PURPOSE

The purpose of this paper is to:

(a) report to Members the progress made on greening; and

(b) propose the way forward.

IMPORTANCE OF GREENING

2. The Administration has been actively promoting greening in order to improve our living environment. There is in particular a close relationship between greening and improvement of air quality. Rich and colourful trees, shrubs and flowers can also help create a fresh, beautiful and comfortable environment to improve our living conditions and enhance the quality of our lives.

INSTITUTIONAL FRAMEWORK

3. To strengthen co-ordination of work, a high-level Steering Committee on Greening has been established to set the strategic direction and oversee the implementation of major greening programmes. The Committee is chaired by the Permanent Secretary for Development (Works) with members drawn from various departments, and under it are three sub-committees namely Works and Maintenance Committee on Greening; Community Involvement Committee on Greening; and Greening Master Plan Committee. The terms of reference and membership of these committees are at Annex 1.

REVIEW OF WORK UNDERTAKEN

(a) Implementation of annual planting programme
4. Each year, we compile a territory-wide greening programme to facilitate planning and monitoring of progress and outcome. In particular, we strive to maximize greening opportunities during the planning and development of public works projects. The annual greening programme covers a wide spectrum of areas including:

- planting along roadside amenity areas and expressways;
- beautification works at priority sites such as promenades, footbridges and pedestrian zones;
- vegetation on man-made slopes; and
- planting of tree seedlings in the countryside.

5. In the past five years, a total of about 35 million plants including trees, shrubs and annuals have been planted. Planting works have been integrated into major projects including Infrastructure for Penny’s Bay Development (4.7 million plants); Trunk Road T7 in Ma On Shan (1.2 million plants), Kam Tin Bypass (1.1 million plants), Deep Bay Link (0.5 million plants) and Wetland Park (0.3 million plants). Photographs showing some completed works are at Annex 2a.

(b) Development and implementation of GMPs

6. We developed the GMPs for Central and Tsim Sha Tsui in mid-2005 and planting works for these two areas were completed in March 2007. Photographs showing some completed works are at Annex 2b.

7. The development of GMPs for Sheung Wan/Wan Chai/Causeway Bay and Mong Kok/Yau Ma Tei is substantially completed. Subject to funding approval by PWSC/FC in mid-2008, we aim to commence greening works in these five areas in September 2008. Another study for developing GMPs for the remaining urban areas is also in progress for completion in early 2009.

8. The situation in regard to greening is generally better in the New Territories (NT) than the urban areas due to good planning in new town development. At present, the green coverage ratio (i.e. green coverage area/total area) of NT is about 74% versus about 46% in the urban areas. However, we are aware of the aspiration for development of GMPs for NT. We will proceed to do so in mid-2009 when the development of GMPs on the urban front is largely completed.

(c) Development of quality parks and open spaces
9. Leisure and Cultural Services Department (LCSD), with the assistance of Architectural Services Department (ArchSD), has been providing new parks and open spaces to meet the requirements of the general public. 18 open spaces and parks have been completed in the past five years. These include:

- open space in Areas 18 and 21 Fanling which has won the Hong Kong Institute of Architects Annual Award;
- open space in Area 14 Tuen Mun, which has a sustainable theme including the use of recycled plastics moulded to the form, texture and colour of timber, as the major construction materials;
- District open space in Areas 3 and 8, Tsing Yi with a maritime themed promenade that provides linkage to various residential developments on the Tsing Yi waterfront;
- Cherry Street Park in Tai Kok Tsui providing a range of active and passive park facilities for urban dwellers; and
- Dragon Park in Area 25 Tin Shui Wai which is a Suzhou style traditional Chinese garden.

Photographs showing some completed works are at Annex 2c.

(d) Pursuit of new techniques in greening

10. Since green roofs can help improve cityscape and attenuate urban heat island effect, ArchSD aims to implement green roof projects for new Government buildings as far as practicable. About 60 projects with such green features have been completed. Also, about 40 more projects are under construction or planning. These include schools; office buildings; hospitals; community facilities and Government quarters. In addition, ArchSD has identified 20 retrofit rooftop greening projects for implementation in existing Government buildings in 2007/08.

