

我們的環保政策與工作

我們在施行工程的各個階段均注重環保。我們通 過履行綜合管理系統政策所訂定的下述承諾,致 力達到這個目標:

- 遵守適用的法例和其他規定。
- · 創建安全、綠化及可持續發展的環境。
- 監督承建商的表現・確保他們遵守本署的規定。
- 避免環境污染,並致力緩解因工程項目及部門 運作而可能對環境構成的影響。
- 在可行的情況下·奉行以下原則:資源減省、 資源再用和資源循環再造。
- 為持續改進表現,定期檢討綜合管理系統的成效,並訂立目標和指標。

我們的工作與環境息息相關

我們實施環境管理系統,並已取得ISO 14001: 2004認證,透過環境管理系統,我們有系統地監 察承建商在環保方面的表現,確保他們進守有關 環保的法例和合約規定。我們在這方面取得顯著 成效,而部門向公眾提供的服務在環保方面的表 現亦得以提升。

在致力提供基本服務以配合香港的發展時,我們 審慎地評估工程和作出環保考慮,務求避免工程 對環境遊成不良影響。在進行公共工程時,我們 也藉該引進環保設施改善環境。

Our Environmental Policy And Activities

We place due emphasis on environmental considerations in all stages of our projects, which is achieved through the following commitments in our Integrated Management System Policy:

- · Complying with applicable legal and other requirements.
- · Creating a safe, green and sustainable environment.
- Monitoring the performance of our contractors to ensure their compliance with our requirements.
- Preventing pollution and mitigating potential environmental impacts arising from our projects and operations.
- Observing the principles of reduction, reuse and recycling in the consumption of resources wherever practicable.
- Achieving continual improvement through regular review of the effectiveness of our Integrated Management System as well as the Objectives and Targets,

CEDD and the Environment

We have been implementing an environmental management system (EMS) and obtained ISO 14001:2004 Certification. By making use of the EMS, we systematically monitor the environmental performance of our contractors to ensure compliance with the legal and contractual environmental requirements. We have achieved remarkable improvement and enhanced the environmental performance in providing services to the public.

In providing essential services to support the development of Hong Kong, we carry out assessment with due regard to environmental considerations to avoid causing adverse environmental impacts. In implementing public works projects, we also endeavour to take every opportunity to introduce environmental facilities for improving the environment.

2009年的環保工作 Environmental Activities in 2009	現保日標 Environmental Objectives	環保措施 Environmental Measures	
規劃及設計 Planning and Design	· 產免對環境遊成不良影響 Avoid advence environmental impacts · 如無法避免對環境遊成不良影響, 採取適當的緩解措施 Adopt nuitable micigation measures when adverse impacts are unavoidable · 遵守減少廢物、廢物再用及廢物 循項再透的原則 Observe the principles of Waste Reduction, Re-use, and Recycling	 探討不同方法 Explore options	
建造工程 Construction Works	- 確保承達商達守環保規定 Ensure that contractors comply with environmental requirements	 達令環境許可避的審批條件 Comply with Environmental Permit Condition 實施環境管理計劃 Implement Environmental Management Plan 實施環境監察及齊核計劃 Implement Environmental Monitoring and Audit Programme 	
環境改善工程 Environmental Improvement Works - 毒機改善環境 Take every opportunity to improve the environment - 推廣變化和採用創新的環境 美化設計 Promote greening and adopt innovative landscape design		 廣泛植樹 Adopt extensive planting 推行类化整調圖的工作 Implement Greening Master Plans 施行人迳等坡架周工程昨天化斜坡 Landscape man-made slopes in upgrading works 修復石礦場 Rehabilitate quarries 暨紫已在天然山霞崗塌疫疾完成的 土壤生物修復工程 Monitor installed bioengineering measures at natural-terrain landslide scanding 清理河床 Glear up river-bed 	

