

May 29, 2015

International Symposium: Climate Change and Coal

Part 2 : Is Efficient Coal Technology a Solution for Sustainable World?

Discussion : The Role of Japan in International Coal Financing



Hozue HATAE, FoE Japan

E-mail: hatae@foejapan.org

Comparison of pollution control technology between coal-fired power plants in Japan and those supported by JBIC overseas

- NOx control = SCR ?
- Example: Batang vs. Isogo

Power Plant	Batang (JBIC under review)	Isogo New 2	Isogo New 1
Proponent	BPI (Invested by J-Power)	J-Power	J-Power
Capacity (MW)	1000 X 2	600	600
Start of operation	2018 (Proposed)	July 2009	April 2002
Type of power generation	USC	USC	USC
SOx emission concentration (ppm)	105	10	20
NOx (ppm)	127	13	20
PM (mg/Nm3)	50	5	10

Comparison of pollution control technology between coal-fired power plants in Japan and those supported by JBIC overseas

- JBIC-funded projects
= BAT not installed

Power Plant	Meja	VT	HP	Cirebon	Minda	Isogo2	Isogo1	Hekinan5
Proponent	IN	VN	VN	ID	PH	JPN		
Capacity (MW)	1320	1200	600	660	232	600	600	1000
Start of operation	2017	2017	2013	2012	2006	2009	2002	2002
Type of power generation	SC	SC	SUBC	SC	SUBC	USC	USC	USC
SOx emission concentration (ppm)	Unknown	123	63	227	245	10	20	25
NOx (ppm)	Unknown	111	438	404	365	13	20	15
PM (mg/Nm3)	≤ 100	150	200	29	50	5	10	5

Comparison of pollution control technology between coal-fired power plants in Japan and those supported by JBIC overseas

■ Results of JBIC's Environmental Review (Pollution Mitigation Measures)

- The planned value for air quality (SO₂, NO_x, TSP), warm drainage water and the quality of water complies with local standards and is on the whole below/within the applicable international standards. (Mindanao, Hai Phong II)
- The projected quality of air and water emissions, as well as noise level, falls within the local standards. (Cirebon)
- The planned value for air quality, water quality and noise basically complies with local standards and/or World Bank standards. (Meja)
- The planned value for air quality, water quality, waste treatment, odor, noise and vibration are properly managed. (Vinh Tan IV)

Comparison of pollution control technology between coal-fired power plants in Japan and those supported by JBIC overseas

- JBIC Guidelines for Confirmation of Environmental and Social Considerations
 - Standards for Confirmation of Appropriateness of Environmental and Social Considerations
 - Whether a project complies with environmental laws and standards of the host national and local governments concerned
 - Whether a project meets the relevant aspects of World Bank Safeguard / International Finance Corporation Performance Standards
 - where appropriate, JBIC also uses, as reference points or benchmarks, standards established by good practices established by developed countries such as Japan regarding environmental and social considerations



JBIC's Environmental Review and Monitoring

JBIC-funded projects

ex. Cirebon (Indonesia)

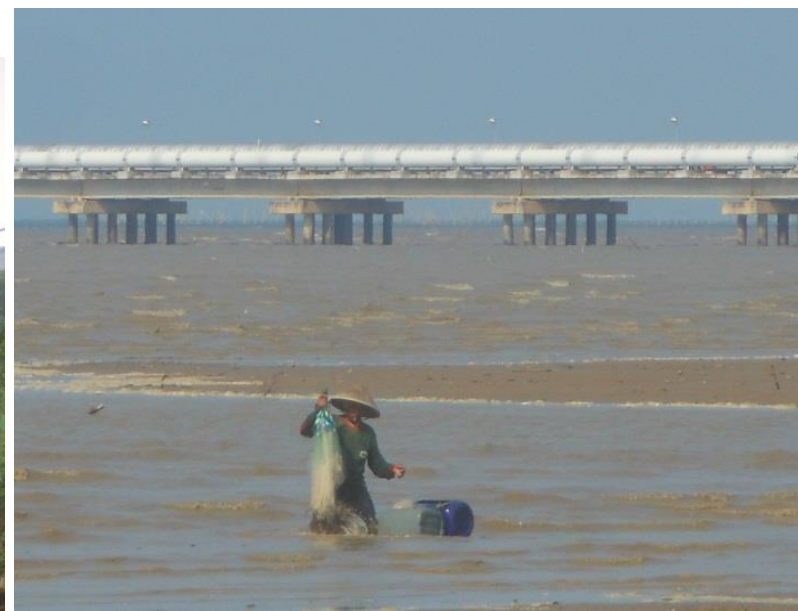
- Impact on People's Life

Impact on fishing, farming, saltpan etc.

← Reclamation, Air/Marine pollution (Dust etc.)

⇒ People's complain to company /

local authority --- Not always action



JBIC's Environmental Review and Monitoring

■ JBIC-funded projects

ex. Hai Phong I, II (Vietnam)

■ Impact on People's Life

Change in daily habits, Reduction of crop yields, Impact on aquatic life etc.

← Air pollution

= Dust, black smoke at night etc.

← Water pollution

= Wastewater, ash pond etc.

⇒ People's complain
to local authority

--- No action



Could JBIC review, considering the weak governance of the host government?

Could JBIC conduct monitoring, not only relying on the information of the proponent?

JBIC should review and solve the problems of the projects they've already decided to fund

F/S on new coal-fired plants by Japanese companies in Other Countries

No installment of BAT

ex. To bring the local community to Japan

Weak governance of host country

- Tour to Hekinan
- Tour to Isogo etc.

JBIC's monitoring, only relying on the proponents' information

"No problem occurs with Japan's clean coal technology"

