security for rural households; and
- The responsibility of hospitality professionals to adopt sustainable practices, such as energy-efficient kitchens and low-waste operations.

These sessions helped build climate awareness among villagers who are often on the front line of climate impacts, such as extreme heat, irregular rainfall and crop stress.

### **Plantation of Over 100 Saplings and Community Engagement**

As part of the campaign, **over 100 saplings** were planted in and around Kalanjari village, contributing to local greening and long-term climate mitigation.

The campaign’s documented outcomes included:

1. **Increased environmental awareness** among villagers and students on the importance of conservation;
2. **Contribution to local ecology**, as planted trees will improve air quality, provide shade, and support biodiversity over time;
3. **Enhanced community engagement**, with villagers and students jointly planting and pledging to care for saplings; and
4. Establishing a foundation for **ongoing environmental efforts** in the village.

By taking World Environment Day into a rural setting, SVSU advanced SDG 13 targets related to **awareness-raising and capacity-building**, while also supporting **SDG 15 (Life on Land)** and **SDG 11 (Sustainable Communities)**.

## **“Ek Ped Maa Ke Naam” – Campus Tree-Plantation Campaigns**

In 2024, SVSU aligned with the national initiative **“Ek Ped Maa Ke Naam”**, launched by the Prime Minister on World Environment Day, encouraging every citizen to plant at least one tree in honour of Mother Earth.

The **University Environment Committee** organised a central **Tree Plantation Program** under this campaign, inaugurated by the Vice Chancellor and CEO. More than 100 participants—including students, faculty members and staff from various colleges—planted saplings across the campus.



The Registrar explained that the purpose of “**Ek Ped Maa Ke Naam**” is to cultivate love for nature as one would for one’s mother, and to raise awareness about environmental conservation and climate protection.

### **Department of Languages Plantation Activity and Climate Literacy**

The **Rahul Sankrityayan Subharti School of Linguistics and Foreign Languages** further contributed by organising its own plantation programme on **9 August 2024**, again under “**Ek Ped Maa Ke Naam**”. Faculty and students planted **Jamun (Indian blackberry) saplings** within the campus.

The event connected **cultural, health and environmental dimensions** of climate action:

- The campaign was described as a way to prevent land degradation, soil erosion and falling water levels through afforestation.
- Deans and faculty explained how Jamun trees provide fruit, shade and ecological benefits while also having religious and cultural significance.
- Participants took an oath to plant at least one tree each, reinforcing personal responsibility for the planet.

### **NSS-Led 100-Day Plantation Initiative**

The **NSS Cell** of SVSU also launched “**Ek Ped Maa Ke Naam**” as part of a **100-day initiative programme**. NSS volunteers were tasked with planting trees at various locations over a month and participating in the state government’s **Tree Plantation Campaign – 2024**.



Senior university leaders emphasised that:

- Campus greenery reflects SVSU’s dedication to environmental balance;
- A Jamun garden is being developed on both sides of **Bhamashah Marg** within the campus; and
- Tree plantation is essential to “save the next century,” underlining the long-term climate perspective. [Subharti University News](#)

## Climate-Conscious Lifestyles: Food, Planet and Health

University’s **National Service Scheme (NSS) Cell** received a **Certificate of Appreciation** from **Vegan Outreach**, an international non-profit organisation, for awareness activities on “**How our food choices affect our environment and animals**” under the “**Food–Planet–Health**” initiative.



These activities focused on:

- The environmental footprint of different diets, especially the high greenhouse-gas emissions associated with intensive animal agriculture;
- The benefits of vegetarian and plant-based food choices in reducing carbon and methane emissions, conserving water and protecting biodiversity; and
- Ethical aspects of animal welfare linked to climate justice.

Through lectures, discussions and interactive sessions, NSS volunteers engaged students in critically examining how everyday lifestyle decisions—what we eat and how it is produced—directly influence climate change.

### **Integration into Student Volunteering and Community Work**

The appreciation from Vegan Outreach recognised not only one-off events, but also a **pattern of consistent engagement** by university's NSS Cell in environmental and climate-related themes, including earlier recognition by government ministries for cleanliness drives and the Fit India Run.