環境管理計劃

環境管理計劃是致力提升環保表現的方法,幕更 使管理、密切監察和持續改善。促使本審的建造 工程達致更高的環保表現水平。環境管理計劃旨 在盡量減低空氣、噪音和廢水污染對環境透配的 运藥。以及減少產生制能拆建物群,環境管理計劃 調需軟明承接商在環境管理方面的政策、組織計 不、承述商項推行特定的環境、經濟地理計劃 下、承述商項推行特定的環境、經濟地管理計劃 不必須有效。 一名指定的環境主任。確保環境管理計劃 委派一名指定的環境主任。確保環境管理計劃 委派工程公的推行環境管理計劃已始4年。直至 2009年,加入了環境管理計劃规定的基本工程 合的数目,已由2008年的19份大幅增至2009年的 36份。

Environmental Management Plan

Environmental Management Plan (EMP) is a means to achieve a higher level of environmental performance by means of better management, closer monitoring and continual improvement on our construction works, it aims at minimising the environmental nuisances of air, noise and wastewater pollution as well as minimising the generation of surplus construction and demolition materials. The EMP sots out the contractor's policy, organisational structure, duties and responsibilities, and training arrangements, etc. for the environmental management of the works. As part of the EMP requirements, the contractor is required to implement specific environmental nuisance abatement measures, and to appoint a designated environmental officer to oversee the implementation of the EMP. CEDD has been implementing the EMP in every capital works contract with a contract sum exceeding \$20 million for more than four years. The number of capital works contracts in corporating the EMP requirements has increased from 19 in 2008 to 36 in 2009.



拆建物料的管理

公眾填料委員會由我們的署長擔任主席·負責公 眾填料的策略性管理。有關的管理工作按下列3項 原則執行:

- 減少
- 再用
- 循環再造

政府的政策是在公共工程的規劃、設計和施工階 段, 恋量減少產生拆建物料。我們為建造業提供 服務·讓公眾填料可以卸置位於策略性地點的公 眾填料接收設施。剩餘的公眾填料我們會暫時堆 存·以供日後再用。

在2009年·公眾填料接收設施共接收約1400萬公 噸公眾填料。

Management of Construction and Demolition Material

The Public Fill Committee, under the chairmanship of our Director, is responsible for the strategic management of public fill. The management builds on the 3R principle:

- Reduce
- Reuse
- Recycle

It is the government policy to reduce generation of construction and demolition material in planning, design and construction of public works projects. We provide services to the construction industry for disposal of public fill at public fill reception facilities at strategic locations, where we also temporarily stockpile the surplus public fill for future reuse.

In 2009, the total quantity of public fill received at public fill reception facilities was about 14 million tonnes.



电行公案或对待收款格 The public fell reception facility at Twen Min

緩解環境影響的措施

透過綜合規劃和設計·我們致力減少擬建工程對 環境可能造成的不良影響。倘若這些影響實在無 可避免・我們在施工及設施運作期間・採取適當 的緩解措施。

>斜坡工程

Environmental Mitigation Measures

Through comprehensive planning and design, we endeavour to minimise all possible adverse environmental impacts resulting from the proposed projects. When projects inevitably bring about adverse environmental impacts, we would adopt suitable mitigation measures in both construction and operation stages.

>Slope Engineering Works



在斜对工精中覆辱使用的控制磨疫存施 (在體別可使用數每近歷私農水从減少磨碎散發) Typical dust-control measures employed in alope angineering works (use tarpoullin cheets and water upraying to suppress dust generated from drilling)

>處理建築拆建物料

土木工程處負責營運和管理建築廢料處理設施・ 以及把剩餘的公眾填料運往內地再用。

我們採取了一些緩解措施以減少在處理有關物料 時所產生的泥塵·措施包括經常於工地範圍內灑 水、以帆布覆蓋在臺船上將被運送的填料、以及 使用裝有機動藍掩的運泥車以減少在運送建築廢 料時所散播的泥塵

> Handling Construction and Demolition Material

The CEO is responsible for operating and managing a number of construction waste handling facilities and delivering surplus public fill to the Mainland for beneficial reuse.

