

What is a base load power plant?

A power plant that supplies electrical power continuously throughout the year is called a base load power plant. A power plant that supply electricity during the hours of peak load only is called a peak load power plant. The base load power plants operates for 24 hours of a day.

What is the main source of energy in a power station?

As is obvious, the major source of generation is coal based thermal power plant. Thermal, nuclear and hydro powers are known as conventional energy sources which is the subject matter of this course. Lecture Notes Power Station Engineering Department of Electrical Engineering, Veer Surendra Sai University of Technology Burla Page 13

What is a central power station?

An electricity generation station which is not made for the self uses of the industries is known as a Central power station. It generates more power than the captive power plant. It is suitable for large scale power generation. These stations are located outside of the end users and connected to a high voltage transmission network.

What are the components of power station engineering?

Lecture Notes Power Station Engineering Department of Electrical Engineering, Veer Surendra Sai University of Technology Burla Page 27 Power House 1. Hydraulic turbines 2. Electric generators 3. Governors 4. Gate valves 5. Relief valves 6. Water circulation pumps 7. Air ducts 8. Switch board and instruments 9. Storage batteries 10. Cranes

What is the difference between base load and peak load power plants?

The power generating capacity of a base load power plant is high. The peak load power plants generally have low power generating capacity. The firm power capacity (power generating capacity which can be guaranteed to be available at a given time) of a base load power plant is high. The peak load power plants have low firm power capacity.

How a power station works?

In periods of peak demand, the power station is operated in the generating mode i.e. water from the upper pond is drawn through the same water conduit system to the turbine for generating power. Mixed pumped-storage plants.

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