

CONTROLLING OFFICER'S REPLY

ENB202

(Question Serial No. 3701)

Head: (42) Electrical and Mechanical Services Department

Subhead (No. & title): (000) Operational expenses

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:

1. With regard to the renewable energy 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
2014				
2015				
2016				

2. 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
2014				
2015				
2016				

Asked by: Hon CHAN Tanya (Member Question No. 530)

Reply:

1. In promoting the application of renewable energy (RE), the Government follows the Circular on "Green Government Buildings" in incorporating RE facilities in the public works projects or venues concerned where technically feasible and cost effective, having regard to the actual site conditions. Examples include the photovoltaic system and solar water heating system at the redeveloped Victoria Park Swimming Pool Complex; the photovoltaic system and solar water heating system at Trade and Industry Tower in

Kai Tak; the photovoltaic system and wind energy system at West Kowloon Law Courts Building; the photovoltaic system, wind energy system and solar water heating system in the redevelopment project of Fire Services Training School; the photovoltaic system and solar water heating system at the reprovisioned Yaumatei Specialist Clinic at Queen Elizabeth Hospital; the photovoltaic system at Siu Ho Wan Sewage Treatment Works, etc. As these projects are funded by the provision for individual capital works projects, there is no need for the Electrical and Mechanical Services Department (EMSD) to allocate separate resources for their implementation.

2. In 2014, EMSD conducted a total of 10 energy-saving projects for various government departments and public bodies. These projects include the retrofitting of more energy-efficient lighting and control systems, and more energy-efficient air-conditioning and control system, etc. The estimated total annual energy saving is about 2 million kWh, or equivalent to an annual reduction of about 1 400 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#	Reduction in carbon emission
2014	Drainage Services Department; Food and Environmental Hygiene Department; Government Property Agency; and Leisure and Cultural Services Department.	Departmental headquarters; government offices; markets; sewage treatment plants; sports centres; and stadiums.	2 million kWh and electricity cost saving of about \$2 million	1 400 tonnes
2015*	-	-	-	-
2016*	-	-	-	-

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

* All the energy-saving projects undertaken by EMSD were completed in 2014. The energy-saving projects in 2015 and 2016 were minor works and capital works projects, and were carried out by other works departments under their respective project votes.

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