By embedding environmental ethics into volunteer work, the NSS Cell helps students:

- Develop an understanding of **climate justice**, linking environmental outcomes to human and animal well-being;
- Translate awareness into **behavioural change**, such as reduced food waste or more climate-friendly dietary choices; and
- Take this message to their families and communities, multiplying the impact beyond campus.

## **Seminar on Culture, Heritage, Environment and Water Conservation**

Under the **Namami Gange programme**, a seminar titled “**Culture Heritage, Environment & Water Conservation**” was organised by MASCHNYS.

The seminar linked climate change to:

- Degradation of the **Ganga River ecosystem** due to global warming, deforestation and industrial waste;
- The vulnerability of aquatic life and riverine communities to rising temperatures and water pollution; and
- The broader impact of climate change on soil fertility, biodiversity and human livelihoods.



## Modern Technologies for Water and Waste Management

The seminar introduced students to **modern technologies** that support climate adaptation and mitigation:

- **Rainwater harvesting** and groundwater recharge systems;
- **Industrial waste management** and treatment techniques to reduce contamination;
- **Water-efficient agricultural practices** that reduce stress on river systems; and
- **Waste-to-resource models**, turning potential pollutants into useful inputs.

Participants were encouraged to minimise plastic use, plant trees, and support river-cleaning campaigns, reinforcing behaviour aligned with SDG 13 and SDG 6.

## Swachhata Hi Seva Campaign – Climate-Relevant Behavioural Change

During the **Swachhata Hi Seva Campaign (17 September – 1 October 2024)**, Sardar Patel Subharti Institute of Law implemented and promoted a **zero-waste policy** at the college level: encouraging waste segregation at source, reducing plastic use in canteens, and minimising overall waste generation.

Students learned about:

- The climate implications of waste burning and landfilling (methane emissions, air pollution);

- The environmental benefits of **reduce–reuse–recycle (3R)** practices; and
- How proper segregation enables recycling and composting, preventing greenhouse-gas emissions.

### **Nukkad Natak on Waste and Climate Awareness**

On the final day of the campaign, law students performed a **Nukkad Natak (street play)** near the college premises to convey messages about waste segregation, recycling and responsible disposal.

Through relatable everyday scenes, the play:

- Demonstrated how individual negligence (throwing plastic, mixing wet and dry waste) contributes to environmental degradation;
- Showed positive examples of households and communities practising segregation and recycling; and
- Emphasised that every citizen has a role in climate action by managing waste properly.

An audio jingle on Swachhata Hi Seva was played regularly in the college and shared on WhatsApp groups to amplify the message.

## **National Science Day and Cleanliness for Climate-Resilient Communities**

During the **National Science Day Celebration 2024**, SVSU organised model-making competitions using **waste materials** and a campus **cleaning drive** in line with the **Swachh Bharat Mission**.

Key climate-relevant aspects included:

- **Promoting circular economy thinking**, as students designed scientific models and exhibits from discarded materials;
- A powerful talk on **cleanliness, health and environmental conservation**, linking hygiene to overall well-being and resilience; and
- Joint participation of students and sanitation personnel in cleaning, symbolising respect for sanitation workers and shared responsibility for a healthy environment.

Such activities cultivate scientific temper and environmental ethics, both essential for climate-aware citizenship.



## Academic Conferences on Climate Change and Sustainable Environment

In 2024, Bhikaji Cama Subharti College of Hotel Management hosted the 9th International Conference on Synergizing Sustainable Technologies and Management Practices (STAMP-2024) in collaboration with the Food Safety and Drug Administration, Government of Uttar Pradesh.



The conference:

- Provided a platform for national and international experts to discuss **innovative approaches to sustainability** in tourism and hospitality;
- Featured **over 20 keynote addresses** and multiple technical sessions, including paper presentations by researchers from India and abroad; and
- Emphasised the **integration of technology and policy in tackling climate change**, with keynote speakers outlining roadmaps to achieve **net-zero emissions** through innovation.

Participants left with a renewed commitment to sustainable practices in their disciplines, aligning hospitality and tourism strategies with climate goals.

### Next-Generation Agriculture for Sustainable Environment & One Health (NASEH-2024)

The university also hosted an international conference on “**Next Generation Agriculture for Sustainable Environment & One Health**” (NASEH-2024), focusing on sustainable farming practices, environmental health and integrated “One Health” approaches that connect human, animal and ecological well-being.