11. Furthermore, to achieve a more pleasant living environment, we have introduced planting on top of hard covers of man-made slopes to enable them to blend in with the surroundings, e.g. slopes at Lion Rock Tunnel Road and Sai Yeung Choi Street. Photographs showing some completed works are at Annex 2d.

12. Vertical greening is a relatively new concept in providing greenery in Hong Kong. It is in particular desirable in a highly populated urban
environment which usually has inadequate space for greening. We have embarked upon pilot schemes such as greening for noise barriers along highways (e.g. Tsing Tsuen Road near Riviera Gardens and Tseung Kwan O Road near Tsui Ping), vertical greening at lift towers and external walls in public housing estates (e.g. Eastern Harbour Crossing Sites Phases 3 and 4), etc.

(e) **Collaboration with the private sector**

13. Apart from Government making its own efforts, initiatives and support from both the private sector and quasi-government organisations are most welcomed. This is also a demonstration of community support. Some recently completed examples include the Sheung Wan Revitalisation Scheme and the streetscape improvement works in Pedder Street, Des Voeux Road Central and Hollywood Road. Photographs showing some completed works are at Annex 2e.

(f) **Quick-win projects**

14. To prepare for the Olympic and Paralympic Equestrian Event in August 2008 and the 2009 East Asian Game, we have worked out a City Dress-up Programme to enhance the image of Hong Kong as an international city. In this regard, we will implement greening as well as streetscape works at strategic locations which will be frequently visited by our overseas visitors. These include areas in the vicinity of event venues; ingress/egress points of cross harbour tunnels; major thoroughfares; key hotels and shopping areas, etc. Photographs showing some completed works are at Annex 2f.

**WAY FORWARD**

15. In the coming years, we intend to enhance our efforts on various fronts.

(a) **Implementation of annual planting programme**

16. We propose to undertake the following to further improve the environment:

− In the 2007-08 Policy Address, the Chief Executive has pledged to push ahead with 10 large-scale infrastructure projects. In the planning and implementation of these projects, we will make every effort to maximize greening opportunities;
Apart from “quantity”, we would go for “quality”. For example, we will go for designs with greater visual impact by planting more flowering shrubs and annuals, using scent to complement visual impact, etc. This will be particularly desirable in areas where there will be high traffic and pedestrian flow; and

Furthermore, apart from pure greening efforts, we will in the planning of projects in key locations, supplement them with streetscape measures such as suitable lamp posts, paving blocks, pedestrian railings, etc. This will entail better co-ordination among departments concerned.

(b) Development and implementation of GMPs

17. As mentioned above, development of GMPs in the urban areas will be completed around early 2009. We will then move to NT. However, before the development of GMPs for NT districts, we shall implement greening enhancement proposals at focal points/locations as an interim measure. In particular, we have already liaised with District Officer (Yuen Long) and agreed upon a package for Tin Shui Wai.

(c) Development of quality parks and open spaces

18. In the coming three years, 10 on-going parks/open space projects will be completed while another 10 parks/open space projects are under planning in various districts. LCSD and ArchSD will continue to introduce new and quality designs to tie in with the needs of individual districts. In particular, we strive to have a theme or special feature in every project to provide it with some uniqueness.

(d) Pursuit of new techniques in greening

19. As we encounter more and more difficulties in finding space for planting in built-up areas, we would actively research into planting on vertical as well as horizontal surfaces, which have not been traditionally provided with greening, e.g. external walls of buildings, footbridge decks, lift towers, open water channels like Yuen Long Nullah. In doing so, we will make reference to overseas experience such as the Cheong Gye Cheon (清溪川) Restoration Project in Seoul of South Korea.

20. Also, we will continue to research on use of different species in rooftop greening as well as to undertake pilot schemes to monitor their performance and maintenance requirements. Photographs and photomontages
showing how the new techniques can work are at Annex 3.

