



環保報告 Environmental Report 2024/25



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署長緒言

Director's Message

我很高興向各位介紹路政署二零二四至二五年度的環保報告。這份報告闡述我們過去一年在環境管理方面持續付出的努力，以及在二零二五至二六年度的環保指標及措施。

過去一年，我們繼續在主要基建工程及部門日常運作中推展多方面的環保措施。中九龍繞道（油麻地段隧道）的綠色建築設計展現了我們為可持續的設計與建築所作出的承諾。作為整條中九龍繞道（油麻地段隧道）的中樞，啟德行政大樓整合了可再生能源系統、天然照明和雨水回收系統，大幅減少大樓的耗電量和用水量。我們成功拆卸位於海底隧道收費廣場的含石棉物料的收費亭簷篷，突顯出一絲不苟的環境管理、充分的持份者參與，以及對健康、安全和環境管理的堅定承諾的重要性。為繼續發展以鐵路為骨幹的公共交通系統，我們在新建的洪水橋站採用了可持續的設計和建造方法。該站透過結合自然通風、太陽隔熱和利用日照等特色以減少能源消耗，落成後將成為香港與深圳之間跨境連接的重要交匯樞紐。

我們恪守對可持續發展的承諾，並為此探索及試驗創新科技及環保物料，包括應用探地雷達系統在不造成破壞的情況下評估地底狀況。這種主動和非入侵性的方式不但提升運作效率，更最大限度地減少了對環境的影響，在市區和敏感地區尤其有價值。

回顧二零二四至二五年度，我們完全達到所有環保指標，成績可喜。我們的努力和成就亦獲得各界肯定，並獲頒多個環保獎項。這些成就展現了我們在達致卓越的環境管理方面的堅定決心。此外，我們積極參與各項環保和慈善活動，在同事之間培養環保意識和社會責任的文化。

我藉此衷心感謝我的同事們在過去一年秉持專業精神並付出寶貴貢獻。展望未來，我們會繼續以可持續發展的方式提供高質素的公共服務，致力將我們的社區建設成更綠化、更宜人的地方。



路政署署長
邱國鼎

I am delighted to present to you our Environmental Report 2024/25, which highlights our continuing efforts in environmental management in the past year and introduces our environmental targets and initiatives for 2025/26.

Throughout the past year, we continued to implement a wide range of environmentally friendly initiatives in our major infrastructure projects as well as our daily operations. The Green Building Design of the Central Kowloon Bypass (Yau Ma Tei Section Tunnel) (CKB (YMTST)) exemplifies our commitment to sustainable design and construction. As the central hub of the entire CKB (YMTST), the Kai Tak Administration Building integrates renewable energy systems, along with natural lighting and a rainwater recycling system, which significantly reduces both electricity and water consumption. The successful demolition of the asbestos-containing canopy at the Cross-Harbour Tunnel Toll Plaza highlights the importance of meticulous environmental management, proactive stakeholder engagement, and an unwavering commitment to health, safety, and environmental stewardship. In developing railway as the backbone of our public transport system, we have adopted sustainable design and construction methods for the new Hung Shui Kiu Station. To serve as a key interchange hub to enhance cross-boundary connectivity between Hong Kong and Shenzhen upon its completion, the new station will reduce energy consumption by integrating features of natural ventilation, solar control and daylight harvesting.

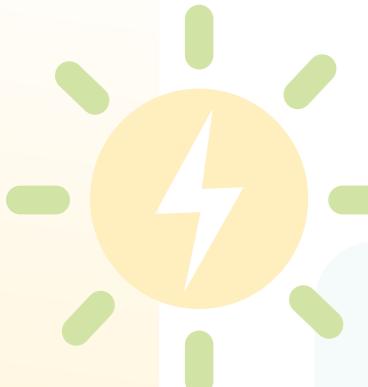
Our commitment to sustainability drives us to explore and test innovative technologies and environmentally friendly materials, including the application of the Ground Penetrating Radar System for assessing underground conditions non-destructively. This proactive and non-invasive approach not only enhances operational efficiency, but also minimises environmental disruption, making it particularly valuable in urban and sensitive areas.

I am pleased to conclude that our environmental targets for 2024/25 have been fully accomplished. Our efforts and achievements have been recognised through various environmental awards, demonstrating our unfaltering dedication to excellence in environmental management. In addition, we actively engaged in a variety of green and charitable activities, fostering a culture of environmental awareness and social responsibility among our staff.

I would like to express my sincere gratitude to my colleagues for their professionalism and valuable contributions throughout the past year. Looking ahead, we will continue to provide high quality services to the public in a sustainable manner, and strive to make our community a greener and more pleasant place for everyone.



Tony YAU
Director of Highways



引言 Introduction

本報告重點闡述本署於二零二四至二五財政年度在減少碳排放、環境管理、研究與科技拓展和持份者參與各方面的主要措施和成就，以展示我們為履行環保責任所作出的努力。我們的努力獲充分肯定，獲得多項具聲望的環保獎項，體現了我們在此領域擔當領導角色，反映我們在此領域追求實質性進展及引領行業發展的決心。除了根據本年度的環保指標檢討我們的表現，我們亦會概述更新後的二零二五至二六年度環保目標，進一步強化了面向可持續未來的長期願景。秉持核心原則，本報告的中、英文版本會以數碼方式在本署網站發表，以減少紙張浪費，並配合我們的整體環境目標。

This report demonstrates our commitment to environmental responsibility by showcasing key initiatives and achievements from the 2024/25 fiscal year across carbon reduction, environmental management, research and technology development, and stakeholder engagement. Our efforts, recognized through prestigious sustainability awards, reflect our dedication to meaningful progress and leadership in this field. Beyond reviewing our performance against this year's environmental targets, we also outline our renewed objectives for 2025/26, reinforcing our long-term vision for a sustainable future. True to our principles, this report is available digitally on our website, eliminating paper waste and aligning with our broader environmental goals.



路政署概述

Department Profile

關於我們

Who we are

路政署共有大約 690 名專業人員，他們來自各專業界別包括工程、測量、園境及建築。此外，大約有 1,780 名其他職系人員支援部門運作。

We have an establishment of about 690 professionals across a range of disciplines, including engineering, surveying, landscaping and architecture. Additionally, another 1,780 staff members in other grades support the activities of the Department.

路政署有

We have



690

名專業人員
professional staff



1,780

名其他職系人員
staff in other grades

我們的位置

Where we are

路政署的總部位於何文田政府合署，各分處則位於：

The Headquarters of the Highways Department are located in Ho Man Tin Government Offices with sub-offices in:

- 長沙灣政府合署 Cheung Sha Wan Government Offices
- 長沙灣廣場 Cheung Sha Wan Plaza
- 新領域廣場 Grand City Plaza
- 南豐商業中心 Nan Fung Commercial Centre
- 北角政府合署 North Point Government Offices
- One Sky Parc
- 海濱廣場 The Harbourfront Towers
- 工業貿易大樓 Trade and Industry Tower

辦公室總樓面面積

Total office floor area



29,400

平方米
m²

開支

Expenditure

二零二四至二五財政年度的運作開支總額為

Total operating expenditure in the financial year 2024/25

43 億 5 千 3 百萬 港元

HK\$ 4,353 million



我們的工作
What we do

- 負責擴展和改善本港道路網絡，以應付日益增加的交通需求，並為新發展地區提供服務，便捷境內及跨境的客貨運交通，同時達到可持續發展的目標。
To expand and improve the road network of Hong Kong in order to meet the growth in traffic demand, serve new development areas and facilitate the movement of people and goods both within the territory and across the boundary and at the same time contribute towards sustainable development.
- 負責維持完善的道路網絡（尤其着重安全及可用性），落實地區道路基建工程，以促進和配合公營及私營機構的發展。
To maintain the integrity of the road network with particular emphasis on safety and serviceability, and implement local road infrastructure works to facilitate and cope with the public and private sector developments.
- 為行人提供基建設施（例如行人天橋、升降機、有蓋行人通道及扶手電梯），提升區內目的地之間的暢達性和連接性，藉此締造行人友善的環境。
To provide infrastructure for pedestrians such as footbridges, lifts, covered walkways and escalators to enhance accessibility and connectivity between local destinations with a view to fostering a pedestrian-friendly environment.

- 為本港鐵路網絡的進一步發展制訂計劃。
To formulate plans for further development of the railway network in Hong Kong.
- 就道路網絡的建造和維修工程，提供技術支援和釐定標準。
To provide technical support and set standards for the construction and maintenance of the road network.
- 研究新物料、技術和標準（包括環保科技），評估是否適宜在本港使用。
To research new materials, techniques and standards including environmentally friendly technologies, and evaluate their applicability in Hong Kong.

我們負責保養
We maintain



2,242 公里道路
km of roads



1,475 條道路橋樑
road bridges



22 條行車隧道
road tunnels



1,074 條行人天橋
footbridges



549 條行人隧道
subways



240,000 個照明點
lighting points



13,480 幅路旁斜坡
roadside slopes



570,000 棵樹木
trees

抱負和使命
Vision and Mission



我們的抱負
Our Vision

發展及保養道路網、計劃及實施鐵路發展，達致世界先進水平。
To develop and upkeep the road network as well as to plan and implement railway development to world-class standards.



我們的使命
Our Mission

為促進社會長遠的繁榮及改善市民的生活質素，我們承諾：
In order to enhance the long-term prosperity and improve the living standards of the community, we are committed to:



擴展及改善道路網，以配合運輸交通及城市發展的需求；
expanding and improving the road network to meet the growth and change in transport needs, and development requirements;



保持道路網在完好及安全狀況；
maintaining the integrity of the road network;



為道路網的策劃、設計、建築及保養工程，提供高質素的技術支援；以及
providing high quality technical support for the planning, design, construction and maintenance of the road network; and



實施及檢討鐵路發展策略。
implementing and updating the Railway Development Strategy.



環保目標
Environmental Goal

我們旨在充分照顧環境的情況下，能有效率地完成工務工程。
Our environmental goal is to accomplish public works efficiently and with due regard to the environment.

管理政策
Management Policy

我們致力維持一套符合國際標準 ISO 9001 和 ISO 14001 規範之綜合管理制度，以確保在發展和改善道路網、策劃和實施鐵路發展計劃時，在工作各階段納入品質及環境保護為考慮項目。為貫徹此政策，我們承諾：

We maintain an Integrated Management System to meet the requirements of the International Standards ISO 9001 and ISO 14001. We incorporate quality and environmental considerations at all stages of our work in developing and up-keeping the road network as well as planning and implementing the railway system. In so doing, we are committed to:

- 為市民提供高質素服務；
delivering high quality services to our community;
- 鑑定和控制我們的工作在各階段與環境有關的要素，善用資源，盡量減少廢物及防止污染；
identifying and controlling the environmental aspects at all stages of our work, using resources efficiently, minimising waste and preventing pollution as far as practicable;
- 監察服務提供者，以確保工程質素優良，防止或減輕工程對環境造成的影響；
monitoring the performance of our service providers to ensure good quality of works and to prevent or mitigate potential environmental impacts arising from our projects;
- 遵守相關法例和其他規定；
complying with relevant legal and other requirements;
- 在兼顧環境、社會和經濟需要的前提下，推行可持續發展的建造模式；以及
sustainable construction with due consideration to balancing environmental, social and economic needs; and
- 更廣泛應用創新科技和嶄新的作業方式。
wider adoption of innovative technologies and practices.

我們透過定期檢討這綜合管理制度及其管理目標與指標，力求不斷改進，令我們的服務更臻完善。
We improve our services through regular review of our Integrated Management System, its Management Objectives and Targets, and through identification of opportunities for continual improvement.

減少碳排放 Towards Carbon Reduction

07

公共照明節約能源
Energy Saving in Public Lighting



公共照明節約能源

Energy Saving in Public Lighting

《香港氣候行動藍圖 2030+》概述了應對氣候變化的中、長期工作及減碳目標，目標是把二零三零年香港的碳排放量由二零零五年的水平降低 65% 至 70%。為此，我們已推行多種措施減少能源消耗，以達致上述減排目標。

為配合減低碳強度的目標，並進一步提升香港公共照明的能源效益，我們在二零一七至一八年推出發光二極管 (LED) 公共照明更換計劃，把傳統路燈、高架道路標誌及路邊泛光燈，以及位於行人天橋和行人隧道的熒光燈管更換為 LED 照明設備。二零二四至二五年度，計劃擴展至涵蓋所有行人天橋和行人隧道照明燈、公共運輸交匯處高懸燈和地下行車通道照明燈，預計於二零二九年完成所有更換工程。我們的目標是為市民提供安全、優質、可靠和可持續的公共照明服務。

The “Hong Kong's Climate Action Plan 2030+” outlined the medium and long-term work against climate change and carbon reduction objectives, with an aim to reduce Hong Kong's carbon emission by 65% to 70% by 2030 using 2005 as the base. To this end, we have introduced various measures to reduce energy consumption to help achieving the target.

To align with the objectives of reducing carbon intensity with the vision to further enhance the energy efficiency of public lighting in Hong Kong, we launched the Light Emitting Diode (LED) public lighting replacement programme in 2017/18 to replace the conventional road lights, gantry sign and roadside floodlights, and fluorescent tubes at footbridges and subways with LED luminaires. In 2024/25, the programme has been extended to cover all lightings at footbridges and subways, high-bay lights at Public Transport Interchanges (PTIs) and lights at underpasses, targeted for completion by 2029. We aim to provide safe, high quality, reliable and sustainable public lighting services to the public.



LED 公共照明更換計劃的成效

Achievement in LED Public Lighting Replacement Programme

由二零二四年四月一日至二零二五年三月三十一日，我們更換了約 19,000 盡照明燈，遠超我們的年度目標。自計劃在二零一七至一八年展開以來，我們更換了約 165,000 盡不同類型的照明燈，涵蓋全港約 95% 的路燈、約 47% 的行人天橋和行人隧道熒光燈管、約 19% 的公共運輸交匯處照明燈和約 16% 的地下行車通道照明燈，合共節省約 83,000,000 千瓦小時的電能，相當於減少排放 49,800 噸溫室氣體。

我們將會繼續留意 LED 照明設備及其他照明技術的發展，以提供更環保和節能的公共照明系統。

From 1 April 2024 to 31 March 2025, we replaced about 19,000 lighting points, significantly exceeding our annual target. Since the programme began in 2017/18, we have replaced around 165,000 lighting points of various types, covering about 95% of total road lights, 47% of fluorescent tubes in footbridges and subways, 19% of lighting points at PTIs, and 16% of lighting points in underpasses across Hong Kong. This has resulted in total energy savings of about 83,000,000 kWh, equivalent to a reduction of 49,800 tonnes of greenhouse gas emissions.

We will continue to monitor the development of LED luminaires and other lighting technologies with a view to developing a more environmentally friendly and energy-saving public lighting system.

更換 LED 燈

Replacement of LED Lights



渡船街與登打士街交界橫跨渡船街行人天橋的 LED 照明
The LED lighting at Footbridge across Ferry Street at junction with Dundas Street



荃灣西站公共運輸交匯處的 LED 照明
The LED lighting at Tsuen Wan West Station Public Transport Interchange



屯門公路下方近海韻花園的地下行車通道的 LED 照明
The LED lighting at Underpass underneath Tuen Mun Road near Rhine Garden

辦公室節約能源

Energy Saving in Office

節能措施

Energy Saving Measures

我們會竭盡所能減少耗電量，並已公布下列措施：

We endeavour to reduce energy consumption in office and have promulgated the following measures:



委派能源督導員以監察照明設備的使用情況，確保照明光度保持在可接受的最低水平
Appoint Energy Wardens to monitor the usage of lighting equipment and to keep the illumination level to the minimum but acceptable level



在炎夏季節保持空調溫度不低於攝氏 25.5 度
Maintain air-conditioning temperature not lower than 25.5° C in hot seasons



在午膳時間或長時間離開辦公室時關掉電燈
Switch off lights during lunch or when staff are away for long periods



關掉不使用的電腦設備及電器
Switch off computer equipment and electric appliances when not in use



多使用樓梯上落辦公室內各樓層
Encourage the use of staircase for inter-floor traffic



利用裝設於各路政署辦公室的獨立電錶以監察用電情況
Monitor the electricity consumption of offices of the Highways Department with individual electricity meters installed

我們一直研究改善路政署辦公室設施的可行性，以進一步減低辦公室的耗電量。在二零二五年年初，我們已經把何文田政府合署辦公室部分舊有的可變冷劑流量冷氣機，更換為更節能的冷氣機。如撥款申請獲得通過，何文田政府合署辦公室內另外三部舊有的可變冷劑流量冷氣機和該辦公室的製冷空調系統之更換工程，最早可在二零二五至二六年度開展。

The feasibility of upgrading facilities to achieve a further reduction in energy consumption has been explored. Some aged Variable Refrigerant Volume (VRV) air-conditioning units in our offices at Ho Man Tin Government Offices were replaced with more energy-saving ones in early 2025. Subject to the approval of funding, the replacement of another three aged VRV and chiller air-conditioning systems in our offices at the same premises may commence in 2025/26 at the earliest.

在二零二四至二五年度，本署的耗電量及相應間接氣體排放量的數字載於下表：

Electricity consumption in 2024/25 with corresponding indirect gas emission figures:

辦公室 Offices	耗電量 Electricity Consumption (千瓦小時 kWh)	間接氣體排放量 Indirect Gas Emissions (公斤 kg)		
		二氧化硫 SO ₂	氮氧化物 NO _x	可吸入懸浮粒子 RSP
長沙灣廣場 Cheung Sha Wan Plaza	10,166 [與二零二三至二四年度相比] -3.71%	19.42	11.79	0.61
新領域廣場 Grand City Plaza	22,680 [Comparison with 2023/24] -3.33%	43.32	26.31	1.36
何文田政府合署 Ho Man Tin Government Offices	902,971 2.03%	1,724.67	1047.45	54.18
南豐商業中心 Nan Fung Commercial Centre	417,086 0.39%	796.63	483.82	25.03
北角政府合署 North Point Government Offices	142,749 -11.23%	272.65	165.59	8.56
One Sky Parc ¹	444,178 (N/A)	848.38	515.25	26.65
海濱廣場一座 The Harbourfront Tower 1	59,495 -14.03%	113.64	69.01	3.57
海濱廣場二座 The Harbourfront Tower 2	12,790 -7.61%	24.43	14.84	0.77
工業貿易大樓 Trade and Industry Tower	693,528 2.49%	1,324.64	804.49	41.61

¹ 在二零二零年至二零二三年期間陸續有新辦事處遷入 One Sky Parc，因而並無比較這段時間的耗電量。
Offices were progressively moved into One Sky Parc from 2020 to 2023, so no comparison was made.

