Solar energy and energy efficiency

Bidholi and Kandoli campuses · cleaner power for the campus

SOLAR POWER	SOLAR WATER HEATING	LIGHTING	POWER FACTOR
100 kW photovoltaic plant	61,500 litres a day	LED only, since 2015	Kept near unity

Overview

UPES generates part of its own power from a 100 kW solar photovoltaic plant and heats water with solar water heating systems of 61,500 litres a day, both maintained under a planned preventive maintenance schedule.

Solar energy

- The 100 kW solar PV system feeds the campus electrical network, with real-time monitoring of generation and regular maintenance.
- Solar thermal collectors heat water for hostels, laboratories and other campus needs.

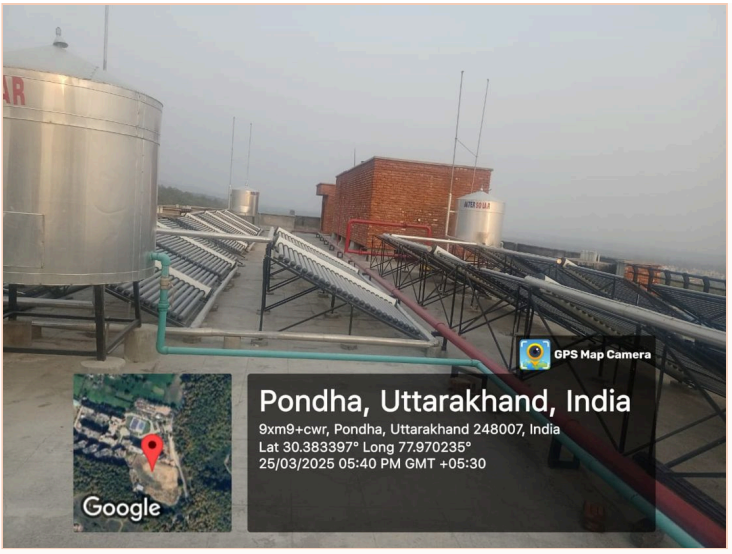
Energy efficiency

- Since 2015 UPES has used only energy-efficient LED lighting as a policy, replacing conventional fittings in phases.
- 50 infrared sensors in washrooms switch off lights when no one is there, and the power factor is kept close to unity to avoid energy loss.
- As a policy, no non-star-rated equipment or conventional lights are bought.

Photographs



Solar photovoltaic panels on campus.



Solar water heaters on a hostel roof.

Source: records of the UPES Administration and Technical Services departments.

Sustainable and digital infrastructure | SDG 9 report

UPES, Dehradun, Uttarakhand. UPES activity toward UN Sustainable Development Goal 9: Industry, Innovation and Infrastructure.