

2011

ENVIRONMENTAL REPORT



Environmental Report 2011

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Chapter 1

Introduction and Controlling Officer's Profile of Key Responsibilities

1.1 The Leisure and Cultural Services Department (LCSD), set up under the Home Affairs Bureau, is responsible for the territory-wide provision of recreational, sports and cultural facilities and services.

Vision, Mission and Values

1.2 Our **vision** is to -

- provide quality leisure and cultural services that are commensurate with Hong Kong's development as a world-class city and events capital.

1.3 Our **mission** is to -

- enrich life by providing quality leisure and cultural services for all;
- promote professionalism and excellence in leisure pursuits and cultural services;
- promote synergy with sports, cultural and community organisations to enhance the development of arts and sports in Hong Kong;
- preserve our cultural heritage;
- beautify the environment through landscape planting;
- achieve a high level of customer satisfaction; and
- build a highly motivated, committed and service-oriented workforce.

1.4 We achieve our mission by embracing the following core values -

- Customer focus
We continue to respond to customer needs and pledge to provide services in a courteous and user-friendly manner.
- Quality
We pledge to deliver high-quality services in a cost-effective manner.
- Creativity
We continue to encourage diversity and to value original ideas.
- Professionalism

We uphold the highest standards of professionalism and ethics while maintaining a high level of performance.

- Result oriented
Our focus at all times is to achieve the best results possible.
- Cost-effectiveness
We are committed to reaching our goals in an efficient and cost-effective manner.
- Continuous improvement
We seek to continually improve our services and to respond proactively in meeting the changing needs of the community.

Overall View of Our Operation

1.5 Organisation Chart of the Leisure and Cultural Services Department



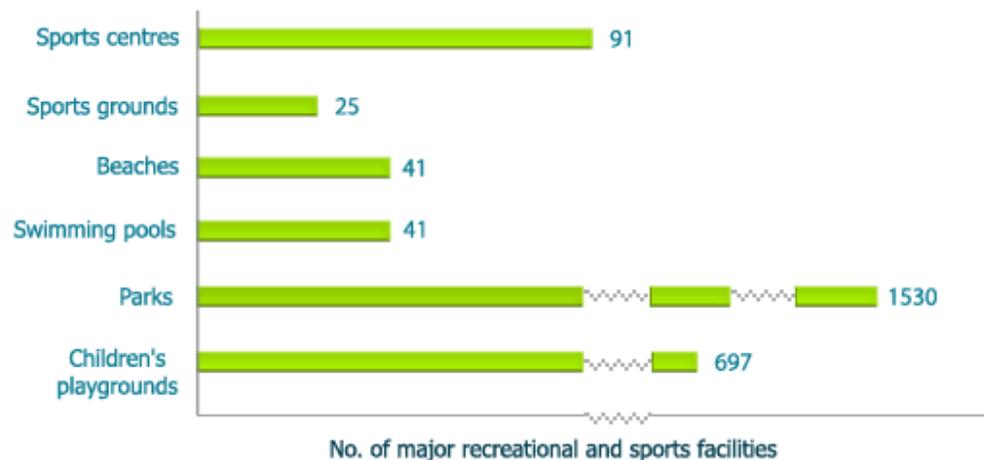
The Department provides services in –



1.6 The Department organises and promotes a wide range of leisure and cultural activities for people of all ages with a view to enhancing arts appreciation and enriching the quality of life of the community. The major responsibilities of the Department are set out in the paragraphs below.

Recreation and Sports

1.7 We develop and manage recreational and sports facilities and organise a wide range of leisure activities in order to promote recreation and sports at all levels throughout the community. As at 31 December 2011, the number of major recreational and sports facilities under our management was –



Horticulture and Amenities

1.8 We promote appreciation and conservation of nature and greening of Hong Kong through planting of trees, shrubs and other plants in public parks and amenity areas, and through organising a wide range of community greening activities. In 2011, we maintained a total of about 1 488 hectares of amenities area and planted about 2.88 million trees, shrubs and annuals.

Heritage and Museums

1.9 We preserve heritage and provide museum services with a view to promoting appreciation of heritage, arts, science and culture. In 2011, we managed 14 museums, two heritage centres and a film archive. We organised a total of 146 exhibitions and 23 474 in-house/outreach programmes covering the themes of history, art, heritage and science.

Performing Arts

1.10 We promote performing and cinematic arts through the provision of cultural facilities and presentation of programmes. In 2011, we managed 15 performing arts venues and organised over 4 700 cultural presentations, which included music, dance, Cantonese and western opera, drama, theatre and multimedia performing arts programmes.

Public Libraries

1.11 We provide, manage and develop library services to meet community needs for knowledge, life-long learning, information, research and recreation; offer library extension activities to all ages; and promote reading and literary arts. We operate 77 public libraries and the stock of books as at 31 December 2011 was 10.9 million and that for multimedia materials was 1.7 million.



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Chapter 2 Environmental Goal and Policy

Environmental Goal

2.1 Our environmental goal is to improve our living environment and to enrich the quality of life of our community by providing a wide range of leisure and cultural facilities and activities throughout the territory. We take into account environmental considerations from project inception to management/operation to minimise pollution, conserve resources, protect the natural environment and promote the appreciation of the beauty of our environment.