減排表現

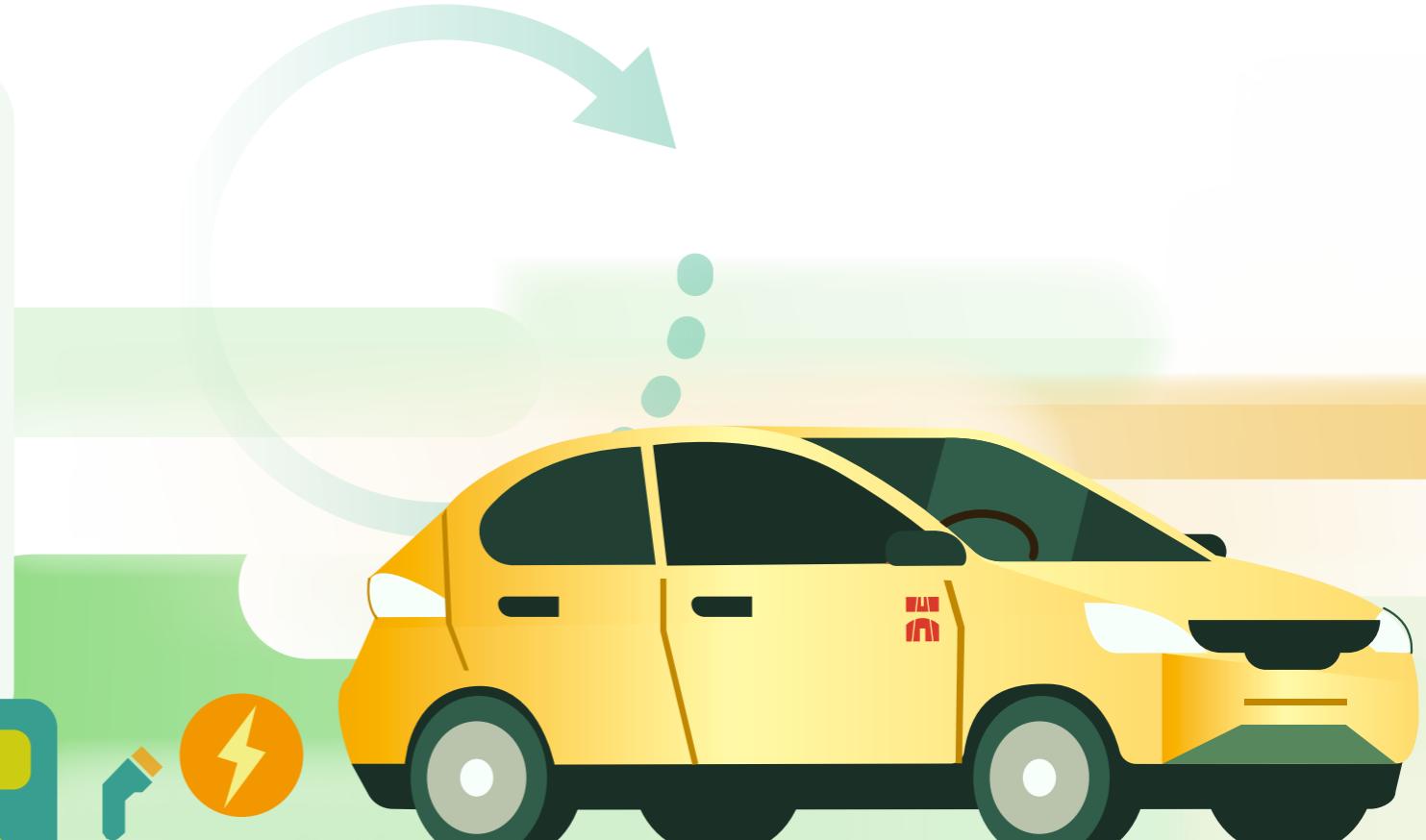
Contribution to Reducing Emission

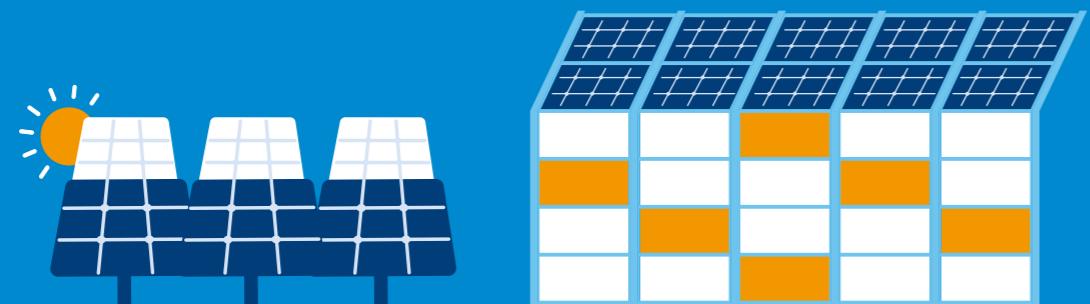


環保車輛 Environmentally Friendly Vehicles

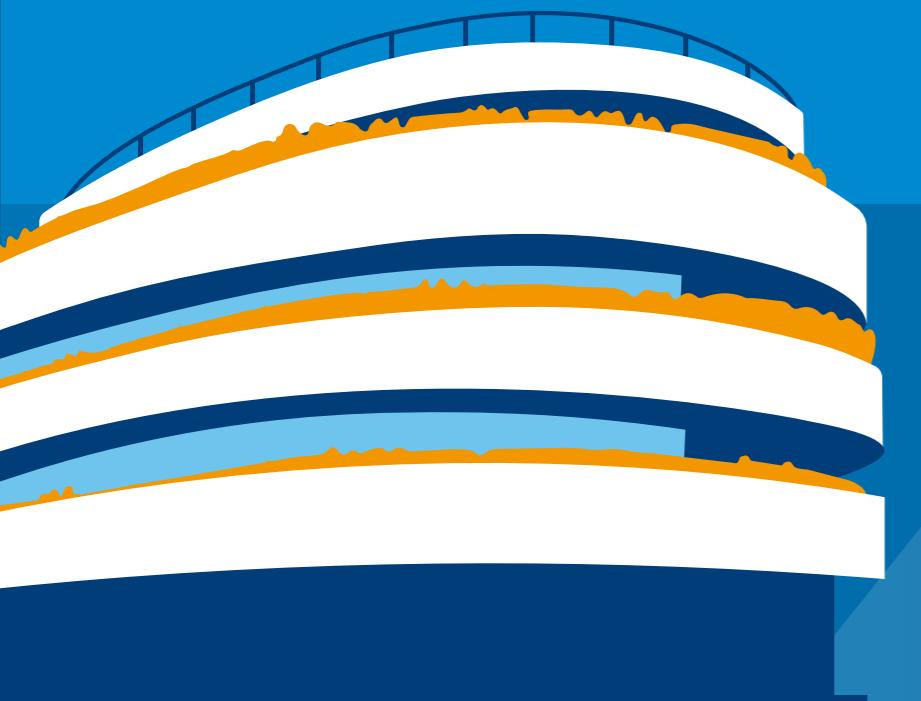
以電動車取代傳統車輛，有助改善路邊空氣質素和減少溫室氣體排放，從而提升公眾健康與福祉。我們早前獲批准更換一部房車為電動車，相關採購過程正在進行中。為響應政府推廣使用電動車的措施，我們會繼續探討在車隊的傳統車輛到期更換時，將其更換為電動車的可行性。

Replacing conventional vehicles with electric vehicles (EV) can help improve roadside air quality and reduce greenhouse gas emissions, which in turn enhances the health and well-being of the community. Approval was earlier given for the replacement of one saloon car with an EV, and the procurement process is in progress. To echo the government's initiative in promoting the use of EV, we will continue to explore the feasibility of replacing conventional vehicles in our fleet with EVs when they are due for replacement.





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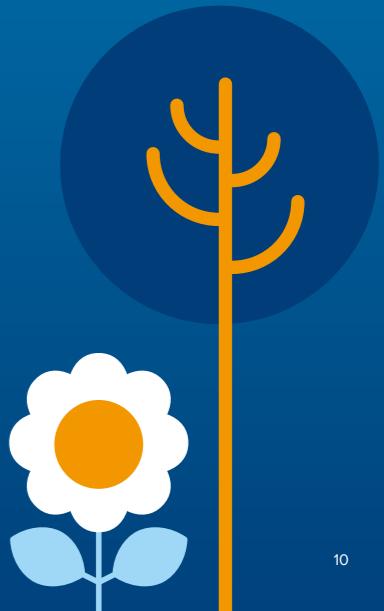
紅磡海底隧道收費廣場含石棉物料的簷篷拆卸工程
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加建隔音屏障工程下的應對氣候變化措施 Climate Change Initiatives under Retrofitting of Noise Barrier Projects



寶寧路的隔音屏障和隔音罩
Noise barriers and enclosures on Po Ning Road.

背景 Background

為減低現有道路對鄰近居民的噪音影響，我們已在交通噪音水平超過 70 分貝 (A) 的現有道路上，在切實可行的情況下實施直接的噪音緩解措施，包括加建隔音屏障和隔音罩，以及使用低噪音鋪路物料重鋪路面。

寶琳北路及寶寧路加建隔音屏障工程包括在西貢將軍澳村、寶林邨、厚德邨和景明苑附近建造總長約 1.4 公里的隔音屏障和隔音罩，以及鋪設低噪音鋪路物料。相關工程已於二零二五年年中大致完成。工程完成後，交通噪音水平會降低約 1 至 21 分貝 (A)，讓附近社區約 1,600 個住宅受惠。

此外，我們在工程中採用了光伏系統和 S690 高強度鋼材，這些新措施樹立了可持續基建發展的先例，有助累積經驗並推動其在未來被更廣泛應用，以應對氣候變化和提升環境可持續性。

To mitigate traffic noise impact on nearby residents, we have implemented direct noise reduction measures, where feasible, on existing roads with noise levels exceeding 70 dB(A). These measures include retrofitting noise barriers and enclosures, as well as resurfacing pavements with low-noise road surfacing materials.

The retrofitting projects along Po Lam Road North and Po Ning Road involved constructing approximately 1.4 km of noise barriers and enclosures, and laying of low-noise road surfacing materials near Tseung Kwan O Village, Po Lam Estate, Hau Tak Estate, and King Ming Court in Sai Kung. The works were substantially completed in mid-2025, benefiting around 1,600 dwellings with noise reductions of 1 to 21 dB(A).

Additionally, these projects introduced new initiatives such as photovoltaic (PV) systems and high-strength steel (Grade S690), setting a precedent for sustainable infrastructure development. These initiatives aim to combat climate change while enhancing environmental sustainability.

在隔音屏障和隔音罩上的光伏系統 PV Systems on Noise Barriers and Enclosures

作為我們對可持續發展承諾的一部分，我們在選定的隔音屏障和隔音罩上安裝光伏系統，以推廣可再生能源並支持政府的綠色能源目標。光伏板安裝在結構頂部上以提高光能吸收效率並將陽光轉化為電能。我們已在三個選定的隔音屏障和隔音罩上安裝光伏系統，以推廣城市基礎設施中可再生能源的實際應用，並提升公眾對可再生能源技術的認知。其所產生的潔淨電力將於日間為鄰近行人隧道供電，藉此降低對電網的依賴，助力香港實現減碳目標。

As part of our commitment to sustainable development, we have installed PV systems on selected noise barriers and enclosures to promote renewable energy and support the Government's Green Energy Target. These high-efficiency PV panels convert sunlight into electricity, with their rooftop positioning optimized for maximum light absorption. Currently implemented at three strategic locations, these systems serve dual purposes: they demonstrate practical renewable energy applications in urban infrastructure while raising public awareness about sustainable technologies. The generated clean electricity directly powers nearby pedestrian subways during daylight hours, reducing grid dependence and contributing to Hong Kong's decarbonization efforts.

在隔音罩安裝光伏系統
Installation of PV systems on noise enclosure



S690 高強度鋼材的先導使用 Pilot Use of Grade S690 High-Strength Steel

我們在一段懸臂式隔音屏障結構中試用 S690 高強度鋼材。這種先進鋼材具有顯著的可持續發展優勢，可減少材料用量，同時維持結構強度，從而降低從生產、運輸、安裝到啟用整個生命週期的碳排放。工程團隊成功在環境效益與結構要求之間取得平衡，確保隔音屏障符合所有安全標準，同時保持美觀，並與周邊環境和諧融合，展示了創新材料如何在確保性能及視覺融合的同時，減少基礎設施的碳足跡。

We have implemented the pilot use of S690 high-strength steel in a cantilevered noise barrier structure. This advanced material offers significant sustainability benefits, requiring less material while maintaining structural strength, resulting in reduced carbon emissions throughout the entire lifecycle from production and transportation to installation and commissioning. Our project team has successfully balanced environmental advantages with structural requirements, ensuring the barrier meets all safety standards while preserving aesthetic quality and blending harmoniously with its surroundings. This pilot demonstrates how innovative materials can reduce infrastructure's carbon footprint without compromising performance or visual integration.

加建隔音屏障工程的可持續效益 Sustainable Benefits of Noise Barrier Retrofitting Projects

加建隔音屏障工程為社區帶來全面的環境效益。工程能大幅降低附近住宅的交通噪音水平，在提升居民生活質素的同時，亦展示了可持續的基礎設施解決方案。光伏系統產生的可再生能源，直接支持香港的綠色能源目標，並推進我們的碳中和進程。此外，創新採用 S690 高強度鋼材有效降低了從材料生產到施工及後續階段的整個工程生命週期的碳排放。工程展示了我們通過實踐具多重效益的解決方案以應對氣候變化的承諾，同時亦成功在環保和基建發展之間取得平衡，為社區帶來立竿見影的效益之餘，亦創造長遠的可持續發展成果。

These noise barrier retrofitting projects deliver comprehensive environmental benefits to local communities. By significantly reducing traffic noise levels for nearby residential areas, they improve quality of life while demonstrating sustainable infrastructure solutions. The PV systems generate clean and renewable energy that directly supports Hong Kong's Green Energy Target and advances our carbon neutrality goals. Furthermore, the innovative use of S690 high-strength steel has reduced embodied carbon throughout the project lifecycle - from material production to construction and beyond. Together, these initiatives showcase our commitment to addressing climate change through practical and multi-benefit solutions. The projects successfully balance environmental responsibility with infrastructure excellence, delivering both immediate community benefits and long-term sustainability gains.



在懸臂式隔音屏障應用 S690 高強度鋼材
Application of S690 high-strength steel on cantilevered noise barrier

中九龍繞道（油麻地段隧道）的綠色建築設計

Green Building Design of Central Kowloon Bypass (Yau Ma Tei Section Tunnel)



引言 Introduction

中九龍繞道（油麻地段）全長 4.7 公里，是連接東、西九龍的幹道，其中包括一段長 3.9 公里，名為中九龍繞道（油麻地段隧道）的新隧道。中九龍繞道（油麻地段）提供了一條三線雙程分隔車道的替代道路，讓車輛可繞過中九龍區擠塞的地面道路網。通車後，在繁忙時間來往油麻地與九龍灣之間的車程預計將由 30 分鐘縮短至大約 5 分鐘。

The Central Kowloon Bypass (Yau Ma Tei Section) (CKB (YMTS)) is a 4.7 km-long trunk road connecting east and west Kowloon. Comprising a 3.9 km-long new tunnel named the Central Kowloon Bypass (Yau Ma Tei Section Tunnel) (CKB (YMTST)), it offers an alternative dual three-lane carriageway to bypass the congested at-grade road network in the central Kowloon area. Upon commissioning, the journey time between Yau Ma Tei and Kowloon Bay during peak hours is expected to reduce from 30 minutes to about 5 minutes.

中九龍繞道（油麻地段）工程不僅包括道路，還涵蓋四座隧道大樓。其中，啟德行政大樓作為整條中九龍繞道（油麻地段隧道）的中央樞紐，其設計貫徹全生命週期環境影響最小化的理念。該行政大樓不僅負責隧道營運管理，更作為香港綠色建築標準的典範。

The project encompasses not only the roadway but also four tunnel buildings. In particular, the Kai Tak Administration Building serves as the central hub of the entire CKB (YMTST). Designed to minimize environmental impact throughout its lifecycle, the CKB (YMTST) features an Administration Building that not only manages tunnel operations but also serves as an exemplary model of Hong Kong's green building standards.



啟德行政大樓
Kai Tak Administration Building

可持續的設計與建築 Sustainable Design and Construction

啟德行政大樓通過採用可再生能源（例如光伏發電系統和太陽能熱水系統）、天然照明和灌溉綠蔭的雨水灌溉系統，顯著降低了電力消耗和用水量，並實現了可量化的減碳，體現了可持續創新。

在能源表現之外，大樓的高性能鋁質面板亦結合了環保功能與美學特徵。其質感和顏色經過精心挑選，以符合日光反射率要求並緩解城市熱島效應，而穿孔的遮陽設計則提升了用戶的舒適度，同時減少了製冷需求。每個細節都反映了我們為開創具環保意識的城市發展而作出的努力。

在建造過程中，我們採用了預製技術，並在可行情況下盡量使用可持續的森林產品、回收物料和當地物料、綠色產品以及不含消耗臭氧層物質的物料。為進一步減少碳足跡，工程廣泛採用場外預製技術和含煤灰的混凝土進行施工。

The Kai Tak Administration Building embodies sustainable innovation by adopting renewable energy solutions such as PV systems and solar hot water systems, along with natural lighting and a rainwater irrigation system for greenery. It significantly reduces both electricity and water consumption while striving for measurable carbon reduction.

Beyond energy performance, the building's high-performance aluminium cladding seamlessly combines aesthetic features with environmental functions. Its texture and colour are carefully chosen to meet daylight reflectance requirements and mitigate urban heat island effects, while the perforated sun-shading design enhances occupant comfort and reduces cooling demand. Every detail reflects the project's commitment to pioneering eco-conscious urban development.

During construction, prefabrication technology was adopted alongside the use of sustainable forest products, recycled and regional materials, green products, and ozone-depleting-substance-free materials as far as practicable. To further reduce the carbon footprint, the project widely adopted off-site prefabrication and pulverised fuel ash (PFA) concrete for construction.

實時監察隧道內的空氣質素

Real-time Monitoring of Air Quality within Tunnel

通過交通管制及監察系統和中央控制及監察系統，啟德行政大樓的控制室整合了實時交通數據，讓我們可持續監察交通狀況，並迅速實施營運措施，以確保道路安全。中央控制及監察系統亦通過持續測量和記錄車輛排放物來監察空氣質素。系統配備人機界面，可遙距操作隧道通風系統組件，包括氣流感應器、隧道通風風扇和空氣淨化系統。這種一體化的控制確保了運作效率，並確保空氣質素符合規定。

The Kai Tak Administration Building's control room integrates real-time traffic data through the Traffic Control and Surveillance System and Central Control and Monitoring System (CCMS), enabling continuous monitoring of traffic conditions and rapid implementation of operational actions for road safety. The CCMS also monitors air quality through continuous measurement and logging of vehicular emissions. Featuring a human-machine interface, it allows remote operation of the tunnel ventilation system components, including airflow sensors, tunnel ventilation fans and the air purification system. This integrated control ensures both operational efficiency and compliance with air quality requirements.

綠建環評認證框架

BEAM Plus Certification Framework

綠建環評是香港最被廣泛使用的綠色建築評估工具，由香港綠色建築議會制定，以評估和推廣可持續的建築作業模式。啟德行政大樓符合「新建建築」評估下的七個關鍵範疇，即：(1) 綜合設計與建造管理、(2) 可持續地塊發展、(3) 用材及廢物管理、(4) 能源使用、(5) 用水、(6) 健康與安舒和 (7) 創新。

BEAM Plus is Hong Kong's premier green building assessment tool developed by the Hong Kong Green Building Council to evaluate and promote sustainable building practices. The Kai Tak Administration Building satisfies all seven key areas under the "New Buildings" assessment, namely: (1) Integrated Design and Construction Management, (2) Sustainable Sites, (3) Materials and Waste, (4) Energy Use, (5) Water Use, (6) Health and Wellbeing and (7) Innovations and Additions.

1 綜合設計與建造管理

Integrated Design and Construction Management

工程運用生命周期成本法，篩選出在 50 年運營期內最具可持續性的照明及暖通空調系統。該等系統具備實時性能監察和持續數據記錄功能，既能即時調整運行效率，亦可透過評估歷史趨勢分析長期表現。

The project uses life cycle costing to select the most sustainable lighting and Heating, Ventilation, and Air Conditioning (HVAC) systems over a 50-year operation period. These systems incorporate real-time performance monitoring with continuous data logging, enabling both efficiency adjustments in real time and long-term performance analysis through historical trend evaluation.

2 可持續地塊發展

Sustainable Site

作為緩解城市熱島效應策略的一部分，超過 30% 的用地面積被劃為綠化空間。在設計初期，建築佈局已進行周詳規劃，確保啟德行政大樓與周邊建築物之間保持適當的間距，以改善通風效果，並減輕行人層面的熱島效應。上述策略結合噪音控制措施（包括避震裝置和低噪音的暖通空調機組），提升了大樓可持續性的表現。

As part of an urban heat island mitigation strategy, over 30% of the site area is designated as a green space. Building deposition was carefully planned during the early design stage to ensure optimal separation distances between the Kai Tak Administration Building and adjacent structures, improving the air ventilation and mitigating the heat island effects at pedestrian level. Combined with noise control measures including vibration isolation and low-decibel HVAC units, these strategies enhance the sustainability performance of the building.

3 用材及廢物管理 Materials and Waste

工程團隊以選用環保材料作為核心設計原則，積極採用再生混凝土、認證木材及低碳產品，以最大限度降低對環境的影響。通過在混凝土拌合料中以煤灰取代 25% 的水泥，我們顯著減少了水泥用量及其碳足跡。預製鋁質面板系統具備 50% 穿孔率，在提升安裝效率的同時，進一步減少了材料用量。

The project embraces eco-friendly material selection as a core design principle, utilizing recycled-content concrete, certified timber, and low-carbon products to minimize environmental impact. By replacing 25% of cement with PFA in concrete mixes, we significantly reduce both cement consumption and its carbon footprint. The prefabricated aluminum cladding system, featuring 50% perforation, further decreases material usage while enhancing installation efficiency.

4 能源使用 Energy Use

大樓整合了可再生能源系統，在大樓頂部安裝 51 桂光伏發電板和太陽能熱水系統，每年合共可產生超過 20 兆瓦小時的能源，相當於五個香港家庭一年的用電量。通過將因應日光自動控制照明的功能結合發光二極管 (LED) 照明，能源效率得以進一步提升。中央數碼能源管理系統可實時監察表現和因應變化作出適應性調整，在確保高效運作的同時，維持以合理方式善用能源。

The building integrates renewable energy systems, including 51 PV panels and a solar thermal water heating system on its rooftop. These systems collectively generate over 20 MWh of energy annually - equivalent to the electricity consumption of five Hong Kong households. Energy efficiency is enhanced through LED lighting with automated daylight-responsive controls, while a centralized digital energy management system enables real-time monitoring and adaptive optimization, ensuring efficient operation with optimal energy use.



5 用水 Water Use

工程採用雨水回收系統，收集屋頂徑流並儲存於專用水缸內，為灌溉提供水源。此舉可減少 96% 的灌溉用水量，相當於三個香港家庭一年的用水量。另外，低流量供水裝置減少了 30% 的飲用水需求，智能漏損檢測傳感器則提供實時系統監測，從而防止水資源浪費，確保可持續的用水管理。

The project implements a rainwater recycling system that collects roof runoff for storage in a dedicated tank, supplying water for irrigation. This could reduce water consumption by 96%, which is equivalent to the annual water use of three Hong Kong households. Additionally, low-flow plumbing fixtures decrease potable water demand by 30%, while smart leak detection sensors provide real-time system monitoring to prevent water loss, ensuring sustainable water management.



太陽能熱水系統
Solar thermal water heating system



啟德行政大樓頂部的園景
Landscape rooftop at Administration Building

6 健康與安舒 Health and Wellbeing

為保障隧道營運人員的健康舒適，啟德行政大樓的室內空氣質素已通過認證，達到卓越級別。智能通風系統通過實時監測二氧化碳濃度並動態調節風量，將通風效果維持在高於標準要求 30% 的水平。此外，暖通空調系統配備了消聲器，為員工提供更舒適的工作環境。

For the wellbeing of the tunnel operation crew, the Indoor Air Quality (IAQ) of Administration Building is certified to achieve an excellent class rating. The smart ventilation system utilizes real-time CO₂ sensors to monitor and dynamically adjust airflow rates, maintaining ventilation 30% above the required standards. Furthermore, the HVAC system incorporates acoustic silencers to provide a more pleasant working environment.

通過最佳的日光滲透度、策略性的綠化景觀和有機形狀的家具，親自然的設計提升了人員的健康舒適度。園景屋頂平台作為休憩恢復空間和視覺景觀，讓大約 130 名隧道營運人員得以享受直接眺望鄰近啟德體育園的景觀。

Biophilic design enhances wellbeing by the optimized daylight penetration, strategic greenery views and organic-shaped furniture. Approximately 130 tunnel operations staff benefit from direct visual connections to the adjacent Kai Tak Sports Park Main Stadium via the landscaped rooftop terrace, which serves as both a restorative break space and a visual amenity.

