Chapter Seven 第七章

CORPORATE ENVIRONMENTAL PROTECTION

企業環境保護

CORPORATE ENVIRONMENTAL PROTECTION

Environmental policy and objectives

In support of the Government's commitment to set a good green example in environmental protection, the Department implemented the Green Manager Scheme in November 1993 to enhance green housekeeping measures in the workplace.

In June 1996, the Department issued a policy statement on environmental protection and assigned a Departmental Green Manager to promote corporate green culture within the department, remind staff of the department's environmental policy, enhance their awareness in green housekeeping practices, encourage their participation in green management programmes, initiate new action plans where appropriate in supporting the Government's long-term strategy on environmental protection and monitor the implementation of various green measures. Since 1998, the Department has incorporated major green management initiatives and performance in its annual departmental report.

企業環境保護

環保政策及目標

為支持政府承諾成為環保典範,衛生署於 一九九三年十一月推行「環保經理計劃」 ,在工作場所加強落實環保措施。

衞生署於一九九六年六月發表環保政策聲明,並委任部門環保經理,推廣署內的企業環保文化,提醒員工本署的環保政策,加強其環保管理意識,並鼓勵他們參與環保管理活動;亦在適當地方發起新的行動計劃,以支持政府的長遠環保策略,並監察各環保措施的落實推行。自一九九八年起,各項主要環保管理提案及其成果均載述於年報內。

Staff participation

To enable the effective implementation of various green measures, staff's support and vigorous participation are of particular importance. In this regard, staff are always encouraged to give suggestions on new initiatives of green management through the Staff Suggestion Scheme. Over the years, many practicable green proposals put forth by staff have been adopted.

Heads of Service units have assigned energy wardens under their purview to monitor energy consumption in workplace and the implementation of various green housekeeping measures. By the end of 2006, over 200 energy wardens have been assigned.

Waste management

To enhance public awareness in separate waste recycling, the Department has participated in the "Waste Separation and Recycling Campaign" since 2002. In 2006, waste separation bins were placed in 19 clinics of the Department and office floors to enable separate collection of waste paper, aluminium cans and plastic bottles by waste collectors for recycling, and a total 12 802 kg of waste papers were collected for recycling. In addition, empty toner cartridges of colour printers and laser printers have been separately collected for recycling.

員工參與

為能有效地落實各項環保措施,員工的支持及積極參與尤其重要。在這方面,署方經常鼓勵同事透過公務員建議書計劃提出 有關環保管理的新建議。多年來,很多切實可行的環保建議亦已被採用。

各服務單位主管指派同事擔當能源管理人 ,以監察其管理範圍內的工作間的耗電情 況及各類環保管理措施的落實。現已有超 過200位同事擔當能源管理人。

廢物管理

為加強公眾對廢物分類回收的意識,本署於二零零二年開始參與「廢物分類及回收運動」。並於二零零六年在19間診所及辦公室樓層內設置廢物分類回收箱,以便廢物收集商分類回收廢紙、鋁罐及膠樽作循環再用。全年回收作循環再用的廢紙總數量為12 802公斤。另外,亦有分別回收用完的彩色打印機墨盒及鐳射打印機碳粉盒,作循環再用。

The Department follows the guidelines issued by the Environmental Protection Department (EPD) in segregation, packaging, labelling and storage of clinical wastes and chemical wastes. In this regard, clinical wastes, chemical wastes and domestic wastes arising from clinics or laboratories are segregated from each other. Clinical wastes such as sharps boxes, used dressings/swabs caked with blood and other potentially infected wastes are placed in red plastic waste bags, properly labelled, securely fastened and temporarily stored in the designated area before being carried away by clinical waste collectors for disposal. The designated area for clinical wastes storage is also provided with visibly clear warning sign, protected from water and rain, always kept clean and dry and secure from unauthorised persons.

本署依照環保署所發的指引處理醫療廢料 及化學廢料,包括分隔、包裝、標籤及儲 存。診所或實驗室產生的醫療廢料、化學 廢料及家居廢物,均分開處理。利器盒、 敷料/拭子、沾滿血液的醫療廢料及其他 可能受污染的廢物,均放進紅色塑料廢物 袋內。盛載醫療廢料的紅色塑料廢物袋須 貼上適當標籤,袋口須妥為紮緊,並在負 責收取醫療廢料的有關人員運走處置之前 ,移至指定地點暫時存放。用作暫放醫療 廢料的地方,亦要提供清晰可見的警告標 誌,防水防雨,並經常保持清潔乾爽,及 嚴禁未經授權人士進入。

To comply with the Waste Disposal (Chemical Waste) (General) Regulation, chemical wastes arising from clinics or laboratories are segregated from clinical wastes and domestic wastes, temporarily stored in a designated area which is only accessible by clinic staff and collected by the EPD's licensed collectors for disposal. Domestic wastes are placed in normal black plastic waste bags for disposal.

