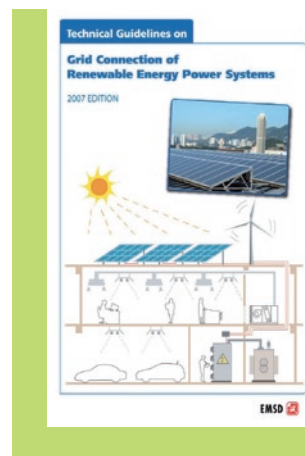


Promotion of Renewable Energy

Grid Connection of Renewable Energy Power Systems

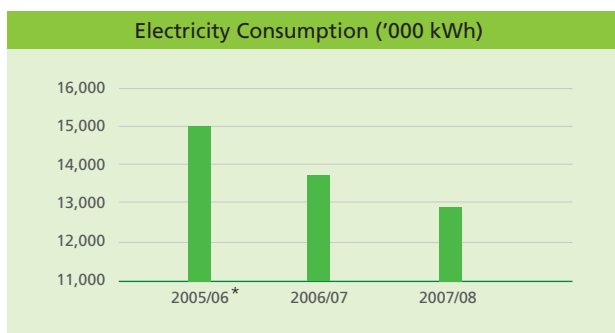
To keep pace with changes in international standards and technological advancements in trade and industry, EMSD published the Technical Guidelines on Grid Connection of Renewable Energy Power Systems (2007 Edition). Compared with the first edition issued in 2005, the application range in the new edition has been increased from 200kW to 1000 kW in respect of the Aggregated Power Rating of the system.



Conservation of Operational Resources

Electricity

The total purchased electricity was 12.82 GWh in 2007/08, covering Kowloon Bay headquarters, Caroline Hill workshop, Fan Garden vehicle depot, Siu Ho Wan vehicle depot, and EMSD workshop at Chek Lap Kok Air Mail Centre. From 2005/06 to 2007/08, there has been a general decline in electricity consumption.



* Note: EMSD relocated its headquarters from Caroline Hill Road to Kowloon Bay in 2005/06. As a result of phased relocation, there was parallel operation of both the old and new headquarters buildings for a brief period leading to a higher consumption level in that year. The increase in consumption was also attributed to the provision of many new facilities in the new headquarters building such as the Corporate Data Centre, Education Path on Energy Efficiency and Safety and training centre for electrical workers. The structural features of the new headquarters building such as the high ceiling and wide circulation area also led to more electricity consumption. The total electricity consumption would have been lower if the additional electricity consumption arising from new facilities and structural features is discounted for a like-to-like comparison.

EMSD strives to continuously look for opportunities for energy saving. The electricity consumption in 2007/08 was lower than that in 2006/07. The factors leading to the decrease included installing occupancy sensors in toilets, fine-tuning the occupancy sensors in office areas and common areas to reduce the idle time, carrying out de-lamping in over illuminated area (a total of 832 lighting fixtures were removed in the period between August 2007 and September 2007), and tightening up of house-keeping measures.

Besides, a departmental wide energy conservation campaign was launched in June 2007 to raise the energy efficiency awareness of our management and staff. Several simple and effective housekeeping measures were promoted throughout this campaign:

- Adjust the room temperature setting (where there is separate air-conditioning control) to 25.5°C in summer months
- Switch off all electrical appliances after office hours and avoid leaving the office equipment, computers and printers in stand-by mode
- Appoint energy wardens to remind colleagues to comply with all housekeeping measures
- Use 7-day timer switch to automatically switch off equipment after office hours



Departmental Wide Energy Conservation Campaign