7 創新 Innovations and Additions

通過採用建築信息模擬，我們完善了啟德行政大樓的設計和建造，以減少設計衝突、錯誤和浪費。數碼化工地管理減少了文書工作，從而進一步減少了 900 公斤二氧化碳排放。我們亦將獲獎的智能電力負載管理系統整合至工程的電動汽車充電站以動態分配電力，從而最有效使用能源和支持可持續運輸。

啟德行政大樓在二零二三年八月進行的「綠建環評新建建築 2.0 版」的暫定評估中，取得鉑金級的評級，是對可持續建築設計和營運的最高級別的肯定。

By adopting Building Information Modeling (BIM), the design and construction of the Kai Tak Administration Building were optimized to reduce clashes, errors and waste. The digital site management further reduces 900 kg of CO₂ emissions by reducing paperwork. The project also integrates an award-winning smart load management system for its EV charging stations, dynamically distributing power to optimize energy use and support sustainable transport.

In the provisional assessment for 'BEAM Plus New Buildings Version 2.0' conducted in August 2023, the Kai Tak Administration Building attains the highest level of recognition for sustainable building design and operation at Platinum Rating.



總結 Conclusion

中九龍繞道（油麻地段隧道）工程的成功，展示了大樓建造如何能在工程卓越與環境管理之間取得平衡。工程項目積極推動節能建築、系統及設備的應用，在減少對外部環境污染的同時，亦提升室內環境品質。透過前瞻規劃與創新設計，基建項目既能達致工程卓越，亦能兼顧環境與社會利益，從而平衡發展與保育的需求，助力香港邁向更可持續的未來。

The CKB (YMTST) project successfully demonstrates how building construction can harmonize engineering excellence with environmental stewardship. It fosters energy-efficient buildings, systems and equipment to minimize pollution to the external environment and improve the quality of indoor environment at the same time. With forward planning and innovative design, infrastructure projects can achieve engineering excellence while safeguarding environmental and social interests. This balances the needs for development and conservation, allowing Hong Kong to progress towards a more sustainable future.

洪水橋站的可持續設計及施工方法

Sustainable Design and Construction

Method of Hung Shui Kiu Station

引言

Introduction

洪水橋站是《鐵路發展策略 2014》中建議推展的七個鐵路方案之一。新車站位於現有屯馬線的天水圍站和兆康站之間，將服務未來的洪水橋 / 厦村新發展區，配合《北部都會區發展策略》下可持續的人口增長和就業機會。此外，車站位於港深西部鐵路（洪水橋至前海）的起點附近，因此獲定位為關鍵的交匯樞紐，以提升香港和深圳之間的跨境連接，讓該區能夠把握大灣區發展帶來的機遇。洪水橋站的主要建造工程於二零二四年底展開，預計於二零三零年完成。

Hung Shui Kiu (HSK) Station is one of the seven railway schemes proposed to be taken forward in the Railway Development Strategy 2014. Located on the existing Tuen Ma Line between Tin Shui Wai Station and Siu Hong Station, this new station will serve the future Hung Shui Kiu/Ha Tsuen New Development Area (NDA), supporting sustainable population growth and employment opportunities under the Northern Metropolis Development Strategy. Additionally, the station is situated near the starting point of the Hong Kong-Shenzhen Western Rail Link (Hung Shui Kiu-Qianhai), positioning it as a key interchange hub to enhance cross-boundary connectivity between Hong Kong and Shenzhen. This will enable the region to capitalize on opportunities arising from the Greater Bay Area development. The main construction works for HSK Station began in late 2024, with completion targeted for 2030.



洪水橋站的概念圖
Photomontage of Hung Shui Kiu Station

洪水橋站的可持續設計

Sustainable Design of Hung Shui Kiu Station

新的洪水橋站在被動式環境策略與能源利用方面均融入創新、可持續性和高效能的理念。車站採用可持續原則設計，在降低能源消耗的同時，實現最佳的運作效率。車站整合的設施包括自然通風、太陽隔熱和利用日照，以提升環境表現。

The new HSK Station embeds innovation, sustainability and high performance in both passive environmental strategies and energy harnessing capability. Designed with sustainable principles, the station reduces energy consumption while optimizing operational efficiency. Its integrated features include natural ventilation, solar control, and daylight harvesting to enhance environmental performance.

1

自然通風

Natural Ventilation

車站在前廳區域（包括大堂和月台）採用自然通風，無需使用空調。為達致最佳的氣流和最舒適的溫度，車站的設計整合多項優化設施，包括自動月台閘門、網狀外牆和具能源效益的大風量低轉速風扇，而這些設施已在多個國家的鐵路車站採用，並已證實為有效的方案。大風量低轉速風扇具備先進的翼型風扇葉片設計，能夠在增加最多氣流的同時，將能源消耗降至最低。配合網狀外牆系統，這些設計共同大幅提升了前廳區域的自然通風性能與乘客舒適度。

The station employs natural ventilation for Front-of-House (FoH) areas including concourses and platforms, eliminating the need for air conditioning. The design incorporates multiple features to optimize airflow and thermal comfort: Automatic Platform Gates (APG), mesh façades, and energy-efficient High-Volume Low-Speed (HVLS) fans - a proven solution used in international railway stations. These HVLS fans, featuring advanced aerofoil blade designs, maximize airflow while minimizing power consumption. Combined with the mesh façade system, they significantly enhance natural ventilation performance and passenger comfort throughout the FoH areas.



位於大堂範圍的大風量低轉速風扇
High-Volume Low-Speed fans in concourse area



設有遮雨簷篷系統的網狀外牆系統
Mesh façade system with rain canopy system

2 太陽隔熱和日照 Solar Control and Daylight

基於車站東西面坐向的佈局，乘客在早上和下午時段將受到低角度太陽直射和眩光影響。為解決此問題，車站特別設計了高效能的網狀遮板和遮雨簷篷系統，既能實現最有效遮擋陽光的同時，仍能允許自然光進入。此外，車站通過安裝在後勤範圍頂部的光伏發電板，引入了可持續的能源生產方式。這些光伏發電板向南傾斜，以最大程度暴露於日照，有助抵消車站消耗的能源和減少碳排放。

Given the station's east-west orientation, passengers will experience direct low-angle solar radiation and glare during both morning and afternoon periods. To address this, a high-performance mesh screen and rain canopy system has been specifically designed to provide optimal solar shading while allowing diffused natural daylight. Furthermore, the station incorporates sustainable energy generation through PV panels installed on Back-of-House (BoH) roofs. These south-tilted panels maximize solar exposure, helping offset station energy consumption and reduce carbon emissions.

3 綠化 Greenery

為減少車站周邊積聚的熱力和緩解城市熱島效應，車站設計融合了多樣的綠化方案，包括站外的園景區、網狀外牆上的垂直綠化和補償植樹計劃。垂直綠化系統不但豐富了車站的視覺效果，而且提升了空氣質素和美觀價值。通過整合這些綠化設施，車站成為周邊城市景觀中更具可持續與適應力的一部分，同時為乘客和附近社區締造更健康的環境。

To reduce heat accumulation around the station and mitigate the urban heat island effect, the design incorporates diverse greenery solutions including external landscaping areas, vertical greening on mesh façades, and compensatory tree plantings. The vertical greening system not only enriches the station's visual appearance but also enhances air quality and aesthetic value. By integrating these green features, the station becomes a more sustainable and resilient component of the surrounding urban landscape while fostering a healthier environment for both commuters and neighboring communities.



位於後勤範圍頂部的光伏發電板
PV panels on the top of Back-of-House

4

洪水橋站的可持續建造方法

Sustainable Construction Method of Hung Shui Kiu Station

為盡量減少施工期間對現有鐵路運作造成的影響，工程團隊積極研發創新施工方法，在現有高架橋的兩側組裝已預先安裝自動月台閘門的超大型組件。此方法運用多項先進技術，包括裝配式設計、組裝合成建築法和機電裝備合成法。通過採用這些場外生產和現場組裝的施工方法，工程成功節省大量能源，並顯著減少建築廢料。

To minimize impact on existing railway operations during construction, the project team has proactively developed innovative methods involving the fabrication of mega size modules with APG preinstalled on both sides of the existing viaduct. This approach utilizes advanced technologies including Design for Manufacture and Assembly (DfMA), Modular Integrated Construction (MiC), and Multi-trade Integrated Mechanical, Electrical and Plumbing (MiMEP). By implementing these off-site manufacturing and on-site assembly practices, the project achieves significant energy savings and construction waste reduction.



採用裝配式設計、組裝合成建築法和機電裝備合成法的可持續建造方法
Sustainable construction method with adoption of DfMA, MiC and MiMEP

整合了車站結構、自動月台閘門系統和月台層板的超大型組件在製成後將滑移至最終位置。隨後，我們會重新配置現有安裝在側面的高架電纜系統，並隨後進行機電測試和啟用。此方法在加快工程進度的同時，也大幅減少了對環境的影響，特別是降低了對附近居民的空氣與噪音污染。這項成果充分體現了我們在推動可持續發展、提升建造質量與安全標準方面的堅定承諾。

The completed mega modules incorporating station structures, APG systems, and platform slabs will be skidded into final position, followed by relocation of the existing side mounted Overhead Line system and subsequent E&M testing and commissioning. This methodology not only accelerates construction timelines but also substantially reduces environmental impacts, particularly air and noise pollution for nearby residents. The solution demonstrates a commitment to sustainable development while enhancing construction quality and safety standards.

以組裝合成建築法建造連接香港眼科醫院的有蓋行人道

Adoption of Modular Integrated Construction for Walkway Cover Project near Hong Kong Eye Hospital



位於亞皆老街鄰近香港眼科醫院的有蓋行人道
Walkway cover on Argyle Street near Hong Kong Eye Hospital



有蓋行人道計劃 Walkway Covers in Hong Kong

香港的有蓋行人道網絡作為基礎建設的一環，每日為行人遮光擋雨，提升步行的舒適度。

如以傳統方式建造上蓋結構，會涉及大量現場工序，包括安裝模板、澆築混凝土、焊接和切割工作。這些施工通常會對公眾造成較長時間的滋擾，產生大量建造廢物，以及對路旁環境造成影響。

我們採用了組裝合成建築法建造連接香港眼科醫院的 60 米長有蓋行人道。有別於傳統建造方式，大部分有蓋行人道的組件（包括鋼架結構、上蓋、照明和排水系統）移師到環境受控的預製工場進行生產和組裝，然後運送至工地現場快速安裝。這種創新的建造方法為有蓋行人道計劃帶來顯著的環境效益。

Hong Kong's network of covers on public footpath serves as vital infrastructure, providing daily shelter for pedestrians from intense sunlight and heavy rain.

The conventional construction methods for these cover structures involve extensive on-site activities such as formwork installation, concreting, welding, and cutting operations. These activities typically cause prolonged disruption to public, generate substantial construction waste, and create environmental impacts along roadside.

The recently completed 60 m walkway cover on Argyle Street outside Hong Kong Eye Hospital adopted Modular Integrated Construction (MiC) method. This involved off-site manufacturing of volumetric walkway cover modules including metal frames, cladding, lighting, and drainage systems, in a controlled factory environment, followed by rapid on-site assembly. The MiC approach delivered significant environmental benefits for the Hong Kong Eye Hospital walkway cover project.

採用組裝合成建築法建造有蓋行人道的環境效益 Environmental Benefits of MiC for Walkway Covers

1 減少建造廢料

Reduction in Construction and Demolition (C&D) Waste

預製工場可精確控制製造過程，提高物料的利用效率，減少浪費物料的情況。位於廣東江門的預製工場有統一標準的程序和嚴謹的品質控制，亦可大幅減少錯誤、避免損壞和重新施工。組裝合成建築法因而減少建造廢料的數量。

Factory-controlled manufacturing minimized material over-ordering and offcuts through precise fabrication. Standardized processes and quality control in the fabrication yard in Jiangmen, Guangdong also significantly reduced errors, damage and rework. The MiC approach resulted in minimal C&D waste.



「7」字形預製組件
"7"-shaped pre-fabricated modules

2 減少空氣污染

Reduction in Air Pollution

在工地現場進行的上蓋結構建造工序僅限於在夜間組裝六個介乎 1.5 至 12 米長的「7」字形預製組件。通過將大部分製造過程轉移至設有先進過濾系統的預製工場，我們大幅減少了直接排放至鬧市的塵埃、煙霧和揮發性有機化合物。

On-site superstructure construction was limited to lifting and connection of six pre-fabricated '7'-shaped modules ranging from 1.5 to 12 m in length during nighttime. By relocating most fabrication to a regulated facility with advanced filtration systems, dust, fumes, and volatile organic compound emissions released directly into the busy pedestrian corridor in the urban area were drastically reduced.



在工地現場安裝預製組件
Installation of prefabricated modules on-site

3 減少噪音污染

Reduction in Noise Pollution

切割、研磨、錘打金屬和操作機械會產生大量噪音。工程鄰近易受噪音影響的住宅區，減少噪音滋擾變得尤其重要。由於所有高音量的製造工序在場外的密封式工場內進行，在工地現場進行的組裝工序只涉及較寧靜的起重機吊運操作，而整個安裝組件的工序在四晚內完成，大大減少其產生的噪音。

Cutting, grinding, hammering, and machinery operations generate significant noise. Given the project's proximity to noise-sensitive receptors, minimizing prolonged construction noise was especially important. All noisy fabrication activities were conducted off-site within enclosed warehouse facilities. On-site work involved only quieter crane operations, with the entire modular installation completed in just four nights.

4 減少隱含碳的碳足跡

Lower Embodied Carbon Footprint

此外，組裝合成建築法多方面為減少隱含碳作出貢獻，包括通過精確的設計和製造過程減少物料浪費，充分利用物料。組裝合成建築法亦可減少工地現場的能源消耗，同時減少運送物料的次數，從而將運輸造成的碳排放減至最低。組裝合成建築法能減少公共基礎建設工程的碳足跡，直接幫助香港實現二零五零年前達至碳中和的目標。

Furthermore, MiC contributed to lower embodied carbon through multiple pathways: reduced material waste through precise manufacturing, optimized material usage via precision design and fabrication, decreased on-site energy consumption, and minimized transportation emissions resulting from fewer material deliveries. This directly supported Hong Kong's commitment to achieving carbon neutrality before 2050 by lowering the carbon footprint of public infrastructure projects.

總結

Conclusion

在連接香港眼科醫院的有蓋行人道項目中採用組裝合成建築法，達致多方面的環境效益。透過將大部分現場施工工序轉移至工廠預製，組裝合成建築法大幅減少建造廢料、空氣污染、噪音污染和隱含碳的排放。

The adoption of MiC for building the walkway cover near Hong Kong Eye Hospital has achieved multifaceted environmental benefits. By transferring many construction activities to the factory yard, MiC dramatically reduced on-site waste, air pollution, noise pollution, and embodied carbon emissions.

紅磡海底隧道收費廣場含石棉物料的簷篷拆卸工程

Demolition of Asbestos-Containing Canopy at Cross-Harbour Tunnel Toll Plaza

引言

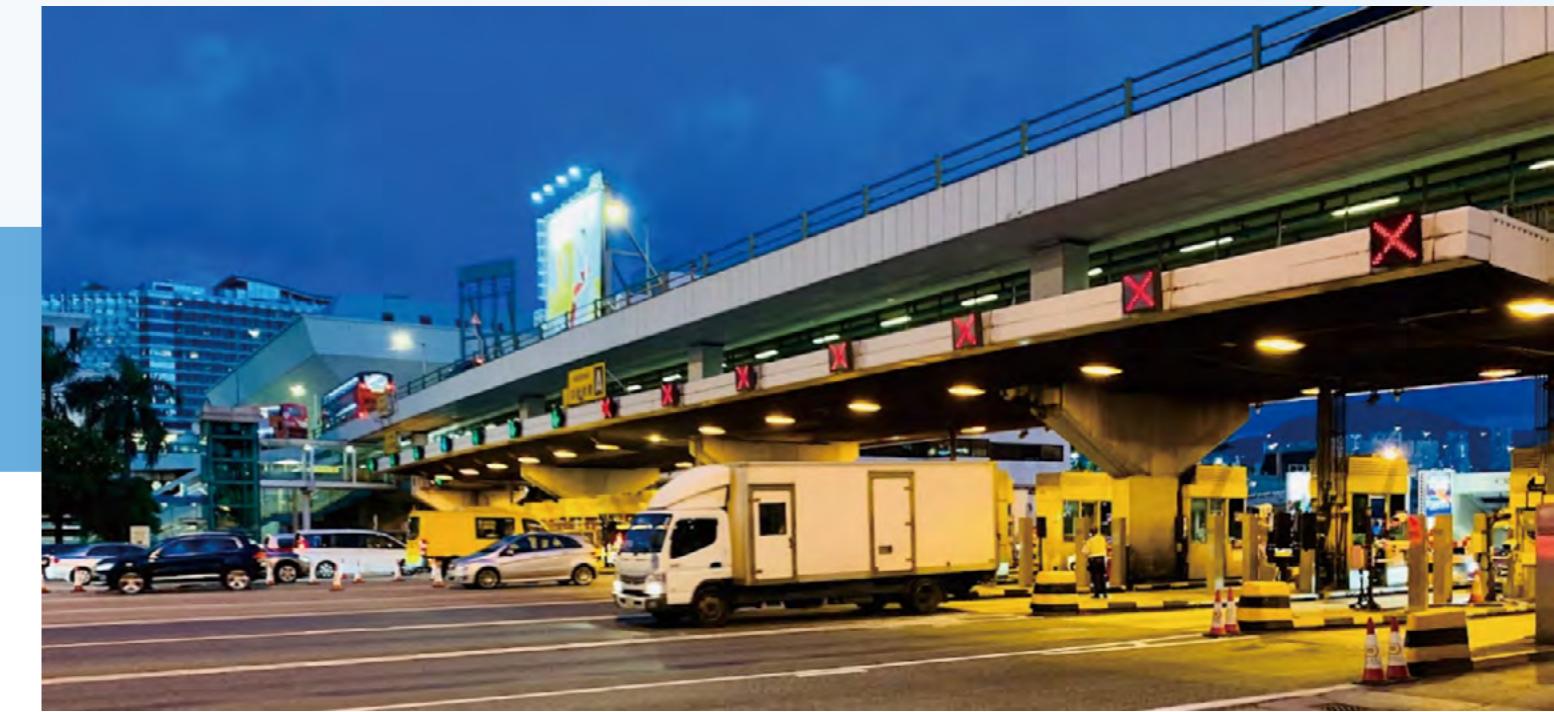
Introduction

二零二二年施政報告中提及，在政府收費隧道推行不停車繳費系統的措施。我們需要拆卸和修改紅磡海底隧道收費廣場的道路設施（包括收費亭、收費島和地面構築物等），當中包括移除含石棉物料的收費亭簷篷。

這個含石棉物料的簷篷拆卸工程位於香港其中一條最繁忙的交通走廊，因此，拆卸工程極為複雜而且高風險。工程進行期間嚴格遵循環境保護和公眾安全等相關規例要求。在周詳的環境管理規劃和嚴謹的措施執行下，不僅成功將工程對交通造成的影響減至最少，也保障所有持份者的健康和安全。

In line with the Policy Address 2022 initiative, implementation of free-flow tolling system at government-tolled tunnels was rolled out. Demolition and modification of highway facilities, including toll booths, toll islands, and above-ground structures, could be carried out at the Cross-Harbour Tunnel (CHT) toll plaza. This included the removal of the toll canopy, which contained asbestos-containing materials (ACMs).

The demolition of the ACMs contained canopy, located in one of Hong Kong's busiest traffic corridors, posed significant complexity and high risks. The project was executed with strict adherence to environmental protection, public safety, and regulatory compliance. Through meticulous environmental management planning and disciplined execution, the project minimized traffic disruptions while safeguarding the health and safety of all stakeholders.



紅磡海底隧道收費廣場
Cross-Harbour Tunnel Toll Plaza



含石棉物料的簷篷位置
Location of the ACMs contained canopy

環境和公眾衛生風險 Environmental and Public Health Risks

此次拆卸的簷篷建於一九七三年，橫跨 14 條繳費車道並與位於暢運道下方的行人天橋連接。此簷篷被確認含有石棉物料，除了較常見的溫石棉以外，更包含有高風險的石棉物料—透閃石棉。透閃石棉屬於鬆脆易碎的纖維，對環境和公眾衛生構成重大風險。吸入這些石棉纖維已證實對健康造成嚴重影響，包括引發石棉沉着病和間皮瘤等疾病。

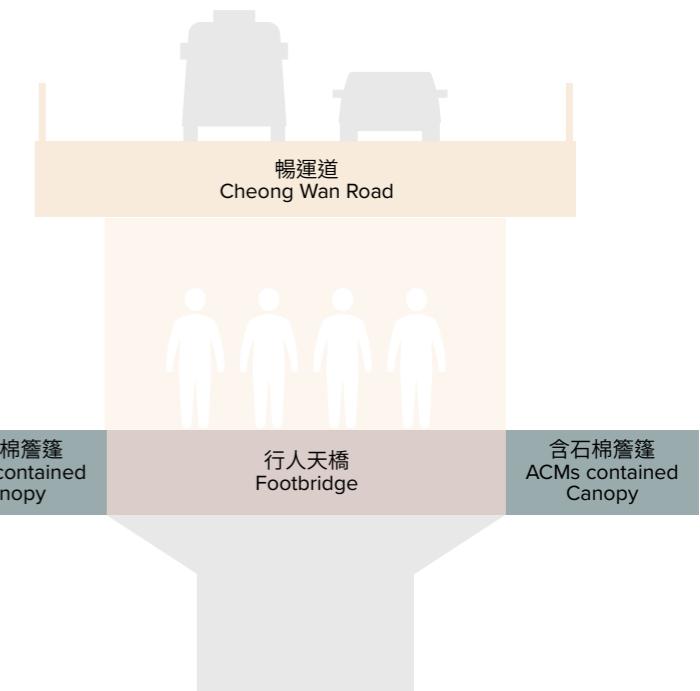
有鑑於石棉物料的毒性，以及收費亭簷篷位於極度繁忙的交通樞紐，我們採用一套穩健、多層次的環境管理方案，方案核心包括嚴密的空氣質素監控、採用密閉間施工方法和安全的廢物處理。

Constructed in 1973, the canopy which spanned across 14 toll lanes and connected to a pedestrian footbridge beneath Cheong Wan Road, was confirmed to contain asbestos materials, including Chrysotile, a commonly encountered type, and Tremolite, a highly hazardous forms of asbestos. The presence of such friable material poses significant environmental and public health risks. Inhalation of these fibres is known to cause severe impact on health, including asbestosis and mesothelioma.

