

The Energy Institute Hong Kong (Branch) 香港能源學會(分會)

(Correspondence Address : Environmental Management Division, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Kowloon, (Attn. : Mr. Raymond Fong at 2788 5629 or by fax at 2788 5608)

Incorporated by Royal Charter 2003

5 May 2011

Dear EI (HK) Members,

Technical Visit to
“Emissions Control Project (EC Project) of CLP Power Hong Kong Limited”
21 May 2011 (Saturday)

The Energy Institute (Hong Kong Branch) is organizing a technical visit to the Castle Peak Power Station of CLP Power Hong Kong Limited to appreciate their latest emission control measures and technologies adopted in the power plant to reduce air pollutant emissions from power generation in Hong Kong. Introduction on the details of the EC project is given in the Attachment.

EI members and their guests are cordially invited to join the visit with details as below.

Date: 21 May 2011 (Saturday)

Time: 0900 to 1300

Schedule:

0900 Assembly at 九龍塘理想酒店對開森麻實道(近九龍塘鐵路站) for coach pick-up
0910 Travel by coach to the Plant
1000 - 1200 Technical visit
1200 Depart from the Plant
1300 Arrived at Kowloon Tong MTR station and dismissal

Fee: Free of charge

CPD: e-CPD attendance certificate will be issued to attendees

Registration:

Please send your **full name, organization name, post, contact phone number and email address** to the EI Secretariat via email at **aprilagc@gmail.com** on or before 17 May 2011. (Note: You must provide your email address for us to send you confirmation and reminder.)

Maximum number of participants: 20 persons on a first come first served basis

Enquiries: Please contact Ms April Li via email: aprilagc@gmail.com or tel: 2967 8855.

We look forward to seeing you.

Yours sincerely,

A handwritten signature in black ink, appearing to be "R. Fong", written in a cursive style.

Raymond CL Fong
Chairman
Energy Institute (Hong Kong Branch)

Encl

The Organizer has adopted a Personal Data (Privacy) Policy. You may contact us for further details.

03 March 2011

**CAPCO/CLP Celebrates the Completion of Emissions Control Project
Making the Castle Peak Power Station one of the cleanest power plants among the world while meeting
2010 targets**

Castle Peak Power Company Limited (CAPCO) today celebrated the completion of its Emissions Control (EC) Project undertaken at Castle Peak Power Station (CPPS) ahead of schedule. The EC Project gives CPPS a further lift of the already high-standard emissions performance, making it one of the cleanest coal-fired power stations in the world.

The EC Project has played an instrumental role in enabling CAPCO's achievement of the HKSAR's Government's 2010 emissions reduction targets. With ongoing emissions reduction efforts including this important project, CAPCO recorded a material reduction of about 60% across all three emissions, sulphur dioxide (SO₂), Nitrogen Oxide (NO_x) and Respirable Suspended Particulates (RSP), in 2010 as compared with 1997, outperforming the overall targets set by the Government.

In 2002, the HKSAR Government and the Guangdong Provincial Government agreed to reduce the regional emissions of SO₂, NO_x and RSP by 40%, 20%, and 55% respectively by 2010, using 1997 as the base year.

CPPS is one of the few power generation plants in the world that are retrofitted with the three types of emissions control technologies while in operation. The EC project is one of Hong Kong's largest engineering projects in terms of scale and complexity, taking more than 13.5 million man-hours to complete. The project also created around 9,000 jobs.

The EC Project includes retrofitting each of the four larger generating units (677 MW each) at the CPPS-B with three types of emissions control equipment: namely the Boosted Over Fire Air (BOFA), Selected Catalyst Reactor (SCR) systems and the Flue Gas Desulphurization (FGD) facilities. With the installation, SO₂, NO_x and the RSP will be substantially reduced.

Since the phasing in of the three retrofitted units in late 2009, coupled with the adoption of ultra low sulphur coal, the overall emissions performance of CPPS has been greatly improved. The last unit will be put in operation shortly.

In addition, gypsum produced during the desulphurization process can be re-cycled as materials used for construction industry such as cement and bricks, bringing extra environmental benefits to the society.

One of the greatest challenges for the project was to maintain reliable electricity supply when complex site work had to progress with vigilant logistics arrangement. Despite significant relocation, civil foundation, material handling and plant customisation works were required in different stages of the project, the Project Team kept an impressive safety record comparable to world standard during more than 40-project months.

At the ceremony, the CAPCO management sent their appreciation to all participating parties. They attributed the successful commissioning of the project to management determination, strong support from the government authorities and the collaborative efforts from the project team, the contractors and coal suppliers.

As coal-fired power generation will continue to play a role in local generation during the transition towards more stringent emissions requirements, contribution by EC facilities and adoption of ultra-low sulphur coal becomes critical in pursuing air quality improvement for Hong Kong and the Pearl River Delta. Looking ahead, CAPCO will continue to play its part and work closely with all parties in the community in every facet of ongoing air quality improvement efforts.

The EC Project is developed by the Castle Peak Power Company Limited (CAPCO), a 60-40 joint venture between ExxonMobil Energy Limited and CLP Power Hong Kong Limited as one of the initiatives for improving regional air quality in the Pearl River Delta. The project, accounting for an area of 40,000 square metres in a 24-hour operational power plant, is one of the largest engineering projects in Hong Kong in recent years.