



## Report of the initiatives adopted for UN-Sustainable Development Goals

### 🌱 Title of the SDG: AFFORDABLE AND CLEAN ENERGY

**Objective of the SDG** The goal of Sustainable Development Goal 7 (SDG 7), "Affordable and Clean Energy," is to make sure that everyone has access to modern, affordable, dependable, environmentally friendly, and sustainable energy. In order to assist developing nations in developing sustainable energy practices, this aim highlights the necessity of promoting renewable energy sources, expanding energy infrastructure, and improving energy efficiency. It seeks to accomplish this objective in order to promote global health and well-being, slow down climate change, and promote economic growth.

**THE CONTEXT:** The University is making progress towards Goal 7, with encouraging signs that energy is becoming more sustainable and widely available. Access to electricity to each house has begun to accelerate, energy efficiency continues to improve, and renewable energy is making impressive gains in the electricity sector. By expand infrastructure and upgrade technology for supplying modern and sustainable energy services

**The Practice:** With reference to SDG target 7.1, Subharti University is working for the conservation of energy resources by converting old equipment's in new energy efficient equipment's.

- With reference to SDG target 7.2, Subharti University has installed Solar Water Heater systems on rooftops of approximately all hostels for hot water facility to the



residents/students. Total 40 Solar Water Heater systems are installed with 2500 LPD capacity.

- A two megawatt solar panel has been put on campus by the university, and efforts are ongoing to expand the number of solar panels implemented in order to boost production. All energy demands can potentially be satisfied by solar energy.
- With reference to SDG target 7.3, 50 sensor based lights were installed inside the university campus. Which automatically switch on and off with solar light intensity.

### 🌱 Evidence of Success





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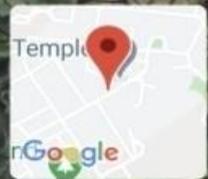




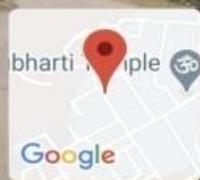
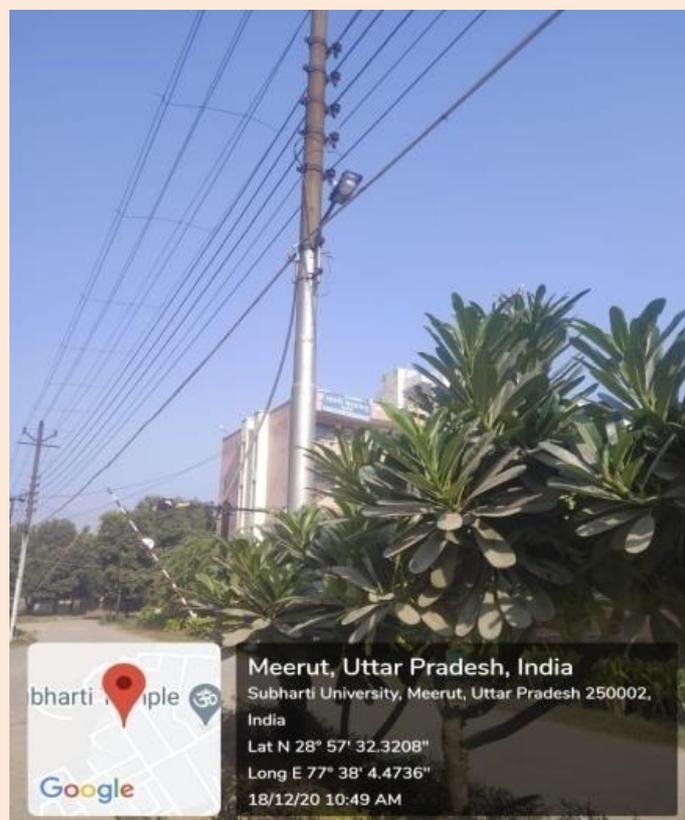