Given the material's toxicity and the canopy's location above a high-traffic area, a robust, multi-layered environmental management approach was adopted. This strategy prioritized strict air quality control, containment measures, and safe waste handling.



紅磡海底隧道收費廣場含石棉物料的簷篷（拆卸前）
The ACMs contained canopy at CHT Toll Plaza before demolition



紅磡海底隧道收費廣場橫斷面
Cross Section of the CHT Toll Plaza

主要的環境管理措施 Key Environmental Management Measures

1 全面的石棉調查和空氣監測 Comprehensive Asbestos Investigation and Air Monitoring

深入的石棉調查（包括實地勘查、批量取樣和實驗室分析）經由環境保護署核准的註冊石棉顧問進行，以評估受石棉影響的人口特徵和釋出石棉纖維的潛在風險，從而幫助識別合適的石棉消滅方案。

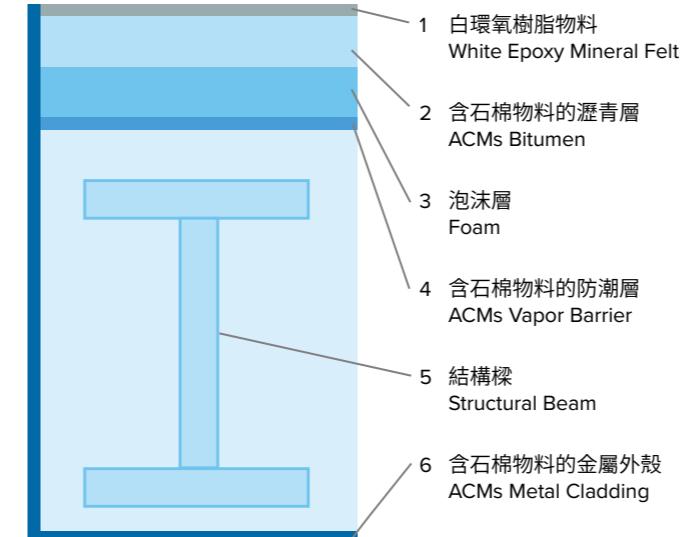
An in-depth asbestos investigation, including asbestos survey, bulk sampling, and laboratory analysis, was carried out by a registered asbestos consultant approved by the Environmental Protection Department (EPD) to assess the demographic of the exposed population and the potential for release of asbestos fibres. Such assessments help identify appropriate abatement methods.



從簷篷抽取的大型樣本
Bulk samples taken from the canopy



簷篷物料切面示意圖
Illustration of the synthesis of the canopy



根據環境保護署核准的石棉消滅計劃，我們嚴格實施完善的空氣監測系統，策略性地設置實時空氣質素監測站，配置於施工人員身上、施工範圍內外，以及周邊未受污染的公眾出入通道處（包括隧道收費廣場和暢運道下方行人天橋）。透過持續監測石棉纖維濃度，確保工程期間的空氣質素符合環境保護署的容許限值。整個工程期間，我們持續收集背景空氣樣本和拆卸期間的空氣樣本，以確保施工環境對工人和市民均屬安全。

A robust air monitoring system, as specified in the EPD's approved Asbestos Abatement Plan, was implemented. Real-time air quality monitoring stations were strategically positioned on workers, within work areas and at nearby uncontaminated public access points including the toll plaza and footbridge beneath Cheong Wan Road. Asbestos fibre concentrations were measured to ensure compliance with EPD permissible limits. Background and clearance samples were collected to verify environmental safety for both workers and the public throughout the project.

2

全密封式負氣壓作業空間

Full Containment and Negative Pressure Enclosure

由於簷篷鄰近行人流量高、位於暢運道下方的行人天橋和含高風險的石棉物料，我們採用移除石棉的最高防護級別—全密封式負氣壓作業空間移除含有石棉的物料。該系統整合了強化板材、鋼製棚架和密封技術，以保障公眾健康。每個全密封式作業空間建造完成後，我們均進行煙霧測試，以驗證作業空間的密封性。

整個全密封式作業空間的結構配備 HEPA 過濾器的負氣壓氣流機組，以防止石棉纖維泄漏。拆卸工程受嚴格管控，透過精密的通風量計算，確保施工區內維持負氣壓，從而保障附近的公眾地方的空氣質量。

Given the canopy's close proximity to the high pedestrian flow footbridge beneath Cheong Wan Road and the presence of highly hazardous asbestos, a full negative pressure enclosure (the highest protection level for asbestos removal) was implemented for ACMs removal. The system incorporated reinforced sheeting, steel scaffolding, and airtight sealing to safeguard public's health. After each containment construction phase, smoke tests were conducted to verify the enclosure's airtightness.

The entire containment structure was equipped with negative pressure airflow units featuring High-Efficiency Particulate Air (HEPA) filters to prevent the escape of asbestos fibres. Stringent air ventilation calculations ensured maintenance of negative pressure within the containment, protecting adjacent public areas while enabling controlled demolition.



為移除含石棉物料簷篷而設立的全密封式作業空間
Full containment for ACMs contained canopy removal



密封區內部
Inside the containment



負氣壓系統
Negative pressure system



工人穿上全套呼吸防護設備
Worker in full PPE



煙霧測試驗證作業空間的密封性
Smoke test for air-tightness

3 抑制塵埃和除污

Dust Suppression and Decontamination

在移除含石棉物料時，我們採用濕抹法清潔技術和嚴格禁止使用機動工具，以抑制塵埃。所有含石棉物料會預先以水或特定的水溶性溶液(聚醋酸乙烯酯膠液)潤濕，並以配有HEPA過濾器的吸塵設備進行清理，以抑制石棉纖維釋放。所有拆卸的物料會以經核准的石棉廢物袋密封，再作運輸和棄置。

施工區域設有三進除污室，除污室由骯髒衣物更換室、淋浴室和清潔衣物更換室組成，作為作業間的唯一出入口，讓工人進出前後完成除污步驟。所有工程產生的廢水，均通過設有沉澱池和過濾功能的封閉式排水系統收集並過濾，從而防止任何受污染的水排放到公眾環境。

Wet removal techniques and a strict prohibition of powered tools were implemented to suppress dust generation during ACMs removal. All ACMs were pre-wetted using water or water-based Polyvinyl Acetate spray and vacuumed with HEPA filtered equipment to suppress fibre release. All dismantled materials were sealed in approved asbestos waste bags for secure transportation and disposal.

A 3-chamber airlock decontamination hygiene unit, which consisted of a dirty room, shower room and clean room, served as the single entrance or exit to the working zone for workers' decontamination. All wastewater generated from works was collected and filtered through a closed-loop drainage system equipped with sedimentation tanks and filtration units, preventing any contaminated water from being discharged into the environment.



以手動工具配合噴霧移除金屬殼
Trimming of metal cladding by hand tools with water spray



三進除污室
3-chamber decontamination unit

4 處理和棄置廢物

Waste Handling and Disposal

根據《石棉管制的工作守則》和《廢物處置(化學廢物)(一般)規例》的規定，所有石棉廢物均已妥善密封，並將其存放在指定區域，由註冊石棉廢物承辦商收集，並運送石棉廢物至經核准的堆填區處置。項目建立了完整的文檔監管鏈系統，以追蹤石棉廢物的流向和最終棄置安排。

All asbestos waste was properly sealed and stored in the designated area for collection by registered asbestos waste contractors, who transported it to an approved landfill in compliance with both the Code of Practice on Asbestos Control and the Waste Disposal (Chemical Waste) (General) Regulation. A full chain-of-custody documentation system was maintained to track the movement and final disposal of all hazardous materials.



石棉廢物存放於指定的臨時存放區
Asbestos wastes inside temporary storage



石棉廢物袋(核准尺寸為1米x 0.7米、承載能力為兩公斤)
Waste bags with approved size of 1m x 0.7m and loading capacity of 2kg

挑戰與限制

Challenges and Constraints

1

車流量和人流量帶來的獨特挑戰

Unique Challenges due to Vehicular and Pedestrian Traffic

紅磡海底隧道作為香港的主要運輸幹線，負載持續繁重的車流量。總長約 62 米的簷篷橫跨正在運作的隧道廣場收費亭，在施工期間須與環境保護署和運輸署進行協調，具有獨特的挑戰性。由於工地位處於交通樞紐，移除含石棉物料時需遵守經核准的石棉消滅計劃和相關法規的嚴謹要求。所有工序均在嚴格控制的框架內進行，配備臨時交通改道措施，以盡量減少對公眾的影響。

簷篷拆卸工程分三個嚴格控制的階段進行，涉及建造專用的全密封式作業空間、實施所有上述的環境保護措施和在工程進行期間持續監測空氣。

The CHT serves as a major transportation artery in Hong Kong, handling constantly heavy vehicular traffic. The canopy spanned active toll booths, presenting unique coordination challenges with both EPD and the Transport Department during project execution. Given the site's critical location, ACMs removal was conducted under stringent requirements governed by approved abatement plans and relevant regulations. All works were performed within tightly controlled time windows, with temporary traffic diversions implemented to minimize disruption.

The canopy removal works were executed in three tightly controlled stages, each involving construction of dedicated full containment structures, implementation of all the aforementioned environmental protection measures and continuous air monitoring throughout operations.

2

應急準備

Emergency Preparedness

考慮到含石棉物料的危險性及工地鄰近公眾範圍，我們預先制定了全面的應變計劃，以應對各種潛在事故與惡劣天氣，例如在三號強風信號生效時暫停工程，和在八號烈風或暴風信號生效時拆除全密封區。工程由二零二四年四月開展至同年十月竣工，橫跨整個雨季，為確保工程可按時完工，團隊克服了自然環境的挑戰。考慮到拆除和重建全密封區對工程的竣工會造成重大影響，團隊均要靈活應變，動態調整施工方案，以應對不同的天氣狀況，確保工程按時完工。在二零二四年九月，團隊在超強颱風「摩羯」來襲前動員額外人手、延長工作時間和調動額外設備以加快進度，使第二階段工程得以在二零二四年九月三日 (三號熱帶氣旋警告信號發出前) 完成。

In view of the hazardous nature of ACMs and the close public proximity, comprehensive contingency plans were developed for various incidents, including inclement weather. For example, works halted under Tropical Cyclone Warning Signal No. 3 and containment dismantling under Signal No. 8. The works took place from April to October 2024 during Hong Kong's wet season. In order to ensure the project could be delivered timely, the operation was competed with the nature. The dismantling and reconstruction of the containment had a significant impact on the works completion. Our team stayed resilient with different weather conditions and employed different adaptive work plans to ensure timely project completion. Before the arrival of Super Typhoon Yagi in September 2024, our team mobilised extra manpower, extended work shifts, and allocated additional equipment to expedite progress such that the second stage of works was completed on 3 September 2024 (before Typhoon Signal No. 3 was hoisted).

3

持份者參與和公共傳訊

Engagement with Stakeholders and Public Communication

鑑於工程地點廣受市民關注和工程對社會的重要性，我們十分重視與公眾和持份者之間的互動，以及透明的溝通，我們主動清晰展示了說明工程性質的告示和標誌，以釋除公眾疑慮。我們沿行人天橋加設了額外屏障和空氣監測點，確保空氣中的石棉粒子不會飄到行人區域，同時也增設額外的照明和通風，以提升行人的舒適度。

Given the project's high visibility and importance, proactive and transparent communication with the public and stakeholders was prioritized. Clear notices and signage detailing the nature of the works were displayed to ease the public's concerns. Additional physical barriers and air monitoring points were installed along the footbridge to ensure no airborne asbestos particles could reach pedestrian areas. Additional lighting and ventilation were also provided to enhance the pedestrian comfort.



工程前
Before



工程後
After



暢運道下方行人天橋的額外屏障

Additional barriers at footbridge beneath Cheong Wan Road



暢運道下方行人天橋提供額外照明和通風

Provision of lighting and ventilation at footbridge beneath Cheong Wan Road

總結

Conclusion

成功拆卸位於紅磡海底隧道收費廣場含石棉物料的簷篷，奠下了在人煙稠密的市區環境進行高風險的基礎建設工程的基準。儘管面對有害物料、車水馬龍的交通狀況和鄰近公眾區域所帶來的挑戰，我們仍順利地在沒有發生任何意外、沒有造成環境污染和沒有收到公眾投訴情況下完成工程。

此項成就充分展現出周詳的環境管理、充分的持份者參與，以及對健康、安全和環境管理的堅定承諾，對相關石棉的拆卸工程至關重要。

The successful demolition of the asbestos-containing canopy at the CHT Toll Plaza serves as a benchmark for high-risk infrastructure works in dense urban environments. Despite challenges posed by hazardous materials, heavy traffic conditions, and close proximity to the public, the project was completed without incident, environmental contamination, or public complaints.

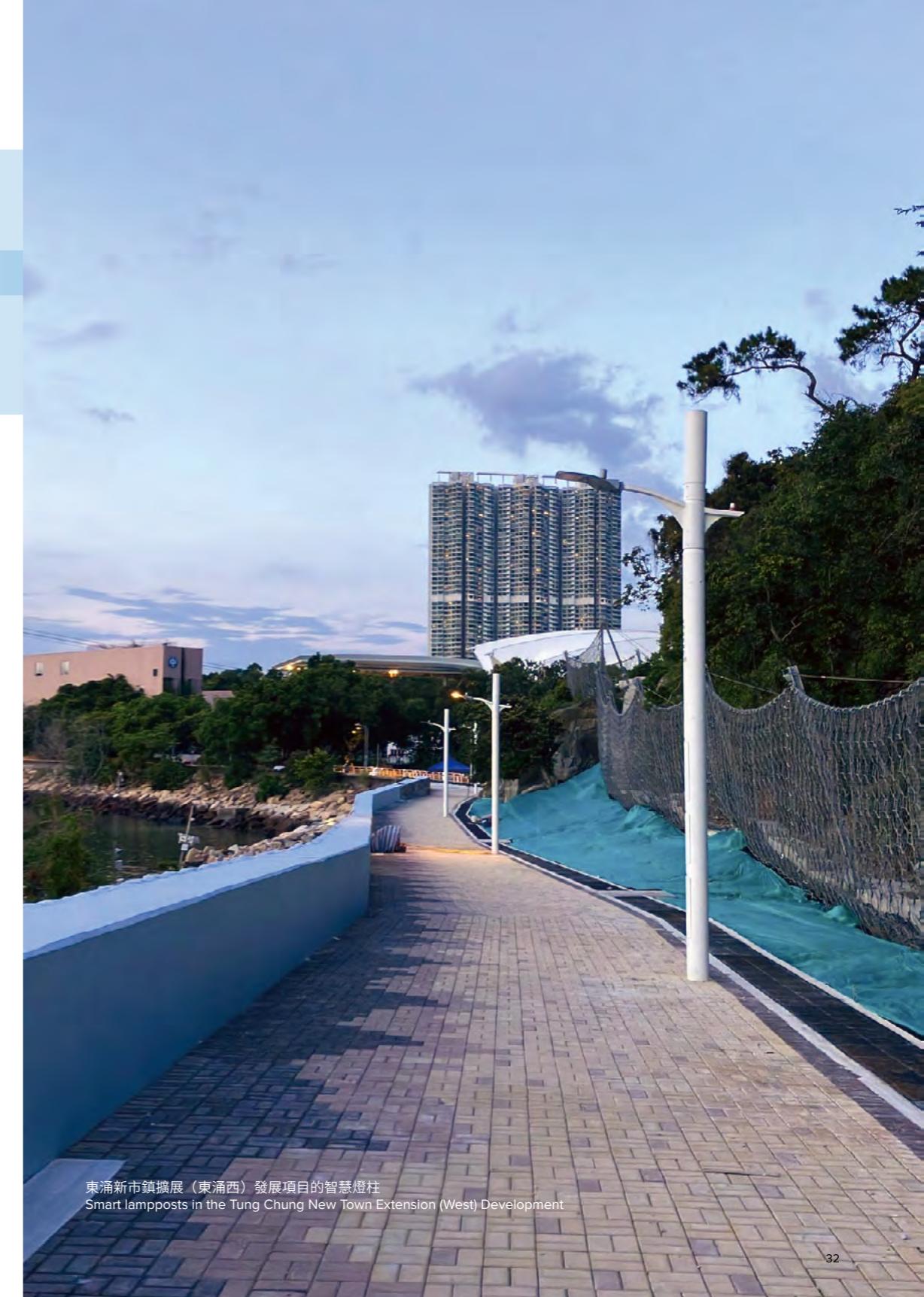
This achievement highlights the critical importance of meticulous environmental management, strong stakeholder engagement, and an unwavering commitment to health, safety, and environmental stewardship in asbestos-related demolition projects.

多功能智慧燈柱的應用 Application on Multi-functional Smart Lampposts

背景 Background

隨着在二零一九年開展的多功能智慧燈柱試驗計劃順利推行，二零二二年十二月公布的《香港創新科技發展藍圖》肯定了進一步推動香港發展為智慧城市的方針。就此，政府計劃在新發展區（包括東涌、落馬洲河套地區、新田、古洞、粉嶺北和洪水橋）安裝智慧燈柱。雖然大部分新發展區仍在規劃中和處於早期建造階段，但路政署和數字政策辦公室持續為項目倡議者就新發展區內智慧燈柱的發展提供技術支援。其中，我們參與了在東涌新市鎮擴展（東涌西）發展項目中安裝智慧燈柱的工作。

Following the successful implementation of the Multi-functional Smart Lampposts Pilot Scheme launched in 2019, the Hong Kong Innovation and Technology Development Blueprint published in December 2022 affirmed the direction to further promote the smart city development in Hong Kong. To this end, the Government has planned to install smart lampposts in New Development Areas (NDAs) including Tung Chung, Lok Ma Chau Loop, San Tin, Kwu Tung, Fanling North and Hung Shui Kiu. While most NDAs are still under planning and in the early construction stage, the Highways Department and the Digital Policy Office have been continuously providing technical support to the project proponents on the development of smart lampposts in the NDAs. Among others, we are involved in the installation of smart lampposts in the Tung Chung New Town Extension (West) Development.



東涌新市鎮擴展（東涌西）發展項目的智慧燈柱
Smart lampposts in the Tung Chung New Town Extension (West) Development



多功能智慧燈柱 Multi-functional Smart Lampposts

智慧燈柱上安裝了節能的發光二極管（LED）照明設備，以提升公共照明系統的能源效益。每個LED照明設備均配置獨立的控制器，可通過無線網絡和智能路燈管理系統進行通訊。受惠於智能路燈管理系統，當檢測到異常運作參數時，系統會立即將故障警報發送給維修人員，以便進行故障調查及維修。

為加強在地區層面的環境監察，我們與環境保護署和香港天文台合作，在智慧燈柱上安裝感應器。安裝於這些燈柱上的空氣質素感應器可實時追蹤主要污染物和微細懸浮粒子的濃度，例如一氧化氮（NO）、二氧化氮（NO₂）和PM 2.5。此外，氣象感應器收集氣溫、相對濕度、風速和風向的數據。通過分析空氣質素和氣象數據，我們可以評估和監察香港的區域環境變化，有助更深入了解城市活動以及環境和城市景觀的變化所帶來的影響。

多功能智慧燈柱的實施建立了一個標準化的基礎建設平台，可支援多種智能裝置和應用，並通過整合科技提升城市管理功能和公共服務。智慧燈柱收集的城市數據會通過開放數據平台（data.gov.hk）免費取得，這些數據將有助於公眾和業界開發創新應用程式以及進行研究。

Energy-saving light emitting diode (LED) luminaires are installed on smart lampposts to enhance the energy efficiency of the public lighting system. Each LED luminaire is equipped with an individual control node enabling communication with the Smart Lighting Management System (SLMS) via a wireless network benefiting from the SLMS, when abnormal operating parameters are detected, the system will instantly send fault alerts to the maintenance staff, facilitating fault investigation and rectification.

To enhance district level environmental monitoring, we have collaborated with the Environmental Protection Department and the Hong Kong Observatory to deploy sensors on smart lampposts. Air quality sensors installed on these lampposts enable real-time tracking of the concentrations of key pollutants and fine suspended particulates such as nitrogen monoxide (NO), nitrogen dioxide (NO₂) and PM 2.5. Additionally, meteorological sensors collect data on temperature, relative humidity, wind speed, and wind direction. By analyzing the air quality and meteorological data, we can assess and monitor regional environmental changes in Hong Kong. This facilitates a deeper understanding of the impacts of urban activities as well as environmental and cityscape changes.

The implementation of multi-functional smart lampposts has established a standardized infrastructure platform capable of supporting various smart devices and applications. This platform enhances city management functions and public services through integrated technology. City data collected by smart lampposts is made freely available via the open data portal (data.gov.hk). The data will be useful in facilitating the public and the industry in developing innovative applications as well as for research purposes.

新田公路桉樹的中長期可持續管理 Sustainable Medium and Long-Term Management of Eucalyptus Trees



二零一九年新田公路旁茂密的桉樹
Dense stand of Eucalyptus trees along San Tin Highway in 2019

引言 Introduction

路政署自二零一九年推行「桉樹計劃」，以處理分佈於新田公路兩旁約 7,000 棵種植密度較大的桉樹所構成的潛在風險。這些桉樹因樹身較高且種植密度較大，尤其在颱風季節期間存在潛在的倒塌風險。此計劃旨在通過系統化和以風險為本的樹木管理，提升公眾安全、維護基礎設施和優化路旁環境。

為落實此計劃，路政署委託香港高等教育科技學院對新田公路沿線的桉樹進行健康及生態狀況評估。該研究於二零一九至二零二一年期間進行，並提出了可行的短期、中期和長期管理策略。

Since 2019, the Highways Department (HyD) has been implementing the "Eucalyptus Programme" to address the risks posed by approximately 7,000 densely growing Eucalyptus trees along the San Tin Highway. Due to their considerable height and density, these trees present a potential collapse hazard, particularly during typhoon season. The programme aims to enhance public safety, protect infrastructure, and improve the roadside environment through systematic and risk-based tree management.