為遵守《廢物處置(化學廢物)(一般)規例》,診所及實驗室所產生的化學廢料要與醫療廢料及家居廢物分開處埋,並暫放在只准許有關職員進出的指定化學廢料儲存地方,由環保署發牌的化學廢物處理承辦商收集處置。一般家居廢物則放進黑色塑料廢物袋內以作處置。

Economical use of paper

The Department has adopted the following housekeeping measures to economise the use of paper:

節約用紙

衞生署採取了下列環保措施,以節約用紙:

- use blank side of used papers for printing or writing to reduce paper consumption;
- reuse envelopes and file jackets;
- use both sides of a paper for drafting and double-sided copying as far as possible;
- rollout e-Leave system for staff with electronic mail account to replace printed leave application form;
- avoid using fax leader page as far as possible;
- encourage staff to make better use of electronic means in disseminating health messages such as uploading publications onto departmental website and more frequent use of CD-ROM to keep printed publications to the minimum;
- maximise the use of Internet and electronic mail facilities for communication to replace hardcopies; and
- cease internal circulation of hardcopies of clinic time table, telephone directory etc to reduce paper consumption.

In addition, the Department has adopted the following green initiatives to save paper:

 In 2001, the number of electronic mail users in the Department was only 160. Through continued office automation, the number of electronic mail users in the Department has increased to 1 500 and 1 767 in 2005 and 2006 respectively. It is expected that the number of electronic mail users will further increase in 2007.

- 利用已用過紙張的空白一面作打印或 書寫用途,以減少用紙量;
- 信封及檔案夾再用;
- 盡量使用紙張雙面及雙面影印;
- 持有電郵户口的同事已採用電子處理 假期申請系統,以取代紙張印製的假 期申請表;
- 傳真時盡量避免附加面頁;
- 鼓勵同事多利用電子方式發布健康訊息,例如在部門網站上載刊物及較多採用製作光碟方式,以減少出版紙本刊物的數量;
- 增加互聯網的使用和以電子郵件通訊 ,取代紙張文件傳閱;以及
- 停印一些供同事內部傳閱的印刷品, 例如診所時間表及部門總部電話名冊 ,以減少用紙。

另外,衞生署也採取了下列的環保措施, 以節約用紙:

透過不斷加强辦公室電子化,衛生署使用電子郵件的人數由二零零一年的160人,增至二零零五年的1500人及二零零六年的1767人。預計於二零零七年,電子郵件用家人數會進一步增加。

 E-forms for various licensing applications of the Department have been made available to the public on the government's official website.

With staff's consort effort, the total envelopes and A4 papers consumption, as compared to 2005, was significantly reduced by 30% and 10% respectively in 2006.

Green purchase

The Department supports the use of recycled papers. In 2004, recycled papers contributed only less than 30% of the total paper consumption. Up to the end of 2006, over 80% of the total paper consumption was recycled papers. The use of non-recycled wood-free papers was reduced accordingly.

In addition, the Department has implemented the following green procurement initiatives to support the use of environmental friendly products:

- plain paper fax machines to replace thermo fax machines so that making a second copy of the thermo fax for filing purpose is not required;
- photocopiers with double-side copying feature;
- clinical waste bags and sharps boxes which are not made from polyvinylchloride (PVC) materials and are capable of safely incineration;

不同種類的衛生署牌照電子申請表格 也可從政府網頁下載。

由於員工的共同努力,本署於二零零六年的信封及A4紙張的總用量較二零零五年分別下降30%及10%。

環保採購

衞生署支持採用可循環再造紙張。於二零零四年,可循環再造紙張的使用量只佔整體的用紙量不足30%。直至二零零六年年底,可循環再造紙張的使用量已佔整體的用紙量80%以上。非循環再造的林木製紙張使用量也相應減少。

另外,本署亦有推行下列的環保物料採購 建議,以支持使用較具環保效益的產品:

- 採用普通紙張傳真機來取代熱能紙張 傳真機,因此無須把傳真本再影印作 存檔用途;
- 採用有雙面影印功能的影印機;
- 採用不含PVC塑膠物料並可安全焚化 的醫療廢物袋及利器盒;

- mercury-free blood pressure monitors and thermometers;
- LCD monitors to replace old CRT monitors for more effective energy saving; and
- recycled and reusable stationery and other office supplies such as refillable ball-pens, reusable toners and printer cartridges etc.