# SWAMI VIVEKANAND SUBHARTI UNIVERSITY™

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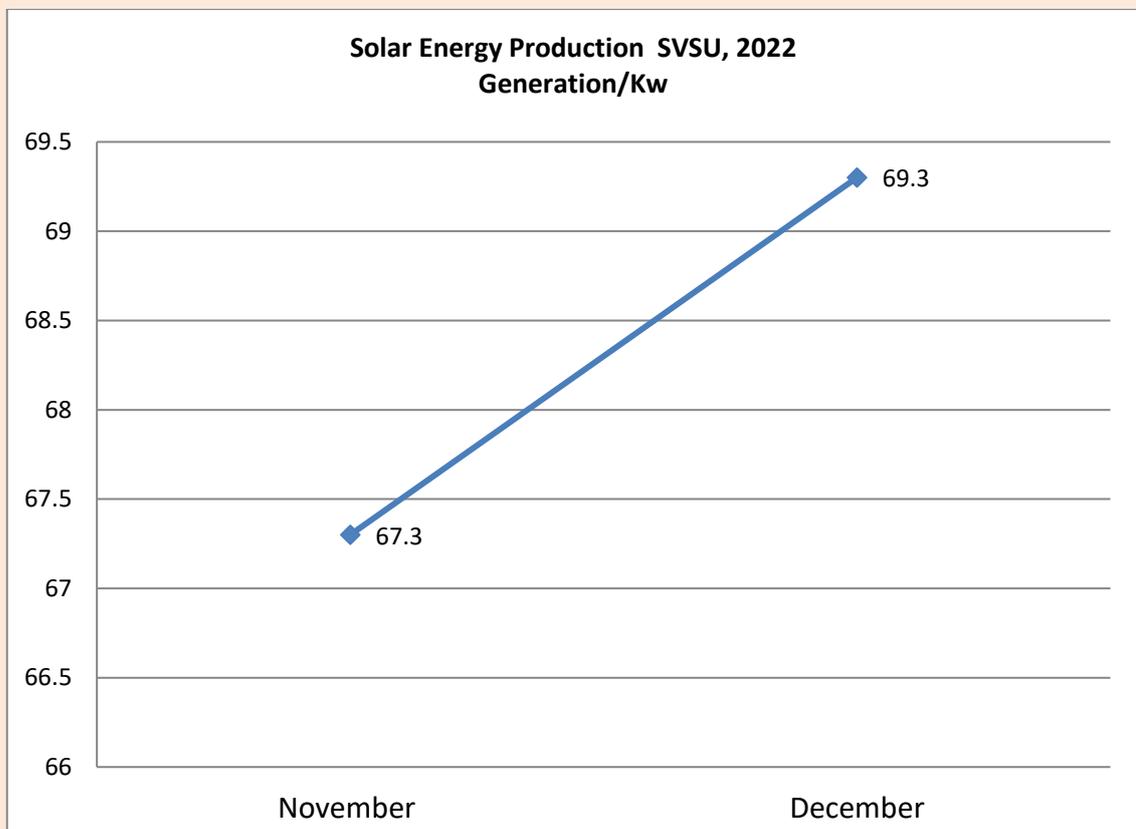