While detailed proceedings may be accessed from conference documents, the overarching goals were to:

- Promote **climate-smart agriculture** that reduces greenhouse-gas emissions, soil degradation and water use;
- Encourage research on **bio-diverse, regenerative farming systems**; and
- Highlight cross-sectoral partnerships between academia, industry and government for climate-resilient food systems.

## SDG-Themed National Conference on Indian Knowledge System

The National Conference on “Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation” (20–21 November 2024) further consolidated SVSU’s intellectual engagement with SDGs. Topics included inclusive education, environmental ethics and sustainable lifestyles, all of which intersect with SDG 13 by shaping values and policies for climate-conscious development.



7 Days National Workshop On  
RESEARCH METHODOLOGY & STATISTICAL APPLICATION (RMSA 2025)  
07th to 13th May, 2025  
Organized by  
Department of Physical Education, Faculty of Education  
In collaboration with  
Physical Education Foundation of India (PEFI)

# SEVEN DAYS NATIONAL WORKSHOP ON RESEARCH METHODOLOGY & STATISTICAL APPLICATION (RMSA 2025)

## About Conference

National Conference  
on  
“INDIAN KNOWLEDGE SYSTEM IN CONTEXT OF SUSTAINABLE DEVELOPMENT GOALS: ALIGNMENT AND  
EVALUATION”

Organized by  
Department of Education, Faculty of Education, Swami Vivekanand Subharti University, Meerut  
In collaboration with  
Council for Teachers Professional Development, India &  
University Faculty Development Cell, SVSU, Meerut

Date: 20th November 2024 & 21st November 2024

### About the Department of Education

Department of Education, a constituent college of Swami Vivekanand Subharti University, Meerut was established in 2008, duly recognized by NCTE. The Department of Education is offering various degree courses like B.Ed., B.El.Ed., M.Ed., Ph.D. Department of Education lays emphasis to develop research oriented, competent, ethically and morally awakened teachers who can groom future generations for being responsible and accountable citizens of the country

**About the Theme:** The Sustainable Development Goals adopted by United Nations in 2015 targets Global Prosperity at optimum level by 2030. It has 17 Goals and covers exhaustively all the important aspects of human development extending from poverty to partnership for the goal. It has incorporated all the essential dimensions through social, economic and environmental sustainability, which will take the progress of mankind to its zenith.

The Indian Knowledge System; which dates back to Vedic era; has been a beacon of light for Indian society in past as well as present generations. The rich knowledge embedded in the Indian Knowledge System can prove to greatly enhance our understanding about the proud heritage of India and remind us of its glorious past. It has touched all the important dimensions of development ranging from astronomy, science, mathematics, town planning, medicine, literature, grammar, philosophy, warfare technology, yoga, fine arts, etc.

It will be a matter of great interest to probe into the reflection of the Indian Knowledge System in UN Sustainable Development Goals as the objectives of both of them is human progress and development. Delving into this thought-provoking theme will hint at the brilliance of Indian intellect and its functioning in the futuristic direction.

### Sub Themes:

1. Indian Knowledge System for the Conservation and Protection of the Environment
2. Education and Prosperity in context of Sustainable Development Goals
3. Gender Equality in Education and Sustainable Development
4. Indian Knowledge System and Innovations for enhancing Human Development
5. Indian Knowledge System for Peace and Justice at Global Level
6. Ancient Indian Education for Quality Life
7. Process of Teaching Learning and Sustainable Development Goals
8. Indian Science and Sustainable Development Goals
9. Indian Medicine and Sustainable Development Goals
10. Well - being and Sustainable Development Goals
11. Education for Conservation of Energy Resources
12. Education for Economic Growth
13. Government Initiatives and Evaluation of Sustainable Development Goals

## **Water Conservation Drive and Hotel-Management Initiatives**

Subharti College of Hotel Management organised a **Water Conservation Drive on 22 March 2024**, demonstrating efficient use of water in hospitality operations and creating awareness among peers about responsible use of this critical resource.

