

**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: One of the indicators in the Electrical and Mechanical Services Department's Estimates 2009-10 is research and development on the application of innovative energy efficiency technologies. What were/will be the scope of the three studies conducted in 2007-08, 2008-09 and 2009-10? How was/will the approved funding be assigned to each of the studies?

Asked by: Hon. HO Sau-lan, Cyd

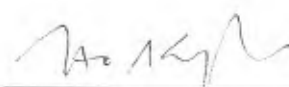
Reply:

The scope of the studies in 2007-08, 2008-09 and 2009-10 and the total cost are summarised below:

	2007-08	2008-09	2009-10
<b>Study 1</b>	Dual cycle heat pump system (\$0.40 million)	Sun tracking photovoltaic system (\$0.50 million)	Total hydronic balancing of chilled water circuits (\$0.48 million)
<b>Study 2</b>	Pump control optimisation for air-conditioning system (\$1.20 million)	Oil-free variable speed compressor chiller (\$1.48 million)	Heat pipe application in central air-conditioning system (\$0.64 million)
<b>Study 3</b>	Solar-assisted air-conditioning system (\$0.90 million)	Refrigerant oil contamination purger (\$0.15 million)	New energy efficient lighting (\$0.15 million)
<b>Total cost</b> <sup>Note</sup>	\$2.50 million	\$2.13 million	\$1.27 million

Note: the cost of a project may straddle across two years.

Signature



Name in block letters

HO KWONG WAI

Post Title

Director of Electrical and Mechanical Services

Date

16 March 2009