To support this initiative, HyD commissioned the Technological and Higher Education Institute of Hong Kong (THEi) to assess the health and ecological conditions of the Eucalyptus trees along the San Tin Highway. The study, conducted between 2019 and 2021, provided practical management strategies for the short, medium, and long-term.

研究項目和初期管理

Research Project and Initial Management



短期至中期管理策略

Short to Medium-Term Actions

在短期至中期的管理工作上，路政署會移除位於斜坡上和道路邊緣的高風險樹木。此外，亦會修剪約 60% 位於斜坡和所有路旁的樹木，以提升其穩定性和安全性。在颱風季節來臨前，路政署亦會採取一系列額外措施，包括修剪及清除枯木，以及清除傾斜或體積過大的樹木，並把枯死的樹木移除，旨在降低樹木倒塌的風險，保障道路使用者的安全。

In the short to medium-term, management efforts focused on reducing immediate risks. Hazardous trees were removed, particularly on slopes and roadside verges, where their failure could endanger road users. Approximately 60% of slope trees and all verge trees were thinned to improve stability and safety. Ahead of typhoon seasons, additional measures were taken, including pruning, deadwood removal, and the clearance of leaning or oversized trees.

先導樹木管理

Trial Implementations

路政署在石湖圍路附近的兩幅斜坡開展了先導樹木管理措施，其工作包括把當中一幅斜坡上的桉樹全數移除，而另一幅斜坡的樹木密度則降低 60%。為提升斜坡穩定性和生物多樣性，兩幅斜坡上均會重新種植本土植物品種。此外，路政署亦試驗了新的移除方法，包括運用抓取和切割機械，以提升工人的安全和工作效率。我們在二零二四年間進行了三次試驗，證明該方法可行。同時，路政署亦引進了包裹樹頭和管理園林廢物的方法，以控制重新生長及確保樹木管理的可持續性。

Pilot works were carried out on two slopes near Shek Wu Wai Road. One slope was fully cleared of Eucalyptus, while tree density on the other was reduced by 60%. Both sites were replanted with native species, a measure which enhanced slope stability and biodiversity. New removal methods that used gripping and cutting machinery improved worker safety and efficiency. Three trials were conducted in 2024 and proved feasible. Stump wrapping and systematic yard waste management were also introduced to control regrowth and ensure sustainable operations.



第一次試驗（二零二四年五月十四日）
1st trial (14 May 2024)



第二次試驗（二零二四年八月二日）
2nd trial (2 August 2024)



第三次試驗（二零二四年八月八日）
3rd trial (8 August 2024)

定期管理 Regular Management

定期巡查和護養對樹木管理和維持斜坡上的樹木安全至關重要。在桉樹全數移除的斜坡上，我們會持續監控樹木的再萌芽及清除水橫枝。此外，我們亦會定期進行區域性及個別樹木風險評估及樹群檢查工作，對低風險和中風險區域進行每兩年一次的巡查，對高風險區域則在颱風季前進行每年一次的巡查。準備工作包括修剪過度生長的樹冠、移除枯死的樹枝和處理嚴重傾斜或高度達 12 米以上的樹木，並特別留意道路邊緣和斜坡邊界的樹木。

Regular inspections and maintenance are essential to control regrowth and sustain safe conditions. Stump removal and resprouting control were applied, particularly in areas subject to 100% thinning. Area- and tree-based assessments are conducted regularly, with biennial inspections for low and medium-risk areas and annual inspections for high-risk areas before the typhoon season. Preparations include pruning overgrown crowns, removing dead branches, and addressing trees that are severely leaning or taller than 12 m, with particular attention paid to verges and slope boundaries.

中期管理 Medium-Term Management

中期措施將重點放在提升斜坡和道路邊緣的穩定性。路政署疏伐了約 60% 斜坡上的樹木，並以高度達 12 米以上、樹幹直徑較大、樹冠較闊或結構健康較差的樹木為優先考慮。此外，我們亦會移除嚴重傾斜的樹木，並擬在斜坡邊緣設立二至五米闊的安全緩衝區，按風險水平決定優先次序，先行疏伐 100% 位於道路邊緣的樹木，然後拓展至低風險的地點。

Medium-term measures focus on slope and verge stability. On slopes, about 60% of trees were thinned, with priority given to those over 12 m tall, with large trunk diameters, wide crowns, or poor structural health. Severely leaning trees were also removed, and a clear safety buffer of 2-5 m was established along slope edges. On verges, 100% thinning was carried out, prioritised by risk level before extending to lower-priority sites.

長期管理 Long-Term Management

長期管理計劃涉及分階段疏伐斜坡上的樹木，目標是在中等及低優先級區域實現 60% 的疏伐率。透過持續監察體積過大和有潛在風險的樹木，擬定移除的優先次序。我們亦會沿斜坡邊緣維持二至五米闊的安全緩衝區，並定期檢討優先次序管理系統和更新系統數據。

Long-term management involves phased thinning of slope trees, targeting a 60% reduction across medium and low-priority areas. Continuous monitoring of oversized or hazardous trees ensures that removal priorities remain relevant. A permanent safety buffer zone of 2-5 m is maintained along slope boundaries, and the Priority Management System is regularly reviewed and updated with new data.

在沿石湖圍路的斜坡試行先導樹木管理措施 Trial Implementation of Long-Term Tree Management Measures at Slopes along Shek Wu Wai Road



斜坡編號 2SE-A/F13 的原有狀況
Original condition of slope No. 2SE/A/F13



試行後
After implementation

使用的植物品種 Used Plant Species

樹木 Trees



假蘋婆
Sterculia lanceolata



小果鐵冬青
Ilex rotunda Thunb. var. microcarpa



梭羅樹
Reevesia thyrsoidae



華潤楠
Machilus chinensis

灌木 Shrubs



棕竹
Rhapis excelsa



美麗胡枝子
Lespedeza formosa



長紅木
Syzygium rubrum



鵝掌柴
Schefflera heptaphylla

實施經驗 Implementation Experience

1

重新種植 Replanting

路政署在進行樹木疏伐和移除樹木後，會在斜坡上重新種植更多種類的本土品種。此舉不但有助恢復斜坡的穩定性，亦提升了生物多樣性和路旁景觀的視覺效果。

Following thinning and removal, slopes were replanted with a wider range of native species. This not only restored slope stability but also improved biodiversity and the visual quality of the roadside landscape.

2

移除樹木後的處理 Post-Removal Treatment

路政署在進行樹木切除工作時，會將樹頭切除至貼近地面，並包裹樹頭以避免長出水橫枝。我們會清理現場廢物，並運送至集中點，然後分類處理園林廢物，按照不同類別進行適當的棄置或回收。

Stumps were cut low to the ground and wrapped to prevent resprouting. Yard waste was cleared, transported to depots, and sorted for proper disposal or recycling.

3

試驗機械 Machinery Trials

針對抓取與切割機械的試驗，證實了機械化伐樹的優勢。相較於傳統作業，這些方法降低了對攀樹人員的依賴，更提升了作業的安全性與效率。

Trials of gripping and cutting machinery confirmed the benefits of mechanised tree removal. These methods reduced the reliance on climbers, improved safety, and delivered greater efficiency compared with traditional practices.

長期策略 Long-Term Strategy

1

持續監察和疏伐 Ongoing Monitoring and Thinning

路政署每年進行樹木風險評估及管理，並按照既定安排，每年進行最少兩次的例行樹木檢查，以及每季加強在高風險區域的檢查，持續定期監測樹木狀況。高風險樹木的準則，會定期檢討，以確保其切合實際。

Regular monitoring continues through annual Tree Risk Assessment and Management (TRAM), bi-annual Routine Horticultural Inspections (RHI), and quarterly stepped-up checks in higher-risk areas. Hazardous tree criteria are reviewed periodically to ensure their relevance.

2

重新種植和生物多樣性 Replanting and Biodiversity

移除樹木後，路政署會檢討並優先選用適應路旁環境能力較強的品種作重新種植。這些品種不僅能強化生物多樣性，更能確保生態系統的長期韌性。

Post-operation reviews guide the selection of replacement species, focusing on those that perform well under roadside conditions. This adaptive approach strengthens biodiversity and ensures long-term ecological resilience.

總結 Conclusion

截至二零二五年，「桉樹計劃」已有系統地記錄並管理約 4,000 棵分布於 85 處斜坡及路旁帶的桉樹。短期和中期工程大幅減少即時風險，而長期策略則為打造更安全、更多元化的路旁環境奠定基礎。

「桉樹計劃」以系統化的結構和以科學為本的樹木管理策略，有效降低風險、提升斜坡穩定性和促進生物多樣性。計劃以分階段形式進行，平衡了安全需求和環境可持續性，對香港路旁樹木的管理提供了有效的參考。

By 2025, around 4,000 Eucalyptus trees across 85 slopes and verges have been systematically recorded and managed under the programme. Short and medium-term works have significantly reduced immediate risks, while long-term strategies are laying the foundation for a safer and more diverse roadside environment.

The Eucalyptus Programme demonstrates how structured, science-based tree management can reduce hazards, enhance slope stability, and enrich biodiversity. Its phased approach balances safety with environmental sustainability, providing a model for responsible roadside tree management in Hong Kong.

二零二五年香港花卉展覽 Hong Kong Flower Show 2025



二零二五年香港花卉展覽頒獎典禮
Prize presentation ceremony of the Hong Kong Flower Show 2025



展區的鳥瞰風光
Bird-eye view of the display booth



夜間的光影效果
The lighting effect at night

香港花卉展覽（花展）是康樂及文化事務署（康文署）一年一度舉辦的園藝盛事。今屆香港花卉展覽以秋英為主題花，並以「綻放英姿」為主題。路政署每年都積極參與這個活動，並一貫呈獻視覺上令人驚艷且身臨其境的展覽。

二零二五年香港花卉展覽於二零二五年三月十四日至二十三日在維多利亞公園舉行。今年，路政署展區以「連繫生活·編織夢想」為主題，並榮獲大會頒發「最佳展品（園林景點）大獎 - 展品組（本地）」。

HyD actively participated in the Hong Kong Flower Show 2025, a prestigious annual horticulture event organized by the Leisure and Cultural Services Department (LCSD). This year's show featured *Cosmos* as the theme flower, under the overarching theme "Ablaze with Glory".

The Hong Kong Flower Show 2025 took place from 14 to 23 March 2025 at Victoria Park. This year, our theme was "Connecting Life · Weaving Dreams", and we are proud to report that our display booth was honoured with the Grand Award for Outstanding Exhibit (Landscape Display) under the category of Displays Section (Local).

連繫生活・編織夢想 "Connecting Life · Weaving Dreams"

道路與橋樑連繫生活，編織夢想，也承載着我們多姿多彩的生活點滴。路政署在二零二五年花展中以富有創意的方式將道路與橋樑的元素，融合象徵活力的主題花秋英，呈現「連繫生活・編織夢想」的設計主題。展區透過立體拱門和蜿蜒的園林佈局，讓參觀者沉浸於充滿變化的景觀。展區的地面、牆身及入口分別以生動的藝術字擺設、圖案設計和互動展品展示與路政署工作相關的趣味知識，讓參觀者在探索和體驗流動花園景觀的同時，亦可加深對路政署在道路和鐵路建設方面工作上的了解。

Roads and bridges connect lives, weave dreams, and carry the vibrant moments of our daily journeys. At the 2025 Hong Kong Flower Show, we creatively blended road and bridge elements with the theme flower "Cosmos", a symbol of vitality, to bring the concept of "Connecting Life · Weaving Dreams" to life. The exhibit featured three-dimensional arches and a meandering garden layout, immersing visitors in a dynamic landscape. Through vivid artwork, graphic patterns, and interactive displays, the floor, walls, and entrance showcased fascinating facts about the work of our Department. This engaging design allowed visitors to explore a flowing garden experience while gaining deeper insight into the Department's role in shaping Hong Kong's roads and railways.



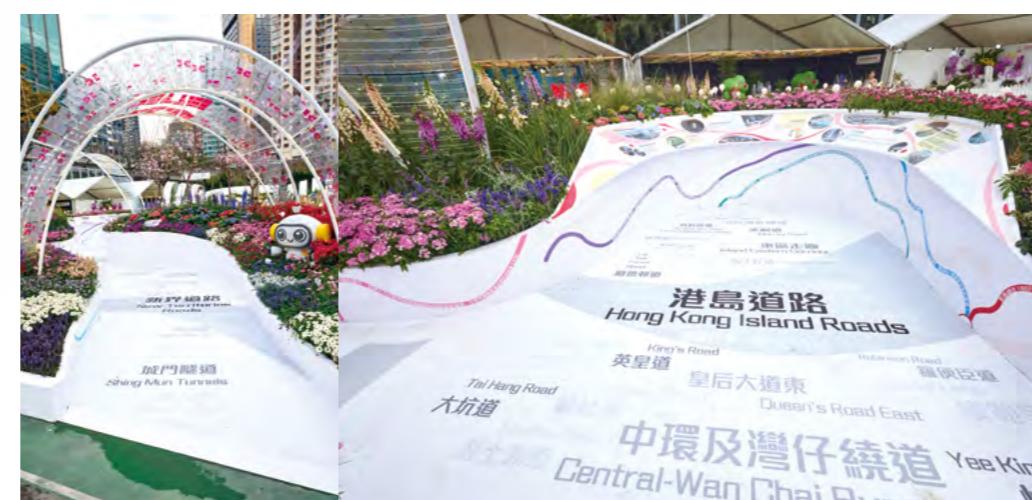
由路政署標誌編織而成的立體拱門
Three-dimensional arches with graphic patterns of HyD's Logo



具備圖案設計和互動展品的立體拱門
Three-dimensional arches with graphic patterns and interactive displays



位於展區入口的藝術字擺設「打卡」點
Photo spot at the entrance of the display booth



展示與路政署工作相關趣味知識的圖案設計
Graphic patterns showcasing fascinating facts about the work of our Department

植物設計 Planting Design

植物設計以今年的主題花秋英，並巧妙搭配毛地黃、飛燕草、石竹等多種色彩鮮豔的花卉，利用超過 50 種植物，營造出生動且七彩繽紛的園林景觀。設計靈感源自大自然的美學，透過多樣植物群落的層疊排列，模擬自然植物社群，打造出兼具視覺美感與生態平衡的園林景觀。

This year's planting design showcased the theme flower *Cosmos spp.* (秋英) alongside vibrant blooms such as Foxgloves (毛地黃), Delphinium (飛燕草), and Rainbow Pink (石竹). Featuring over 50 plant species, the display created a lively and colourful floral display. Embracing a naturalistic approach, the design mimicked wild plant communities through layered groupings, blending aesthetic charm with ecological sustainability.



源自大自然美學的植物設計營造出生動且七彩繽紛的園林景觀
Naturalistic approach of planting design creating a lively and colourful floral display



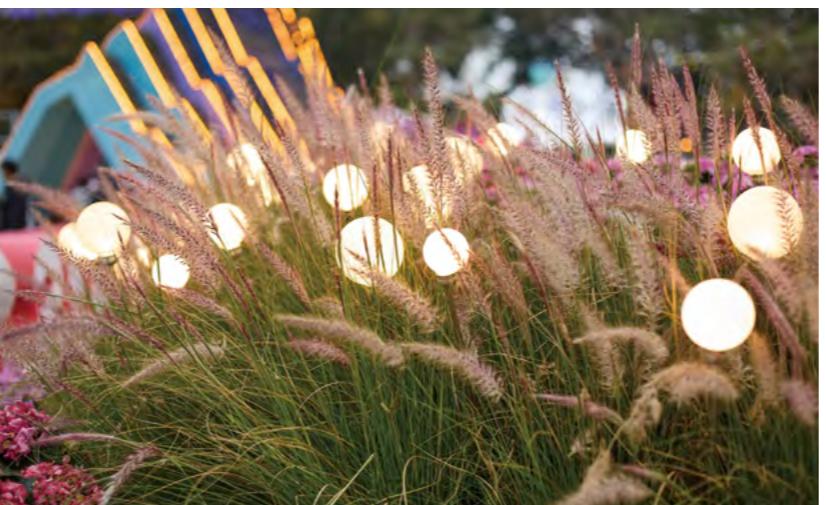
配上燈光效果的夜間園林景觀
Lively and colourful floral display at night



盛開的櫻花
Bloom of cherry blossoms



麥桿菊
Bracteantha bracteata



狼尾草
Pennisetum alopecuroides



秋英
Cosmos spp.



花展開幕當天恰逢櫻花盛開，成為展區一大亮點，吸引大量市民駐足欣賞。為增進與參觀者的互動，路政署吉祥物「Roady」亦親臨現場，成功營造歡樂的節日氣氛。參觀者在沉浸於流動花園景觀的同時，也加深了對路政署在道路和鐵路建設方面工作的認識與了解。

A highlight was the serendipitous bloom of cherry blossoms on the show's opening day, attracting crowds of admirers. To further engage visitors, HyD's mascot, "Roady", made appearances, enhancing the festive atmosphere. Guests enjoyed an immersive journey through the flowing garden landscape while learning about the Department's contributions to Hong Kong's roads and railways.



生動且七彩繽紛的園林景觀
Lively and colourful floral display

路政署吉祥物「Roady」
HyD's mascot, "Roady"



升級再造的相思木長椅
The upcycled Acacia wood bench



循環再用與升級再造木材 Wood Recycling and Upcycling

升級再造的相思木長椅是展覽區的重要亮點。這些長椅取材自路政署「斜坡植林優化計劃（分階段更替老化的台灣相思）」所收集的木材。此項目將老化移除的相思木升級再造為兼具實用與美觀的長椅，不僅推動可持續發展，也提升了遊客體驗。

在花展期間，這些升級再造的相思木長椅成為展區最受歡迎的設施之一。遊客對其極為喜愛，常常在長椅前拍照打卡。長椅的獨特設計及其背後蘊含的獨特故事，令人印象深刻。

升級再造的相思木長椅完美體現可持續發展理念，同時優化了參觀者的整體體驗。它們在花展期間收穫的熱烈迴響，清晰反映了此項目的成功，並彰顯了可持續發展措施在公共空間中的積極影響。

The upcycled Acacia wood benches serve as a significant highlight of the exhibition area. These benches were crafted from wood logs collected through our "Enhancement Programme of Vegetated Slopes of HyD (Phased Replacement of Senescent Acacia)," which removes aging Acacia trees. By transforming these materials into functional and aesthetically pleasing benches, the project not only promotes sustainability but also enhances the visitor experience.

During the Flower Show, these upcycled benches became one of the most popular features in the exhibition area. Visitors consistently showed great appreciation for them, frequently using the benches as favorite photo spots. Their unique design and the meaningful story behind their creation significantly contributed to their popularity, making them a memorable part of the event.

The upcycled Acacia wood benches stood out as a remarkable exhibition feature, perfectly embodying principles of sustainable development while elevating the overall visitor experience. Their enthusiastic reception during the Flower Show clearly demonstrates the initiative's success and underscores the positive impact of sustainable practices in public spaces.

展品在展覽完結後延續使命

New Life of the Display Materials after the Show

在二零二五香港花卉展覽圓滿結束後，路政署實施多項可持續措施，延續植物生命、促進社區綠化，並減少廢物產生。主要措施包括植物分發、樹木移植及「Roady」雕塑遷移。

Following the successful conclusion of the Hong Kong Flower Show 2025, we implemented sustainable initiatives to extend the life of plants, promote community greening, and minimize waste. Key efforts included plant distribution, tree transplantation, and the relocation of "Roady" sculptures.

分發植物

Plant Distribution



二零二五年環保回收日
Green Recycling Day 2025



植物捐贈活動—促進永續發展，同時促進社區參與城市綠化
Flowering Giving Event - promoting sustainability while fostering community engagement in urban greening

環保回收日 2025

Green Recycling Day 2025

路政署透過與康樂及文化事務署合作，參與其舉辦的「環保回收日 2025」，將花展中的一部分植物分發給公眾。這項計劃不僅鼓勵社區綠化，更讓植物生命在展覽結束後得以延續。

In partnership with LCSD, we participated in the Green Recycling Day 2025, distributing a portion of the Flower Show's plants to the public. This initiative encouraged community greening and allowed plants to thrive beyond the event.

送贈盆栽活動

Flowering Giving Event

路政署亦參與了由土木工程拓展署西拓展處舉辦的「下一站。花展（新界西）」送贈盆栽活動，將更多花展中的植物贈予當地居民。此活動不僅促進了可持續發展，也增強了社區對當區綠化的參與，讓花卉可以繼續綻放。

We also joined the "Flowering Giving Event", organized by the West Development Office of the Civil Engineering and Development Department, where additional plants were gifted to local residents. This effort promoted sustainability while fostering community engagement in urban greening.



樹木移植至路政署負責維護的斜坡
Tree transplantation to slopes maintained by HyD

移植樹木 Tree Transplantation

我們從展覽中挑選了部分花展中的樹木（包括櫻花和珍珠相思），移植至路政署負責維護的斜坡。這些樹木現已成為我們道路景觀中不可或缺的一部分，有助提升該地區的景觀美和生態價值。

Selected trees from the exhibition, including *Prunus spp.* (櫻) and *Acacia podalyriifolia* (珍珠相思), were transplanted to the slopes maintained by HyD. These trees have now become an integral part of the roadside landscape, enhancing the aesthetic appeal and ecological value of the area.

遷移「Roady」雕塑 Relocation of "Roady" Sculptures

廣受歡迎的「Roady」吉祥物雕塑在花展後被遷移至路政署不同辦事處，繼續作為路政署的宣傳大使。

The beloved "Roady" mascot sculptures, a highlight of the Flower Show, were relocated to various HyD offices. These sculptures continue to serve as symbols of HyD.



總結 Conclusion

透過上述措施，我們不僅延展了花展的足印，更將短暫的展品轉化為對香港綠化與可持續發展的長遠貢獻。

Through these initiatives, we have maximized the Flower Show's legacy, turning temporary displays into lasting contributions to greening and sustainability in Hong Kong.

辦公室環保管理措施

Green Office Management

節省資源：食水、紙張和廢物循環再造

Resources Saving: Water, Paper & Waste Recycling

為配合政府節約天然資源的倡議，我們致力在進行各項日常工作時實踐「環保辦公室」概念。除了前章中提及的節約能源措施外，我們一直主動推行多項環保政策和措施，以推廣可持續性和提高同事的環保意識。

To align with the Government's initiative to conserve natural resources, we are dedicated to fully embracing the green office concept across various facets of our daily operations. Apart from the energy-saving efforts previously discussed, we are actively implementing a range of green policies and measures aimed at promoting sustainability and enhancing our staff's environmental awareness.



