

了解客戶需要 研發最新技術方案

Understanding Clients' Needs in Developing Latest Technological Solutions

機電署作為客戶的長期合作伙伴和首選服務供應商，十分熟悉客戶部門的運作及需要，一直為客戶提供全面的工程服務。我們在工程項目落實前便開展前期的可行性研究工作，提供技術顧問服務，為客戶開發最新及適切的技術方案。

為懲教所更換和提升閉路電視系統

懲教署近期擬更換大欖、塘福及東頭三間懲教所已使用超過十年的閉路電視系統，並將之提升為全新的數碼化閉路電視系統。我們為這項大型工程項目提供全面的顧問服務，並為客戶引入先進的科技和設備。

在進行前期可行性研究工作期間，我們實地考察，建議在三間懲教所安裝共約1 400部高解像度攝影機，以及安裝數碼化的中央實時影像監控管理系統，配置長達31天錄像儲存功能和無間斷電力供應裝置等，以提高系統的運作效率和可靠度。

新系統更配備實時影像分析功能，如有接近人體溫度的生物進入禁區範圍，系統會立即鎖定目標、進行監控，並發出預警，進一步提升懲教所的保安水平。此外，攝影機也符合開放型網路視頻接口論壇的國際標準，任何符合這個標準的攝影機都可應用於此系統上，使監控系統更易於整合及擴充，更方便日後維修保養。

設計和開發警務處車隊管理系統

現時警務處擁有一支為數2 300多部車輛的車隊。為協助警務處改善工作流程，提高車隊的管理和維修效率，我們於2016年年底進行可行性研究，設計新車隊管理系統，並將車輛遠程信息處理科技整合和應用到新系統上。

我們了解客戶需要，主動提供增值建議。建議中的車隊管理系統將具備多項功能：配備電子駕駛日誌，以期取代沿用已久的駕駛日誌簿，以便更有效率地管理車輛的使用記錄；通過安裝在車上的黑盒，引入遠程診斷功能，監測車上設備的運作狀態，有助提升車輛的可靠度及維修效率；收集車輛行車數據（例如車速、煞車情況等資料），從而鼓勵改善駕駛習慣，令行車更安全。系統的設計樣本將於今年4月完成，並會向客戶作技術展示。



As a long-term working partner and the most preferred service provider of our clients, EMSD is familiar with our client departments' operations and needs. We have all along provided comprehensive engineering services to our clients. Even before an engineering project is implemented, we conduct feasibility studies and technical consultancy services in order to devise the most up-to-date and fitting technical solutions for our clients.

Replacement and Enhancement of Closed-circuit Television (CCTV) Systems at Correctional Institutions

The Correctional Services Department (CSD) has recently planned to replace the over-ten-year old CCTV systems at three of their correctional institutions in Tai Lam, Tong Fuk and Tung Tau, having them upgraded to new digital CCTV systems. We provided comprehensive consultancy services to CSD by introducing the latest technology and equipment for the project.

In carrying out the feasibility study, we made field trips and then recommended that around 1 400 high-resolution cameras be installed at the three institutions. Each of the new systems will be fitted with a central digital video management system with real-time surveillance and video storage of up to 31 days backed up by uninterrupted power supply. This enhances the operational efficiency and reliability of the system.

Furthermore, the new system features a real-time video analytic function. When any creature with its body temperature close to a human's temperature enters the restricted area, the system will identify and monitor the target and issue alerts. This function helps further improve the security level of the correctional institutions. In addition, the cameras meet the international standard of the Open Network Video Interface Forum, and any camera meeting this standard can be used in the new system, making the surveillance system easier for integration and expansion, and more convenient for future maintenance.

Design and Development of Fleet Management System for Hong Kong Police Force

The Police has a fleet of more than 2 300 vehicles. To assist the Police in improving its workflow and efficiency of vehicle fleet management and maintenance, we commenced a feasibility study at the end of 2016 to design a new fleet management system (FMS) by integrating and applying the vehicle telematics technologies into the police vehicle fleet.

Having gauged the client's needs, we proactively work out a value-added protocol of the FMS. The proposed FMS will feature a number of functions, such as the provision of an electronic driving journey log with a view to replacing the long-used manual logbook so as to manage the vehicle usage records more efficiently; the introduction of a remote diagnostic function through the onboard blackbox for monitoring the operating conditions of the equipment onboard and enhancing the vehicle reliability and maintenance efficiency; the collection of vehicle running data, such as speed, brakes and other information, for fostering good driving habits and safe driving. The design prototype of the system is anticipated to be completed in April this year for technical demonstration to our client.



我們向警務處建議安裝的新車隊管理系統，具備多項先進功能，有助提升車隊管理及車輛的維修效率。

The proposed new fleet management system for the Police features many advanced functions which will help fleet management and improve maintenance efficiency.