Water conservation is a key climate-adaptation measure, especially in regions vulnerable to drought and groundwater depletion. Through such drives, SVSU trains future hospitality professionals to make climate-sensitive decisions in their workplaces.

Across 2024, **Swami Vivekanand Subharti University, Meerut** delivered a **multi-layered response to SDG 13 – Climate Action**, integrating:

- **Mitigation efforts** such as tree-plantation under “Ek Ped Maa Ke Naam”, green campus initiatives, solar-panel parking, and waste-reduction measures;
- **Adaptation strategies** through water-conservation drives, STP/ETP infrastructure and seminars on river and water management under Namami Gange;
- **Climate education and awareness** via World Environment Day celebrations and outreach campaigns, NSS Food–Planet–Health activities, National Science Day eco-models, Swachhata Hi Seva street plays, and SDG-oriented conferences;
- **Community engagement**, particularly in rural villages such as Kalanjari, and through NSS-led plantation campaigns, ensuring that climate action extends beyond the campus boundary.

Swami Vivekanand Subharti University, a premier institution of higher learning in India, has taken significant strides in aligning its campus and academic culture with the United Nations Sustainable Development Goal 13: Climate Action, which calls for urgent steps to combat climate change and its impacts. Climate change remains one of the most pressing global challenges of our era, caused primarily by rising greenhouse gas emissions from energy use, transport, deforestation, and waste mismanagement. Universities, as centers of learning and knowledge creation, bear the dual responsibility of not only educating future generations but also modeling sustainable practices that contribute to carbon neutrality and resilience. In this regard, has emerged as a pioneer in institutional climate action, adopting a multi-faceted approach that combines renewable energy, afforestation, sustainable transport, compulsory environmental education, and awareness campaigns. The university’s initiatives are not limited to symbolic measures but reflect a deep, data-driven commitment to actual reduction in carbon emissions, ensuring that the campus becomes a living laboratory of sustainability. The integration of solar power generation, extensive

plantations, the introduction of 45 electric vehicles, and widespread awareness programs, along with the compulsory teaching of Environmental Science across all courses, exemplify how an institution can localize SDG 13 into measurable, impactful outcomes that resonate globally.

#### **University-wide Initiatives -**

- Implements **solar power systems** across rooftops, laboratories, and hostels to reduce reliance on fossil fuels.
- Uses **LED lighting, energy-efficient appliances, and smart electrical systems** throughout the campus.
- Conducts regular **energy audits** to monitor consumption and identify efficiency improvements.
- Encourages **green transportation**, including bicycles and electric vehicles for students and staff.
- Operates a **Sewage Treatment Plant (STP)**; treated water is reused for irrigation and landscaping, reducing water stress.
- Implements **waste segregation, recycling, and composting** to minimize landfill contributions and methane emissions.
- Ensures sustainable disposal of biomedical, chemical and e-waste across university facilities.
- Regularly conducts **extensive tree plantation drives** and maintains green spaces to enhance carbon sequestration.
- Promotes **native plant species** to support biodiversity and ecosystem health.
- Maintains eco-friendly landscaping aligned with sustainable urban planning principles.
- Supports **climate change research** across Environmental Science, Engineering, and Science faculties.
- Encourages **student-led projects** on renewable energy, sustainable agriculture, and climate risk mitigation.
- Regularly conducts **climate modelling, pollution monitoring, and environmental impact studies** to inform campus and community practices.
- Organizes **climate awareness campaigns, workshops, and seminars** for students, faculty, staff, and local communities.
- Integrates **climate change modules into curricula** across faculties, especially Science, Engineering, and Management.
- Participates in global events like **Earth Day, Climate Week etc.**
- **NSS and NCC units** conduct village-level climate awareness drives, tree planting, and sustainable agriculture programs.
- Faculty and students engage in **public talks, street plays, and community workshops** on climate mitigation and adaptation.

