

**CONTROLLING OFFICER'S REPLY****ENB070****(Question Serial No. 4182)**

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 (Member Question No. 201):

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

	Government Department/ Public Body	Buildings/ Facilities Involved	Electricity and cost saving	Reduction in carbon emission
2011				
2012				
2013				
2014				

Asked by: Hon. KWOK Ka-ki

Reply:

During the period between 2011 and 2014, the Electrical and Mechanical Services Department has handled/will handle a total of 190 energy-saving projects for various government departments and public bodies. These projects include the 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 14 million kWh, or equivalent to an annual reduction of about 9 800 tonnes of carbon dioxide emission. A breakdown is given in the table below.

Year	Government Department/Public Body	Buildings/Facilities Involved	Electricity and cost saving <sup>#</sup> per annum	Reduction in carbon emission per annum
2011	Agriculture, Fisheries and Conservation Department; Architectural Services Department; Civil Aviation Department; Civil Engineering and Development Department; Census and Statistics Department; Correctional Services Department; Customs and Excise Department; Department of Health; Drainage Services Department; 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; Immigration Department; Independent Commission Against Corruption; Judiciary; Leisure and Cultural Services Department; Marine Department; Transport Department; and Water Supplies Department.	art and cultural venues; carpark buildings; court buildings; cooked food centres; dockyards; clinics; community centres; departmental headquarters; fire stations; government offices; government quarters; hospitals; libraries; markets; museums; parks and playgrounds; police stations; prisons; public toilets; recreational centres; regional depots; schools; sewage treatment plants; sports centres; stadiums; swimming pools; town halls; workshops, etc.	5 million kWh and electricity cost saving of about \$5 million	3 500 tonnes
2012			4 million kWh and electricity cost saving of about \$4 million	2 800 tonnes
2013			3 million kWh and electricity cost saving of about \$3 million	2 100 tonnes
2014			2 million kWh and electricity cost saving of about \$2 million	1 400 tonnes

# For calculation of 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 with energy efficiency features undertaken by various departments using their allocated resources or project votes for individual capital projects.