

CONTROLLING OFFICER'S REPLY

ENB231

(Question Serial No. 6237)

Head: (42) Electrical and Mechanical Services Department

Subhead (No. & title): (-) Not Specified

Programme: (3) Energy Efficiency and Conservation, and Alternative Energy

Controlling Officer: Director of Electrical and Mechanical Services (CHAN Fan)

Director of Bureau: Secretary for the Environment

Question:

Regarding the work of the Electrical and Mechanical Services Department on energy efficiency and conservation, and alternative energy, please provide the following information:

1. What were the details, results, expenditures and manpower resources involved in the establishment and updating of the energy end-use database by the Government in each of the past three years?
2. Did the Government carry out any specific studies on high energy-consumption in the past three years to come up with methods or measures to enhance energy conservation and energy efficiency? If yes, what were the work details and schedule, expenditures and manpower resources involved, and results obtained?
3. Regarding liaison with the Mainland, regional and international organisations on energy related issues, what were the work details, expenditures and manpower resources involved, participating principal officials, and effectiveness achieved in each of the past three years?

Asked by: Dr Hon Kenneth CHAN Ka-lok (Member Question No. 300)

Reply:

1. Up-to-date energy related data have been collected by the Electrical and Mechanical Services Department (EMSD) in the past years for processing, analysis and compilation, which will eventually be published annually as the Hong Kong Energy End-use Data for public reference. As staff responsible for the task also took up other duties concurrently, we do not have a breakdown on the expenditures and manpower involved.
2. Buildings account for about 90% of total electricity consumption in Hong Kong. To enhance the energy efficiency of central building services installations in buildings and electrical products, EMSD has fully implemented the Buildings Energy Efficiency

Ordinance and the Energy Efficiency (Labelling of Products) Ordinance. We have been working to enhance the energy efficiency standards over the past years, including the gazettal of the 2015 Edition of the Building Energy Code (BEC) and the Energy Audit Code on 11 December 2015, which will upgrade the energy efficiency of building services installations in buildings by about 10%. We expect that by 2025, energy savings from all new buildings in Hong Kong due to the BEC will be about five billion kWh. Besides, we completed the review of the Code of Practice on Energy Labelling of Products and raised the energy efficiency grading standards of room air conditioners, refrigerating appliances and washing machines in 2015. It is estimated that the electricity consumption of the electrical products covered by the current Mandatory Energy Efficiency Labelling Scheme amounts to about 60% of domestic electricity consumption with an annual energy saving of about 475 million kWh under the Scheme. As the measures are an integral part of our enforcement of the above-mentioned Ordinances, there is no separate breakdown on the expenditures and manpower involved.

3. EMSD has been keeping abreast of the worldwide development in energy efficiency and conservation and has established contacts with various international and Mainland organisations. The major ones include the Asia Pacific Economic Cooperation (APEC), the General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ) in the Mainland, etc. EMSD maintains close liaison with these organisations and participates in the regular working meetings under the Energy Working Group of APEC and its associated expert groups, and with the AQSIQ for exchange of information on the development of energy efficiency issues and sharing of experiences to keep abreast of the latest international development in these issues. These meetings are mainly attended by the professional staff of EMSD. The expenditures involved in EMSD's overseas duties for participation in relevant meetings in 2013-14, 2014-15 and 2015-16 were \$0.3 million, \$0.3 million and \$0.2 million respectively. As the officers concerned also handled other duties concurrently, there is no separate breakdown on the manpower involved.

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