21. Apart from actively implementing rooftop greening in Government projects, we will also aim to promote this in the private sector. The Buildings Department has commissioned a consultancy study on sustainable building designs which aims to develop relevant guidelines and introduce more green features.

(e) Collaboration with the private sector

22. We will continue to explore opportunities for collaboration with quasi-government bodies and the private sector to promote greening. In the process of drawing up GMPs, we will explore with stakeholders with a view to adopting a more holistic approach in greening.

ADVICE SOUGHT

23. Members’ views are welcomed on our way forward in promoting greening.

Development Bureau
December 2007
Terms of reference and membership of Steering Committee on Greening and its three sub-committees

綠化督導委員會及其轄下三個小組委員會的職權範圍和成員組合
STEERING COMMITTEE ON GREENING

Terms of Reference
(i) To formulate and review greening policies on an on-going basis;
(ii) To identify new greening initiatives to meet the changing aspirations of the community with particular reference to the urban areas;
(iii) To consider and approve greening targets and programmes submitted by the working committees;
(iv) To oversee the implementation of departmental greening efforts; and
(v) To consider resource requirements for greening programmes.

Chairman
Permanent Secretary for Development (Works)

Membership
Permanent Secretary for Home Affairs
Deputy Secretary for Development (Planning and Lands)
Deputy Secretary for Development (Works)
Director of Agriculture, Fisheries and Conservation
Director of Architectural Services
Director of Buildings
Director of Civil Engineering and Development
Director of Highways
Director of Home Affairs
Director of Housing
Director of Lands
Director of Leisure and Cultural Services
Director of Planning
Director of Water Supplies
Commissioner for Tourism
Commissioner for Transport

Secretary
Principal Assistant Secretary for Development (W)
WORKS AND MAINTENANCE COMMITTEE ON GREENING

Terms of Reference
(i) To deal with greening-related policy issues on planning, design, construction and maintenance aspects.
(ii) To draw up greening programmes including those associated with public works projects with due regard to resource and implementation requirements, for consideration by the Steering Committee on Greening.
(iii) To coordinate new greening works by government departments (except works relating to Greening Master Plan Committee and Community Involvement Committee on Greening)
(iv) To monitor the implementation of short-term greening enhancement measures at focal points/locations pending the development of GMPs which will have longer time frame to complete.
(v) To monitor proper maintenance of all greened areas.
(vi) To resolve inter-departmental conflicts and interface issues arising from implementation of greening works.
(vii) To monitor the tree preservation system and to review the need for any legislation.

Chairman
Deputy Secretary for Development (Works)

Membership
Representatives at D1/D2 level from :

Development Bureau (Planning and Lands Branch)
Agriculture, Fisheries and Conservation Department
Architectural Services Department
Civil Engineering and Development Department
Drainage Services Department
Highways Department
Home Affairs Department
Lands Department
Leisure and Cultural Services Department
Planning Department
Transport Department
Water Supplies Department
Plus a Senior Landscape Architect from CEDD (ad hoc)
Plus a Senior Landscape Architect from HyD (ad hoc)

Ad hoc members
Buildings Department
Housing Department
Secretary
Principal Assistant Secretary for Development (Works)2
COMMUNITY INVOLVEMENT COMMITTEE ON GREENING

Terms of Reference
(i) To draw up incentives to encourage greening particularly in the urban areas and in private sector building projects for consideration by the Steering Committee on Greening;
(ii) To work with the public, private and community organisations to identify greening opportunities and to implement them;
(iii) To draw up programmes for greening projects in consultation with the local community and to monitor their implementation; and
(iv) To enlist community support for greening through civic education and campaign.

