



DHARAMPET M. P. DEO MEMORIAL SCIENCE COLLEGE NAGPUR

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

1. **Solar Energy:** Since 2018, 50kVA On-Grid solar panels have been deployed. The total amount of the year's electricity expenses has been significantly decreased. Students are also taught environmental responsibility as and when necessary.
2. **Biogas Plant:** We already use the green trash to create compost that is beneficial for plantations. However, we anticipate constructing a biogas plant soon.
3. **Whiling to Grid:** Our 50 kVA solar facility is entirely of the On-grid variety.
4. **Sensor-based energy conservation:** Most appliances, including refrigerators, drinking water coolers, air conditioners, and other electronic equipment, have thermostats or temperature controllers built in, which may effectively reduce the amount of electricity used. But in the near future, electric water pumps, fans, and lighting will all be automated. Few lights are based on light sensor and are deployed for trial.
5. **Use of LED bulbs/ power efficient equipment:** We currently have a strategy in place to replace older CFC/tube lights with LED bulbs when they become defective or fused. There are now a lot of LED lamps installed. The LED/LCD displays are also used to replace computer systems that use CRT tubes. The CRTs were sent to recycling businesses for disposal or reuse in an environmentally acceptable manner. When buying fresh, invertor mode devices are preferable.

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