



# National Level Interactive Session for Designated Consumers on PAT awareness under NMEEE

## MINUTES OF MEETING 10<sup>th</sup> FEBRUARY 2011-CHENNAI



National Level Interactive Session for Designated Consumer on  
PAT under NMEEE, 10<sup>th</sup> February 2011, Chennai



## National Level Interactive Session for Designated Consumers on PAT awareness under NMEEE

### Venue and Date for Interactive Sessions

Chennai
10 <sup>th</sup> February 2011 9.30 am – 2.00 pm <i>Sheraton Park Hotel &amp; Towers</i> TTK. Road, Chennai

### Tentative agenda for Interactive Sessions

9.30 am – 10.00 am	<i>Registration</i>
10.00 am – 10.05 am	Lighting of Lamp
10.05 am – 10.15 am	Welcome Address <b>Shri P. Murari, Advisor, FICCI</b>
10.15 am – 10.25 am	Opening Remarks <b>Shri Kapil Mohan, DDG, BEE</b>
10.25 am – 10.40 am	Address by <b>Shri Ramesh Kumar Khanna, Principal Secretary - Energy, Gov. of Tamil Nadu</b>
10.40 am -10.55 am	Keynote Address by <b>Shri Ashok Lavasa, Add. Secretary, MoP</b>
10.55 am – 11.00 am	Vote of Thanks by <b>Shri Kapil Mohan, DDG, BEE</b>
11.00 am – 11.15 am	<i>Tea Break ( Press Briefing by MoP and DDG,BEE parallel event from 11.15am to 12:00pm )</i>
11.15 am -11.45 am	Presentation by BEE on NMEEE
11.45 am – 12.10 pm	PAT Methodology <i>Presentation by Shri SP Garnaik Energy Economist ,BEE</i>
12.10 pm – 12.30 pm	<i>Presentation on Trading Mechanism ES-certs , Shri Saurabh Diddi , Energy Economist ,BEE</i>
12.30 pm - 1.15 pm	Interaction over the PAT consultation Document
1.15 pm - 1:30 pm	Summing up & Concluding Remarks DG,BEE
1:30 pm	Lunch



**Inaugural Session**



**Question & Answer Session**



**Question & Answer Session**

**National Level PAT Awareness Session, Chennai**  
**Question and Answer Round**

**CHLOR ALKALI**

**By Mr. Ram Kumar Shankar**

**Chemplast Sanmar Ltd.**

**Question Is there a list of DC's? And is it accessible or available on BEE site?**

Yes, it is available on BEE website.

**Question What is the methodology for new plant as there is no historical average data?**

In case of new Plant, instead of 3 yrs - 2 yrs only 1 yr. data will be taken for average.

**Question If there is no liquidity for ESCert as no banking is allowed by BEE, what if those who want to buy /sell in future?**

Banking will be introduced in due course of time. Only 25 to 50% they can an industry bank and remaining have to be sold in market. 100% banking is not possible. Advance issue of certificates will be provided to those who are ready to achieve more.

**Question Membrane technology and mercury cell technology are two technologies used for caustic soda. Membrane cell involve significant investment and is more efficient than mercury cell technology. If DC's will be clustered having membrane and mercury cell then the % SEC will be same, Are we decentralizing them by giving them same target?**

As per the Environment Norms technology has to be upgraded by 2012. The targets would be based on membrane technology. We are in discussion with



AMEI and 40 to 50 units are increasing every year. Other is regulation becomes active investment participant and reserves the right to intervene the market.

**By Mr. Subhash Tandon**

**DCW Limited**

**Question Two prominent technologies for production of caustic soda are Mercury cell technology and membrane technology. And by 2012 the mercury cell will be out of usage. Membrane cell is a technology driven technique there will be increase of 2 to 5% SEC increase every year. As of now the technology is saturated, new technologies are not commercially available. The RM (borrium carbonate) is not available in India and has to be imported from China, which is not a good product. Power consumption actually goes up and industry has to invest a lot to bring down the energy consumption. How to address this issue? The concern is that our process is very sensitive and auditors should understand the limitation before freezing the norms, to avoid disputes and bitterness.**

The BEE is in close consultation with AMAI. The cost is increasing from 30-40% as there is deterioration of membrane. Apart from that ministry has also given chlor-alkali experts. For energy Auditor various cluster level workshops are planned by BEE. The target setting will be done now, this has nothing to do with the auditing at your plant.

**Question BEE has conducted this National level seminar, can there be Industry/sector specific program by BEE in Chennai preferably?**

Cluster /Zone based programs have been planned for 8 clusters, and can be done for Alkali Industry in Chennai.

