

Topic: Solar DC power for Residential and Business Sectors

Faculty Name: Prof.Ashok Jhunjunwala, IITM

Department: Electrical Engineering.

Relevant Semester/Year : 3rd /4th year

Relevant Course : Power Systems

Pre-Requisite : Knowledge of power electronics is preferable

Course Description & Outline :

- DC powering for appliances: Use of direct DC power rather than AC power to power appliances: Efficiencies, Availability, Costs
- Direct DC power from Solar PV: Use of solar PV power without DC – AC converter – efficiencies, implementation
- Integrating batteries on DC power lines.
- Concept of Uninterrupted DC Power for residential sector; load-management to bridge Demand – Supply Gap