

CONTROLLING OFFICER'S REPLY

(Question Serial No. 3088)

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 (PANG Yiu-hung)

Director of Bureau: Secretary for the Environment

Question:

What energy saving and renewable energy programmes will the Electrical and Mechanical Services Department (EMSD) implement in schools and welfare non-governmental organisations? What are the details, manpower and expenditure involved, and implementation schedule? Has the EMSD set any specific energy saving targets for future evaluation of each programme? If yes, what are the specific targets? If no, what are the reasons?

Asked by: Hon YUNG Hoi-yan (LegCo internal reference no.: 33)

Reply:

The Electrical and Mechanical Services Department (EMSD) implements the following three energy saving and renewable energy programmes for eligible schools and welfare non-governmental organisations (NGOs):

- (a) Solar Harvest has been implemented since 2019-20 for a period of five years to install small-scale solar energy generation systems free of charge for eligible schools and welfare NGOs. In 2019-20, the EMSD carried out works for 50 schools and the expenditure was about \$12.27 million. The revised estimated expenditure for 2020-21 is about \$36.45 million, which is used to carry out works for about 135 schools and welfare NGOs. As the works are still in progress, the final expenditure figures for 2020-21 are not available at the moment. The estimated total annual electricity generated in the above-mentioned 185 projects is about 1.65 million kWh. We estimate that eventually about 600 premises will participate in this programme and the total annual electricity generated will be about 5.4 million kWh.
- (b) Green Schools 2.0 – Energy Smart has been implemented since 2020-21 to install the more energy-efficient variable-speed air-conditioners (VSACs) and light-emitting diode (LED) lighting as well as real-time energy monitoring systems free of charge for eligible schools in five years. The revised estimated expenditure of the programme for

2020-21 is about \$16 million, which is used to carry out works for about 25 schools. As the works are still in progress, the final expenditure figures for 2020-21 are not available at the moment. We estimate that eventually about 300 schools will participate in this programme and the total annual energy saving will be about 40 million kWh.

- (c) Green Welfare NGOs, a new initiative, will be implemented in 2022-23 to conduct energy audits and install the more energy-efficient VSACs and LED lighting at premises of eligible NGOs free of charge in five years, with a view to improving the energy efficiency performance of these premises, as well as promoting energy saving and decarbonisation proactively. The Green Welfare NGOs targets at about 1 000 premises under more than 160 welfare NGOs which receive recurrent subventions from the Social Welfare Department, including venues providing services to the elderly, families, young people, children, rehabilitees, etc. We estimate that eventually about 300 premises will participate in this programme and the total annual energy saving will be about 5 million kWh.

The staff establishment for Solar Harvest and Energy Smart comprises two Senior Engineers, seven Engineers, two Inspectors, one Assistant Inspector, one Senior Technical Officer and one Technical Officer. The work of Green Welfare NGOs will be undertaken by the EMSD's existing manpower.

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