**Question If less / no demand of ESCert is there, then what to do certificates?**



Industry can bank in use in next cycle. In Future PAT cycles, targets would be more stringent. Target set in being done now, bind on 5 yr. data

**Question Will BEE be working as facilitator to appointing Energy Auditors for energy auditing during this scheme?**

Yes, BEE is calling it as Scheme administrator.



## THERMAL POWER PLANT

By Mr. Dakate

MahaGenCo

Question The illustration given on Page 20, the calculation for target setting for power station is given in heat rate calculation, certain correction factors are not considered here? Who will be the controlling authority State Regulations and BEE, Can you clarify that?

Question In the PAT document no OEM specified and guaranteed. The correlation between turbine heat rate and boiler efficiency is not mentioned. Standard deterioration losses given by OEM as 0.72% per year, even stopping the deterioration can improve the efficiency Baseline cannot be as constant. Stopping deterioration can taken as energy saving.

Question Ash is the waste product from the power station which is utilized by the cement manufacturers. So can this power be excluded from SEC? More power required, adds to SEC, Methods of REC should be given concessions?

Question Can it be better to mention the carbon equivalent rather than oil equivalent as in power stations coal is the primarily used for power generation rather than oil?

Question Greater than 100 EA's are employed by MahaGenCo. Can we utilise them for any other work?

Question The ash from power station is utilized by cement industries, How BEE is dealing/considering this case?

Methodology of SCERC shall be synchronized with BEE method, no double calculation or regulation system, no double heat rate calculation. At apex level CRC, CEA, BEE are directly involved. Yes there is an appellate system. By CFA, CFRC, BEE, common regulatory mechanism penalties will be levied by SCERC.

- Targets will be set by CRC / State Regulatory commission.



- MT of carbon equivalent than oil equity is just an equivalent factor.
- BEE hosting the targets in complete synchronization work CRC.
- Tariff fixing taken care of in the methodology.
- Gross Hate Rate & Design Hate Rate all Standard Method are given by CFRC
- REC, waste heat recovery, etc all are gate to gate concept. If it is within the plant the SEC would come down.
- Mtone calculation only concessions, commodity unit for all – based on CV
- Carbon is not focus of BEE that is indirect policy focus is mail on Energy Efficiency. But that is indirectly will be related.

### **By Power Industry**

**Question We have passed all the benefits to the TNEB to bring down the tariff. Now unless we invest, we don't get benefit from the PAT scheme.**

Benefits passed on to customs EE need additional investment tariff structure. There will be one target, given by regulators.





## FERTILISER

By Mr. Braj Kishore

IFFCO, Kalol Unit

Fertiliser

**Question** Fertiliser unit is already under subsidy regime constraints. The Energy consumption is a cluster specific but who performed unit wise got penalized. Compromise pricing mechanism introduced - Kalol Unit of IFFCO 1975 - 75G Cal to 5.5GKcal thereby a reduction of 35% of production, unit are not in profit. Many unit have closed down during due course of time as were going in loss such as Sindor Board, Ramagunda, etc. Similarly mechanism should not be there. Is there any policy by BEE or Govt. if industry go for payback period of 5 year, will they be given incentives/rewarded considering the energy saving? In the PAT document calculation it is mentioned that input energy and output energy 1KW is equivalent to 860Kcal, which is a 100% conversion; this factor may discourage the CPP installation.

The CPP is considered inside the plant boundaries. The first step is to set the baseline and then to achieve the target i.e. to reduce the SEC within 3 years. The correction factor will be applied. CPP is basically based on higher cf. Please send your suggestions for the correction factor.

**Question** Average SEC for industry should be basically not best SEC as 1.0, and compare over units.

Expecting the provision for capital support from Government may not be possible. Government does not have capital support scheme. This scheme has been concede as market-based mechanism. If EE project is not possible for industry then a better suggestion to buy ECSert that will be much cheaper.

## IRON & STEEL

By Mr. N S Kanan



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**Maithan Ispat Ltd.**

**Question Can we have both benefits of CDM and ESCerts?**

Yes.

**Question We have WHR but we cannot measure the heat input. And our CPP is not synchronised with grid are there are problems like to the power failure rates, the power export is not possible, will any benefit will be given by BEE?**

In case of WHR, SEC in will come down as we have GTG mechanism. In case of CPP the factors accounted by you are out of control, hence grid maybe giving discount.

**Question We drawing the power from the External Grid and sometime the power are of bad quality and power failure. In that case the SEC goes up. How this factor will be taken in to account?**

As BEE is taking the average of 3 years data and this problem may have come earlier and is already accounted in the average data.