節省用水

Water Saving

何文田政府合署內 **100%** 的廁所均安裝了**省水裝置**
100% of toilets in HMTGO were installed with **water saving devices**

為了盡量節約用水，我們採用兩段式省水馬桶、自動低流量水龍頭及傳感式尿斗。這些元件可有效控制出水時間長短，並使水流量保持在低水平。何文田政府合署內所有廁所均安裝了省水裝置。

To enhance water conservation, we have adopted dual-flush toilets, automatic low-flow faucets, and sensor-operated urinals. These equipment efficiently regulate the duration of water flow and maintain it at a minimal level. All of the toilets in Ho Man Tin Government Offices were installed with water saving devices.



節省用紙

Paper Saving

在二零二四至二五年度，本署用紙量為 **17,362** 令，其中 **100%** 為再造紙。
In 2024/25, we consumed **17,362** reams of paper and **100%** of which were **recycled paper**.

為了配合綠色辦公室政策，我們會繼續執行下列節約用紙措施：

To align with the green office initiative, we would continue with the following measures on paper saving:



影印 / 列印

Photocopying/Printing

只在必要情況下影印 / 列印文件，並且應使用紙張兩面
Photocopy/print documents only when it is unavoidable and both sides of paper should be used



使用紙張

Use of Paper

鼓勵同事使用再造紙和重用辦公室的紙張文具
Encourage the use of recycled paper and reuse of paper office items



使用電子方式

Use of Electronic Means

在切實可行的情況下使用電郵溝通，以及採用電子範本的信頭、備忘錄和表格，以免因較正內容位置而重複列印
Use e-mails for communication as far as practicable and adopt electronic templates of letterheads, memoranda and forms to avoid pre-printing for adjustment



處理傳真機及傳真文件

Handling of Fax Machines and Faxes

對外發送傳真文件不使用引頁
Exclude leader page for outgoing fax documents



派送 / 傳閱文件

Delivery/Circulation of Documents

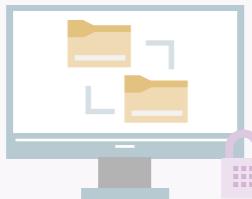
除發送機密檔外不使用信封
Send unclassified documents without envelopes



妥善回收

Proper Recycling

在影印機旁設置單面紙張回收箱（黃色箱）和廢紙回收箱（綠色箱）
Put up a single-sided paper collection box (yellow box) and a waste paper recycling box (green box) near photocopiers



有關節約用紙的新措施

New Measure on Paper Saving:

為了提升保存和管理政府檔案的效率，政府於二零一九年十月發表施政報告附篇時公布，將於二零二五年底全面推展電子檔案保管系統。為此，我們正分階段在各辦公室推展電子檔案保管系統，亦鼓勵員工更廣泛使用電郵或其他電子方式進行公務通訊，藉以促進數碼工作間的文化，盡量發揮電子檔案保管系統的價值，同時亦可盡量減少檔案管理所需的人力資源。

To enhance efficiency in preserving and managing government records, the Government announced in the Policy Address Supplement published in October 2019 the full implementation of Electronic Recordkeeping System (ERKS) by end-2025. To this end, the ERKS are being rolled out in different offices by phases. Staff are encouraged to adopt a wider use of emails or other electronic means in business communication, in order to foster a digital workplace culture that maximizes the value of ERKS and minimises manual efforts in records management.



廢物循環再造 Waste Recycling

在二零二四至二五年度，我們收集了 **34,943 公斤廢紙** 和 **857 個電腦打印機碳粉盒及墨盒** 作循環再造。

In 2024/25, **34,943 kg of waste paper** and **857 printer toners** and ink cartridges were collected for recycling.

我們珍惜可循環再造的廢物，並會繼續採取下列措施推廣循環再造：

To treasure waste with recycling value, we would continue taking the following measures to promote waste recycling:



可循環再造的廢物分開放入回收箱，以便清潔承辦商或本地回收商收集

Place separated recyclables into recycling bins for collection by cleansing contractors or local recyclers



設置回收箱，收集其他可循環再造的廢物 (例如可充電電池)，以作回收

Put up recycling boxes to collect other recyclables such as rechargeable batteries for recycling

因應空氣質素水準而採取的特別措施 Special Measures to Cope With Poor Air Quality

為提高員工對空氣質素的關注，當空氣質素健康指數的健康風險級別達至或預期會升至「甚高」或「嚴重」水平時，我們會向所有員工發出提示，並夾附一套供前線員工及其主管參考使用的預防措施；其中包括為從事戶外工作(尤其是粗重體力勞動工作)的工人而作出的風險評估，以及為盡量減少他們在戶外(特別是交通繁忙的地方)的體力消耗和逗留時間而應作出的規劃。

To raise staff awareness about air quality, we notify our colleagues when the Air Quality Health Index reaches or is expected to reach the "very high" or "serious" health risk categories. Along with these notifications, we provide a set of precautionary measures for front-line staff and their supervisors for their reference. These measures include conducting risk assessments for outdoor work, particularly for those engaged in heavy manual work, and planning to minimize outdoor physical exertion and reduce time spent outdoors, especially in high-traffic areas.

「室內空氣質素檢定計劃」證書 Indoor Air Quality Certification

環保署於二零零三年推出「室內空氣質素檢定計劃」，以推廣並表彰良好的室內空氣質素管理工作。

截至二零二四至二五年度，何文田政府合署連續 21 年獲頒「良好」級別室內空氣質素檢定證書。在二零二四至二五年度，北角政府合署及工業貿易大樓則達至「卓越」級別要求，而長沙灣政府合署及南豐商業中心的辦公室則獲頒「良好」級別證書。我們會繼續努力，在辦公室保持良好的室內空氣質素，以保障大樓使用者的健康和提升員工的生產力。

In 2003, EPD launched the Indoor Air Quality (IAQ) Certification Scheme to promote and commend good IAQ management practice.

By 2024/25, Ho Man Tin Government Offices have received the Good Class IAQ Certificate for 21 consecutive years. In the year, both the North Point Government Offices and the Trade and Industry Tower achieved Excellent Class IAQ, while the Cheung Sha Wan Government Offices and our offices in Nan Fung Commercial Centre obtained Good Class IAQ. We will continue our commitment to maintaining high indoor air quality to protect the health of building occupants and enhance staff productivity.



我們辦公室的「室內空氣質素檢定證書」
IAQ Certificates of our offices

環保建議 Green Advice

我們透過下列不同途徑，提供環保意見，以加強員工的環保意識：

We have adopted various measures to enhance environmental awareness of staff through the provision of green advice:



以電子郵件及內聯網，定期傳閱與環保有關的部門指引
re-circulate environmentally related departmental guidelines regularly through e-mail and the intranet



張貼海報，提倡善用資源及辦公室環保內務管理措施
display posters to promote economic use of resources and green housekeeping measures



在進行環境審核時，檢討和評估各辦公室遵守環保內務管理指引的情況
review and assess compliance with the green housekeeping guidelines during the environmental audit



透過員工建議書計劃等平台，邀請員工對辦公室的環保管理提出建議
invite staff to put forward suggestions on green management such as through the Staff Suggestions Scheme



透過回收舊利是封和月餅罐 / 糖果空盒等活動，把環保辦公室的概念延伸至日常生活
extend the green office concepts to daily life through activities such as recycling of used red packets and empty moon cakes/candy cans



以電子郵件 (而非複印本) 傳閱寄出的信件 / 便箋副本
circulate flimsies of outgoing letters/memo through e-mail instead of hardcopy

以環保採購方式採購一般貨品與服務 Green Procurement of General Goods and Services

我們一直在採購過程中納入環境保護為考慮因素，並盡可能在採購一般貨品與服務時採用由環境保護署制訂的環保規格，藉此為可持續發展出一分力。在二零二四年，我們採購符合相關環保規格的貨品與服務之採購總額約為 1,100 萬港元，主要的環保採購產品類別為墨盒 / 碳粉盒、電腦設備、數碼相機，以及服裝和紡織品。我們會繼續選用比一般產品更環保的貨品與服務，從而促進可持續發展。

To contribute to sustainable development, we have all along taken into account environmental considerations in our procurement process. We adhere to the green specifications for products and services established by the Environmental Protection Department (EPD) as far as practicable. In 2024, our total values of purchase with EPD's green specifications adopted was about HK\$ 1.1 million. The major categories of green products purchased were inks/toner cartridges, computer equipment, and clothing and textile products. We will continue the use of goods and services that minimize adverse environmental impacts, thereby promoting sustainability.

環境審核及碳審計 Environmental Audit and Carbon Audit

周年環境審核 Annual Environmental Audit

為了在內務管理中持續推動環保措施，我們每年會為本署轄下 25 個設於不同地點的辦事處進行環境審核。進行周年環境審核的目的如下：

We conduct annual environmental audits in all 25 offices located in different premises with a view to maintaining the impetus of green measures in housekeeping. The objectives of conducting annual environmental audits are:



評估各辦公室遵守環保內務管理指引的情況
to assess compliance with the green housekeeping guidelines



查找未有遵守指引的情況和建議補救方法
to identify non-compliance and recommend remedial actions



推廣良好的環保管理措施
to promote good environmental management



提高人員在環保管理、職業安全及健康措施方面的意識
to increase staff awareness of green management and occupational safety and health initiatives

審核結果顯示本署各辦公室持續遵守環保內務管理指引，我們亦會爭取機會在各辦公室分享環保管理的最佳做法。

Audit results showed that our offices continued to comply with the green housekeeping guidelines. We have also taken the opportunity to share among the offices the green management best practices.

碳審計 Carbon Audit

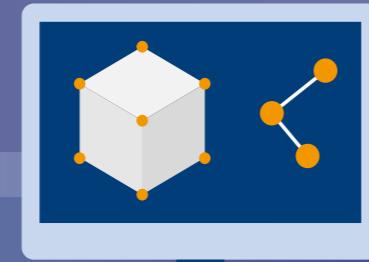
何文田政府合署大廈管理處於二零二四至二五年度進行了碳審計，監察溫室氣體減排工作的成效。有關資料現正由大廈管理處進行研究。

近年審核結果顯示，何文田政府合署的溫室氣體淨排放量整體下降。我們將繼續致力於綠色管理最佳實踐，進一步減少碳足跡。

The annual carbon audit for 2024/25 was conducted for Ho Man Tin Government Offices by the Building Management Office to monitor the effectiveness of greenhouse gas emission reduction efforts. The relevant data are being studied by the Building Management Office.

Past audit findings indicate a general decline in net greenhouse gas emissions in recent years. We remain committed to green management best practices to further reduce our carbon footprint.

研究及技術 Research and Technology



52

更耐用的瀝青鋪路物料

More Durable Bituminous Surfacing Material

53

低噪音鋪路物料

Low Noise Road Surfacing Material

54

探地雷達系統的應用

Application of Ground Penetrating Radar System



10 毫米高改性瀝青瑪蹄脂碎石混合料

10 mm Highly Modified Stone Mastic Asphalt (HMSMA10)

傳統瀝青路面物料在高溫和高交通荷載下容易呈現不穩定狀況，導致路面出現車轍等損壞。我們與香港理工大學合作，研發了10毫米高改性瀝青瑪蹄脂碎石混合料（HMSMA10）。這種先進的路面物料具備以下特點：

Conventional bituminous surfacing is prone to instability under high temperatures and heavy traffic loads, leading to pavement defects such as rutting. In collaboration with the Hong Kong Polytechnic University (PolyU), we have developed 10 mm Highly Modified Stone Mastic Asphalt (HMSMA10) – an advanced surfacing material featuring:

- 高改性瀝青油，提升耐高溫性能和耐用性
Modified bitumen binder with enhanced high-temperature resistance and durability
- 提升抗變形能力（減少車轍）
Enhanced deformation resistance (reducing rutting)
- 改善抗老化性能
Improved anti-aging properties
- 優異的耐疲勞能力
Excellent fatigue resistance

大量的實驗室測試和實地試驗結果證明，HMSMA10 具備：
Extensive laboratory testing and field trials confirm that HMSMA10 offers:

- ✓ 比傳統物料具更優勝抗車轍能力
Greater rutting resistance than conventional materials
- ✓ 更長的使用壽命
Longer service life
- ✓ 顯著減少維修需求
Significant reduction in maintenance requirements

通過採用 HMSMA10，可顯著減緩路面損壞速度，有效提升路面耐用性，減低維修頻率和相關的環境影響。自二零二五年四月一日起，我們已全面採用 HMSMA10 於合適位置作鋪路之用，以進一步提升本港整體路面質素。

By adopting HMSMA10, the deterioration rate of road surfaces can be significantly slowed, effectively enhancing pavement durability while reducing maintenance frequency and associated environmental impacts. To further improve Hong Kong's road quality, we have fully implemented HMSMA10 in suitable locations since 1 April 2025.

深圳灣公路大橋鋪設的 HMSMA10
HMSMA10 on Shenzhen Bay Bridge

6 毫米高改性瀝青瑪蹄脂碎石混合料

6 mm Highly Modified Stone Mastic Asphalt (HMSMA6)

傳統的道路表面在與輪胎接觸時會產生顯著的噪音，尤其在稠密的市區環境。為應對這項挑戰，我們與香港理工大學合作研發創新的解決方案。6 毫米高改性瀝青瑪蹄脂碎石混合料 (HMSMA6) 為低噪音鋪路物料技術帶來突破，具下列優勢：

Traditional road surfaces generate significant noise from road-tire contact, particularly in dense urban environments. To address this challenge, we partnered PolyU to develop an innovative solution. 6 mm Highly Modified Stone Mastic Asphalt (HMSMA6) represents a breakthrough in low-noise road surfing (LNRS) technology, offering:

- 有效降噪：可降低輪胎路面噪音約 2.5 分貝(A)，相當於減少近半交通量所感知的噪音水準
Effective noise reduction: Cuts road-tire noise by approximately 2.5 dB(A) - equivalent to a reduction of nearly half of the perceived noise experienced by traffic volume.
- 提升耐用性：抗車轍能力比傳統物料更優勝
Enhanced durability: Superior rutting resistance compared to conventional materials
- 持續性表現：更長的使用壽命減少維修需求和對環境的影響
Sustainable performance: Longer service life reduces maintenance needs and environmental impact

大量的實驗室測試和實地試驗展示了 HMSMA6 的優點如下：

Extensive laboratory testing and field trials demonstrate HMSMA6's advantages:

- ✓ 在減少噪音方面較標準道路表面優勝
Improvement in noise reduction over standard surfaces
- ✓ 抗變形能力更強
Greater resistance to deformation
- ✓ 延長的保養周期減少了在整個生命周期的成本
Extended maintenance intervals reducing life cycle costs

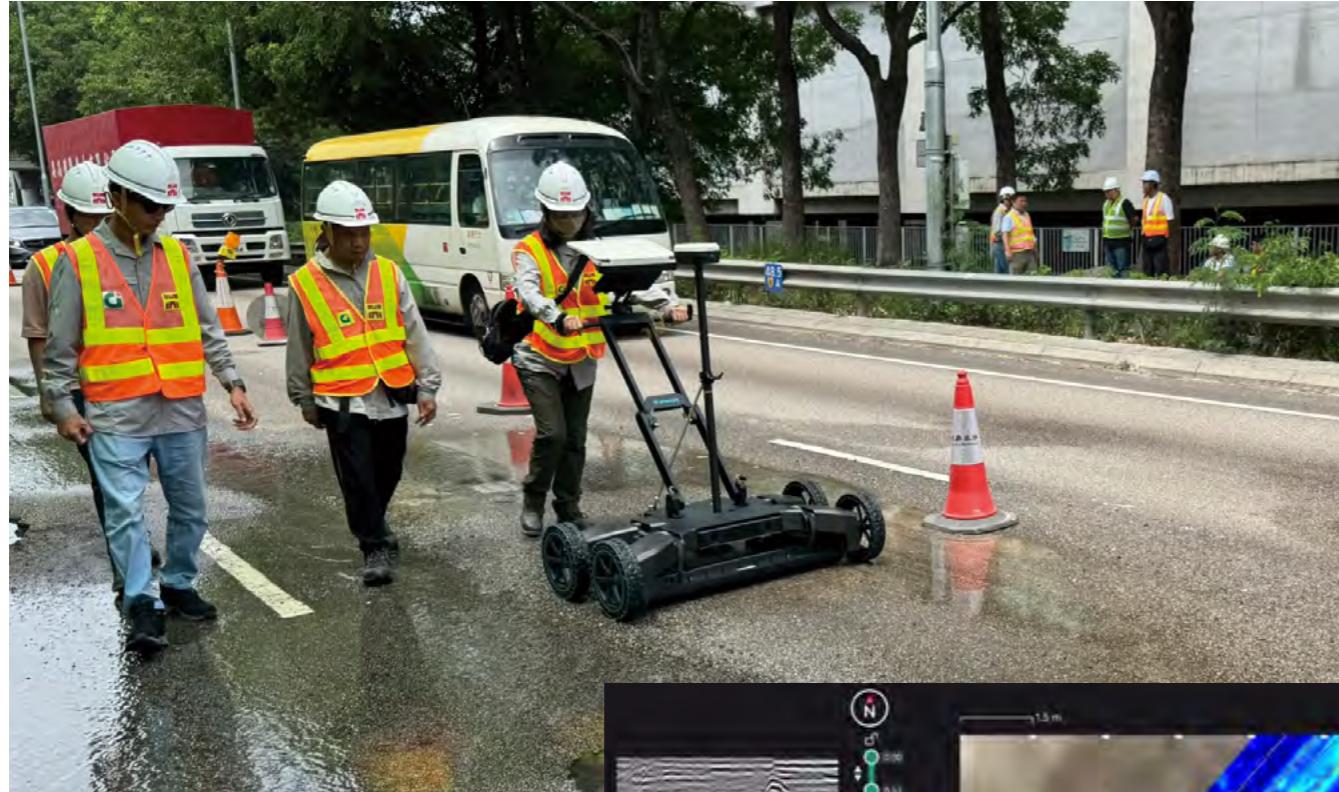
HMSMA6 自二零二五年四月一日起獲採用為用於區內道路的新一代低噪音鋪路物料，為更寧靜和更可持續的都市環境作出貢獻。

Since 1 April 2025, HMSMA6 has been adopted as the new-generation LNRS material for local roads, contributing to a quieter and more sustainable urban environment.

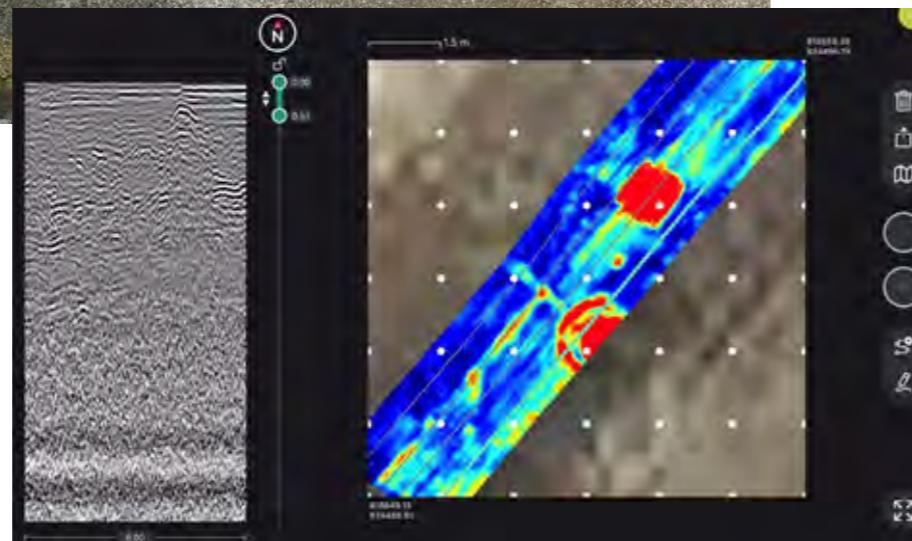
鋪設在荃灣蕙荃路的 HMSMA6
HMSMA6 on Wai Tsuen Road, Tsuen Wan

探地雷達系統的應用

Application of Ground Penetrating Radar System



使用探地雷達測量行車道
GPR surveying a carriageway



從探地雷達掃描數據中發現地底異常
Subsurface anomaly detection in GPR scan data

探地雷達的應用

Application of Ground Penetrating Radar

我們致力於整合創新技術，在提升營運效率的同時，盡可能降低對環境的影響。作為此項倡議的一部分，我們已採用探地雷達系統——一種非破壞性的地下探測方法。相較於傳統的開挖或鑽探作業，探地雷達系統能在無需擾動性物理介入的情況下，評估地下狀況。

We are committed to integrating innovative technologies that enhance operational efficiency while minimizing environmental impact. As part of this initiative, we have adopted the Ground Penetrating Radar (GPR) system, a non-destructive subsurface investigation method. Unlike traditional excavation or drilling, GPR allows us to assess underground conditions without disruptive physical intervention.

探地雷達的運作原理

How GPR Works

探地雷達向地底發射高頻率的雷達脈衝，並分析反射的信號，以產生詳細的地底圖像。它在多種應用中非常有效，例如定位地下公用設施及識別道路表面下的空洞。這種主動且非侵入性的方法，與經常需要對環境進行大範圍物理破壞的傳統方法大不相同。

GPR emits high-frequency radar pulses into the ground and analyzes the reflected signals to generate detailed subsurface images. It is highly effective for applications such as locating underground utilities and identifying voids beneath road surfaces. This proactive and non-invasive approach differs greatly from conventional methods that often require extensive physical disruption to the environment.

環境效益

Environmental Benefits

探地雷達的應用從根本上改變了進行地底勘察和後續維修的方式，從而帶來顯著的環境效益。

The use of GPR delivers significant environmental advantages by fundamentally changing how subsurface investigations and subsequent repairs are conducted.

