



AMITY UNIVERSITY
MADHYA PRADESH



Affordable and Clean Energy

Ensure access to affordable, reliable, sustainable, and modern energy for all

Sustainable Development Goal (SDG) 7 is Affordable and Clean Energy, which aims to ensure access to affordable, reliable, sustainable, and modern energy for all by 2030. Key aspects of SDG 7 include increasing access to electricity and clean cooking fuels, boosting the share of renewable energy in the global energy mix, and improving energy efficiency.

Our **Environmentally Conscious Campus** integrates sustainable features including solar panels, sewage treatment plants, rainwater harvesting, a ban on single-use plastics, and prioritizes green, energy with routine environmental audits, fostering a commitment to a cleaner and greener future for all

With an aim to promote clean and green energy, the University has successfully installed roof top solar panels in its Academic Blocks with a total capacity of 305 KW. The electricity bill has been reduced by its earlier amount approximately 10% per month of the total bill amount.



Keeping in view the Global warming and changing climate action consequences Amity University Madhya Pradesh taken urgent action to combat climate change and its impacts by Plantation of more than 15000 trees in the campus.



The University has maintained the existing and added to the Land scape Environment of the Campus. The layout of the land has not been disturbed, and existing hill features have

been used for layout of the entire Campus. This has made the campus layout beautiful and has been appreciated by all dignities and visitors visiting the campus.

The borewells dug in the campus have not enough ground water to yield water continuously. Half numbers of the borewells dry up during continuous pumping. To recharge these existing borewells and to restrict the out-flow of rainwater Amity University arranged to construct 10 Nos of Water Harvesting Pits of capacity 35,000 ltrs at various location (Water Catchment Area) to conserve rainwater. The above has brought sea change in saving of rainwater and has thus improved the water level, of our borewells which helps us in meeting our water requirement in peak summers.

Research Areas at AIRAE and AIARS: Amity Institute of Renewable and Alternative Energy are

Photovoltaic Devices: Organic and Inorganic

3rd Generation Solar Cells based on Nanomaterials

Synthesis of Nanomaterials

Chemical, Gas, and Bio-Sensors based on Nanotechnology

Organic Light Emitting Diodes

Applications of nanotechnology in Microbiology

Water Purification using Nanomaterials

Bio-Nano Technology

The AUMP has taken major initiatives to attain the objectives SDG-7. Following activities have been carried out during the academic year 2023-24:

- 1) Organized International Workshop On Current Scenario, Future Perspective And Challenges Technological Advancements In Renewable Energy: (Iwtare 2024) (Online Mode Dated: 18 March, 2024)

The details of this International workshop can be accessed through the following link:

<https://www.amity.edu/gwalior/event-detail-normal.aspx?Event=13875&Events=Events>



Addressed by Chief Guest, Dr. Nitin Labhsetwar, Chief Scientist & Head Energy & Resource Management Division, CSIR-NEERI and Professor AcSIR

Department of Environmental Science, Amity School of Life Sciences, Amity University Madhya Pradesh (AUMP), Gwalior (MP) organized an International Workshop on Technological Advancements in Renewable Energy: Current Scenario, Future Perspective and Challenges (**IWTARE 2024**) in Online Mode.

2) Observed National Science Day-2024 ON Theme: Indigenous Technologies for Viksit Bharat, 16 Feb 2024.

The details of this International workshop can be accessed through the following link:
<https://www.amity.edu/gwalior/event-detail-normal.aspx?Event=14074&Events=Events>



3) Workshop on Rotary Vacuum Evaporator (Buchi, India Pvt Ltd) dated 9th May, 2024.

Program details can be accessed through the following link:

<https://www.amity.edu/gwalior/event-detail-normal.aspx?Event=14053&Events=Events>



4) Industrial Visit at Crompton Greaves power and industrial solutions , Gwalior dated 20th Oct, 2023

Program details can be accessed through the following link:

<https://www.amity.edu/gwalior/event-detail-normal.aspx?Event=13428&Events=Events>





5) Observed World Environment Day 2024 at AUMP (dated 5th June, 2024)

Program details can be accessed through the following link:

<http://amity.edu/gwalior/event-detail-normal.aspx?Event=14077&Events=Events>