**Initiatives taken by the university:** One of the most impactful measures taken by has been the installation of solar energy systems with a generation capacity of approximately 2097 kWh. In

India, much of the grid electricity comes from coal-based thermal power plants, with an average emission factor of about 0.82 kg of CO<sub>2</sub> per kWh of electricity generated. This means that for every unit of conventional electricity consumed, significant amounts of greenhouse gases are released into the atmosphere. By generating 2097 kWh of clean solar energy, effectively offsets **around** 1715 kilograms of CO<sub>2</sub> emissions per month, which adds up to over 20.5 metric tons of CO<sub>2</sub> avoided annually. This reduction is equivalent to the amount of carbon absorbed annually by nearly 950 mature trees, highlighting the substantial climate benefit of this renewable energy initiative. Beyond direct emission savings, the solar installations serve as educational resources for students, offering practical insights into renewable technologies and encouraging a culture of energy efficiency. By reducing dependency on fossil fuels and integrating renewable energy into campus operations, not only lowers its carbon footprint but also contributes to India's broader goals under the Paris Agreement to increase renewable energy adoption and reduce emissions intensity. The financial savings from reduced electricity bills further make this project economically sustainable, reinforcing the principle that climate action can bring both environmental and economic dividends.

Equally impressive is University's commitment to afforestation through the plantation of more than 19,900 trees and plants across the campus, transforming the university into a vibrant green hub within Meerut city. Trees are often referred to as the "lungs of the planet" because of their ability to absorb carbon dioxide during photosynthesis and release oxygen. On average, a mature tree can absorb approximately 21 kilograms of CO<sub>2</sub> per year. Considering this estimate, the 19,900 plantations within the university collectively absorb over 417 metric tons of CO<sub>2</sub> annually, providing a massive natural carbon sink that offsets emissions not only from campus activities but also from the surrounding region. The trees also offer multiple co-benefits: they reduce local air pollution, moderate urban heat island effects by lowering ambient temperatures, recharge groundwater through improved soil structure, and provide habitats for birds, insects, and small animals, thereby enhancing biodiversity. The plantation drives at the university are often carried out with active participation from students and faculty, which fosters environmental stewardship and ensures that the act of planting is coupled with the responsibility of nurturing. Over the long term, as these trees grow, their carbon sequestration potential will increase even further, amplifying the climate benefits. Thus, the plantation program represents one of the university's most significant contributions to SDG 13, combining mitigation, adaptation, and ecosystem restoration in a single initiative.

Another notable step taken by to reduce its environmental impact is the adoption of 45 electric vehicles (E-vehicles) within the campus for internal transport. The transportation sector is a major contributor to greenhouse gas emissions, particularly through the use of petrol and diesel vehicles. On average, a small petrol car emits around 120 grams of CO<sub>2</sub> per kilometer. Assuming that a conventional campus shuttle or vehicle travels approximately 10,000 kilometers per year, each such vehicle would emit about 1.2 metric tons of CO<sub>2</sub> annually. By replacing 45 conventional vehicles with electric ones, the university has potentially avoided over 54 metric tons of CO<sub>2</sub> emissions each year. This figure becomes even more significant when considering that the

university's solar infrastructure can be used to charge these vehicles, making the transportation system not only emission-free but also powered by renewable energy. Beyond emissions reduction, electric vehicles reduce noise and air pollution, making the campus cleaner and healthier for students and staff. They also serve as live demonstrations of sustainable mobility solutions, raising awareness and normalizing the use of green transportation among young learners. This initiative reflects a progressive vision that goes beyond immediate carbon savings, as it prepares students to embrace the transition to electric mobility in their personal and professional lives.

In addition to infrastructure and technology-based measures, the university recognizes that awareness generation and education are vital for sustained climate action. The university actively organizes and celebrates international and national environmental observances such as World Environment Day, World Ozone Day, International Biodiversity Day, and other global initiatives related to sustainability. These events are marked by a wide range of activities, including seminars, expert lectures, workshops, poster competitions, rallies, and student-led campaigns. The primary aim of these programs is to cultivate climate literacy and encourage students to see themselves as active participants in the fight against climate change. For example, celebrating World Ozone Day provides an opportunity to discuss the importance of protecting the ozone layer and reducing the use of ozone-depleting substances, while World Environment Day brings attention to specific global themes such as air pollution, biodiversity conservation, or ecosystem restoration. By participating in these events, students gain knowledge, develop creative solutions, and adopt sustainable practices in their daily lives. Awareness activities also extend to the surrounding communities through outreach programs, ensuring that the university's impact on climate action is not confined to the campus but also benefits the larger society. Through consistent engagement, the university ensures that climate awareness becomes a cultural value and not just a one-time activity, thereby ensuring long-term behavioral change.