1

減少環境破壞

Reduced Environmental Disruption

探地雷達能大幅降低對環境造成的破壞程度。作為非破壞性的測試方法，使用探地雷達時無需進行大量挖掘，從而將挖開地面和操作重型機械時所衍生的噪音、氣味和空氣污染減至最少。因此，探地雷達在市區和敏感地區尤其有價值，因為將這些地區受到的干擾減至最少至關重要。

GPR significantly lowers the level of environmental disruption. As a non-destructive testing method, GPR eliminates the need for extensive excavation, thereby minimizing noise, odor, and air pollution that arise from breaking ground and operating heavy machinery. This makes it particularly valuable in urban areas and sensitive areas where minimizing disturbance is crucial.

2

資源效率和減廢

Resource Efficiency and Waste Reduction

通過應用探地雷達，我們亦可更有效地運用人力和資源。探地雷達可精確識別地底的問題區域，讓我們可採取針對性方式進行維修。這種精確性大幅減少補救工作所需的原材料（例如瀝青和混凝土）的數量。因此，與生產和運輸這些材料相關的碳足跡也得以減少。

GPR also optimizes the use of manpower and resources. The system allows for the precise identification of underground problem areas, enabling a targeted approach to repairs. This precision significantly reduces the quantity of raw materials, such as asphalt and concrete, needed for remediation work. Consequently, the carbon footprint associated with the production and transportation of these materials is also reduced.

3

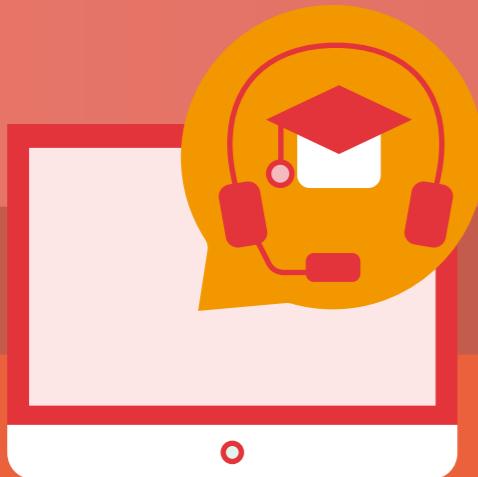
結合數碼方式持續運作

Digital Integration for Sustainable Operations

探地雷達的應用有助於推動基礎建設管理的數碼轉型。所有的測量數據會以數碼方式記錄，能夠順暢地整合至網頁版地理資訊系統，讓我們可即時分析和作出決定。這種從紙本測量計劃到全數位工作流程的轉變，減少了紙張浪費，並促進更具可持續性和有效率的運作。

GPR supports digital transformation in infrastructure management. All survey data are digitally recorded and can be seamlessly integrated into web-based Geographic Information Systems (GIS), enabling real-time analysis and decision-making. This shift from paper-based survey plans to a fully digital workflow reduces paper waste and promotes more sustainable and efficient operations.

持份者參與 Stakeholder Engagement



57
我們的員工
Our Staff

62
業界
The Industry

66
一般公眾
The General Public



我們的員工 Our Staff

環保培訓 Green Training

路政署非常着重向員工提供充足的培訓。我們在二零二四至二五年度為不同人員安排了各項環保培訓課程，使他們的環境管理知識能與時並進，並能有效地執行職務。

We place emphasis on the adequacy of training provided to our staff for their effective discharge of duties. To keep abreast with the latest knowledge in environmental management, we continued to arrange various green training programme in 2024/25 to different users.

 157 名員工參加了培訓課程
staff members attended

 44 項課程安排了
courses arranged

 1,734 個小時培訓
training hours

 涵蓋
Covering
staff in 13 個辦事處的員工
offices

反貪污培訓 Anti-corruption Training

我們高度重視員工的品行、誠信及道德準則，並定期安排反貪污培訓課程（包括誠信管理工作坊及其重溫課程），以提升同事的防貪意識。在二零二四至二五年度，我們安排了 4 節培訓課程，有 322 名員工參加。

We attach great importance to staff members' conduct, integrity and ethics. Anti-corruption training such as Integrity Management Workshops and its refresher courses were regularly arranged to raise awareness among our staff. In 2024/25, we arranged 4 training sessions with 322 staff members attended.

 4 節培訓課程
training sessions

 322 名員工參加
staff members attended



4 資格認證課程 Certification Programmes

1. 國際樹木學會註冊樹藝師的預備課程及考試
Preparatory Course and Examination for ISA Certified Arborist
2. 國際樹木學會註冊樹藝師 / 註冊樹藝專業人士(都市)資格及續牌的培訓課程 - 護根覆蓋層和其益處
Training Programme and Recertification for ISA CA / CA Municipal Specialist Qualification - Mulching and Its Benefits
3. 國際樹木學會註冊樹藝師 / 註冊樹藝專業人士(都市)資格及續牌的培訓課程 – 目測法檢查樹木：闡釋樹木的身體語言
Training Programme and Recertification for ISA CA / CA Municipal Specialist Qualification - Visual Tree Assessment: Interpreting the Body Language of Trees
4. 專業樹木檢查證書
Certificate in Professional Tree Inspection



5 工作坊 Workshops

1. 樹藝工作職業健康與安全工作坊
Workshops on Occupational Health and Safety in Arboriculture
2. 樹木辨認及正確植樹
Tree Identification and Proper Tree Planting
3. 樹木修剪及電鋸使用
Tree Pruning and Use of Chainsaw
4. 運用無人機進行樹木風險評估
Operation of Drone for Tree Risk Assessment
5. 可持續發展工作坊
Sustainable Development Workshop



11 講座 / 網絡研討會 Seminar/Webinars

1. 識別樹木害蟲及疾病和其對樹木的影響
Principle and Practice of Plant Pest and Disease Management
2. 跨政府的雨季前天氣講座 2024
Government-Wide Pre-Rain Season Weather Seminar 2024
3. 香港樹木工作的意外個案研究
Case Study on Tree Work Accidents in Hong Kong
4. 樹木工作的高空工作及實地管理
Aerial Work and Site Management for Tree Works
5. 識別樹木害蟲及疾病和其對樹木的影響
Identification and Control of Common Tree Pests and Diseases
6. 樹木工作的職業安全與健康
Occupational Safety and Health on Tree Works
7. 建築地盤的樹木管理及保護
Tree Management and Protection in Construction Sites
8. 泥土管理
Soil Management
9. 樹木風險評估使用的設備及技術
Use of Equipment and Technology in Tree Risk Assessment
10. 修剪樹木結構
Tree Structure Pruning
11. 雨季前的正確樹木護理
Proper Tree Care Before the Wet Season



24 經驗分享會 Experience Sharing Sessions

1. 國際樹木學會香港分部國際會議 2024
ISA Hong Kong Chapter International Conference 2024
2. 樹木風險評估課程（整合評估）（英國認可 Lantra 專業樹木檢查資格）
Tree Hazard Assessment Course with Integrated Assessment (British Accredited Lantra Professional Tree Inspection Qualification)
3. 承建商有份參與的樹木風險評估及管理工作年度論壇
Discussion Forum with Contractors Involved in Annual Tram Exercise
4. 樹木風險評估課程
Tree Risk Assessment Course with Assessment
5. 路旁樹木的合適性及可持續性簡報會
Briefing Session on Suitability & Sustainability of Roadside Trees
6. 不同收費計劃下抽水廠的有效運作
Efficient Operation of Pumping Plant Under Different Tariff Schemes
7. 香港全面的防洪方法
A Comprehensive Approach to Flood Prevention in Hong Kong
8. 就元朗蝦尾新村及洲頭村的鄉村防洪計劃更新及應用可再生能源技術
Revitalization and Application of Renewable Energy Technologies for Village Flood Protection Schemes at Ha Mei San Tsuen and Chau Tau Tsuen in Yuen Long
9. 改善行人環境及交通以為「躍動港島南」重點地區注入活力
Pedestrian Environment and Traffic Improvements to Bring Vibrancy to the IIS Focus Areas
10. 透過「二零二四年香港花卉展覽」及海外專業培訓資助計劃分享會進行宣傳 – 英國克蘭菲爾德大學水文學及廢水工程
Publicity via Display at the Hong Kong Flower Show 2024 & Sharing Session of Overseas Professional Training Scholarship Scheme - MSc Water and Wastewater Engineering, University of Cranfield, United Kingdom
11. 香港全面的防洪方法
A Comprehensive Approach to Flood Prevention in Hong Kong
12. 透過先鋒樹木物種的系統管理提升生物多樣性及可持續性
Enhancing Biodiversity & Sustainability Through Systematic Management of Pioneer Tree Species
13. 環境督導員的環保課程
Environmental Protection Course for Environmental Supervisor
14. 香港 2024 國際城市林務研討會
Hong Kong 2024 International Urban Forestry Conference
15. ISO 9001:2015 與 ISO 14001:2015 內部綜合管理系統審核員培訓（2024 年）
ISO 9001:2015 & ISO 14001:2015 Internal Integrated Management System Auditor Training 2024
16. 國際氣候及生物多樣性會議：基於自然的解決方案
International Climate and Biodiversity Conference: Nature-Based Solutions in Action
17. 綜合防洪管理策略國際會議
International Conference on Integrated Flood Management Strategy
18. 水質監控自動系統
Automation System for Water Quality Monitoring
19. 環保建築專業議會 2025 國際會議 - 「超零碳設計」
Professional Green Building Council International Conference 2025 - Beyond Zero Carbon Design
20. 香港工程師學會環境部年度論壇
The HKIE Environmental Division Annual Forum
21. 「第三屆海峽兩岸暨港澳城市建設與持續發展科學技術論壇」
Third Cross-Strait Hong Kong & Macau Urban Construction & Sustainable Development Science & Technology Forum
22. 全面水資源管理策略
Total Water Management Strategy
23. 處理有關樹木投訴的規程及就樹木保育及移除遞交提案的秘訣分享會
Tree-Related Complaint Handling Protocol and Tree Preservation and Removal Proposal Submission Tips Sharing Session
24. 「二零二五年香港花卉展覽」 - 綠化講座
Hong Kong Flower Show 2025 - Seminar on Greening

環保及慈善活動 Green and Charity Activities

在二零二四至二五年度，我們繼續參與各類環保及慈善活動。這些活動不但讓同事及其家屬有更多機會接觸大自然，還可加強他們的環保意識及責任。透過參與健康及愉快的戶外活動，同事可為心靈充電，放鬆精神，從而提升生產力及整體健康。

We continued to participate in various green and charity activities in 2024/25. These activities not only provide opportunities for our colleagues and their family members to connect with nature but also promote environmental awareness and responsibility. By engaging in healthy and enjoyable outdoor activities, our colleagues can recharge and refresh their minds, which in turn can boost their productivity and overall well-being.

二零二四至二五年度捐款總額達
Total donation amount in 2024/25 is
\$46,410



2024 年愛跑
Lifewire Run 2024



香港渣打馬拉松 2025
Standard Chartered Hong Kong Marathon 2025

我們繼續支持各類由不同非政府組織舉辦的環保活動，積極主動向同事分享這些活動的資訊，並且鼓勵他們參與這些有意義的活動，藉此推廣更環保的生活方式，同時幫助社會上有需要的人士。

We continued to support a range of green events organized by various nongovernmental organizations. We played an active role in sharing information about these events and encouraged our colleagues to participate in these meaningful activities that promote a shift towards a greener lifestyle and offer support to those in need.



香港公益金便服日 2024
The Community Chest of Hong Kong Dress Casual Day 2024



公益行善「折」食日 2025
Skip Lunch Day 2025



綠色低碳日 2024
Green Low Carbon Day 2024



地球一小時 2025
Give An Hour for Earth 2025



電腦及電子產品回收月
Computer and Digital Products Recycling Month



利是封回收重用大行動 2025
Lai See Reuse and Recycle Programme 2025



月餅捐贈 樂餉中秋 2024 – 月餅捐贈活動
Mooncake Madness - Mooncake donation event

義工服務 Voluntary Services

我們的同事及其家屬在空閒時間一直熱衷參與志願服務，回饋社會。年內，我們的義工團隊與各組織合作，共同參與了多項義工活動。

我們在二零二四至二五年度完成了 27 個義工項目，合共完成了 978 個小時的義務工作，合共有 296 人次出席義工活動。

Our colleagues and their family members have been keen on participating in voluntary services during their spare time to serve the community. During the year, our Volunteer Team engaged in a number of voluntary services with various organizations.

In 2024/25, we had completed 27 voluntary projects contributing a total of 978 voluntary work hours with 296 volunteer attendances.



978

個小時的義務工作
voluntary work hours



296

人次出席義工活動
volunteer attendances



27

個義工項目
voluntary projects

為草根家庭準備並分發飯盒
Preparing and distributing meal boxes to grassroots families







「建造業關愛機構」計劃標誌
The Construction Industry Caring Organizations Scheme Logo

「建造業關愛機構」計劃 Construction Industry Caring Organizations Scheme

我們一直鼎力支持履行企業社會責任和推廣建造業的正面形象。在二零二四至二五年度，我們繼續參與建造業議會推行的「建造業關愛機構」計劃。

「建造業關愛機構」計劃標誌肯定了本署在過去七年對「服務業界」和「服務社會」作出的努力。

We offered our longstanding support to corporate social responsibility initiatives and promoting the positive image of the construction industry. In 2024/25, we continued to join the Construction Industry Caring Organizations Scheme under the Construction Industry Council.

The award of Construction Industry Caring Organizations logo recognises our commitment in "Serving the Industry" and "Serving the Community" in the past seven years.

業界活動 Industry Activities

為了推廣本地工程和建造業的發展，以及促進知識交流，我們支持各類業界活動，與業界建立緊密關係。這些活動包括為專業團隊及學術機構安排技術性工地參觀，以及由業界組織舉辦的康樂活動。

To encourage the development of the engineering and construction industry and facilitate knowledge sharing, we established strong ties with the industry by supporting a variety of industry activities. This included technical site visits to our projects for professional bodies and academic institutions, as well as recreational events hosted by the organizations in the industry.

為各個組織安排的技術性工地參觀
Technical Visits for Various Organizations



香港建造商會
Hong Kong Construction Association



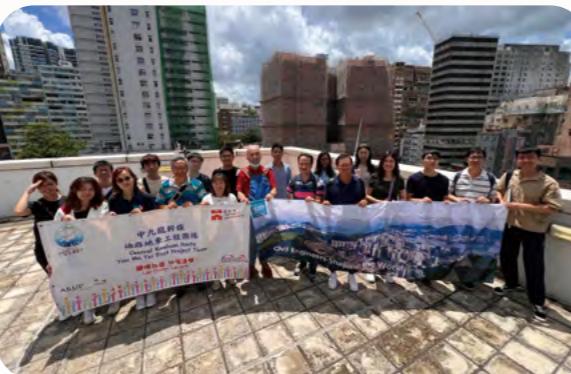
香港建造學院
Hong Kong Institute of Construction



香港公路學會及香港工程師學會
Hong Kong Institution of Highways and Transportation
and the Hong Kong Institution of Engineers



英國土木工程師學會
Institution of Civil Engineers

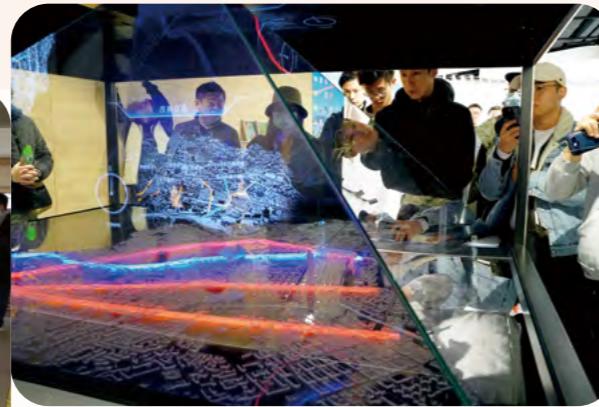


國際基建項目領導峰會
International Infrastructure and Projects Leaders Summit





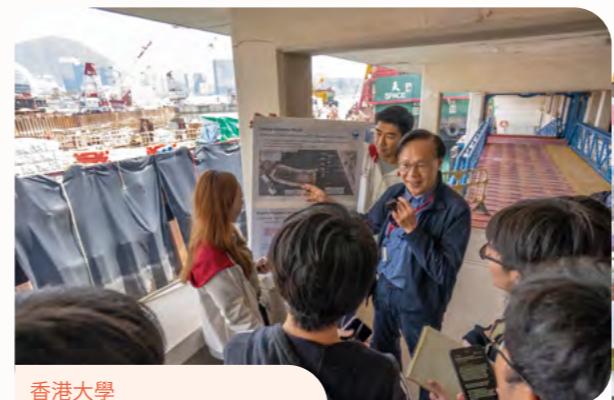
香港測量師學會
The Hong Kong Institute of Surveyors



內地交流實地考察
Mainland Exchange Site Visit



香港工程師學會 - 岩土分部
The Hong Kong Institution of Engineers - Geotechnical Division



香港大學
The University of Hong Kong



英國利茲貝克特大學
UK Leeds Beckett University



工餘活動

Recreational Activities



建造業籃球聯賽 2024
Construction Industry Basketball League 2024



建造業運動會暨慈善同樂日 2024
Construction Industry Sports Day and Charity Fun Day 2024



建造業開心跑 2025
Construction Industry Happy Run 2025

一般公眾 The General Public

我們一直致力參與有意義的社區事務和承擔社會責任。在過去一年，我們繼續加強各工程團隊與持份者之間的合作對話，確保雙方的溝通具透明度和積極聆聽公衆回應。這樣不但改善工程項目資訊的傳達，讓我們更了解社區的需要及關注。透過公開和共融參與，我們進一步鞏固了與主要持份者之間的信任，在我們服務的社區中建立更强大、更穩健的社區關係。

We remain deeply committed to meaningful community engagement and upholding our social responsibilities. Over the past year, we have continued to strengthen collaborative dialogues between our project teams and stakeholders, ensuring transparent communication and active listening to public feedback. These efforts have not only improved the delivery of project information but also deepened our understanding of community needs and concerns. By prioritizing open and inclusive engagement, we have further solidified trust with key stakeholders and fostered stronger, more resilient relationships within the communities we serve.

公眾諮詢 Public Consultation



與立法會議員進行開幕前視察
Pre-opening inspection with Legco members



與立法會議員及區議員參觀工地
Site visit with Legco members and District Council members



社區聯絡小組會議
Community Liaison Group meeting

走進社區 Community Outreaching





拜訪水果批發市場送上新春祝賀
Chinese New Year greeting visit to Fruit Market



中秋節拜訪玉器市場
Mid-Autumn visit to Jade Market



小學和中學的 STEAM 工作坊
STEAM Workshops for primary and secondary school



環保表現

Environmental Performance

70

獎項

Awards

75

環保目標和指標

Environmental Objectives and Targets



獎項 Awards

引言 Introduction

我們一直與承建商緊密合作，在項目工地維持高水平的環保表現，並積極鼓勵他們參與各類環保推廣活動。這份共同努力亦榮獲以下獎項肯定。

We have been working closely with our contractors to maintain a high standard of environmental performance at our project sites. We actively encourage their involvement in a range of environmental promotion campaigns, and this collective effort has been honored with the following awards.

公德地盤獎、傑出環境管理獎和安全及環境卓越創新獎 Considerate Contractors Site Award (CCSA), Outstanding Environmental Management and Performance Award (OEMPA) and Innovation Awards for Safety and Environmental Excellence (IASEE)

發展局與建造業議會合辦「公德地盤嘉許計劃」，旨在推動建築工地秉持關愛共融態度，並實踐良好安全、健康及環保管理。我們持續通過參與該計劃，展現對提升工地安全與環境管理水平的承擔。

在二零二四至二五年度，我們的建造合約共獲頒五項「公德地盤嘉許計劃」獎項，包括兩項「公德地盤獎」優異獎、一項「傑出環境管理獎」銅獎，以及兩項「安全及環境卓越創新獎」優異獎。此外，我們更獲得四項個人殊榮，包括「模範分包商」銅獎、「最佳模範項目領導獎」、「最佳模範分包商前線工地監工獎」與「模範工友獎」，進一步印證我們的卓越成就。

The Development Bureau (DVB) has co-organised the Considerate Contractors Site Award Scheme (CCSAS) with the Construction Industry Council (CIC) to promote a considerate attitude alongside good safety, health, and environmental practices on construction sites. Our participation in the scheme consistently demonstrates our commitment to advancing construction site safety and environmental management.

In the 2024/25 cycle, our construction contracts received five CCSAS awards. These comprised two Merit prizes in the CCSA, one Bronze prize in the OEMPA, and two Merit prizes in the IASEE. Additionally, our achievements were further recognized through four individual honors, including the Model Subcontractor Bronze Award, the Best Model Project Leader Award, the Best Model Subcontractor Frontline Supervisor Award, and the Model Worker Award.



獲頒「公德地盤獎（新建工程）」優異獎和「安全及環境卓越創新獎」優異獎

Winner of CCSA (New Works) Merit Prize and Innovation Awards for Safety and Environmental Excellence Merit Prize

合約編號 Contract No. HY/2018/02

「中九龍幹線一啟德東」

“Central Kowloon Route – Kai Tak East”



獲頒「公德地盤獎（新建工程）」優異獎、「傑出環境管理獎」銅獎和「安全及環境卓越創新獎」優異獎

Winner of CCSA (New Works) Merit Prize, OEMPA Bronze Prize and Innovation Awards for Safety and Environmental Excellence Merit Prize

合約編號 Contract No. HY/2020/09

「為行人天橋、高架行人道及行人隧道提供暢道通行設施—第四組第二份合約」

“Provision of Universal Accessibility Facilities at Footbridges, Elevated Walkways and Subways – Package 4 Contract 2”

「傑出環境管理獎」銅獎 OEMPA Bronze Award

合約編號 HY/2020/09 的工地獲頒「傑出環境管理獎」銅獎，其卓越的環保表現獲得肯定。該工程承建商採取充分的措施，例如在建造工程進行時持續監測噪音和採取合適的緩解策略。舉例而言，工地使用了可拆式隔音屏障。根據實驗室試驗的結果，其可將噪音水平降低最多 15 分貝 (A)。

為了促進可持續發展和引入可再生能源，我們應用太陽能閃光路燈和混合動力車輛以減少碳排放。另外，為有效防止蚊子滋生，該工程承建商引入多重防治措施，包括安裝創新的捕蚊器和應用液體防蚊膜。

The OEMPA Bronze Award was granted to Contract No. HY/2020/09 for its outstanding environmental performance. The contractor implemented sufficient measures, such as conducting continuous noise monitoring during construction and applying appropriate mitigation strategies. For instance, retractable noise barriers were used on-site, which reduced noise levels by up to 15 dB(A) based on laboratory results.