Environmental Policy

2.2 In meeting our goal, we are committed to -

- (A) promoting greening and horticulture;
- (B) preserving assets of our heritage;
- (C) providing aesthetically pleasing open space;
- (D) practising waste reduction and energy saving; and
- (E) minimising air and noise pollution in organising leisure and cultural activities.



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Chapter 3

Environmental Management, Performance Analysis and Targets / Milestones

(A) Promoting Greening and Horticulture

3.1 In promoting greening and horticulture, we have four areas of work. They are -

- upgrading of existing landscape areas;
- massive planting programme;
- education and promotion on environmental protection; and
- greening activities.

3.2 (I) Upgrading of Existing Landscape Areas

Performance Targets (Year 2011)	Actual Performance (Year 2011)
<ul style="list-style-type: none"> • Upgrading of 23 hectares of existing landscape areas 	<ul style="list-style-type: none"> • A total of 22.5 hectares of existing landscape areas were upgraded

Performance Analysis in 2011

The Department's actual performance generally followed the target of 2011 through the effort of district staff.

Performance Targets in 2012

The Department's targets in 2012 are -

- to upgrade 23 hectares of landscape areas; and
- to identify 43 prominent roadside amenity areas with a total area of about 1.4 hectares for landscape improvement.

3.3 (II) Massive Planting Programme

Performance Targets (Year 2011)	Actual Performance (Year 2011)
<ul style="list-style-type: none"> • To plant 2 880 000 trees, shrubs and annuals 	<ul style="list-style-type: none"> • over 2 883 000 trees, shrubs and annuals were planted (breakdown

at Annex I)

Performance Analysis in 2011

The actual performance of planting trees, shrubs and annuals generally met the target of 2011 through the effort of district staff.

Performance Targets in 2012

The Department's targets in 2012 are -

- to plant trees, shrubs and annuals up to 2.88 million; and
- to emphasise planting of flowering species with a view to enhancing the visual impact with more seasonal colours.

3.4 (III) Education and Promotion on Environmental Protection**(a) Horticulture Courses for the General Public**

Performance Targets (Year 2011)	Actual Performance (Year 2011)
<ul style="list-style-type: none"> • To organise 49 horticulture courses for 1 400 participants 	<ul style="list-style-type: none"> • Organised 49 courses for 1 396 participants

Performance Analysis in 2011

The courses were well-received by the participants.

Performance Targets in 2012

We plan to conduct 49 horticulture courses for 1 400 participants from the general public for the year 2012. Details of the courses are publicised in the "Community Recreation and Sports Programme" booklet and the Department's webpage.

(b) School Guided Visits

Performance Targets (Year 2011)	Actual Performance (Year 2011)
<ul style="list-style-type: none"> • To organise 600 guided visits for a target of 20 000 participants 	<ul style="list-style-type: none"> • Organised 598 guided visits for 19 800 participants

Performance Analysis in 2011

School children were guided around the Hong Kong Zoological & Botanical Gardens, Kowloon Park, Hong Kong Park, Tai Po Waterfront Park, Lower Shouson Hill Nursery and Tung Tze Nursery. The content of the talk delivered during the guided visit was designed having regard to the syllabus of the environmental education for primary schools, including the profile of plants and animals.

Performance Targets in 2012

We plan to conduct 600 visits for 20 000 primary school students in the year 2012. Programme details have been uploaded onto the webpage of the Department.

(c) Outdoor Education Activities for Kindergartens

Performance Targets	Actual Performance
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(Year 2011)	(Year 2011)
<ul style="list-style-type: none"> To organise 70 guided visits for 2 000 participants 	<ul style="list-style-type: none"> Organised 67 guided visits for 2 153 participants

Performance Analysis in 2011

Arrangement was made for children from kindergartens to join the guided tours around Kowloon Park and Hong Kong Park. Basic knowledge of plants was introduced. Children were also taught the manner and courtesy for visiting parks and the concept of environmental conservation.

Performance Targets in 2012

We plan to conduct 70 visits for some 2 000 participants in the year 2012.

(d) Conservation Courses for Boy Scouts and Girl Guides

Performance Targets (Year 2011)	Actual Performance (Year 2011)
<ul style="list-style-type: none"> To organise 12 courses for 300 participants 	<ul style="list-style-type: none"> Organised 12 courses for 334 participants

Performance Analysis in 2011

The programmes provided a wide range of courses in gardening and arboriculture for Boy Scouts and Girl Guides. They aimed at promoting the concept of nature conservation. Participants were involved in group discussions, lectures, guided visits and practical services.

Performance Targets in 2012

We will conduct 12 conservation courses for some 300 Boy Scouts and Girl Guides in the year 2012.

(e) Seminar and Gallery on Environmental Protection

Performance Analysis in 2011

- The Hong Kong Science Museum (“the museum”) staged exhibitions and organised lectures to arouse public awareness on environmental issues. They included the following –
 - from February to October 2011, the museum staged in its lobby an exhibition on “ *Global Warming and Climate Variation* ” ; and
 - the museum also presented public lectures on environmental issues, including “ *Global Warming and Climate Variation Seminar Series* ” from February to October 2011 and “*Wind, Fire, Water and Electricity – Our Living Environment Lecture Series*” in October 2011.
- The Hong Kong Space Museum, in collaboration with the Department of Physics of the University of Hong Kong, has been conducting the research project “*Hong Kong Night Sky Brightness Monitoring Network*” on light pollution since September 2010. Funded by the Environment and Conservation Fund initially, the project aims at carrying out a comprehensive monitoring of the condition of light pollution in Hong Kong by studying the night sky brightness at about 17

urban and rural locations, including the Space Museum, iObservatory and Astropark. Geographical variations and temporal characteristic of light pollution against both natural and artificial factors will be studied. Findings from the project would contribute to the overall environment of Hong Kong by promoting light pollution reduction and energy saving.