Chairman
Permanent Secretary for Home Affairs

Membership
Representatives at D1/D2 level from:

Education Bureau
Agriculture, Fisheries and Conservation Department
Architectural Services Department
Buildings Department
Civil Engineering and Development Department
Drainage Services Department
Environment Protection Department
Highways Department
Home Affairs Department
Housing Department
Lands Department
Leisure and Cultural Services Department
Planning Department
Water Supplies Department

Secretary
Assistant Director (Leisure Services), Leisure and Cultural Services Department
Non-Official Members
Senior Manager, Flora Conservation Department, Kadoorie Farm and Botanic Garden
Landscaping Manager of Ocean Park Corporation
Corporate Environmental Manager of Airport Authority
Director of Team 73 Hong Kong
Director of Conservancy Association
Chairman of Green Fun
Program Director, Moral Education Concern Group
Chair Professor of Geography, University of Hong Kong

Representatives from Professional Institutes
Hong Kong Institute of Architect
Association of Landscape Consultants
Institute of Horticulture (Hong Kong)
GREENING MASTER PLAN COMMITTEE

Terms of Reference
(i) To formulate and review Greening Master Plans to guide the implementation of greening work in selected areas in the Territory;
(ii) To identify new opportunities to enhance the greening environment;
(iii) To report to the Steering Committee on Greening on the formulation and implementation of Greening Master Plans;
(iv) To oversee and monitor the planning and implementation of greening works arising from the Greening Master Plans as endorsed by the Steering Committee on Greening;
(v) To secure Government and public support for the Greening Master Plans;
(vi) To oversee the incorporation of other concurrent studies or implementation schemes on greening undertaken by other government departments;
(vii) To resolve inter-departmental conflicts and interface issues arising from the formulation and implementation of the Greening Master Plans; and
(viii) To liaise with developers to formulate proposals for enhanced cityscape in the vicinity of developments.

Chairman
Director of Civil Engineering and Development

Membership
Representatives at D1/D2 level or above from:

Development Bureau
Architectural Services Department
Buildings Department
Drainage Services Department
Environmental Protection Department
Food and Environmental Hygiene Department
Highways Department
Home Affairs Department
Housing Department
Lands Department
Leisure and Cultural Services Department
Planning Department
Tourism Commission
Transport Department
Urban Renewal Authority
**Ad hoc members**
Agriculture, Fisheries and Conservation Department
Water Supplies Department
and others as necessary

**Advisors**
Relevant expert from the academia (Professor C Y JIM, JP, Chair Professor of Geography, University of Hong Kong)
Hong Kong Institute of Architects
Hong Kong Institute of Landscape Architects
and others as necessary

**Secretary**
Deputy Head of Civil Engineering Office (Port & Land), Civil Engineering and Development Department
綠化督導委員會

職權範圍
(i) 持續擬定和檢討綠化政策；
(ii) 切合市民不時轉變的期望，探索新的綠化措施，並會特別注重綠化市區的環境；
(iii) 審議及批核各個工作委員會所提交的綠化目標和計劃；
(iv) 協調各部門所進行的綠化工作；以及
(v) 審慎考慮各項綠化計劃所需的資源。

主席
發展局常任秘書長(工務)

成員
民政事務局常任秘書長
發展局副秘書長(規劃及地政)1
發展局副秘書長(工務)1
漁農自然護理署署長
建築署署長
屋宇署署長
土木工程拓展署署長
路政署署長
民政事務總署署長
房屋署署長
地政總署署長
康樂及文化事務署署長
規劃署署長
水務署署長
旅遊事務專員
運輸署署長

秘書
發展局首席助理秘書長(工務)2
工務及護理綠化委員會

職權範圍

(i) 處理有關規劃、設計、施工及護理等與綠化政策有關的事宜；
(ii) 擬定綠化計劃，包括與公共工程項目有關的計劃，充分顧及資源和實施條件的問題，以供綠化督導委員會審議；
(iii) 統籌各政府部門的新訂綠化工程（綠化總綱委員會及社區參與綠化委員會的有關工作除外）；
(iv) 監察在尚未擬就綠化總綱圖（因訂定綠化總綱圖需時較長）的重點地方／位置推行短期綠化改善措施的實施情況；
(v) 監察所有綠化地帶得到妥善護理；
(vi) 調解各部門間因推展綠化工程而出現的分岐和配合問題；以及
(vii) 監察保護樹木制度，並檢討是否有需要立法。