To promote sustainability and incorporate renewable energy, solar-powered flashing lanterns and hybrid electric vehicles were deployed to reduce carbon emissions. Additionally, to effectively prevent mosquito breeding, the contractor introduced multiple control measures, including the installation of innovative mosquito traps and the application of liquid mosquito film.



混合動力的合約車輛
Hybrid contract vehicle



滅蚊燈
Mosquito trap lamp



捕蚊器
Mosquito trap



太陽能閃光路燈
Solar energy type flashing lantern



隔音屏障
Noise barriers

在建築工地推廣環保運動 Environmental Promotion Campaign on Construction Site

我們鼓勵我們的承建商參與各項環保推廣運動和活動，例如「香港綠色機構認證計劃」、「香港綠色企業大獎」、「聯合國可持續發展目標香港成就獎」及香港建造商會的「可持續發展嘉許計劃」。

We encourage our contractors to participate in various environmental promotion campaigns and activities, such as the Hong Kong Green Organization Certification, Hong Kong Green Awards, United Nations Sustainable Development Goals (UNSDG) Achievement Awards (Hong Kong), and the Environmental, Social, and Governance (ESG) Recognition Scheme by the Hong Kong Construction Association (HKCA).

「香港綠色機構認證計劃」 The Hong Kong Green Organization Certification Scheme

「香港綠色機構認證計劃」旨在鼓勵參加機構在不同的範疇實施良好的環保措施，並表揚他們的努力。計劃包括兩項環保認證，分別為「減廢證書」及「節能證書」，以認證在減廢節能方面有良好表現的機構。二零二四至二五年度，合約編號 HY/2014/20 及 HY/2020/07 獲頒「卓越級別」的「減廢證書」，合約編號 HY/2018/02、HY/2018/08 及 07/HY/2021 獲頒「良好級別」的「減廢證書」，而合約編號 HY/2021/06 及 HY/2021/21 則獲頒「基礎級別」的「減廢證書」。另外，合約編號 HY/2014/20、HY/2018/08 及 HY/2020/07 獲頒「卓越級別」的「節能證書」，合約編號 HY/2018/02、HY/2021/06 及 05/HY/2017 獲頒「良好級別」的「節能證書」，而合約編號 HY/2021/21 則獲頒「基礎級別」的「節能證書」。此外，合約編號 HY/2014/20 及 HY/2020/07 獲認證為「香港綠色機構」，以表揚其在改善環保表現方面所作出的堅定努力。

The Hong Kong Green Organization Certification scheme aims to encourage its members to adopt good environmental practices in different aspects and to recognize their efforts. The Awards include two types of Environmental Labels, namely, Wastewi\$e and Energywi\$e Labels, which are granted to well-performing contractors in areas of reducing waste and saving energy. In 2024/25, Contract Nos. HY/2014/20 and HY/2020/07 attained the Excellent Level, HY/2018/02, HY/2018/08 and 07/HY/2021 attained the Good Level and HY/2021/06 and HY/2021/21 attained the Basic Level in Wastewi\$e Label. For Energywi\$e Label, Contract Nos. HY/2014/20, HY/2018/08 and HY/2020/07 attained the Excellent Level, HY/2018/02, HY/2021/06 and 05/HY/2017 attained the Good Level and HY/2021/21 attained the Basic Level. Moreover, both Contract Nos. HY/2014/20 and HY/2020/07 have been certified as Hong Kong Green Organizations for recognizing their resolute commitment to improve their environmental performance.

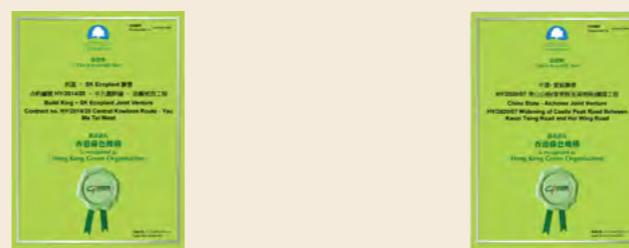
「減廢證書」 Wastewi\$e Certificates

						
卓越級別 Excellent Level 合約編號 Contract No. HY/2020/07	卓越級別 Excellent Level 合約編號 Contract No. HY/2014/20	良好級別 Good Level 合約編號 Contract No. HY/2018/02	良好級別 Good Level 合約編號 Contract No. HY/2018/08	良好級別 Good Level 合約編號 Contract No. 07/HY/2021	良好級別 Good Level 合約編號 Contract No. HY/2021/06	基礎級別 Basic Level 合約編號 Contract No. HY/2021/21

「節能證書」 Energywi\$e Certificates

						
卓越級別 Excellent Level 合約編號 Contract No. HY/2020/07	卓越級別 Excellent Level 合約編號 Contract No. HY/2014/20	卓越級別 Excellent Level 合約編號 Contract No. HY/2018/08	良好級別 Good Level 合約編號 Contract No. 05/HY/2017	良好級別 Good Level 合約編號 Contract No. HY/2021/06	良好級別 Good Level 合約編號 Contract No. HY/2021/21	基礎級別 Basic Level 合約編號 Contract No. HY/2021/21

「香港綠色機構認證」 Hong Kong Green Organization Certificates



經認證的香港綠色機構
Certified Hong Kong Green Organization
合約編號 Contract No.
HY/2014/20



經認證的香港綠色機構
Certified Hong Kong Green Organization
合約編號 Contract No.
HY/2020/07

「香港綠色企業大獎 2024」 Hong Kong Green Awards 2024

由環保促進會舉辦的「香港綠色企業大獎」是另一項知名的環保獎項，目的是表揚在環保管理方面具出色表現和對可持續發展作出重大貢獻的企業。在二零二四年，合約編號 HY/2014/20、HY/2014/08 及 HY/2021/06 分別獲頒「優越環保管理獎 (項目管理) — 大型企業」金獎、銀獎和優異獎。

The Hong Kong Green Awards, organized by the Green Council, are another prestigious environmental accolade that recognizes companies demonstrating outstanding performance in green management and significant contributions to sustainable development. In 2024, our Contract Nos. HY/2014/20, HY/2014/08, and HY/2021/06 received the Gold Award, Silver Award, and Merit Award, respectively, in the Green Management Award – Project Management (Large Corporation) category.



金獎 Gold Award

「優越環保管理獎 (項目管理) — 大型企業」
Green Management Award
Project Management (Large Corporation)
合約編號 Contract No. HY/2014/20



銀獎 Silver Award

「優越環保管理獎 (項目管理) — 大型企業」
Green Management Award
Project Management (Large Corporation)
合約編號 Contract No. HY/2014/08



優異獎 Merit Award

「優越環保管理獎 (項目管理) — 大型企業」
Green Management Award
Project Management (Large Corporation)
合約編號 Contract No. HY/2021/06

「香港綠色企業大獎 — 連續獲獎機構 (6 年或以上)」
Hong Kong Green Award - Sustained Performance (6 years +)
合約編號 Contract No. HY/2014/20



「聯合國可持續發展目標香港成就獎 2024 — 獲認可項目」
UNSDG Achievement Award 2024 - Recognized Project
由環保促進會舉辦 by the Green Council
合約編號 Contract No. HY/2014/20

卓越表現獎
Outperformer Award
「可持續發展嘉許計劃」
ESG Recognition Scheme
由香港建造商會舉辦 by HKCA
合約編號 Contract No. HY/2014/20



「聯合國可持續發展目標香港成就獎」 UNSDG Achievement Awards Hong Kong

「聯合國可持續發展目標香港成就獎」同樣由環保促進會舉辦，目的是表彰在其業務實踐和可持續發展項目方面表現出色，且符合聯合國可持續發展目標和惠澤社群的機構。合約編號 HY/2014/20 獲頒「聯合國可持續發展目標香港成就獎 2024」的「獲認可項目」獎。

The UNSDG Achievement Awards (Hong Kong), also organized by the Green Council, honor organizations for their remarkable business practices and sustainability projects that align with the UNSDGs and benefit the community. Our Contract No. HY/2014/20 was recognized as the Outstanding Project in the UNSDG Achievement Awards Hong Kong 2024.

香港建造商會的「可持續發展嘉許計劃」 ESG Recognition Scheme by HKCA

香港建造商會設立「可持續發展嘉許計劃」平台，以支援和鼓勵建造業界積極實施環境、社會及管治（ESG）措施。為協助工程承建商評估其 ESG 表現和達致可持續發展目標，參與計劃的工地以表現指標為基準，彼此進行比較。在二零二四年，合約編號 HY/2014/20 為計劃提供訂立基準的數據，並獲得「可持續發展嘉許計劃」卓越表現獎。

The HKCA established the ESG Recognition Scheme platform to support and encourage the construction industry to take positive initiatives in ESG implementation. To assist contractors in reviewing their ESG performance and achieving sustainability objectives, a benchmark comparison of performance indicators was conducted among participating sites. In 2024, our Contract No. HY/2014/20 received the Outperformer Award amongst the participants in the ESG Recognition Scheme.

環保目標和指標

Environmental Objectives and Targets

2024/25

1.4.2024 – 31.3.2025

成績

Achievement

目標 Objective	指標 Target	成就（截至二零二五年三月三十一日） Achievement (as at 31.3.2025)
減少公共照明設施的能源消耗量 Reducing the energy consumption in public lighting	更換 14,000 盡燈具為發光二極管燈。 To replace 14,000 lighting points with LED lights.	已把 19,069 盡燈具更換為發光二極管燈。 Replaced 19,069 lighting points with LED lights.
減少路政署辦公室的耗電量 Saving electricity consumption in HyD Offices	繼續實施辦公室管理和最佳節能措施，達成較二零一八至一九年度減少 6% 耗電量的目標。 To continue implementing housekeeping measures and best practices for energy saving and to achieve the 6% saving target comparing with the baseline in 2018/19.	我們繼續實施辦公室管理和最佳節能措施。與二零一八至一九年度相比，路政署辦公室在二零二四至二五年度的耗電量已達成減少 6% 的目標。 Housekeeping measures and best practices for energy saving are being implemented continuously. Comparing with the baseline in 2018/19, electricity consumption of HyD offices in 2024/25 has successfully achieved the 6% saving target.
採取節約用水措施 Adopting measures in water conservation	繼續實施節約用水措施，並探討是否適宜在路政署各辦公室安裝最新的節約用水設施。 To continue implementing measures in water conservation and exploring the appropriate installation of latest water saving devices in HyD offices.	已持續實施節約用水措施。 Measures in water conservation are being adopted continuously.
改善室內空氣質素 Improving indoor air quality	繼續保持路政署各辦公室的室內空氣質素在「良好級」或以上。 To continue up-keeping the indoor air quality at or above Good Class level in HyD offices.	路政署各辦公室的空氣質素獲檢定為「卓越級」或「良好級」。 HyD offices' air quality attained the Excellent Class or Good Class.
進行碳審計及落實措施以減少溫室氣體排放 Carrying out carbon audit and implementing measures to reduce greenhouse gas emission	繼續每年進行碳審計。根據碳審計結果，識別主要碳排放源頭，開拓新的節能機會。 To continue carrying out carbon audit annually. To explore energy conservation opportunities by identifying our major emission source from the carbon audit result.	何文田政府合署大廈管理處已在二零二四至二五年度進行碳審計。 Carbon audit was arranged by the Building Management Office of Ho Man Tin Government Offices in 2024/25.
在部門內鼓勵使用再造紙 Encouraging the use of recycled paper	再造紙使用率佔總用紙量維持在 98% 或以上的水平。 To upkeep percentage usage of recycled paper at 98% or above of the total paper consumption.	年內所有用紙均為再造紙。 All consumed papers were recycled paper.
訂立減少影印用紙量指標 Setting target in reducing photocopying paper consumption	員工的人均影印用紙量維持在不超過二零二三至二四年度用紙量的水平。 To maintain the consumption of photocopying paper per staff member at a level not exceeding the consumption level of 2023/24.	二零二四至二五年度員工的人均影印用紙量比二零二三至二四年度低。 The consumption of photocopying paper per staff member in 2024/25 was lower than the consumption level of 2023/24.
推動廣泛使用循環再造物料 Promoting the wider use of recycled materials	在 98% 新鋪設的混凝土鋪路磚行人路使用含有循環再造玻璃物料的鋪路地磚。 To use paving blocks containing recycled glass materials for at least 98% of the newly laid concrete paving block pavements.	100% 新鋪設的混凝土鋪路磚含有循環再造玻璃物料。 100% of the newly laid concrete paving blocks contain recycled glass materials.
減少產生塵埃 Reducing dust emission	在二零二四至二五年度招標的基本工程合約中，加入有關減少塵埃產生的條文。 To include a particular specification clause for dust emission reduction in capital works contracts to be tendered in 2024/25.	二零二四至二五年度招標的兩份適用的基本工程合約均加入有關減少塵埃產生的條文。 All 2 applicable capital works contracts tendered in 2024/25 have included the dust emission particular specification clause.

2024/25

1.4.2024 – 31.3.2025

成績

Achievement

目標 Objective	指標 Target	成就 (截至二零二五年三月三十一日) Achievement (as at 31.3.2025)
採用有能源效益標籤及用水效益標籤的工地辦公室器材 Adopting site office equipment with energy saving labels and water efficiency labels	在二零二四至二五年度招標的基本工程合約中，訂明在工地辦公室 (在現有建築物內者除外) 使用附有能源效益標籤的工地辦公室器材和附有水務署用水效益標籤的用具。 To include particular specification clauses for using site office equipment with energy saving labels and water consuming appliances with WSD water efficiency labels in site offices (excluding those using existing premises) of capital works contracts to be tendered in 2024/25.	二零二四至二五年度招標的兩份適用的基本工程合約均已訂明使用附有能源效益標籤的工地辦公室器材和附有水務署用水效益標籤的用具。 All 2 applicable capital works contracts tendered in 2024/25 have included the particular specification clauses for using site office equipment with energy saving labels and water consuming appliances with WSD water efficiency labels.
在基本工程項目中使用環保車輛 Using environment-friendly vehicles in capital works projects	在二零二四至二五年度招標的基本工程合約中，訂明須採購至少兩部屬核准類型的電動車或混合動力車。 To procure at least two electric or hybrid electric vehicles of approved types under capital works contracts to be tendered in 2024/25.	二零二四至二五年度招標的基本工程合約已採購兩部電動車。 Two electric vehicles were procured under capital works contracts tendered in 2024/25.
採用高效節能措施和可再生能源技術 Adopting energy efficient features and renewable energy technologies	在二零二四至二五年度邀請顧問公司提交技術及收費建議書的基本工程顧問合約中，要求顧問公司： In capital works consultancy agreements for which invitation to submit Technical and Fee Proposals in 2024/25 to include requirements for the consultants: (i) 在可行情況下，採用高效節能措施和可再生能源技術；以及 To identify opportunities to utilize energy efficient features and renewable energy technologies; and (ii) 在設計階段使用碳評估工具（例如「建造業議會碳評估工具」）評估道路工程的碳足印，並建議減少碳足印措施。 To assess carbon footprint of the road work project during design stage with carbon assessment tool, such as "CIC Carbon Assessment Tool", and to provide recommendations on measures to reducing carbon footprint.	二零二四至二五年度未有招標適用的顧問合約。 No applicable capital works consultancy agreements were tendered in 2024/25.
工程師工地辦公室的綠化屋頂及 / 或綠化牆 Green roof and/or green wall at the Engineer's site office	在二零二四至二五年度招標的基本工程合約中，加入在工地辦公室 (設於現有建築物內的辦公室除外) 有陽光照射部分建造綠化屋頂及 / 或綠化牆的條文。 To include a particular specification clause for construction of green roof and/or green wall in capital works contracts to be tendered in 2024/25 with site office (excluding those using existing premises) exposed in sunlight.	二零二四至二五年度招標的基本工程合約中並無適用的基本工程合約，因為工地辦公室均設於現有建築物內。 Not applicable for the capital works contracts tendered in 2024/25 as the site offices are in existing buildings.
在道路構築物推廣使用可再生能源 Promoting the use of renewable energy on highway structures	在合適的現有道路設施安裝光伏發電板。 To install photovoltaic panels on suitable existing highway structures.	已在指定的現有道路設施安裝光伏發電板。 PV panels have been installed on selected existing highway structures.
鼓勵在基本工程項目工地使用電動機器 / 設備 Encouraging the use of electric-powered plants/equipment in construction sites in capital works contracts	在基本工程合約工地使用電動機器 / 設備。 To use electric-powered plants/equipment in construction sites in capital works contracts.	已在多個基本工程合約的工地使用電動機器 / 設備。 Electric-powered plants/equipment have been used in construction sites of various capital works contracts.

2025/26

1.4.2025 – 31.3.2026

展望

Looking Ahead

目標 Objective	指標 Target
減少公共照明設施的能源消耗 Reducing the energy consumption in public lighting	把 14,000 盡燈具更換為發光二極管燈。 To replace 14,000 lighting points with LED lights.
採取節約用水措施 Adopting measures in water conservation	繼續實施節約用水措施，並探討是否適宜在路政署各辦公室安裝最新的節約用水設施。 To continue implementing measures in water conservation and exploring the appropriate installation of latest water saving devices in HyD offices.
改善室內空氣質素 Improving indoor air quality	繼續保持路政署各辦公室的室內空氣質素在「良好級」或以上的水平。 To continue upkeeping the indoor air quality at or above the Good Class level in HyD offices.
進行碳審計及實施溫室氣體減排措施 Carrying out carbon audit and implementing measures to reduce greenhouse gas emission	繼續每年進行碳審計。根據碳審計結果，識別主要的碳排放源頭，開拓新的節能機會。 To continue carrying out carbon audit annually. To explore energy conservation opportunities by identifying our major emission source from the carbon audit result.
在部門內鼓勵使用再造紙 Encouraging the use of recycled paper in the Department	把再造紙使用率佔總用紙量的百分比維持在 99% 或以上的水平。 To upkeep percentage usage of recycled paper at 99% or above of the total paper consumption.
訂立減少影印用紙量指標 Setting target in reducing photocopying paper consumption	把員工的人均影印用紙量維持在不超過二零二四至二五年度的人均用紙量水平。 To maintain the consumption of photocopying paper per staff member at a level not exceeding the consumption level of 2024/25.
推動廣泛使用循環再造物料 Promoting the wider use of recycled materials	(i) 在 98% 或以上新鋪設的混凝土鋪路磚行人路使用含有循環再造玻璃物料的鋪路地磚； To use paving blocks containing recycled glass materials for at least 98% of the newly laid concrete paving block pavements; (ii) 在 14 處地點使用含有循環再造廢棄車胎的橡膠瀝青鋪路物料；以及 To use rubberized bituminous pavement materials containing recycled waste rubber tyres at 14 locations; and (iii) 收集 22 公噸合適的遭砍伐樹木供循環再造 / 升級再造。 To collect at 22 tonnes of suitable felled logs for recycling/upcycling.
減少產生塵埃 Reducing dust emission	在二零二五至二六年度招標的基本工程合約中，加入有關減少塵埃產生的條文。 To include a particular specification clause for dust emission reduction in capital works contracts to be tendered in 2025/26.

2025/26

1.4.2025 – 31.3.2026

展望

Looking Ahead

目標 Objective	指標 Target
採用有能源效益標籤及用水效益標籤的工地辦公室器材 Adopting site office equipment with energy saving labels and water efficiency labels	在二零二五至二六年度招標的基本工程合約中，加入環保條文，訂明在工地辦公室（設於現有建築物內的辦公室除外）使用附有能源效益標籤的工地辦公室器材和附有水務署用水效益標籤的用具。 To include particular specification clauses for using site office equipment with energy saving labels and water consuming appliances with WSD water efficiency labels in site offices (excluding those using existing premises) of capital works contracts to be tendered in 2025/26.
在基本工程項目中使用環保車輛 Using environment-friendly vehicles in capital works projects	在二零二五至二六年度招標的基本工程合約中，訂明須採購屬核准類型的電動車或混合動力車輛。 To procure two electric or hybrid electric vehicles of approved types under capital works contracts to be tendered in 2025/26.
採用高效節能措施和可再生能源技術 Adopting energy efficient features and renewable energy technologies	在二零二五至二六年度邀請顧問公司提交技術及收費建議書的基本工程顧問合約中，要求顧問公司： In capital works consultancy agreements for which invitation to submit Technical and Fee Proposals in 2025/26 to include requirements for the consultants: (i) 在可行情況下，採用高效節能措施和可再生能源技術；以及 To identify opportunities to utilize energy efficient features and renewable energy technologies; and (ii) 在設計階段使用碳評估工具（例如「建造業議會碳評估工具」）評估道路工程的碳足印，並建議減少碳足印措施。 To assess carbon footprint of the road work project during design stage with carbon assessment tool, such as "CIC Carbon Assessment Tool", and to provide recommendations on measures to reducing carbon footprint.
在工地辦公室建造綠化屋頂及 / 或綠化牆 Green roof and/or green wall at the site office	在二零二五至二六年度招標的基本工程合約中，加入在工地辦公室（設於現有建築物內的辦公室除外）有陽光照射部分建造綠化屋頂及 / 或綠化牆的條文。 To include a particular specification clause for construction of green roof and/or green wall in capital works contracts to be tendered in 2025/26 with site office (excluding those using existing premises) exposed in sunlight.
種植樹木及灌木 Planting trees and shrubs	在基本工程合約中種植額外的樹木或灌木。 To plant additional trees or shrubs in capital works contracts.
鼓勵在基本工程項目工地使用電動機器 / 設備 Encouraging the use of electric-powered plants/equipment in construction sites in capital works contracts	在基本工程合約工地使用電動機器 / 設備。 To use electric-powered plants/equipment in construction sites in capital works contracts.

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