GITAM : Progress Report on Affordable and Clean Energy (SDG 7)

Clean energy gives a variety of environmental and economic advantages, including air pollution reduction. An assorted clean energy supply diminishes the use of imported fuels.

Towards using clean energy and minimizing energy usage on campus, all the buildings follow green energy efficiency standards ECBC 2017.

In 2020, a few faculty members of the School of Architecture, GITAM, became 'Certified Chartered Engineers' of the Indian Green Building Council and ASSOCHAM's GEM Sustainability Certification.

All the appliances are of BEE star rated. In 2019, the total capacity of 100 KW LED lights were purchased to replace the old light fittings to decrease the power consumption by 40%.

Necessary Capacitor Banks and Reactive Power Compensation gadgets are added to improve the 'power factor and energy safety and efficiency.

In some instances, Harmonic Arrestors, Surge absorbers are also employed as a part of energy management.

GITAM has an MOU with the thirty parties to measure air quality on the campus every month. Battery-operated cars are maintained to reduce carbon emissions on the campus,

GITAM grows 30000+ 'Bheema Bamboo'plants which have a potential for carbon-absorbing (5 plants can absorb 1,600 kg of CO_2).

In recent years, GITAM invested in renewable energy sources, approximately four crores INR in solar energy. Currently, It has 1570 KWp solar power generation capacity, which accounts for 35% of its total power consumption.

GITAM also invested in the bio-gas plant, which complements the energy demand o the University. This year, University invested in the 'digital kitchen' to reduce the dependency on oil and gas resources.

GITAM new constructions/renovations are being carried out, with the Green building concept where energy efficiency, water conservation efficiency, and national and international standards.

GITAM has the Air Pollution Monitoring Lab, Environmental Monitoring Lab, Earth

Sciences Lab, Environmental Biology Lab, and Earth Science and Research, which are open for visit by the local middle level & High School and +2 students.

GITAM has organized a Workshop on “Green Business Ideas” on 19th June 2019in association with Climate Launchpad India, which stressed the need for alternative energy and presented an overview of research on novel materials to combat climate change.

The startup “VERTSOL – Greening the Blue” is a startup that aims to build an affordable and eco-friendly motor that uses air, water and gravitational energy, instead of electricity or fuels, to pump water from the ground for irrigation purposes, thereby contributing to a low-carbon economy.

The startup “HydroGravitricity” generates electricity as a renewable energy solution for people living in buildings with a minimum height of 40 feet. While doing so, we also filter grey water at a lower price (when compared to existing renewable energy solutions) and is a startup of low-carbon technology.