Perhaps the most far-reaching initiative of the university in terms of long-term impact is its decision to make Environmental Science a compulsory subject across all disciplines. This academic requirement ensures that every student, whether they are pursuing medicine, engineering, management, law, humanities, or any other course, gains foundational knowledge about climate change, biodiversity, pollution control, sustainable development, and environmental management. Education is the cornerstone of sustainable development, as it equips individuals with the knowledge and values necessary to make informed decisions and adopt environmentally responsible lifestyles. By mandating environmental education, the university ensures that thousands of graduates each year leave the university not only with professional skills but also with climate literacy. Over time, these graduates will carry their awareness into their careers, families, and communities, multiplying the impact manifold. This initiative is directly aligned with SDG 13's target of improving education, awareness, and institutional capacity on climate change mitigation, adaptation, and early warning. In this way, the university is not just addressing climate action at the level of infrastructure but also embedding it in the intellectual and moral development of its students, ensuring that the values of sustainability become part of their identity as responsible global citizens.

The cumulative carbon benefits of the university's initiatives are profound. The solar installations save over 20.5 tons of CO<sub>2</sub> annually, the plantations absorb more than 417 tons of CO<sub>2</sub> every year, and the electric vehicles reduce emissions by at least 54 tons annually, adding up to nearly 492 metric tons of CO<sub>2</sub> reduction or offset each year.

Beyond these measurable outcomes, the intangible impacts of awareness programs and compulsory environmental education further amplify the university's contribution to climate action by fostering a culture of sustainability that will influence future generations. These figures demonstrate that the university's initiatives are not symbolic but quantitatively significant, reflecting a serious institutional commitment to combating climate change.

The Swami Vivekanand Subharti University has firmly established itself as a model of institutional climate responsibility through its multi-pronged approach to SDG 13: Climate Action. By investing in renewable energy, expanding green cover, promoting sustainable transport, organizing awareness campaigns, and mandating environmental education, the university has created a holistic framework that addresses both mitigation and adaptation. The quantifiable reduction of nearly 492 tons of CO<sub>2</sub> annually demonstrates the tangible impact of these measures, while the intangible benefits of education and awareness ensure long-term continuity and expansion of climate action beyond the campus. university's initiatives show that climate action is not limited to large-scale government policies or international treaties but can and must be localized in educational institutions, where young minds are shaped, habits are formed, and values are nurtured. The university has proven that it is possible to combine academic excellence with environmental responsibility, creating a campus that is not only a place of learning but also a living demonstration of sustainability. In doing so, university not only contributes to the fight against climate change but also prepares a generation of climate-conscious leaders who will continue this mission in society at large. Through its commitment to SDG 13, the university embodies the principle that local actions can create global impact, and that the journey toward a sustainable future begins with conscious choices in our own surroundings.



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University Environment Committee  
is  
Celebrating  
**World Environment Day**  
**5th June 2023**

World Environment Day - June 5

**#BeatPlasticPollution**

Venue: Garud Udyaan Timings: 09 am to 11 am







Meerut, Uttar Pradesh, India  
XJ4M+XM9, Meerut, Uttar Pradesh 250002, India  
Lat 28.957561°  
Long 77.633881°  
16/09/23 10:19 AM GMT +05:30



Meerut, Uttar Pradesh, India  
XJ4M+XM9, Meerut, Uttar Pradesh 250002, India  
Lat 28.957437°  
Long 77.63426°  
05/06/23 03:27 PM GMT +05:30

The objectives of Swami Vivekanand Subharti University, in alignment with the United Nations Sustainable Development Goal (UNSDG) - 13, along with the University's contributions towards achieving these objectives, are outlined below:

