

The 2nd Japan-Ukraine Energy Seminar 2015
SESSION II Clean Coal Technologies

Cooperation for Coal-fired Power Generation

1st October 2015

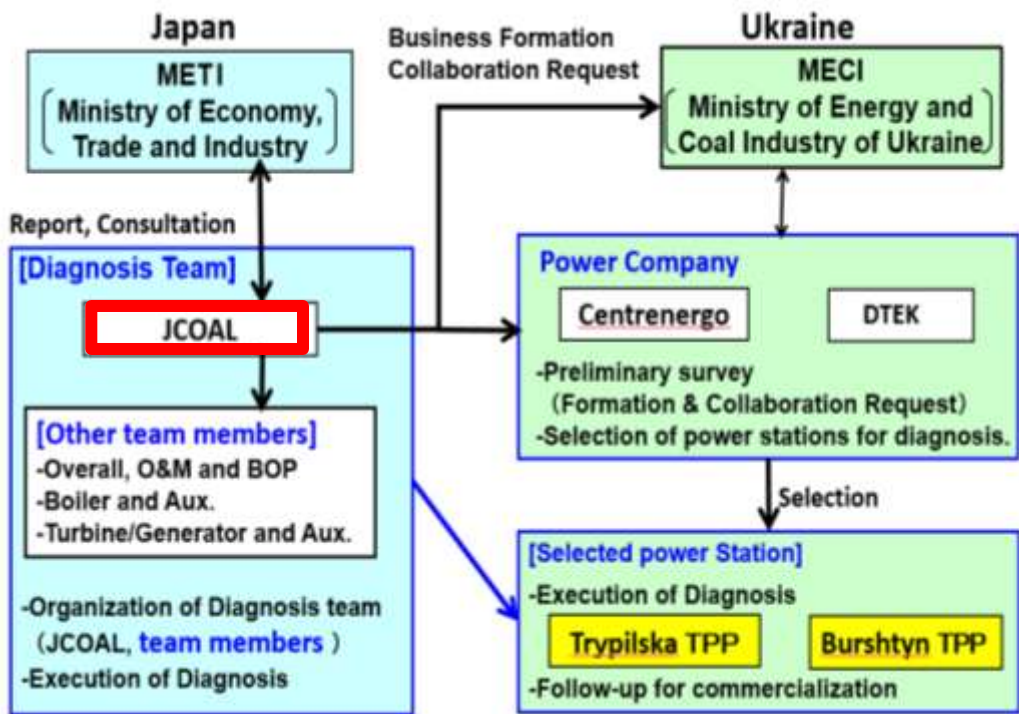
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Framework of cooperation for coal-fired power plant in Ukraine

- In Ukraine , modernization of aging coal-fired power plants is urgently required. By utilizing a state-of-the-art high-efficiency coal-fired power generation technology of Japan, Japan plans to support and contribute Ukraine to increase the efficiency of existing power plants through the proposed revamp-projects.
- Japanese team of experts has visited the existing coal-fired power plants, to investigate the actual operating conditions of plants and to inspect the actual conditions of the equipments. Based on the site investigation and inspection, Japanese team proposed the revamp-projects for each existing plants, to increase thermal efficiency and improve environmental management.
- In an attempt to promote understanding of Japan Clean Coal Technology (CCT) , Japan plans to hold the seminar on Japanese CCT and invite Ukraine experts to visit power plants, CCT research facilities etc. in Japan.



MECI-JCOAL MOU Signing Ceremony



Diagnosis



Energy security seminar



Invitation Training

Centrenergō Trypilska power plant

- MOU in Aug. 2014
Diagnosis in Oct 2014
- The Japanese expert team consisted of:
MHPS (Boiler)
Toshiba (Turbine)
Kyushu power (O&M)
JCOAL (Management)
- Unit No.4 of the all four coal-fired units is selected for revamp target unit
- Revamp project is to upgrade turbines for immediate effect on efficiency improvement.



Centrenergō Zmivska power plant

- Diagnosis in June 2015
- The Japanese expert team consisted of:
MHPS (Boiler)
JCOAL (Management)
- Unit No.3 of the all ten coal-fired units is selected for revamp target unit.
- Revamp project is to upgrade turbines for immediate effect on efficiency improvement.



DTEK Burshtynska power plant

- MOU in Oct. 2015
Diagnosis in Jan. 2015
- The Japanese expert team consisted of:
MHPS (Boiler)
Kyushu electric power co. (O&M)
JCOAL (Management)
- Revamp project is to upgrade turbines for immediate effect on efficiency improvement.



1 Turbine upgrade demonstration project

- Introduction of the latest turbine upgrade technologies of Japanese manufacturers to the proposed revamp projects aiming at improving thermal efficiency of existing coal-fired power plant.

2 Information exchange of Clean Coal Technology between Ukraine and Japan

- Introduction of CCT-related technologies of Japan. In addition, to further understand the problems of the power sector in Ukraine and reach the better solution, information exchange and dispatch of experts are planned to be carried out especially for the possibility of fuel conversion (anthracite → bituminous) issue .

Results and Plans

	2014/ 7-9月	10-12月	2015/ 1-3月	4-6月	7-9月	10-12月	2016/ 1-3月	4月~
Inter-governmental negotiation	<ul style="list-style-type: none"> ● Japan Ukraine public-private economic mission. ✓ MECI-METI signed a joint statement of energy cooperation. ✓ MECI-JCOAL signed MOU of cooperation in accordance with the efficiency improvement and environmental improvement of coal-fired power plant 							
Diagnosis 【Centrenergó】 Trypilska Zmivska	● Preliminary survey		● Diagnosis	● Report	● Preliminary survey			
【DTEK】 Burshtynska	● Preliminary survey		● Report	● Diagnosis				
Turbine renovation 【Centrenergó】 Trypilska						● Open inspection	Turbine renovation	
Technology Exchange	JAPAN UKRAINE Energy Seminar ● Invitation program to Japan ●					● JAPAN UKRAINE Energy Seminar		