

Report on SDG 7 - Affordable and Clean Energy

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 55000 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 liters 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