

CCC Heep Woh College

Group members: Cheng Siu Ting(3), Tsang Ming Lap(22), Wong Wai Ki(27)

A visit to Castle Peak Power Station

On 16th October 2009, we went to the China Light and Power Company Limited in Hong Kong's Castle Peak Power Station at Castle Peak. In there, we learnt how the electricity is generated and how it is transferred to our home. Besides, we also saw some of the compartments of the generator., such as the turbofan and the large metal made of lead which is used to ground the coal before entering the furnace.

When traveling around the power station, we find that the station is not full of polluted air, but the air can be quite pleasant. It is because the power station is using a "extra lower sulphur contained coal". However, no matter how low the sulphur content is, there is sulphur, therefore, CLP is installing some new machines to reduce the small amount of sulphur. In a long run, CLP will replace coal by natural gas or find any renewable source that is available in Hong Kong.



This picture shows some of the generator in the power station. There are altogether eight generators. As electricity cannot be stored, some of the generators will be turned off at night, when there is a time the demand of electricity is not very high, to reduce the energy loss. To turn on the generator again, it takes only an hour, which is convenient.

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