

配合「綠建環評」 加強總部大樓綠化

Promote Green Transformation of EMSD Headquarters Building for BEAM Plus

機電署一直重視環保和社區發展，不但向市民、客戶推廣節能減排，還致力綠化總部大樓，以及提供社區友善設施。總部大樓先後榮獲「綠建環評既有建築」最終鉑金級證書和「綠建環評社區」（先導評估）鉑金級證書，現已成為可持續發展的典範，同時也是九龍東一個可推廣低碳建築的綠色景點。

根據「綠建環評社區」的評估，總部大樓綠化改造工程包括多個重要項目，其中啓德發展區區域供冷系統分站的興建工程已於今年5月完成，並在6月正式啓用。連接啓德發展區區域供冷系統後，總部大樓每年可節省約170萬度電（相等於三百個家庭的平均用電量），約佔大樓總用電量的15%。大樓原有的冷凍機組和相關設施拆卸後，相關的維修費用便可節省，而原有空間更可騰出作其他用途。

此外，我們於今年2月也採用先進技術，在總部露天廣場裝設太陽能風能混合路燈，利用可再生能源推動可持續發展。太陽能風能混合路燈結合太陽能和風力技術，並使用發光二極管燈，比原有的路燈節省達90%電力。

我們將繼續實施具能源效益和綠化環境的措施，把總部大樓改造為更環保和可持續發展的建築。我們希望透過與客戶分享「綠建環評」認證的成功經驗，把認證推廣至客戶場地，進一步改善場地的能源效益及環境管理。

有興趣的客戶如欲了解「綠建環評」認證工作的詳情，歡迎聯絡高級工程師楊航愉先生（電話：2808 3594）。

安裝於總部的太陽能風能混合路燈比原有的路燈節省達90%電力。
The solar wind hybrid street lights installed at our headquarters achieve an energy saving of 90% as compared with the previous conventional street lights.



區域供冷系統分站的熱交換器為機電署總部大樓提供冷水，有助大樓每年節省約 15% 用電量。
The heat exchanger of the substation of the DCS provides chilled water for the EMSD Headquarters Building and helps achieve a saving of around 15% in the total electricity consumption.

EMSD has been attaching great importance to environmental protection and community development. We not only promote energy saving and carbon emission reduction to the public and our clients, but have also devoted much efforts to the green transformation of our headquarters building, and the provision of community-friendly facilities surrounding it. After being awarded the Final Platinum Rating Certification under BEAM Plus Existing Buildings and the Platinum Rating Certification under BEAM Plus Neighbourhood (Pilot Version), the headquarters building has become a role model of sustainable development, and a green attraction in Kowloon East promoting low-carbon buildings.

According to the assessment of BEAM Plus Neighbourhood, the green transformation of the headquarters building covers a number of major projects, including the construction of a substation of the District Cooling System (DCS) at the Kai Tak Development (KTD) which was completed in May and has commenced operation since June this year. Upon connection to the DCS at the KTD, there will be a saving of around 1.7 million kWh of electricity per year (equivalent to the average electricity consumption of 300 households), representing around 15% of the total electricity consumption of the

headquarters building. In addition, demolition of the original chillers and the related facilities will contribute to a reduction in the maintenance costs and vacate the space occupied by these facilities for other purposes.

By employing advanced technology, we also installed solar wind hybrid street lights at our headquarters piazza in February this year so as to promote sustainable development through renewable energy. With the combination of solar and wind power, and the use of LED lightings, the solar wind hybrid street lights achieved an energy saving of 90% as compared with the previous street lights.

We will continue to adopt more energy efficient and greening measures to transform the headquarters building into a more environmentally friendly and sustainable one. Through sharing our successful experience in obtaining BEAM Plus certification with our clients, we hope that with further enhancement of energy efficiency and environmental management, their premises will also be granted certification.

If clients are interested to know more about BEAM Plus certification, please contact Mr. Yeung Hong-yu, Senior Engineer, at 2808 3594.