

CONTROLLING OFFICER'S REPLY

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(Question Serial No. 0490)

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 (POON Kwok-ying)
Director of Bureau: Secretary for Environment and Ecology

Question:

It is mentioned in paragraph 85 of the Budget Speech that the Government would launch a Pilot Scheme on Building-Integrated Photovoltaics (Pilot Scheme) at the Electrical and Mechanical Services Department Headquarters to explore photovoltaic technology applications on the facades of government buildings. In this regard, would the Government inform this Committee of:

1. the details of the Pilot Scheme, including the expenditure, timetable, etc.;
2. the measures the Government will take to enhance the energy efficiency of the existing and new public and private buildings in Hong Kong in 2024-25. Please provide information in respect of the expenditures, work involved and performance indicators.

Asked by: Hon TSE Wai-chuen, Tony (LegCo internal reference no.: 41)

Reply:

1. Through multi-disciplinary and inter-departmental collaboration including the Electrical and Mechanical Services Department (EMSD), Buildings Department, Architectural Services Department and Fire Services Department, the Government will launch the Pilot Scheme on Building-Integrated Photovoltaics (BIPV) (Pilot Scheme) at the EMSD Headquarters to explore photovoltaic technology applications on the facades of buildings as well as the supply of renewable energy (RE) to buildings. The project is currently under planning. We will announce the details in due course.

Apart from generating RE for the building, the Pilot Scheme can provide actual data for reference and evaluation. Based on the relevant data collected, the Government will assess the effectiveness and feasibility of BIPV from various aspects such as the actual power generation efficiency, performance in reducing indoor energy consumption as well as repair and maintenance requirements and expenditures, etc., so as to evaluate whether to extend the Pilot Scheme to other public and private organisations in the future.

2. The Government's goal is to reduce the electricity consumption of commercial buildings by 30% to 40% and that of residential buildings by 20% to 30% from the 2015 level by

2050; and to achieve half of the above targets by 2035. In this connection, the Government has been endeavouring to enhance the energy efficiency of buildings through multi-pronged measures, including:

- (a) Planning to amend the Buildings Energy Efficiency Ordinance to enhance the energy efficiency of building services installations of buildings;
- (b) Continuing to expand the coverage of the Mandatory Energy Efficiency Labelling Scheme (MEELS) and upgrade the energy efficiency grading standards of the products under the MEELS, so as to encourage the suppliers to make available more household electrical appliances with high energy efficiency while informing consumers of the energy efficiency performance of the products, thereby promoting energy conservation; and
- (c) Taking forward the implementation of the highly energy-efficient district cooling system to supply chilled water to non-domestic buildings for air-conditioning in new development areas.

The above measures, as well as the work in relation to energy efficiency and RE are part of the overall duties of the EMSD. We do not have the relevant breakdown.

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