

PGT-06-09 SO_x Reduction Technologies in Flue Gas

Project

SO_x emissions from combustion gases can be reduced by cleaning the flue gas before exiting the stack using various flue gas desulphurization technologies. The goal of the project is to study the suitability of these technologies for implementation in India, where high sulfur coal is used.

Participation

Management: This project is proposed by India in association with utilities of the United States and Japan.

Participants: Participants will be design engineers from Indian utilities.

Objectives

The objective of the project is to select the most appropriate technology for control of SO_x emission as suited to high sulfur Indian coals. Further, the project will make it possible to use high sulfur coal available in India for power plants by selection and implementation of appropriate technology for SO_x reduction.

Performance Indicators:

- Suitability of technology and SO_x removal efficiency.
- Capital and operational cost.

Milestones

Visit to utilities in the United States and Japan to study:

- Maturity and market proven status of technology.
- Removal efficiency of SO₂, use of by-products.
- Operational experience.
- Economic factors.
- A study report of the technology to be adopted using materials available in India and suitable for Indian coal.

The major milestones are presented below:

Year	2006				2007				2008			
Activities	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Finalization of Project Itinerary												
Visit to Plants in the United States & Japan and Discussions (5 days each)												
Study Report Finalization & Selection of Technology												
Detailed Scheme and Specification												

Location

Activity Location: The activity will include visits to identified utilities in the United States and Japan, etc., where SO_x reduction technologies have been implemented.

Project Location: Based on the study, technical specifications will be made for SO_x reduction technology to be implemented in one of the Indian power plants where high sulfur coal is required to be used.

Resources

For the on-site study visits and discussions, the visitors will bear the travel expenses and hosts will cover the on-site costs.

The technology cost will be borne by the beneficiary participant utility implementing the project.