Examination of Estimates of Expenditure 2013-14

CONTROLLING OFFICER'S REPLY TO INITIAL WRITTEN QUESTION

Reply Serial No.

ENB053

Question Serial No.

4489

<u>Head</u>: 42 Electrical and Mechanical Services <u>Subhead (No. & title)</u>:

Department

<u>Programme</u>: (3) Energy Efficiency and Conservation, and Alternative Energy

Controlling Officer: Director of Electrical and Mechanical Services

<u>Director of Bureau</u>: Secretary for the Environment

Question:

For the energy-saving projects undertaken for the Government and public bodies, please provide information in accordance with the format below:

	Government Public Body	Department/	Buildings/ Facilities Involved	Electricity and cost saving	Reduction in carbon emission
2011					
2012					
2013					

Asked by: Hon. KWOK Ka-ki

Reply:

During the period between 2011 and 2013, Electrical and Mechanical Services Department has handled / will handle a total of 180 energy-saving projects for various government departments and public bodies. These projects involve retrofitting of energy efficient lighting and control systems, light emitting diode (LED) exit signs, and energy efficient air-conditioning and control systems, etc. The estimated total annual energy saving is 12 million kWh, or equivalent to an annual reduction of about 8 400 tonnes of carbon dioxide emission. The breakdown is given in the table below.

Year	Government Department/ Public Body	Buildings/ Facilities Involved	Electricity and cost saving # per annum	Reduction in carbon emission per annum
2011	Agriculture, Fisheries and Conservation Department; Architectural Services Department; Civil Aviation Department; Census and Statistics Department; Correctional Services Department; Customs and Excise Department; Department of Health; Drainage Services Department;	art and cultural venues: carpark buildings; court buildings; cooked food centres; dockyards; clinics; community centres; departmental headquarters; fire stations;	5 million kWh and about \$5 million	3 500 tonnes
2012	Education Bureau; Environmental Protection Department; Fire Services Department; Food and Environmental Hygiene Department; Government Property Agency; Government Records Service; Home Affairs Department; Hong Kong Police Force; Hospital Authority;	government offices; government quarters; hospitals; libraries; markets; museums; parks and playgrounds; police stations; prisons; public toilets;	4 million kWh and about \$4 million	2 800 tonnes
2013	Immigration Department; Independent Commission Against Corruption; Judiciary; Leisure and Cultural Services Department; Marine Department; Transport Department; and Water Suppliers Department.	recreational centres; regional depots; schools; sewage treatment plants; sports centres; stadiums; swimming pools; town halls; workshop etc.	3 million kWh and about \$3 million	2 100 tonnes

[#] For calculation of the cost saving, it is assumed that the average electricity tariff is \$1 per kWh.

Apart from the above projects, there are other minor works and capital works projects adopting energy efficient features which are funded by resources allocated to other departments or project votes for individual capital projects.

Name in block letters:	CHAN Fan	
Post Title:	Director of Electrical and Mechanical Services	
Date:	2.4.2013	

Supplementary Notes for ENB053 [SFCQ-4489]

1. The no. of EE projects completed in the past few years are :

2008 (Actual) - 55 2009 (Actual) - 50

2010 (Actual) - 175

2011 (Actual) - 75

2012 (Actual) - 55

2013 (Estimate) - 50

- 2. The retrofitting of energy efficient lightings and replacement of energy efficient air conditioning systems are the most common types of EE project.
- 3. In term of financial year, the expenditures and estimated saving for implementation of energy-saving projects in the past few years are as follows:

Financial Year	Expenditure	Energy Saving	
	(\$ million)	(million kWh)	
2007-08	43.3	7.7	
2008-09	38.1	4.9	
2009-10	180.1	17.4	
2010-11	88.8	6.0	
2011-12	58.2	6.6	
2012-13	40.3 (revised estimate, subject	3.2	
	to the final account)		
2013-14	25.6 (approved estimate)	3.1	
Total	474.4	48.9	

Remarks: The above information is also given in the reply to another question on Head 137 [SFCQ-2486].

4. Energy saving of 1 million kWh is equivalent to a reduction of 700 tonnes carbon dioxide emission.