

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Head: 42 – Electrical and Mechanical Services Department Subhead:

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

Controlling Officer: Director of Electrical and Mechanical Services

Director of Bureau: Secretary for the Environment

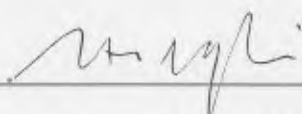
Question: What is the estimated expenditure on the research and development works on the application of innovative energy efficiency technologies in 2008-09? What are the details of the relevant work plans?

Asked by: Hon. CHOY So-yuk

Reply:

The estimated expenditure on the research and development studies on the application of innovative energy efficiency technologies in 2008-09 is \$0.65 million. Details are as follows:

| Study | Aim | Estimated Expenditure | Target Completion Date |
|--|--|---|------------------------|
| Sun Tracking Photovoltaic System | To test the effectiveness of the technology in enhancing electricity generation of the photovoltaic system in local context. | \$0.50 million | September 2008 |
| Oil-free Variable Speed Compressor Chiller | To evaluate the effectiveness of the chiller using the advanced technology in achieving energy saving for air-conditioning system. | Nil (equipment cost of \$1.48 million incurred in 2007-08) | January 2009 |
| Refrigerant Oil Contamination Purger | To test the effectiveness of the technology in up-keeping the energy performance of the chiller in the air-conditioning system. | \$0.15 million | March 2009 |

Signature 

Name in block letters HO KWONG WAI

Post Title Director of Electrical and Mechanical Services

Date 20 March 2008