To minimise dust nuisance given rise by the handling of the materials, mitigation measures have been adopted including regular water spraying on sites, covering the material loaded to barge by tarpaulin before the barge setting off, and using mechanical covers on trucks for dust control during transportation of construction waste.



死是松从明布霍盖建炭喹剂 Covering the material by tarpoules on barge during delivery



公事終二四年週末以外代本中に作場る Regular water sprogeng on sites for dust control



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>沙田水泉澳及九肚的道路工程

為了改善環境、直至2009年年尾、沙田水泉读及 九肚的道路工程合約已種植了大約4500棵喬木、 130000棵維木/地被植物、以及提供了40000平方 米的蘇化地帶、改善周邊的環境。

>Road works at Shui Chuen O and Kau To, Sha Tin

Up to end 2009, about 4500 trees, 130000 shrubs/ groundcover and 40000 m² of green area had been provided under the roadworks contract at Shul Chuen O and Kau To, Sha Tin to improve the surrounding environment.



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>在舊啟德機場南面停機坪進行清拆和 淨化工程

九龍拓展處繼續為誓數德南面停機坪的土地進行 條下的清拆和浮化工程, 務求令未來發展的土地 符合環保豐來和廣免日後影響居民的健康。

主要受污染的地方已經挖捆並項回潔淨環土·而 那些受總石油號氫化合物和揮發性有機化合物污染的泥土正透過「生物堆置法」的處理來分解這些 污染物。工程合約預計於2010年年初完成。

> 佐敦谷發展計劃

為了改善線化環境·多項國境美化工程已融入佐 款谷發展計劃·包括在斜坡和路旁花槽中種植約 39400標系水和約237000標準水。

> Decommissioning and decontamination works at the south apron of the former Kai Tak Airport

The Kowloon Development Office continued the remaining decommissioning and decontamination works at the south apron area of the former Kai Tak Airport, to make land environmentally safe for future development and eliminate any health impact on future residents.

The majority of the identified contamination areas had been excavated and backfilled with clean fill. The contaminated soil, with total petroleum hydrocarbons and volatile organic compounds, had undergone treatment, "biopiling" operation, to degrade such contaminants. The contract was anticipated to be completed by early 2010.

> Jordan Valley Development

To enhance greening of the environment, the Jordan Valley Development project has incorporated substantial landscape softworks, including planting about 39 400 trees and 237 000 shrubs on slopes and in roadside planters.







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>中環填海計劃第三期

承建商實施了多項緩解環境影響的措施,以減低 施工期間對空氣、噪音及水質的影響。工地人員 亦會推行定期監察,以確保工程符合環境保護的 規定。承建商根據廢物管理計劃,有效地減少建 參廢物的產生,以及在地盆透過廢物分類方法生 產可循環再用的合適物料。

>屯門第18區的L18A道路工程

為了改善環境・我們在屯門L18A道路工程的周邊範圍種植了約700棵喬木和10000棵灌木/地納箱物。



記めたけ(名画の日本文化工作) Landscape works at Area (名, Tuen Mon

>第12區(部分)-大埔發展計劃

為了改善環境·大埔第12區(部分)發展計劃已展 開國景美化工程·包括種植大約8 100標喬木及 59 000標灌木。

> Central Reclamation Phase III

The contractor has implemented various environmental mitigation measures to alleviate the impacts on air, noise and water during the construction stage. Regular monitoring has been conducted to ensure the compliance with the environmental requirements. In accordance with the Waste Management Plan, the Contractor has effectively minimised the generation of construction waste and produced suitable recycled material by means of on-site sorting.

> Road works at L18A Area 18, Tuen Mun

To improve the environment, we planted about 700 trees and 10 000 shrubs/groundcover under the Road L18A project at Tuen Mun.