Performance Targets in 2012

The Hong Kong Science Museum will continue to organise lectures/seminars/exhibitions on environmental issues for schools and the public.

3.5 (IV) Greening Activities

Performance Analysis in 2011

Over 3 160 greening activities were organised, which exceeded the performance target of 3 090 for the year of 2011.

(a) Hong Kong Flower Show	The Hong Kong Flower Show 2011 was held from 11 to 20 March 2011 at Victoria Park attracting some 500 000 visitors. The Show aimed at promoting public interest in horticulture and arousing an awareness of the conservation of natural environment. Over 200 local and overseas horticultural organisations participated in the Show. A special display of <i>Codariocalyx motorius</i> was well-received by the visitors. Other major attractions included : (i) colourful garden displays and flower arrangements staged by horticultural organisations, plant nurseries and flower clubs; (ii) beautiful plant exhibits; and (iii) floral art arrangements entered for competition by individuals and schools. A wide range of educational activities, musical performances and entertainment programmes were also provided for the enjoyment of visitors.
(b) Community Planting Day	To promote public awareness in greening, the Department organised 21 Community Planting Days in 2011. A total of 4 960 participants planted about 26 000 trees and shrubs in 18 Districts.
(c) Green Volunteer Scheme	Under this Scheme, Green Volunteers were recruited in 18 Districts to undertake simple horticultural maintenance tasks in parks and gardens, and to serve as stewards in greening promotion activities. They were encouraged to participate in greening their own neighbourhood. A total of 481 greening activities were provided to the Green Volunteers with an attendance of about 7 150 recorded. The scheme was expanded through recruiting local celebrities as Green Ambassadors. In 2011, over 250 local celebrities joined as Green Ambassadors.
(d) Greening School Subsidy Scheme	The Scheme was launched for schools and kindergartens to implement planting projects in their campuses with technical advice from horticultural instructors, and to organise greening activities. It aimed at fostering green consciousness among students. This Scheme was very popular and attracted the participation of 867 schools and kindergartens in 2011.
(e) "One Person, One	The Scheme aimed at enhancing the knowledge of

Flower” Scheme	students about plants and cultivating their interests in growing them. In 2011, 363 000 seedlings were distributed for students to nurture at home or in school.
(f) Greening Hong Kong Activities Subsidy Scheme	The Scheme aimed at encouraging more greening activities organised by the local community. Eight organisations were subsidised under this Scheme in 2011 to organise greening activities.
(g) Greening Exhibitions and Talks	Greening exhibitions and talks on horticulture were organised at the Green Education and Resource Centre at Kowloon Park in 2011 with a view to educating and arousing public awareness in greening. A total of 440 exhibitions and talks were organised with about 38 000 participants.
(h) Community Garden Programme	To encourage the public to participate actively in greening activities at the neighbourhood level and to adopt greening activities as part of daily life, 50 gardening courses were organised in 2011 with over 10 800 participants.
(i) Outreaching Greening Promotional Activities	To promote greening and enhance public awareness in greening and environmental protection, 160 outreaching greening activities were delivered to organisations and schools for about 41 700 participants in 2011.

Performance Targets in 2012

The Department will continue to promote a green culture in the community through a series of educational and community involvement programmes. We target to organise 3 090 greening activities with 1 300 000 participants in 2012. Our plan is as follows –

(a) Hong Kong Flower Show	The Hong Kong Flower Show 2012 will be held from 16 to 25 March 2012 at Victoria Park and about 530 000 visitors are expected.
(b) Community Planting Day	A total of 24 Community Planting Days with 6 500 participants will be organised in 2012.
(c) Green Volunteer Scheme	Members of the public will be recruited as Green Volunteers in 18 Districts to perform simple garden maintenance in parks and playgrounds of the Department, and to serve as stewards in greening activities organised by the Department. A total of 460 voluntary greening activities with an anticipated attendance of 7 200 will be provided to the volunteers in 2012. In addition, the Scheme will recruit more local celebrities to join as Green Ambassadors.
(d) Greening School Subsidy Scheme	The Department aims at inviting 850 schools to participate in this Scheme in 2012.
(e) "One Person, One Flower" Scheme	The Department targets to distribute 360 000 seedlings to students in 2012.
(f) Greening Hong Kong Activities Subsidy Scheme	Eight applications for subsidy to hold greening activities are expected from local organisations in 2012.
(g) Greening Exhibitions and Talks	Greening exhibitions and talks on horticulture will be organised at the Green Education and Resource

	Centre in 2012 with a view to educating and arousing public awareness in greening.
(h) Community Garden Programme	Under the programme, 50 gardening courses with 11 000 participants will be organised in 2012.
(i) Outreaching Greening Promotional Activities	To promote greening and enhance public awareness in greening and environmental protection, the Department's target is to organise 155 outreaching greening activities in 2012.
(j) Best Landscape Award for Private Property Development 2012	This Award aims to sustain the betterment of living environment in private property and to promote excellence in greening by outstanding landscape design and horticultural maintenance. About 300 entries are expected.

