

NEW PUBLICATION

“Energy Audit in Thermal Power Stations”

Thermal Power has been dominating Indian power generation scenario. It will be the dominant source of conventional electric power in the coming years also. In 2005 the thermal capacity was 103 GW. As per International Energy Agency it is likely to go up to 385 GW in 2030 out of which 295 GW is expected to be 295 GW Thermal.

Energy Audit is an important step towards identifying the factors contributing to inefficient operation of a power station compared to the designed values. In case of thermal stations this is very important, because it identifies areas where attention has to be paid for remedy. Studies carried out in the course of energy audit involves review of the design and actual operational values of equipment and auxiliaries. It is intended to ensure that the performance of each section of generation process is as near as possible to the design specification.

Council of Power Utilities (CPU) has brought out in December 2007 the publication titled “Energy Audit in Thermal Power Stations” containing practices followed in some utilities in India and abroad. The following are the contents of the publication which has a 165 pages:-

1. Energy Audit
2. Energy Audit in Thermal Power Plants-CEA's Experience
3. Energy Audit: CESE Limited- Budge-Budge Generating Station
4. The Route to Efficient Power Production
5. Technical Paper on equipment efficiency Monitoring-Presentation by Hindalco Industries Limited (Renusagar Power Division)
6. Power Quality and Energy Audit Facility at Electrical Engineering Department of Jamina Milla Islamia, Delhi
7. Energy Audit Software
8. Case Studies
 - a. Thermal Power Plant Performance Audits At Trombay Power Station-The Tata Power Co. Ltd., Mumbai
 - b. Energy Audit in Thermal Power Station-Damodar Valley Corporation, Bokaro
 - c. Energy Audit in thermal Power Station- Chhattisgarh State Electricity Board, Korba East
 - d. Plant Design & Performance data for GIPCL-Surat Lignite Power Plant
 - e. Hindalco Industries Ltd. (Renusagar Power Division)
 - f. Input Proforma for Energy Audit in Thermal Power Station (Presented by CPU)

The information have been collected from different sources including Internet. The sources of information are indicated under each article/paper. We are thankful to the authors of these articles/features.

The publication will be useful to the Thermal Power Station managers. Any suggestion for improvement/addition will be thankfully incorporated in the subsequent editions.

We are pleased to offer this Publication at a price of Rs.1500/- (Rupees fifteen hundred only). The publication can be had from the office of Council Of Power Utilities, A-2/158, Janakpuri, New Delhi-110058 India on payment by either in cash or by Demand Draft drawn in favour of Council Of Power Utilities payable on any Bank in Delhi/New Delhi only. The publication is for internal use only. The Government organisation may ask for an invoice advance.

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