

EECs support for Indian Power Sector

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EEC – focal areas

Comprehensive approach

Technology	 International know how Energy efficiency Clean coal
Processes	 Best practices International guidelines
Trainings	 Training modules in India Training modules in Germany

- Training of trainers



- **Regional workshops** (Kolkata, Hyderabad, Chennai, Jaipur,

Bhubaneswar, Nagpur, Kohima)

- Technical working groups on support in PAT achievements
 - Modification on LMZ machines
 - Condenser monitoring
 - Coal blending
 - Low grade imported coal
- Technical guide lines for Best Practices
- Pilot projects



Facilitation of PAT implementation by EEC

PAT targets

Percentage improvement over baseline	No. of power stations (coal based)	Category
less than 1%	24	I
1-2%	19	
2-3%	14	
3-5%	24	III
More than 5%	16	IV
	97	



Strategic action

Category I - Good performing stations

- Target low, can be achieved with little intervention

Category II

- Average performance
 - Detailed study required
 - Medium intervention in terms of cost and activities

Category III+IV - Base line performance poor

 candidate s for extensive R&M for long term sustainability and life extension



Actions for PAT targets (Category III + IV)

- Discussions held by CEA with utilities
- Partial or fully achievement of PAT targets seems feasible without comprehensive R&M
- For PAT targets, there is a need to focus on:
 - Necessary maintenance
 - Identification of critical areas
 - Need based small R&M works
 - Improved O&M practices
- Decommissioning of old units in a plant also seen as a strategy for PAT targets
- To speed up long term life extension and R&M already under progress



Facilitation by EEC - PAT

Core group

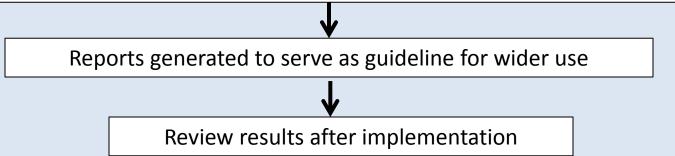
- 1. Identify 2-3 representative cases
- 2. Develop methodology for case study
- 3. Identify TOR of study
- 4. Coordinate the work of sub-groups

Study teams for each case

- Technical support from CEA, VGB
- Review of Data/Audit report
- Additional test as required

- Interaction with power plant engineer
- Review of EBSILON results
- -Preparation of detailed action plans with activities and benefits

- Assessment of funds requirements





EEC – some Feedback from workshop 29.8.12

<u>Review of PAT targets,</u> <u>with respect to</u> NORMALISATION.

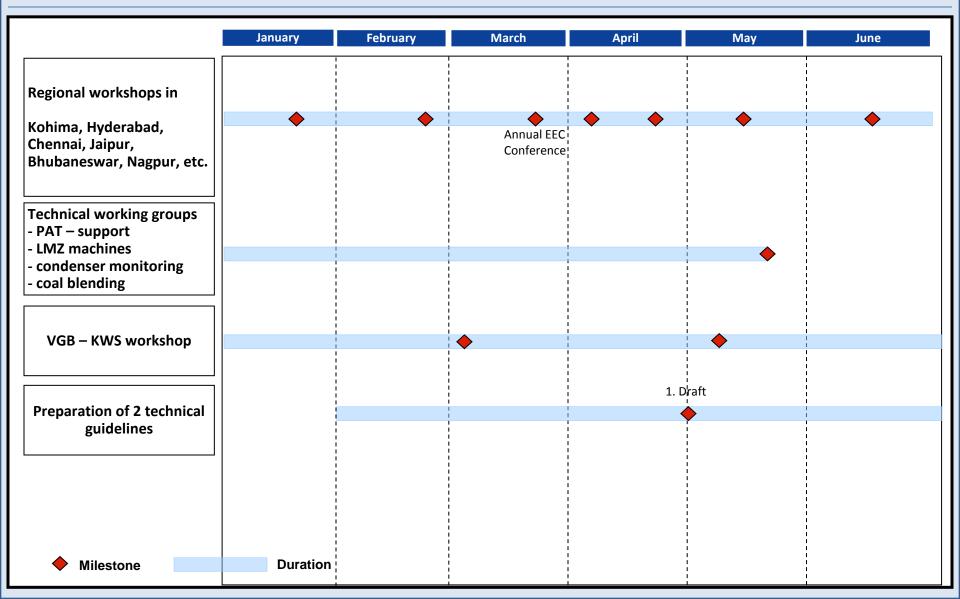
- To take care of start ups/shut downs
- PLF, coal quality, sudden unexplained change in performance
- Need for progressive targets

EEC can take up **pilot projects** to establish benefits from effective insulation Manufacturers to be taken on board in **senzitising and confidence building** of the utilities for R&M – EEC to coordinate

Technical articles, feedback, case studies to be made available on EEC website EEC can pick up the issues such as operation with **wide variety of coals** and use of smart soot blowing



EEC – activities 2012 - 2013





Thank you