(B) Preserving Assets of Our Heritage

3.6 The Department, through its Antiquities and Monuments Office (AMO), is committed to preserving Hong Kong's cultural heritage. Under the Antiquities and Monuments Ordinance, the Antiquities Advisory Board (AAB) advises the Secretary for Development, i.e. the Antiquities Authority, on matters relating to antiquities and monuments. The AMO works closely with AAB and acts as the Authority's executive arm under the Ordinance.

3.7 In addition, the AMO plays an important role in monitoring Environmental Impact Assessment projects insofar as their impact on antiquities and monuments is concerned. The work involves inspecting cultural heritage sites, examining mitigation measures to remedy any possible damage to the sites and conducting, where necessary, rescue excavations at archaeological sites and cartographic recording of historic buildings.

3.8 The AMO also organises educational programmes to promote heritage preservation among the public.

Performance Targets in 2011

3.9 The targets set for 2011 were -

- to declare three monuments under the Antiquities and Monuments Ordinance;
- to undertake 35 restoration, repair and maintenance projects for historic buildings/structures;
- to organise 1 000 heritage educational programmes; and
- to publish 14 publications.

3.10 It is the Department's conviction that cultural heritage is very much part of our physical as well as cultural environment. Not only does it enhance our built environment and the natural landscape, it also provides an essential, finite and irreplaceable link between the past, the present and the future. It forms the basic points of reference for our cultural identity and traditions.

Actual Performance in 2011

3.11 In 2011, three historic buildings including the fortified structure at No. 55 Ha Pak Nai in Yuen Long, King's College at No. 63A Bonham Road and the School House of St. Stephen's College at No. 22 Tung Tau Wan Road in Stanley were declared as monuments for permanent protection under the Antiquities and Monuments Ordinance.

3.12 The AMO carried out restoration and repair works on a number of historic buildings. Major projects included Green Island Lighthouse Compound, Chik Kwai Study Hall in Yuen Long, Morrison Building in Tuen Mun, Former Residence of Ip Ting-sz in Sha Tau Kok, Tai Fu Tai in San Tin, Tang Kwong U Ancestral Hall in Kam Tin, Tang Ancestral Hall in Ha Tsuen, Maryknoll Convent School in Kowloon Tong and St John's Cathedral and The Helena May in Central.

3.13 Archaeological investigations were also carried out in Tuen Mun, Yuen Long, Sai Kung, Sha Tau Kok and Lamma Island to prevent damage to underground archaeological deposits from infrastructural construction and small house development projects. A consultancy on the conservation and management of ancient rock carvings and inscription had been completed, followed by another study to design new protection and visitor facilities, based on the recommendations of the consultancy. The new design was supported by the AAB and will be implemented in phases. Besides, the AMO launched the Hong Kong Archaeological Archive in November 2011. The public can now browse the important archaeological finds discovered in Hong Kong through the website of the AMO.

3.14 On education and publicity, the AMO organised a wide variety of educational and publicity programmes, such as displays, lectures, guided tours and workshops, to promote heritage conservation. A long-term exhibition on the archaeological and built heritage has been staged in the Hong Kong Heritage Discovery Centre since mid 2011. In total, the office conducted 1 326 heritage educational programmes and produced 14 publications.

Performance Targets in 2012

3.15 The performance targets in preserving assets of heritage for 2012 are -

(a)	No. of buildings/structures declared as monuments	3
(b)	No. of restoration, repair and maintenance projects for historic buildings/ structures	35
(c)	No. of educational programmes	1 100
(d)	No. of publications	14

(C) Providing Aesthetically Pleasing Open Space

3.16 We achieve our objective through -

(I) Land Use Zoning and Acquisition of Land for Open Space Development

- We take an active role in negotiating with the Planning Department and Lands Department to acquire more quality and genuine open spaces at good locations with easy accessibility for recreational development.
- Special care has been and will continue to be taken to avoid taking over land which has either low potential for open space development or has excessive site constraints, such as steep slopes, drainage reserves, road reserves and polluted sites, for recreational use.
- As part of the Government's greening efforts, we have been working with the Civil Engineering Development Department to provide simple landscaping to vacant government land in prominent/strategic position with no imminent/known development programme in the near future.

(II) Design of Aesthetically Pleasing Open Space

- We ensure that soft landscape areas are maximised in passive recreation areas. In general, 85% of the site will be used as landscape area.

- Conspicuous flowering and shade trees, colour foliage and flowering shrubs of hardy species will be chosen to create colour contrast and seasonal changes.
- Through careful design, selection of heavy standard trees and increase of planting density, instant greening for new projects will be achieved.
- When planning new open space projects, the facility will be designed and constructed with consideration to its environmental performance, such as application of energy-saving building services installations and use of environmental-friendly materials (e.g. recycled plastic seating benches, refuse bins, etc). Wooden materials from regenerated forests will be used.

