



Excellence Enhancement Centre for Indian Power Sector

An Over View



BACKGROUND

Excellence Enhancement Centre (EEC) for Indian Power Sector was :

- Conceptualised as part of bilateral cooperation between Govt. of India and Govt. of Federal Republic of Germany.
- Registered as a non-profit society in 2010 under the Indian Societies Registration Act 1860.
- EEC Started functioning from February 2012 with an objective to facilitate performance improvement especially efficiency & reliability in Indian power sector by deployment of most advanced solutions regarding technology, process and personal skill.
- Modelled on the lines and with technical support of VGB, Germany – a voluntary association of German Power Sector Organizations including, Operators, Generators, T & D companies, Manufacturers and Regulators.



AIMS OF EEC

- ▣ To Promote Peer to Peer cooperation between Indian Power Sector Stakeholders by creating conditions for a profitable sharing of Technical Expertise among its members.
- ▣ To provide a common platform for Knowledge Sharing.
- ▣ To take up pilot projects for the benefit of Indian Power Sector.
- ▣ Create a “Technical Discussion Forum” for Indian Power Sector on EEC Website - Members can post questions / seek clarifications and also contribute by giving solutions based on their experience. This will also help in determining the topics for EEC Workshops & Training programs.
- ▣ Promote Indo German Energy Cooperation through collaboration with VGB Germany, Government of Germany & its agencies.



GOVERNING BODY OF EEC

President - Chairperson, CEA

Vice President - Member (Thermal), CEA

Treasurer - Secretary, CBIP

Secretary - Secretary, CBIP

Member - Director General, BEE

Member - Director - IGEN, GIZ

Member - Former Director (Tech.), NTPC

Member – Director, EEC

Member - Chairman, STEAG Energy India

Member – VGB Germany Representative

Activities of EEC

- ▣ Technology
- ▣ Personal Skill Development
- ▣ Processes (instruments for supporting power plant Personnel)

Flexibilisation with support of VGB Germany

- ▣ EEC conducted various National and Regional seminar in 2017, 2018 and on 1 st NOV 2019
- ▣ Based on knowledge and practices a pilot study of NTPC Dadri was conducted in June 2018 and test run was conducted for 40 % load for 5 hours
- ▣ Study was also conducted for NTPC Simhadri Plant for flexibilisation

Water Audit

- ▣ **Water Studies was conducted for three power stations in Maharashtra(Bhusaval 500 MW TPS), Gujarat (Sikka 250 MW TPS) & Rajasthan (Kota 195 MW TPS). Additional study at 660 MW unit of NTPC Barh STPS was also conducted.**
- ▣ **Based on Study “ Guidelines for Optimisation of Water & Waste Water Usage in Coal Based TPP” has been issued**

ESP Performance Improvement through CFD Modelling with VGB, Germany

- ▣ An MOU was signed between EEC and NTPC and Ramagundam (500 MW unit) was selected.
- ▣ Modification was carried out
- ▣ Performance result obtained
- ▣ Based on performance of result workshop has been conducted for other state unit also on 17th Jan 2020 at NTPC PMI

Key Expert Services

- ▣ **Technical Audits**
- ▣ **Analysis of Efficiencies/ Plant Heat Rate**
- ▣ **O&M Management systems and process**
- ▣ **Failure Diagnostics:**
- ▣ **Employee Development/Skill Excellence**
- ▣ **Management System & Processes**
- ▣ **Technical/HR/Finance Consultancy & Expert Support Services**



Thank you

Excellence Enhancement Centre For Indian Power Sector

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