


Website Update July 2008

Life Long Learning (3L) Programme - Workshops

Sector	Date	City	Venue of Workshop
 Fertilizer	1 st September 2008	New Delhi	Petroleum Conservation Research Association (PCRA), Sanrakshan Bhavan, 10 Bhikaji Cama Place, New Delhi – 110 066
 Pulp and paper	3 rd September 2008	Saharanpur	Central Pulp and Paper Research Institute, Paper Mill Road, Himmat Nagar, Saharanpur -247 0001 (U.P.)
 Chlor Alkali	11 th September 2008	Mumbai	Reliance Energy Management Institute, 19 Aarey Colony, Opp. Seepz North Gate No. 3, J-V Link Road, Goregaon (E), Mumbai 400065

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Applicants of the photo identity cards for the Certified Energy Managers (EM) & Energy Auditors (EA)

Applicants of the photo identity cards for the Certified Energy Managers (EM) and Energy Auditors (EA) may see the list to whom photo identity cards have been dispatched. The Certified EMs' & EAs' are requested to go through the following details for its correctness in connection with particulars:

- i. Registration No.
- ii. Name
- iii. Photograph
- iv. Signature

(Note: the contents of Identity Cards have been used from database provided by NPC, Chennai) In case of discrepancy/disagreement/non receipt of photo identity cards, the certified EMs' & EAs' are requested to inform Bureau, preferably by Email at rgarg@beenet.in or aks3l@energymanagertraining.com latest by **30th September, 2008** positively.

Mr. Rajiv Garg, Energy Economist, Bureau of Energy Efficiency, 4th Floor, Sewa Bhawan, R.K. Puram New Delhi – 110 066

"Power Plant Optimization" – Component

Thermal Power Plant Corner: Issue # 1: June 2008

Estimation of savings due to control of de-super heater water spray

Background:

A 140 MW thermal power generating unit, operating at 110 MW, was found to having main steam flow of 390 Ton/hr (TPH) at 120 kg/cm²(g) pressure and 536°C temperature (enthalpy = 822.9 kCal/kg). To control the super heat temperature, 30 TPH of water spray at 128 kg/cm²(g) and 170°C (enthalpy = 173.4 kCal/kg) was used in the de-super heater. The other operating parameters/ assumptions of the generating unit are as under:

Parameters/ Assumptions:

- (a) Main steam required at the above main steam pressure & temperature to generate 1 MW = 3.5 TPH.
- (b) Specific coal consumption = 0.65 kg/kWh
- (c) Coal GCV = 4,600 kCal/kg
- (d) Landed coal cost = Rs. 1,800 per ton
- (e) Expected steam consumption in the soot blowers after repair = 110 ton per day
- (f) Average revenue realised = Rs. 2 per kWh generated
- (g) Investment towards repairing of soot blowers = Rs. 4 crores
- (h) Boiler efficiency = 80%
- (i) Annual plant operating hours = 7000

Proposal:

The power plant plans to repair the existing steam soot blowers in order to improve the heat transfer within the boiler and to reduce the de-super heater water spray from 30 TPH to 7 TPH.

What will be the energy and money saving potential if the above proposal is implemented by the power plant management?

We are still receiving the solutions to the above issue and hence will be uploading all the best solutions received on our website in the first week of August 2008

Mr. K. K. Chakarvarti, Manager – Power Plant Component ppc@energymanagertraining.com



Presentations - Power Plant Workshop

Life Long Learning (3L) Programme



Adoption of Energy Efficient Process Technologies & Energy Management Practices in Power sector under Energy Conservation Act 2001

29th - 30th July 2008

Power Management Institute (PMI), (NTPC Ltd.), Plot No 5 -14, Sector – 16A, NOIDA, U.P.

Two Days Technical Workshop on **Adoption of Energy efficient process technologies & practices and implementation of Energy Conservation Act 2001 in Power Sector** at **NTPC Noida 29-30 July 2008**



Jens Burgdorf, Manager - Indo German Energy Programme

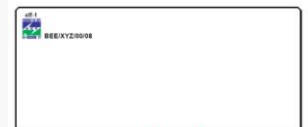


Workshop participants

Sections Updated

Power Plant Specialists (62), CDM Highlights July 2008. "Power Plant Optimization" – Component Technical Articles (10) & Equipment Suppliers list added, Open Resumes (07)

National Energy Labeling Programme



Induction Motor – eff1

Revised **Schedule 6 - Induction Motors - Three Phase Squirrel Cage** & Check List