Actual Performance in 2011

3.17 In 2011, 19 open space projects (including capital works projects and minor works projects) were completed, resulting in an increase of about 14.47 hectares of open space in Hong Kong. A list of these projects is shown at Part (A) of [Annex II](#).

Performance Target in 2012

3.18 In 2012, 16 open space projects are scheduled for completion, providing an additional 7.35 hectares of open space. A list of these projects is shown at Part (B) of [Annex II](#). Apart from new open space projects, there are on-going improvement and upgrading works to existing parks and playgrounds.

(D) Practising Waste Reduction and Energy Saving

3.19 We proactively explore ways to promote waste reduction and energy savings, including conducting energy audits to identify good energy management practices.

3.20 Measures/housekeeping practices adopted in pursuing waste reduction and in saving energy and natural resources are shown below.

(I) On paper saving

3.21 Good practices for economy in the use of paper are set out in Administrative Circular No. 8/2000 and Circular Memorandum 2/2005, which are re-circulated to staff periodically as a reminder. We promoted “reduce and reuse” for saving paper. We met the target for shifting 70% of the total paper consumption from wood free paper to recycled paper. We also made the following endeavours in 2011 –

- (a) applications of PCs, Intranet and e-mail were widely adopted in the Department for internal and external communications, as well as conveyance of digital photographs and design works. This not only contributed to office efficiency, but also helped save paper;
- (b) our Information and Public Relations Section provided an electronic newspaper clipping service to the Department’s Lotus Notes users to ensure that the number of hard copies is kept at a minimum through share reading;
- (c) we produced e-versions of the departmental yearbook and departmental Christmas cards, with hard copies suspended;
- (d) we recycled paper and unserviceable library materials. In 2011, 679 373 kg of unserviceable library materials were recycled. In addition, the e-mail notification service provided readers with the option to receive overdue and reservation notices through e-mail and thus economised on the use of paper. As at 31 December 2011, about 287 000 registered borrowers have opted for the service;
- (e) museums and Hong Kong Film Archive also reduced waste by recycling

exhibition materials and placed collection boxes for collecting used guide maps/pamphlets disposed by patrons after their visits for recycling purpose;

- (f) performing arts venues and programming offices used electronic means to publicise performing arts programmes or to collect feedback. Printing of flyers and house programmes was reduced by tightly monitoring distribution. In addition, unused copies of flyers and house programmes were recycled; and
- (g) in line with the Government's initiative of paper saving, suppliers were encouraged to adopt environment-friendly measures in the preparation of tender/quotation documents (such as using recycled paper) and to minimise the use of packaging materials.

(II) On energy saving

3.22 We managed our resources responsibly with a view to preserving natural resources. We were mindful of our environmental objectives when planning new facilities and maintaining existing facilities. Energy-saving building services installations and environmental-friendly materials were considered. However, owing to opening of new facilities, higher utilisation of facilities, installation of additional equipment and change of chairmanship of Building Management Committee (BMC) in Municipal Services Buildings (MSBs) to LCSD¹, the total electricity consumption of the Department increased by 5.8% in 2011/12 when compared with 2010/11. The electricity consumption of the Department in 2011/12 was 366 581 989 kWh. The corresponding indirect emissions were 700 172 kg of sulphur dioxide (SO₂), 425 235 kg of nitrogen oxides (NO_x) and 21 995 kg of respirable suspended particulates (RSP)². Nevertheless, we have made the following endeavours to save energy –

1. The electricity consumption of the MSB is counted towards the department holding the BMC chairmanship.

2. The indirect emissions from electricity consumption are calculated according to the formulae set out in the Guide to Clean Air Charter Report Writing published by EPD in Jan 2008.

- (a) High-efficiency lighting systems (fluorescent tubes with electronic ballasts, motion sensors and optical fibres) were used to achieve energy savings as far as possible. The operating hours of venue lightings were rationalised where appropriate to reduce electricity consumption.
- (b) Generally, we maintained the 25.5°C office room temperature target set by the Government for the summer months. At places such as museums, libraries, sports centres and performing arts venues where we cannot strictly maintain this temperature because of essential operational and/or customer service reasons, we work closely with the Electrical and Mechanical Services Department (EMSD) to adjust the temperature to as close to 25.5°C as practicable.
- (c) We appealed for staff's support in adopting a more relaxed code of business attire and dress down in the summer for energy conservation and improving air quality in Hong Kong.
- (d) Administrative Circular on "Electricity Economy" and Office Green Tips were re-circulated to staff to promote energy conservation.
- (e) The following measures were adopted in leisure venues –
 - (i) switching off the lights for the facilities without booking;
 - (ii) shortening pre-cooling hours as deemed appropriate;