**By M. K Rayn**

**Consultant**

**Question How BEE account for the substitution of Grid Power Theory with the green technology?**

For any case if GtG concept is look into, any fuel input (Other source like Renewal Source etc) is there that is going to reduce SEC.

**By Mr. V V Krishnan Roy**

**Energy Auditor**

**Question Are non DC's allowed to trade in ESCert.**

If not a DC now, they may be included in the next PAT cycle. Building sector will be included after 2014 cycle.



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**Designated Consumers**

<b>S No.</b>	<b>Title</b>	<b>Name</b>	<b>Surname</b>	<b>Desig</b>	<b>Orgn</b>
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2	Mr.	R	Jayakumar	Manager - Energy & Env.	ACC Ltd. - Madukkarat Cement Works
3	Mr.	R	Krishnakumar		ACC Ltd. - Madukkarat Cement Works
4	Mr.	D S	Dhakate	Supdt. Engineer	Chandrapur Super Thermal Power Station
5	Mr.	Ramkumar	Shankar	Executive Director	Chemplast Sanmar Limited
6	Mr.	G Shankara	Subramanian	Asstt. Vice Presisent	Chemplast Sanmar Limited
7	Mr.	P	Venkatachalam	Addl. GM - Electrical	Chettinad Cement Corpn. Ltd.
8	Mr.	D	Asaithambi	Manager - Electrical	Coromandel International Ltd.
9	Mr.	J V	Gungune	Executive Director	Dalmia Cement (Bharat) Ltd.
10	Mr.	Subhash	Tandon	VP-Mfg. (Chlor Alkali)	DCW Limited
11	Mr.	K Murali Mohan	Sundar	GM (Dev. & Proj.)	DCW Limited
12	Mr.	S Yogya	Ganesan	Dy Manager (Elec.)	DCW Limited
14	Mr.	Braj	Kishore	Jt GM (Tech.)	IFFCO - Kalol Unit
15	Mr.	R	Murugan		Kamachi Sponge & Power Corpn Ltd.
16	Mr.	N	Umashankar		Kamachi Sponge & Power Corpn Ltd.
17	Mr.	M V R	Kishore		Kamachi Sponge & Power Corpn Ltd.
18	Mr.	Duraisinga	Rajaguru	DGM-Electrical	Madras Cements Ltd.
19	Mr.	N S	Kannan	Director (Projects)	Maithan Ispat Ltd.
20	Mr.	Joseph	Francis	General Manager (Works)	Malabar Cement Limited
21	Mr.	V G	Manoharan	Chief Engineer (MTPS)	Mettur Thermal Power Station
22	Mr.	S Kanda	Samy	Executive Engineer (Mech.)	Mettur Thermal Power Station
23	Mr.	C	Manohar	GM - Process	Orient Cement
24	Mr.	V G	Thiagarajan	GM (Opn.)	PPN Power Generating Co. Pvt Ltd.
25	Mr.	K Murali Mohan	Reddy	Plant Manager	Samalpatti Power Co. (P) Ltd.
26	Mr.	A	Rajaguru	General Manager	Sholingur Textiles Ltd.
27	Mr.	M P	Subburaj	Sr Engineer - Electrical	Sholingur Textiles Ltd.
28	Mr.	R	Balachandar	Mg Director	ST-CMS Electgric Co. Pvt Ltd.
29	Mr.	C K	Chandrasekaran	Plant General Manager	ST-CMS Electgric Co. Pvt Ltd.
30	Mr.	V G	Manoharan		Tangedco (MTPS)

31	Mr.	S	Kandasamy		Tangedco (MTPS)
32	Mrs	Aruna	Muridharan		Tangedco (TNEB)
33	Mr.	Vinay	G		TCC Ltd.
34	Mr.	N	Rabi Raj		TII - Murugappa
35	Mr.	A	Jayapal		TNEB
36	Mr.	M	Selvaraj		TNEB
37	Mr.	Ajith	R	Energy Manager	The Travancore Cochin Chemicals Ltd.
39	Mr.	S	Natrajan	Executive President & Unit Head	Ultratech Cement Ltd.
40	Mr.	Ashish R	Panpalia	Asstt. Vice Presisent	Ultratech Cement Ltd.
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	Mr	Ramesh Kumar	Khanna	Principal Secretary (Energy)	Governt of TN
	Mr	S	Appavoo	Chief Electrical Insp	Governt of TN
	Mr	Kapil	Mohan	Dy Director General	BEE
	Mr	S P	Garnaik	Energy Economist	BEE
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	Mr	Neeraj	Dhingra	Project Engineer	BEE
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	Mr	M N	Girish	Jt Director	FICCI
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