

**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: Regarding the item to “continue research and development works on the application of innovative energy efficiency technologies”, what were/will be the expenditures involved in 2007-08, 2008-09 and 2009-10? Which department or organisation was/will be responsible and what were/are the study projects?

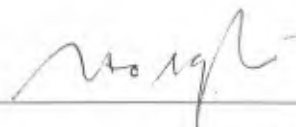
Asked by: Hon. CHAN Hak-kan

Reply:

The research and development studies on the application of innovative energy efficiency technologies in 2007-08, 2008-09 and 2009-10 were/will be carried out by the Energy Efficiency Office of the Electrical and Mechanical Services Department. The studies and the total cost are summarised below:

	2007-08	2008-09	2009-10
<b>Study 1</b>	Dual cycle heat pump system	Sun tracking photovoltaic system	Total hydronic balancing of chilled water circuits
<b>Study 2</b>	Pump control optimisation for air-conditioning system	Oil-free variable speed compressor chiller	Heat pipe application in central air-conditioning system
<b>Study 3</b>	Solar-assisted air-conditioning system	Refrigerant oil contamination purger	New energy efficient lighting
<b>Total cost</b>	\$2.50 million	\$2.13 million	\$1.27 million

Signature



Name in block letters

HO KWONG WAI

Post Title

Director of Electrical and Mechanical Services

Date

13 March 2009