- (iii) regulating the air-conditioning supply in office area and vacant facilities by phases as deemed appropriate;
 - (iv) separating the lighting control at the arena by sections and lobbies to have a better control on the illumination level;
 - (v) separating the air-conditioning switches at different sports areas by individual switch controls so that the air-conditioning system would only be switched on when necessary to save energy;
 - (vi) regulating the air-conditioning temperature of lobbies and working area at 25.5°C to save energy;
 - (vii) adjusting the timer lighting schedule to fit seasonal need and installing astronomical time switches to the lighting at some parks and playgrounds so that the lighting would be switched on/off according to astronomical time of sunset and sunrise to save energy;
 - (viii) permanently switching off of lighting on external walls of some venues;
 - (ix) shortening the operation hours of water features;
 - (x) installing T5 or 2D lighting at arena of some sports centres;
 - (xi) installing 35W CDM-T energy efficient lamps at some parks and playgrounds to save energy;
 - (xii) switching off superfluous lights if the natural light penetrating through sky window could provide sufficient illumination;
 - (xiii) installing remote control devices in some parks to switch on/off park lights by mobile phone during inclement weather; and
 - (xiv) installing photocell control to automatically control the light in response to the intensity of the natural light.
- (f) The following measures were adopted in performing arts venues –
- (i) turning off the air-conditioning system in the main foyer half an hour/one hour before the close of the venue when there was no performance/activity in the venues;
 - (ii) shortening pre-cooling time of the air-conditioning system required on stage while maintaining fairly reasonable level of services;
 - (iii) maximising the use of natural light and turning off the lights in the venues where illumination level was acceptable;
 - (iv) gradually replacing the T8 by T5 fluorescent lamps for office area and hiring units; and
 - (v) gradually replacing the existing "EXIT" signs by energy-saving LED signs.
- (g) The following measures were adopted in Hong Kong Public Libraries –
- (i) switching off the lighting on external walls of some libraries;
 - (ii) maximising the use of natural light and turning off the lights in

- the libraries where illumination level was acceptable;
 - (iii) installing occupancy sensors on some floors to control the on/off of the lights;
 - (iv) adjusting temperature settings in working area to save energy on air-conditioning; and
 - (v) for Hong Kong Central Library, using solar control films for windows to reduce sun heat and replacing existing lighting with energy-saving lamps.
- (h) All museums continued to exercise the following tight measures on energy saving -
- (i) disconnecting/switching off some of the lights in illuminated area at the public corridors and office area;
 - (ii) for Hong Kong Heritage Museum and Hong Kong Science Museum, the replacement of existing T8 lighting with T5 lighting was completed for partial office area;
 - (iii) for Hong Kong Science Museum, using LED lamps in exhibition areas to replace incandescent lamp by phases;
 - (iv) for Hong Kong Visual Arts Centre, replacement of air-conditioning chiller system was completed to improve energy efficiency;
 - (v) for Flagstaff House Museum of Tea Ware, the replacement of LED lighting system inside galleries and air-conditioning chiller system in the old wing was completed to improve energy efficiency;
 - (vi) for Hong Kong Film Archive, the replacement of existing T8 lighting with T5 lighting was completed for partial office area;
 - (vii) switching off escalators during museum closing days when maintenance works were carried out;
 - (viii) switching on and off the lights in the public area by phases;
 - (ix) turning on and off the air-conditioning supply in office area by phases to reduce energy consumption;
 - (x) adjusting temperature settings in working area to save energy on air-conditioning;
 - (xi) installing speed control sensors for outdoor escalators; and
 - (xii) using energy-saving lamps in lifts, office and common areas.
- (i) Photovoltaic Systems were installed at the Hong Kong Science Museum, Hong Kong Museum of Coastal Defence and Hong Kong Museum of Art to promote the energy-saving concept by converting solar energy directly into electricity.
- (j) The following energy-saving initiatives were carried out at the headquarters building –
- (i) replacing the motors and controllers of all lifts with energy efficient models.
 - (ii) replacing the air handling unit of the Staff Recreation Room

- with energy efficient model;
 - (iii) using solar control window films at all windows of the building;
 - (iv) rationalising the number of fluorescent lamps at office area to lower the illumination level;
 - (v) installing occupancy sensors on all floors to control the on/off of the lights;
 - (vi) switching off part of the lighting at G/F entrance and lobby area;
 - (vii) using passenger sensors for the two escalators;
 - (viii) using timers to control the water flushing of urinals at male toilets;
 - (ix) suspending the operation of lighting at the open space car park and outdoor planter boxes;
 - (x) installing carbon monoxide (CO) and nitrogen dioxide (NO₂) sensors to control the speed of ventilation fan at the basement car park;
 - (xi) using separate electricity meters at G/F to 17/F to monitor the electricity consumption of individual floors; and
 - (xii) carrying out surprise checks outside office hours to ensure that any unnecessary equipment was turned off while not in use.
- (k) We regularly reviewed the lighting provisions in our venues with a view to reducing energy consumption as far as practicable. We took part in the lights out campaign of "Earth Hour 2011" organised by the World Wide Fund for Nature in March 2011. Save for operational needs and safety/security reasons, we switched off lights in the outer walls and outdoor areas of our venues all year round.
- (l) We appealed to colleagues to take part in the "Hong Kong No Air Con Night" organised by the Green Sense for turning off the air-conditioning at home for 12 hours from 7 pm on 29 September 2011 to 7 am on 30 September 2011.
- (m) We reminded our colleagues that in line with the mandatory Energy Efficiency Labelling Scheme under the Energy Efficiency (Labelling of Products) Ordinance, only the prescribed products (i.e. room air-conditioners, refrigerating appliances and compact fluorescent lamps) bearing Grade 1 or Grade 2 energy labels should be chosen.
- (n) We ceased the procurement of tungsten filament lamps unless justified on operational grounds.

