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Chapter 1 : Conventional Generation, Load Curves and Tariffs **1-1 to 1-77**

Syllabus : Generation scenario in India and Gujarat

Steam power station, Schematic arrangement of steam power station, Equipments of steam power station, Hydro-electric power station, Schematic arrangement of hydro-electric power station, Constituents of hydro-electric plants, Nuclear power station, Schematic arrangement of nuclear power station, Nuclear reactor, Gas turbine power plant, Schematic arrangement of gas turbine power plant, comparison of various power plants.

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(B) Concentrated Solar Power (CSP) plant Operation and its working, Photovoltaic Conversion – Introduction, Description and principle of working, performance characteristics of a solar cell, types of solar cell, photovoltaic system applications, Stand-alone PV system configurations, Grid-connected PV systems.

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