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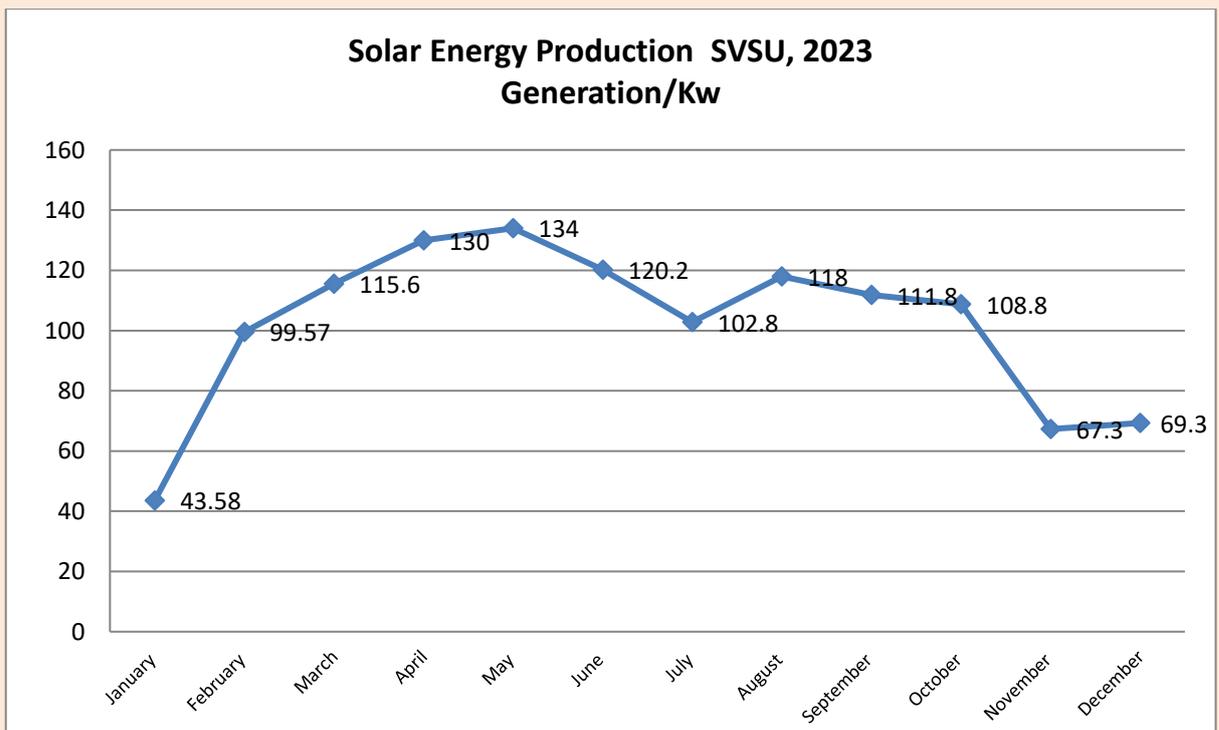