> Development at Area 12 (Part), Tai Po

To improve the environment, landscape works including planting about 8 100 trees and 59 000 shrubs has been carried out under Tai Po Development at Area 12 (part).



数据海电损转换额 Trial green will noise barriers

綠化隔音屏障

據關後之楊屋道中央分隔帶·將會設置共約250米 長之隔音屏障。為減輕隔音屏障對車道兩旁的行 人及住戶在視覺上的影響。這些隔音屏障將會採 用錄化牆隔音屏障。屏障會以吸音物質為材料。 並會在垂直屏障面栽種植物。在香港市區道路設 置緣化牆隔音屏障屬新嘗試、因此,我們在工地 設置數塊測試屏障板,以測試不同植物品種在緣 化牆隔音屏障之生長情況。

其他綠化工作

為了改善環境·在擴闊後的楊屋道及馬頭壩道路 旁種植地帶及中央分隔地帶·將會進行大量緣化 工作·包括種植約30棵8米高之棕櫚樹、3萬棵灌 木及2嘎5千棵地被植物。

Green Wall Noise Barriers

Noise barriers with a total length of about 250m will be installed along the future central median of the widened Yeung Uk Road, in order to mitigate the visual impact of the noise barriers on pedestrians and residents on both sides of the road, a green wall noise barrier system is proposed to be constructed. The barriers will be made of a material with noise abatement property and will be provided with greening plants on their vertical faces. As green wall noise barriers in urban roads are new to Hong Kong, a few trial panels have been built on site for testing different plant species to be grown in the green wall noise barriers.

Other Greening Works of the Project

In order to enhance the environment, extensive greening works will be provided in the roadside planting areas and central median of the widened Yeung Uk Road and Ma Tau Pa Road. The works include 30 numbers of 8m high palm trees, 30 000 shrubs and 25 000 ground cover plants.

> 荃灣象象山路隔音屏幕加建工程

本署已完成於二肢圳與三棟區村之間沿象鼻山路 東行線加建共長約845米、高6米的經濟式隔音屏 障工程·以及在石間角部和象山部外沿象鼻山路 西行線加速長共約645米的半對開式隔音單工程。 目前、荃灣石間角等與象山邻之間的象鼻山路路 段毗鄰約1600個住宅所受的交通機音已由高速80 分貝(A)L10(1小時)降低至18分貝(A)L10(1小時)的 逐低水平

> 錄化總鋼關

本署正積極落實市區的綠化總詢園, 總與圖訂明個 別地區的整體球化大綱和主題, 並採用加強地區参 與的模式制定, 在制定過程中會諮詢區讀會和地區 人士。

中耶、上環、灣仔、銅鑼灣、尖沙咀、旺角和油 庭地等地區的綠化總續圖所建議的短期綠化工程 已完成。我們在以上各區共趣植了約7 100棟樹和 150萬根連木。令市容得到顯著改善,市區餘下地 區的短期綠化工程亦已展開,預期2011年年中完 成。我們正為新界地區綠化總類圖的研究作準備 工作。

>Retrofitting of Noise Barriers on Cheung Pei Shan Road, Tsuen Wan

Upon the completion of the retrofitting of cantilevered noise barrier of about 485m in length and 6m in height between Yi Pei Chun and Sam Tung UK Resite Village and retrofitting of semi-noise enclosure of about 645m outside Shek Wai Kok Estate and Choung Shan Estate along the westbound carriagoway of Choung Pei Shan Road, the existing high traffic noise levels on the affected adjoining more than 1 600 dwellings up to 80 dB(A)L10 (1 hour) have been reduced to a very low level of 18 dB(A) L10(1 hour).

> Greening Master Plans

The department is implementing the greening measures recommended in the Greening Master Plans (GMPs) for urban areas. GMPs define the overall greening frameworks and themes for individual areas and are developed using an enhanced partmering approach, consulting District Councils and the local community in the process.