(III) Other Green Measures

3.23 Other green measures adopted are listed below -

- (a) we exercised vigilance in the use of water by regulating outflow of water taps and replacing them with timer-taps at our offices and venues as far as possible;
- (b) we achieved water saving by planting drought tolerant species at suitable locations and using less water for water features in major parks;
- (c) we issued good practices in energy saving ([Annex III](#)) for operational

staff and contractors, who were constantly reminded to follow the good practices to achieve waste reduction and energy savings;

- (d) we promulgated on our Document Library a list of sales term contracts for waste disposal/recycling to facilitate the sale/recycling of unserviceable items;
- (e) we promoted the use of more green products, such as compost and environmental-friendly pesticide for plants;
- (f) we placed waste separation bins (including 3-coloured and 4-in-1 bins) at about 450 venues, including parks, playgrounds, sports grounds, beaches, swimming pools, sports centres, water sports centres, outdoor recreation centres, camps, other cultural venues and the headquarters building;
- (g) we posted up posters on waste reduction and recycling provided by the Environmental Protection Department at leisure and cultural venues;
- (h) for purchase of regulated products, we requested suppliers/manufacturers to provide the regulated products that are in compliance with the Volatile Organic Compound limit, including documentary proof in the quotation document;
- (i) we incorporated a provision in the cleansing and horticultural maintenance service contracts that contractors shall collect and sort all refuse in an environmental-friendly manner, and remove and dispose of the refuse properly in recyclable polythene bags; and
- (j) we reminded colleagues to help reduce the use of plastic shopping bags upon the commencement of the Environmental Levy Scheme on Plastic Shopping Bags on 7 July 2009, to reduce distribution of non-woven bags in publicly funded activities, and to seriously review the need of providing umbrella bags to the public on rainy days. If provision of umbrella bags was necessary, plastic recycling bins were provided, where appropriate, so that used umbrella bags could be properly collected and recycled.

(IV) Clean Air Charter

3.24 On 27 November 2006, the Chief Executive signed the Clean Air Charter on behalf of the Government at the "Business for Clean Air" seminar organised by the Hong Kong General Chamber of Commerce. The Charter was initiated by the business sector in support of the Government's appeal to improve air quality in Hong Kong.

3.25 We have a fleet of 153 vehicles. The total mileage was 1 946 728 km in 2011 and the fuel consumption was 382 800 litres. The related emissions were about 10 206 kg of NO_x and 845 kg of RSP³. In support of the campaign to improve air quality in Hong Kong, we have implemented the following measures –

3.The indirect emissions from vehicle fuel are calculated according to the formulae set out in the Guide to Clean Air Charter Report Writing published by EPD in Jan 2008.

- (a) we replaced two mobile library vans and two light trucks with Euro V vehicles in 2011. We also replaced a medium saloon car by an electric car in 2011. With the replacement of environmental-friendly and/or electric vehicles, emissions and fuel consumption will significantly be reduced;
- (b) we have a plan to replace some conventional retired departmental cars with fuel efficient and low emission environmental-friendly vehicles gradually; and

- (c) we regularly refresh all departmental drivers about eco driving skill and remind them of good practices in operating the vehicles for reducing emissions.

(E) Minimising Air and Noise Pollution in Organising Leisure and Cultural Activities

3.26 We monitored closely the generator and machinery installed for activities to ensure that dark smoke emission would not exceed the prescribed requirement as stipulated in the relevant Regulations.

3.27 We monitored the noise level of outdoor events and ensure that they were within the limits set in the relevant Regulations.

3.28 Following the amendments to the Smoking (Public Health) Ordinance (Cap 371) in 2006, statutory no smoking areas have been extended to cover all indoor workplaces and public places as well as some outdoor public places. The Department has implemented the smoking ban in these premises with effect from 1 January 2007.



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4.1 We will continue to work towards our environmental goal by -

- planting trees, shrubs and seasonal flowers with a view to enhancing the visual impact with more seasonal colours;
- focusing our efforts of greening promotion on two aspects : family participation and local participation;
- preserving more assets of our heritage;
- providing more aesthetically pleasing open space for the enjoyment of the community; and
- maintaining our efforts in practising waste reduction and saving energy and natural resources for promotion of a greener working environment.

4.2 We believe that with the targets and goals we set for ourselves, we will continue to contribute towards a more sustainable development in environmental protection in Hong Kong.

Comments and Suggestions

4.3 This report can be viewed at our homepage at www.lcsd.gov.hk. We welcome any comments and enquiries on this report. Please write to our Departmental Green Manager through any of the following channels –

Mail : 13/F, LCS Headquarters,
 1-3, Pai Tau Street,
 Shatin,
 N.T.