主席
發展局副秘書長（工務）1

成員

以下部門的首長級 D1 或 D2 代表：

發展局(規劃地政科)
漁農自然護理署
建築署
土木工程拓展署
渠務署
路政署
民政事務總署
地政總署
康樂及文化事務署
規劃署
運輸署
水務署
加土木工程拓展署一名高級園境師（特邀）
加路政署一名高級園境師（特邀）
特邀成員
屋宇署
房屋署

秘書
發展局首席助理秘書長（工務）2
社區參與綠化委員會

職權範圍
(i) 擬定鼓勵綠化的措施，供綠化督導委員會審議；而重點為市區及私人建築項目的綠化工作；
(ii) 與公營、私营及社區組織合力尋找可以進行綠化的機會，並加以落實；
(iii) 徵詢相關社區的意見，然後擬定綠化項目時間表，並且監察落實的情況；以及
(iv) 透過公民教育和推廣運動，爭取社會支持綠化工作。

主席
民政事務局常任秘書長

官方成員
以下部門的首長級 D1 或 D2 代表：

教育局
漁農自然護理署
建築署
屋宇署
土木工程拓展署
渠務署
環境保護署
路政署
民政事務總署
房屋署
地政總署
康樂及文化事務署
規劃署
水務署
非官方成員
嘉道理農場高級經理
香港海洋公園園林經理
機場管理局企業環境事務經理
泛亞易道有限公司董事
長春社理事
綠的歡欣委員會主席
德育關注小組總監
香港大學地理學系講座教授

學會代表包括：
香港建築師學會
香港園境師學會
香港園藝學會

秘書
康樂及文化事務署助理署長 (康樂事務)
締化總綱委員會

職權範圍
(i) 制訂和檢討締化總綱圖，藉此為全港選定的地區所推行的締化工作提供指引；
(ii) 尋找新機會，進一步締化環境；
(iii) 就締化總綱圖的制訂和推行工作，向締化督導委員會作出匯報；
(iv) 按照締化督導委員會所通過的締化總綱圖，監督和監察締化工作的規劃和推行；
(v) 爭取政府及公眾對締化總綱圖的支持；
(vi) 就採納其他政府部門同時進行的締化研究或締化工作，作出監督；
(vii) 就締化總綱圖的制訂和推行所引起的部門間分歧及配合問題，作出調解；以及
(viii) 與發展商聯絡，以便制訂建議，提升發展項目附近的市容。

主席
土木工程拓展署署長

成員
以下部門的首長級 D1 或 D2 代表：

發展局
建築署
屋宇署
渠務署
環境保護署
食物環境衛生署
路政署
民政事務總署
房屋署
地政總署
康樂及文化事務署
規劃署
旅遊事務署
運輸署
附件一
（頁七之七）

市區重建局

臨時成員
漁農自然護理署
水務署
及其他部門（如有需要）

顧問
相關的學術界專家 (香港大學地理學系詹志勇講座教授, JP)
香港建築師學會
香港園境師學會
及其他機構（如有需要）

秘書
土木工程處副處長(海港及土地)
Implementation of Annual Planting Programme – Some Completed Works

推行每年種植計劃 – 部份已完成工程
Fire Station with Ambulance Depot and Police Post at Penny’s Bay

竹篙灣消防局、救護站及警崗

Amenity planting at Penny’s Bay

竹篙灣美化市容地帶
Landscaped Island at Penny’s Bay
竹篙灣園景美化島

Trunk Road T7 on Ma On Shan
馬鞍山的T7號主幹路
Kam Tin Bypass
錦田繞道
Deep Bay Link

Visitor Centre roof of Wetland Park
Development and Implementation of GMPs – Some Completed Works

制定和推行綠化總綱圖 – 部份已完成工程
Area near Pier No. 3 in Central
中環3號碼頭附近

Area near Pier No. 7 in Central
中環7號碼頭附近
Roundabout near Pier 7 in Central

Harbour View Street
Edinburgh Place
愛丁堡廣場

Edinburgh Place near City Hall
愛丁堡廣場近大會堂
Nathan Road near Middle Road

Nathan Road Central Median
Junction between Nathan Road and Austin Road

Jordan Road near Canton Road
Salisbury Road adjacent to Wing On Plaza
梳士巴利道鄰近永安中心