The short-term greening works proposed in the GMPs for Central, Shoung Wan, Wan Chai, Causoway Bay, Tsim Sha Tsui, Mong Kok and Yau Ma Toi have been completed. A total of about 7 100 trees and 1.5 million shrubs have been planted in those districts, resulting in significant improvement in the city amenity. The short-term greening works for remaining urban areas are in progress for completion by mid 2011. We are now preparing for the studies for developing GMPs in the New Territories.





■ REM WELLI Boundary Street, Mone Kok



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環保辦公室

經過多年的努力和推廣,員工同己大致建立起 色工作同文化。同事大都自發地採取各項環保辦 公室措施,包括廣泛利用電子布告板成電腦發放 期告或傳遞訊息、雙面影印成列印文件、隨同辦 公室前開掉空期和電標等。

在辦公室節能方面。我們採取了多項內於管理安排、以減少虛耗能源。包括在非辦公時間暫停總部 大板大部分升區機的運作。在一點時間固部開掉斷 公室的電燈。在天氣較清涼的月份提早開建空間。 為影印機和網絡印改機等共用設備加坡自動開機時間擊等。為進一步改善能源效益。我們已拆除了 總部大樓停車場內43支非必要的光管。我們又計劃更換總部大樓隔台舊式的空調製冷極。更換工 程完成後,預計兩台新的製冷提高較舊式的耗電 少近一成準。

在规序方面,同事都習慣了循環再用已在一面列印的紙張及其他紙製文書用品。再換紙用量佔投 們的應用紙量四成以上,據比例更逐年提升。投 們亦已建立系統。分類回收紙紙、認識和塑胶及 物。在許可情況下。我們會盡量採用循環再繳產 品。我們亦要求所有本書的對公室清潔承辦商採 用循環再總塑料發收案一般垃圾。

良好的空氣質素有助提升員工的工作效率。在 2009年,我們更換了無器大樓中央冷氣系統的蘇 風邊遊劃。以進一步改善空內空氣的質素。大樓 更速輸第7年級新「空內空氣質素管理計劃」良好 級全定證書。而六個總部以外的辦事處亦同樣接 須良好及證書。

我們在建立综色工作問方面的表現獲得認可・本册 在2009年獲「香港環保卓越計劃」頒發良好級別的 「清新室內空氣標誌」及「減廢標誌」。該計劃由環 現保護運動委員會主辦。

Green Office

After years of offorts and promotion, our staff members have generally built up a green workplace cutture among themselves. Most colleagues take initiative to adopt various green-office measures including widely use of the electronic bulletin board or e-mailing to issue notices or convey messages, photocopying or printing on two-sides of a place of paper, switching off the air-conditioning and lights before leaving offices, etc.

For office energy-saving, we have adopted various housekeeping arrangements to reduce energy consumption. They include suspending the operation of most of the lifts in the CMI Engineering and Development (CED) Building during non-office hours, switching off some lighting of the office during lunch-time, turning off the air-conditioning supply earlier during the cool season, introducing timers to automatically switch off share-used equipment such as photocopiers and network printers after office hours, etc. To further enhance energy efficiency, we have removed 43 unnecessary fluorescent tubes in the carpark of the CED Building. We are also planning to in the carpark of the CED Building. We expect that after the replacement, the two new chiller plants will reduce electricity consumption by about 15% as compared with the old models.

For waste reduction, colleagues have developed the practice of reusing paper printed only on one side and other paper stationery. Usage of recycled paper accounts for more than 40% of our total paper consumption and the proportion is rising each year. We have also established systems to sort and collect waste opper, aluminum cans and plastic waste for recycling. Recycled products are used as far as practicable, in addition, all of our office-cleansing contractors are required to use plastic bags made of recycled materials for collecting general refuse.

Good air quality holps to boost staff's working efficiency, In 2009, we replaced the freeh air inlet filters of the central air-conditioning system in the CED Building to further improve the indoor air quality. The building was awarded the 'Good Class' Indoor Air Quality Certificate for soven years consecutively. Six outstation offices were also awarded the 'Good Class' Indoor Air Quality Certificates.