Fax : 2603 0642

E-mail : enquiries@lcsd.gov.hk



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Annex I

District	Summary of Massive Planting Programme 2011			
	Number of			
	Trees	Shrubs	Annuals	Total
C&W	14	134 284	83 237	217 535
Wch	25	84 527	13 122	97 674
E	10	41 825	13 172	55 007
S	4	21 585	13 072	34 661
SSP	49	98 416	14 831	113 296
YTM	35	239 496	45 446	284 977
KC	124	106 461	17 030	123 615
WTS	81	142 753	36 381	179 215
KT	41	110 639	4 805	115 485
Is	9	99 156	58 386	157 551
TM	48	97 515	19 466	117 029
YL	2	104 100	49 450	153 552
KwT	89	231 002	8 297	239 388
TW	10	101 808	22 831	124 649
N	108	118 428	37 746	156 282
TP	119	180 908	50 329	231 356
ST	101	93 788	12 821	106 710
SK	77	330 757	45 061	375 895
	946	2 337 448	545 483	2 883 877



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Annex II

A. Open Space Projects Completed in 2011

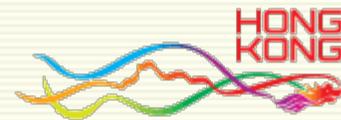
<u>Item No.</u>	<u>District</u>	<u>Project Title</u>	<u>Additional Open Space Area (ha)</u>
1	C&W	Tamar Park	1.76
2	C&W	Revitalization of Pak Tsz Lane	0.09
3	E	Aldrich Bay Park	2.20
4	YTM	Extension of Tsim Sha Tsui Promenade	0.59
5	KC	Hung Hom Promenade	0.62
6	WTS	Development of the vacant land (next to Fortune Garden) to sitting out area	0.03
7	WTS	District Open Space at Po Kong Village Road, Wong Tai Sin (Phase 2)	4.88
8	KT	Construction of Sitting Out Area at Ma Yau Tong West Former Landfill	0.05
9	YL	Construction of Basketball Court cum Sitting Out Area at Ko Po Tsuen, Kam Tin	0.24
10	YL	Local Open Space at Hung Tak Road, Hung Shui Kiu, Yuen Long	0.14
11	YL	Construction of Sitting-out area at Tin Tsz Road, Tin Shui Wai	0.54
12	KwT	Development of Open Space at Liu To Road near Mount Haven, Tsing Yi	0.24
13	N	Local Open Space in Area 25, Fanling/Sheung Shui	0.39
14	N	Living Environment Improvement Works at Man Kok Village, Sheung Shui	0.10

15	N	Provision of Basketball Court in Ka Fuk Area, Fanling	0.17
16	N	Provision of Leisure Facilities on Wah Ming Road, Fanling	0.03
17	TP	Development of an Open Space in Area 24, Tai Po	0.45
18	ST	Construction of Basketball Court in A Kung Kok Fishermen's Village	0.04
19	SK	District Open Space in Area 37, Tseung Kwan O	1.91
		Total	14.47

B. Open Space Projects to be Completed in 2012

<u>Item No.</u>	<u>District</u>	<u>Project Title</u>	<u>Additional Open Space Area (ha)</u>
1	C&W	Advance Promenade (including the Green Carpet Extension Area)	2.50
2	Wch	Revitalization of Harbour Road Garden	0.40
3	E	Provision of Colour-coated Hard Surface Soccer Pitch at Shau Kei Wan No. 2 Fresh Water Service Reservoir	0.51
4	YTM	A sitting out area at the junction of Nullah Road and Nathan Road	0.05
5	Is	Construction of Children Playground at Chung Wai Street, Area 25, Tung Chung	0.36
6	TM	Reconstruction and addition of recreational facilities at the roadside sitting-out area in Wing Fat Lane	0.09
7	YL	Conversion of ex-Wing Hing School, Pat Heung, into Sitting-out Area	0.18
8	YL	Construction of Sitting-out Area at Ha Mei San Tsuen Road	0.06
9	N	Provision of Sitting-out Area at Hang Tau Village, Sheung Shui	0.03
10	N	Beautification of access road between Ching Ho Estate and Kai Leng Village, Sheung Shui	0.06
11	N	Construction of Standard Gateball Court at Pak Fuk Tin Sun Playground, Fanling	0.05
12	TP	Improvement to the existing half-sized basketball court at San Tong Village, Tai Po	0.03
13	ST	Works on Improvement of the Vacant Site next to Vista Paradiso and Chung On	0.08

		Estate	
14	ST	Works on Improvement of the Vacant Site next to the Waterside and Kam Fung Court of Chung On Estate	1.29
15	SK	Sitting-out Area in Area 77, TKO	1.20
16	SK	Sitting-out Area at Fuk Man Road Nullah, Sai Kung	0.46
		Total	7.35



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Suggested Good Practices for Operational Staff and Contractors

- Choose energy efficient electrical appliances.
- Do without unnecessary electrical appliances, e.g. electric pencil sharpener.
- Use power-saving light bulbs.
- Reduce lighting to minimum level required for illumination.
- Switch off the air-conditioner and lights on leaving the room.
- Use lead-free petrol.
- Switch off vehicles or machines when not in use.
- Save paper, print or photocopy only when necessary.
- Write on both sides of every piece of paper before throwing it away.
- Reuse envelopes.
- Send waste paper for recycling.
- Use your own cup. Avoid throw-away paper cup and other utensils.
- Separate garbage in paper, can and bottle and send them to collection centres for recycling.
- Put used batteries in litterbins. Do not leave them outdoor or throw them into water.
- Do not smoke in public places.
- Save water. Turn off water taps when not in use. Repair leaked water taps as soon as possible.
- Minimise copies of circulars (e.g. by circulating a copy to staff).
- Reuse loose minute jackets.
- Avoid use of fax leader pages.
- Minimise copies of flimsies and reference copies at meetings.

- Photocopy on both sides of every piece of paper as far as possible.
- Photocopy on the unused side of waste paper for internal use documents.