Solar Energy Production Swami Vivekanand Subharti University, Meerut, UP, Year 2022	
Month	Average Generation/Kw
November	67.3
December	69.3



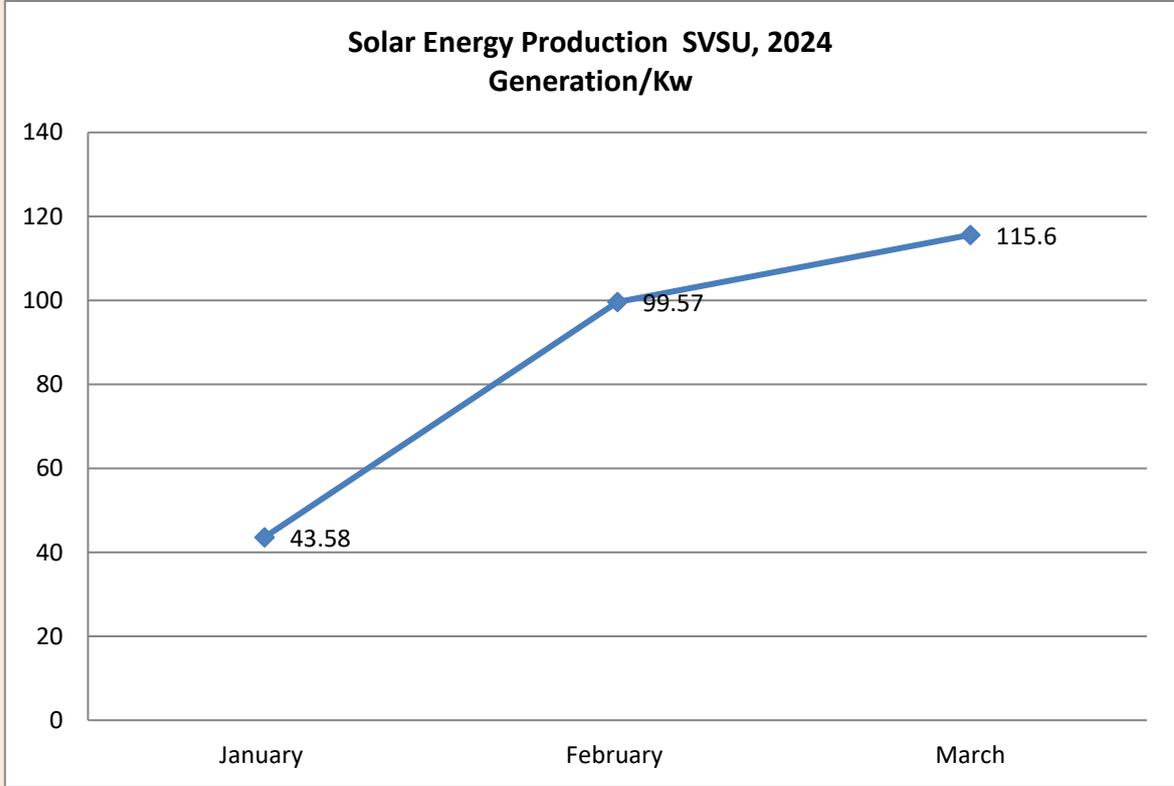


Solar Energy Production Swami Vivekanand Subharti University, Meerut, UP, Year 2023	
Month	Average Generation/Kw
January	43.58
February	99.57
March	115.6
April	130
May	134
June	120.2
July	102.8
August	118
September	111.8
October	108.8
November	67.3
December	69.3





Solar Energy Production Swami Vivekanand Subharti University, Meerut, UP, Year 2024	
Month	Average Generation/Kw
January	43.58
February	99.57
March	115.6





### ⊕ Problems encountered and Resources Required:

- **Financial Restraints:** It may be difficult to make the switch from conventional energy sources due to limited funds that prevent investments in energy-efficient renovations and renewable energy technology.
- **Policy and Regulatory Challenges:** The adoption of sustainable energy solutions may be hampered by the lack of encouraging institutional or governmental policies and incentives.
- **Education and Awareness:** It's possible that staff members and students don't fully comprehend the significance of energy sustainability and how to attain it.
- **Operational Difficulties:** It can be difficult to provide a steady and dependable energy supply from renewable sources, particularly on days when there are few natural resources available (cloudy days for solar power, for example).

### **Resources Needed**

- **Financial Investment:** Sufficient funds are required for energy-efficient projects like smart energy management systems and LED lighting, as well as for the installation of renewable energy sources like wind turbines and solar panels.
- **Supportive Policies and Incentives:** The adoption of clean energy solutions may be accelerated by institutional policies that support sustainable energy consumption as well as by financial incentives like grants, tax breaks, and subsidies.
- **Educational Programmes:** May increase awareness and develop capacity by including energy efficiency and sustainability into the curriculum and by providing staff and students with workshops and training sessions.
- **Research and Development:** Funding for studies centred on energy-efficient methods and renewable energy technology might produce creative answers suited to the requirements of the institution.



### **Suggestions:**

- By investing in clean energy sources such as solar energy (target to achieve 100% solar based light system in the coming year).
- Use of all energy efficient gadget.
- More use of solar heating system (target to convert all the light operated water cooler into solar operated water cooler-one solar operated water cooler is already running in the campus).
- New construction will focus on Green building concept.
- Use of light colour to minimised electricity consumption.
- By focussing on R & D related to alternative fuel sources.
- Try to educate or motivate students to work on such types of project and we can convert it as a start-up.