

協助醫管局大樓獲取「綠建環評」卓越評級

Achieving BEAM Plus Excellent Grading in Energy Use Certification for Hospital Authority Building

機電署是首個榮獲「綠建環評既有建築(1.2版)」最終鉑金級證書及「綠建環評社區」鉑金級證書的政府部門。我們憑着這些豐富的經驗，向客戶推廣可持續發展，並且協助為其他政府大樓申請有關認證，而既有建築物與新建築物相比，面對的挑戰更大。經過兩年時間的籌備，我們協助醫院管理局(醫管局)大樓獲得「綠建環評既有建築(2.0版)自選評估計劃」的「能源使用」範疇卓越評級。這次認證讓我們進一步協助客戶提升既有建築物可持續發展的表現，而所獲的卓越評級更肯定了我們和客戶共同努力的成果。

在自選評估計劃的六大範疇中，我們選擇了「能源使用」來評級，結果整體表現得分高達90%，更獲香港綠色建築議會認同「這項成就標誌着機電署在香港推動可持續建築方案的承諾」。

醫管局大樓落成至今20年，我們持續監察大樓的能源使用，一直為機電設施進行更新，並引入先進的節能科技，以提升能源效率，例如使用高效能無油磁浮式製冷機、為風櫃機安裝變頻器和二氧化碳傳感器、發光二極管照明裝置等；加上不斷強化環境及能源管理措施，以推動建築物的良好運作及管理，減少浪費能源，因此我們很快達到目標，為客戶取得認證。透過上述高效節能措施，醫管局大樓在2016年的用電量較2012年下降逾18%，成效顯著。

我們樂於與客戶分享「綠建環評」認證的經驗，如客戶有興趣，歡迎聯絡高級工程師莊國基先生(電話：3155 4000)。



我們與醫管局共同努力，獲得「綠建環評既有建築自選評估計劃」的「能源使用」範疇卓越評級。圖為機電署與醫管局代表的合照。

We worked collaboratively with the Hospital Authority to attain the Excellent Grading in the "Energy Use" aspect under BEAM Plus Existing Buildings Selective Scheme. Pictured is a group photo of EMSD and HA's representatives.

The EMSD is the first government department to attain the Final Platinum Rating Certification under BEAM Plus Existing Buildings (V1.2) and the Platinum Rating Certification under BEAM Plus Neighbourhood. By leveraging this rich experience, we proactively promote sustainable development among our clients and help other government buildings apply for similar certification. Compared with the accreditation process for new buildings, the challenges are much greater for existing buildings. After two years of strenuous preparation, we successfully assisted the Hospital Authority (HA) Building in achieving the Excellent Grading in the "Energy Use" aspect under BEAM Plus Existing Buildings (V2.0) Selective Scheme. Through this exercise, we went the extra mile to help our client enhance their performance in sustainable development of the existing building. Obtaining the Excellent Grading further affirmed the collaborative efforts by EMSD and our client.

Among the six aspects under the Selective Scheme, "Energy Use" was selected for certification. We attained an extremely high score of 90% and earned recognition from the Hong Kong Green Building Council, which stated that "This achievement signifies the EMSD's

commitment in promoting solutions for sustainable buildings."

The HA Building has been in service for 20 years. All along we have been monitoring its energy use, renewing its E&M facilities and introducing the latest energy saving technologies to enhance its energy efficiency. Examples include the adoption of more energy-efficient oil-free chillers, installation of variable frequency drives and CO₂ detectors for air-handling units, application of LED lighting, etc. Meanwhile, we have been constantly strengthening the environmental and energy management measures to ensure proper operational management and reduce energy waste of the HA Building. Ultimately, we managed to reach our targets quickly and helped our client obtain the certification. Through implementation of the above salient energy saving measures, the electricity consumption at the HA Building in 2016 dropped significantly by more than 18% as compared with that in 2012. The result is exhilarating and remarkable.

We are happy to share with our clients the experience of BEAM Plus accreditation. If you are interested, please contact Mr. Chong Kwok-kee, Senior Engineer, at 3155 4000.

我們在醫管局大樓安裝節能的發光二極管照明裝置，以提升能源效益。
We installed energy saving LED lighting in HA Building to enhance its energy efficiency.