

機 電工程署全力支持政府協助推廣使用電動車的環保政策，以改善路邊空氣質素和減少由傳統內燃發動機的汽車所排放的溫室氣體。

為配合本港的電動車增長，電動車充電基礎設施是不可缺少的。由於電動車輛充電設施屬於固定電力裝置，因此必須符合《電力條例》（第406章）及其附屬規例的相關安全規定。我們於2011年公布了《電動車輛充電設施技術指引》（《技術指引》），協助電動車使用者、註冊電業承辦商、以及註冊電業工程人員了解不同的充電設施。

隨着科技進步，較新款的電動車都裝備了更先進和更高功率的車載充電器。在2014年，《技術指引》工作小組就《電動車輛充電設施技術指引》進行檢討，並建議多項更新。

新版《技術指引》提供了電動車充電設施的國際和國家標準的最新資訊，以及對其主要部件的要求；而《技術指引》內容則參考了大部分香港電動車支援的IEC 61851 標準（即國際電工技術委員會標準）內的傳導充電模式3。與充電模式1相比，模式3可節省充電時間多達60%。新版《技術指引》亦增加了充電模式3專用的插座和插頭等照片。

新版《技術指引》已於2015年4月出版，並可從這個連結下載：
http://www.emsd.gov.hk/emsd/c_download/ppls/pub/Charging_Facilities_Electric_Vehicles.pdf



IEC 61851 充電模式3使用符合IEC 62196標準的專用插座和插頭，可傳送更高的充電電流，節省充電時間多達60%。

Using IEC 61851 Mode 3 charging together with dedicated plugs and sockets conforming to IEC 62196 can deliver a higher charging current, and hence a shorter charging time by as much as about 60%.

新版 《電動車輛充電設施技術指引》

New Technical Guidelines on Electric Vehicles Charging Facilities



香港大部分電動車都可以支援IEC 61851標準的傳導充電模式3充電。
IEC 61851 Mode 3 conductive charging is supported by most electric vehicles in Hong Kong.

EMSD supports the Government's environmental protection policy on the promotion of wider use of electric vehicles (EVs) in Hong Kong to help improve roadside air quality and reduce greenhouse gas emissions from conventional combustion engine vehicles.

The development of an EV charging infrastructure is essential to complement the growth of EV quantity in Hong Kong. Essentially, EV charging facilities are fixed electrical installations and shall comply with the relevant safety requirements of the Electricity Ordinance (Cap. 406) and its subsidiary regulations. Therefore, a set of Technical Guidelines on Charging

Facilities for Electric Vehicles (the Technical Guidelines) was promulgated in 2011 to help EV users, registered electrical contractors, and registered electrical workers understand the setting up of different charging facilities.

With the advancement of technology, newer EV models are now equipped with more advanced and higher power on-board chargers. In 2014, the Working Group on the Technical Guidelines conducted a review and recommended certain updates to the Technical Guidelines.

The new Technical Guidelines provide the latest information on international and national standards as well as the requirements of the major components of electric vehicle charging facilities. Reference is made to using IEC 61851 Mode 3 conductive charging as it is supported by most electric vehicles in Hong Kong. The charging time with Mode 3 can be reduced by as much as about 60% as compared with Mode 1. Photos illustrating Mode 3 charging with dedicated sockets and plugs have been also added to this edition.

The new edition of the Technical Guidelines was launched in April 2015 and can be downloaded from this link: http://www.emsd.gov.hk/emsd/e_download/ppls/pub/Charging_Facilities_Electric_Vehicles.pdf.