| UNSDGs and University's Objective  | University's Contribution Towards Achieving its Objectives  |
|--|---|
| <p><b>SDG 13: Climate Action</b></p> <p><b>University Objective:</b><br/> <b>To reduce the university's carbon footprint through energy efficiency and the use of clean energy, and to educate the campus community on the impacts of climate change and necessary adaptation/mitigation strategies.</b></p> | <p><b>Faculty of Medicine -</b></p> <ul style="list-style-type: none"> <li>• Raises awareness of <b>climate-related health risks</b>, such as heat stress, vector-borne diseases, and pollution-related illnesses.</li> <li>• Organizes <b>community health camps</b> integrating climate-sensitive health practices.</li> </ul> <p><b>Faculty of Dental Sciences -</b></p> <ul style="list-style-type: none"> <li>• Implements <b>eco-friendly dental practices</b> to reduce chemical use and energy consumption.</li> </ul> <p><b>Faculty of Nursing -</b></p> <ul style="list-style-type: none"> <li>• Trains students in <b>climate-resilient healthcare practices and disaster preparedness.</b></li> </ul> <p><b>Faculty of Allied Health Sciences &amp; AYUSH -</b></p> <ul style="list-style-type: none"> <li>• Promotes <b>environmental wellness</b>, sustainable lifestyles, and eco-conscious therapeutic practices.</li> </ul> <p><b>Faculty of Engineering &amp; Technology -</b></p> <ul style="list-style-type: none"> <li>• Leads research on <b>renewable energy, energy-efficient systems, and smart infrastructure.</b></li> <li>• Projects include <b>solar optimization, IoT-based energy monitoring, and waste-to-energy systems.</b></li> </ul> <p><b>Faculty of Science -</b></p> <ul style="list-style-type: none"> <li>• Conducts <b>climate modelling, environmental monitoring, and carbon sequestration studies.</b></li> <li>• Engages students in <b>air quality assessments, water quality monitoring, and climate resilience projects.</b></li> </ul> <p><b>Faculty of Fine Arts -</b></p> <ul style="list-style-type: none"> <li>• Organizes <b>eco-awareness art projects, exhibitions, and creative campaigns</b> to communicate climate action messages.</li> </ul> <p><b>Faculty of Management and Commerce -</b></p> |

- **Educates students on** sustainable business models, green entrepreneurship, and climate risk management.

**College of Hotel Management -**

- Implements **sustainable hospitality practices**, including energy and water efficiency, and waste minimization.

**Faculty of Arts and Social Sciences -**

- Produces **campaigns, documentaries, and media content** to raise climate awareness.
- Conducts research and seminars on **climate policy, environmental governance, and community resilience**.
- Trains students and communities on **sustainable household practices, resource efficiency, and eco-friendly living**.
- Provides **resources on climate change, sustainable development, and environmental management**.
- Promotes **ethical responsibility, mindfulness, and eco-conscious values** for environmental conservation.

**University-wide Initiatives -**

- Implements solar power systems across rooftops, laboratories, and hostels to reduce reliance on fossil fuels.
- Uses LED lighting, energy-efficient appliances, and smart electrical systems throughout the campus.
- Conducts regular energy audits to monitor consumption and identify efficiency improvements.
- Encourages green transportation, including bicycles and electric vehicles for students and staff.
- Operates a Sewage Treatment Plant (STP); treated water is reused for irrigation and landscaping, reducing water stress.
- Implements waste segregation, recycling, and composting to minimize landfill contributions and methane emissions.
- Ensures sustainable disposal of biomedical, chemical and e-waste across university facilities.
- Regularly conducts extensive tree plantation drives and maintains green spaces to enhance carbon sequestration.
- Promotes native plant species to support biodiversity and ecosystem health.
- Maintains eco-friendly landscaping aligned with sustainable urban planning principles.

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|  | <ul style="list-style-type: none"><li>• Supports climate change research across Environmental Science, Engineering, and Science faculties.</li><li>• Encourages student-led projects on renewable energy, sustainable agriculture, and climate risk mitigation.</li><li>• Regularly conducts climate modelling, pollution monitoring, and environmental impact studies to inform campus and community practices.</li><li>• Organizes climate awareness campaigns, workshops, and seminars for students, faculty, staff, and local communities.</li><li>• Integrates climate change modules into curricula across faculties, especially Science, Engineering, and Management.</li><li>• Participates in global events like Earth Day, Climate Week etc.</li><li>• NSS and NCC units conduct village-level climate awareness drives, tree planting, and sustainable agriculture programs.</li><li>• Faculty and students engage in public talks, street plays, and community workshops on climate mitigation and adaptation.</li></ul> |
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