Our efforts on building a green workplace have gained recognition. In 2009, we were granted the 'Good Class' 'IAOwiSe Label' and "WastewiSe Label" by the Hong Kong Awards for Environmental Excellence Scheme, The scheme is organised by the Environmental Campaign Committee.



>辦公室「碳審計」

我們已完成本署總部辦公大樓的二氧化碳排放審計。在2008年7月至09年7月期間,總部大樓直接產生的二氧化碳的為40公噸,而通過用水用電間接排放的二氧化碳則約為2488公噸。我們全力支持建設綠色香港,並會對相關的數據進行分析,研究減少排放溫室氣體的對策。

環保教育及培訓

我們為員工提供環保知識和相關技能的培訓・讓 他們持續進修・以應所需・在2009年・我們舉辦 了下列課程:



>Office "Carbon Audit"

We have completed the carbon audit in the CED Building, During the period from July 2008 to July 2009, the amount of carbon dioxide generated directly by the CED Building was about 40 tonnes, while the amount emitted indirectly through water and electricity consumption was about 2488 tonnes. We are fully committed to building a green Hong Kong. Analysis of relevant data will be carried out to explore measures for reducing greenhouse gas emissions.

Environmental Education and Training

We provide environment related training to equip our staff with the necessary knowledge and skills. In 2009, we organised the following training courses:

課程 Course Title	課程數目 No. of Courses	参加人數 No. of Participants
環境管理及與環境有關的經驗分享研討會、 講座和簡報會 Experience-sharing Seminars, Talks, Briefing and De-briefing Sessions, etc. on Environmental Management or Environment-related Topics	24	327
環保法例及環保事項培訓課程 Environmental Legislation and Environmental Issues	3	243

2009年的環保表現

我們每年訂定環保目標和指標·務求在環保表現 方面持續改善。2009年的工作成效如下:

Environmental Performance in 2009

To achieve continual improvement in our environmental performance, we have set annual environmental objectives and targets. Below is a summary of our achievement in 2009:

環保目標 Environmental Objectives	環保指標 Environmental Targets	成績 Achievement
減少用紙及用電量 Reduction of paper and electricity consumption	 減少總用纸量,較2003年 少17.5% Reduce total paper consumption by 17.5% as compared with that in 2003 以環保紙取代普通紙至總用紙 量的44% Substitute 44% of normal plain paper with recycled paper 減少本署大樓的總用電量,較 2007年少2% Reduce total electricity consumption of the Civil Engineering and Development Building by 2% as compared with that in 2007 	 總用纸量較2003年減少23.3%, 建到指標Total paper consumption reduced by 23.3% when compared with that in 2003 The target has been achieved. 環保紙估總用纸量的50.2%, 達到指標Recycled paper took up 50.2% of total paper consumption. The target has been achieved 本署大樓的總用電量較2007年增加1.5%(社) Electricity consumption of the Civil Engineering and Development Building increased by 1.5% when compared with that in 2007 (News)
改善所有人造斜坡 的外觀 Enhancement of the appearance of all man-made slopes	• 美化380幅在防止山泥頓海計劃 下已鞏固的斜坡 Landscape 380 upgraded slopes under the Landslip Preventive Measures Programmes	已美化380幅在防止山泥倾溶計劃下 已鞏固的斜坡 380 upgraded slopes under the Landslip Preventive Measures Programme have been landscaped
改善居住環境 Enhancement of living environment	。 種植至少170萬棵樹/灌木 Plant at least 1.7 million trees/shrubs	• 已種植190萬棵樹/灌木 1.9 million trees/shrubs have been planted

註:用電量的增加乃由於電腦伺服器室裝置了11台新空調系統。

Note: Increase in electricity consumption was resultant from the installation and operation of 11 new air-conditioning units in the new computer server room.