



Sant Dynaneshwar Shikshan Sanstha's
Annasaheb Dange College of Engineering and Technology, Ashta

The Institution has facilities for alternate sources of energy and energy conservation measures

The institute has dedicated Electrical Work Committee which takes care of future power requirement, safety, planning, expansion, maintenance, billing, conservation and green power initiatives etc. of electrical power. The regular measures (and activities) undertaken for Energy Audit and conservation at ADCET campus, are as follows:

- Well-designed Grounding and lightning systems are in place and functional.
- The cable and transformer sizing is as per energy efficiency norms.
- A 100 kWp solar PV system is installed on the campus to generate green power and generated energy through this system is connected to the grid with a net meter.
- Hostels are equipped with solar water heating systems.
- The old non-working fluorescent tube lights are replaced with energy efficient LED lamps.
- The old non-working sodium vapor street lights are replaced with energy efficient LED street lamps.
- The old fans are replaced with energy efficient fans.
- The inefficient Air conditioners and other equipment are replaced by energy efficient ones.
- State of the art substation is commissioned to meet the power requirement of the campus.
- Fire extinguishers are placed at appropriate locations.
- The load is well balanced at the substation level. Power factor and other power quality issues are monitored and kept under control.

Solar energy

Solar energy rooftop panel system project costing 5,565,000 Rs/- of capacity 100 kWp is installed on building rooftops in ADCET generating around 400 units/day, which contributes 25% to 30 % of total consumption of electricity. Also, around 100 Solar based street lights are installed on college campuses.

Wheeling to the Grid

The institute is HT consumer with a maximum demand of 399 kVA and an 11kV feeder. It has a 100 kWp solar PV generation plant. Generated energy through this system is connected to grid with a net meter facility. Monthly on an average 12,000 unit electricity is generated through this system

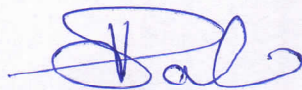
Sensor-based energy conservation

IoT-based Automatic Street lights are installed on the college campus, which is turned on automatically when at night time with 33% power and they will glow in full mode for 2MIN AT 100% with motion.

Use of LED bulbs/power-efficient equipment.

Traditional tubes are being replaced by LED bulbs. At present 70% of lighting power, requirements are met through LED bulbs/ tube lights. The old fluorescent tube lights are getting replaced with energy-efficient LED lamps. The old sodium vapor street lights are replaced with energy-efficient LED street lamps. The inefficient Air conditioners and other equipment are replaced by energy efficient ones.




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