Junction between Nathan Road and Jordan Road
彌敦道及佐敦道交界
Development of Quality Parks and Open Spaces – Some Completed Works

發展優質公園及休憩用地 – 部份已完成工程
Cherry Street Park

District Open Space in Areas 3 & 8, Tsing Yi

Cherry Street Park
　樱桃街公園

District Open Space in Areas 3 & 8, Tsing Yi
　青衣第3區及第8區的休憩用地
Local Open Space in Area 25, Tin Shui Wai
天水圍第25區的鄰舍休憩用地

Local Open Space in Areas 18 & 21, Fanling
粉嶺第18區及第21區的鄰舍休憩用地
Local Open Space in Areas 18 & 21, Fanling
粉嶺第18區及第21區的鄰舍休憩用地

Local Open Space in Area 14, Tuen Mun
屯門第14區的鄰舍休憩用地
Beautification of Tsim Sha Tsui Promenade
尖沙咀海濱長廊美化工程

10th Anniversary Memorial Garden in Kowloon Park
九龍公園回歸十週年紀念園
Pursuit of New Techniques in Greening – Some Completed Works

探求新的綠化技術 – 部份已完成工程
Roof and podium garden at a secondary school in Area 50, Tseung Kwan O
在將軍澳第50區一所中學的屋頂及平台花園

Roof and podium garden at a Secondary-cum Primary School in Area 11, Sha Tin
在沙田第11區一所中學暨小學的屋頂及平台花園
Green noise barrier on Deep Bay Link
後海灣幹線的綠化隔音屏障

Earth Mound on Yuen Long Highway
元朗公路的土墩
Slope at Sai Yeung Choi Street
西洋菜街的斜坡

Slope at Lion Rock Tunnel Road
獅子山隧道公路的斜坡
Collaboration with the Private Sector –
Some Completed Works

與私營界別合作 –
部份已完成工程
Sheung Wan Revitalization Scheme
上環更新計劃

Greening works for footway at Garden Road
花園道行人路的綠化工程
Greening works at Queen’s Road Central
皇后大道中綠化工程

Pilot Scheme of Central Cityscape
中區環境改善項目的試驗計劃
Beautification works at Hollywood Road
荷李活道的美化工程

Beautification works at Chater Road
遮打道的美化工程
Quick-win Projects –
Some Completed Works

優先處理項目 –
部份已完成工程
Transport Interchange at the Sheung Shui KCRC station

Improvement in flower bed along Fo Tan Road outside Sha Tin Sports Ground
Improvement in flower bed on roadside of Wo Che Street to Tak Hau Street, Shatin
沙田禾輋街至德厚街的路旁花槽改善工程

Palm planting works in Connaught Road Central
干諾道中的棕櫚樹種植工程
Museum cluster at Tsim Sha Tsui
尖沙咀博物館群

Tunnel Approach Rest Garden near Wan Chai Interchange
近灣仔交匯處隧道入口的休憩公園
Pedder Street Roundabout
畢打街迴旋處

Greening and streetscape enhancement at Peking Road
北京道綠化及街景美化工程
Photographs and Photomontages Showing How the New Techniques Can Work

說明有關新技術運作方案的圖片及電腦效果合成照片
Green noise barrier on Tsing Tsuen Road near Rivera Gardens
青荃路近海濱花園的綠化隔音屏障

Earth Mound on Route 8
八號幹線的土墩
Residential Buildings at the Eastern Harbour Crossing Sites Phases 3 and 4
緑化樓宇工事

Greening to external walls of Rumsey Street Multi-storey Carpark Building
林士街多層停車場外牆綠化
Green roof and vertical greening at Diamond Hill Crematorium

Greening at Flood Pumping Station (Sik Kong Wai)