Environmental design in new projects

Green elements have been taken into consideration in the design of new clinic buildings, which include reducing the use of materials that could have adverse environmental impact and increasing the use of energy efficient plant and equipment. In accordance with standards of the Hong Kong - Building Environment Assessment Method for New Office Designs, the Public Health Laboratory Centre (PHLC) designed by the Architectural Services Department achieved excellent rating in terms of environmental performance in the building design based on assessment of the Business Environment Council. Credits of good environmental design of PHLC include:

 fitting with energy saving luminaries, heat recovery systems and energy efficient airconditioning electricity consumption to reduce electricity energy consumption;

- 採用不含水銀的血壓計及温度計;
- 採用更具節能效益的液晶顯示器來更 換老化極射線顯像管顯示器;及
- 採用可回收及循環再用的辦公室文具物資,如可更換筆芯的原子筆、可循環再用的打印機墨盒及鐳射打印機碳粉盒等。

新建築項目的環保設 計

在設計新診所大樓時,亦會考慮到環保元素,包括減少使用對環境有害的物料和增加使用具能源效益的設備及器材。本署的公共衞生檢測中心由建築署負責設計;經商界環保協會按照香港建築環境新辦公大樓設計評估法,作出環保設計評估後,該中心獲評定為最高優秀級別的環保設計建築物。該中心的出色環保設計包括:

配備節能照明系統、熱能循環再用系統及有能源效益的空調系統,以減低耗電量;

- adopting non-ozone depleting refrigerants and thermal insulation materials for building fabrics to avoid ozone depletion; and
- providing designated facilities and area for the storage and collection of recyclable materials.

提供特定設施及地方,供存放與回收 可循環再用的物料。

材料,以免損耗臭氧層;及

採用不損耗臭氧層的雪種及隔熱建築

Energy conservation

The Department has adopted the following energy saving measures:

- de-lamping lights to the minimum required for illumination and switching off lights and non-essential electrical appliances while not in use;
- conducting energy audit survey for individual clinic buildings of high energy consumption to identify practical and effective energy saving measures;
- modifying group lighting switches to individual switches;
- installing air curtains at clinic entrances to prevent infiltration of un-treated hot and cold air from outside;
- replacing magnetic ballasts by electronic ballasts and change T8 fluorescent tubes by the more efficient T5 fluorescent tubes;
- replacing conventional illumination signs of emergency exit in clinics by LED signs to step up measures in achieving energy saving; and

節約能源

衞生署採取了下列節省能源措施:

- 將燈光調配至最低照明水平;在無需使用時,關掉非必要的電燈及電器設備;
- 為個別耗電量大的診所大樓進行能源 審核調查,確定有效可行的節能措施;
- 將分組式燈光開關改為獨立式開關設計;
- 在診所入口加裝風閘,以防止滲入未經處理的外來熱及冷空氣;
- 以電子鎮流器取代用電量較高的磁鎮 流器,並以效能較高的T5螢光管取代 T8螢光管;
- 為加強節約能源,增多採用耗電量較低的發光二極管(LED)指示燈取代現時裝置在診所內的傳統緊急逃生指示燈;以及

 maintaining indoor temperature at 25.5°C during summer months for general offices and public areas equipped with air-conditioning facilities provided that the normal operation of essential medical services will not be affected.

As PHLC accounts for approximately one-third of the total energy consumption of the Department, the following improvement works have been carried out to the building

 installing separate A/C on/off and temperature controls in the conference room and the multi-functional hall;

to further enhance energy saving:

- replacing tungsten halogen lamps at conference rooms with cool light type energy saving lamps;
- installing solar filtering films to interior of window glass panels for critical areas facing sunshine to reduce indoor temperature due to solar heat load; and
- rescheduling and optimising the operation of chiller plant, electrical and mechanical (E&M) plant and other building services facilities such as lifts.

After implementation of a series of energy saving measures, the electricity consumption of PHLC in 2006 was 16 888 027kWh, which is equivalent to a significant drop of 12.9% as compared to 2005.

 在不影響重要醫療服務正常運作的 情況下,把一般辦公室及公眾地方 ,在夏季月份的室內空調温度,保 持於25.5℃的水平。

公共衛生檢測中心約佔衛生署整體用電量 三分一。為進一步節能,本署已為該中心 大樓完成以下的改善工程:

- 為會議室及多用途會堂加裝獨立的空調開關及室温控制;
- 採用較省電的冷光類節能燈泡,取代 會議室內的鹵素燈泡;
- 在面向陽光照射的玻璃窗內側加裝濾 陽光片,以減低太陽熱能的室温效應 ;以及
- 調校製冷、機電機組及樓宇內如電梯等的其他機電設施,以達至最佳的運作效益。

當一連串的節約能源措施落實後,公共衞生檢測中心於二零零六年度所錄得的總用電量是16 888 027kWh,較二零零五年下降12.9%。

In 2006, the overall energy consumption of the Department was 59 089 712kWh, which represents a 1.14% drop as compared to the previous year. From 2003 to 2006, an accumulative drop of 4.42% in electricity consumption was recorded despite those factors which had unavoidably caused increasing demand in the use of electricity over the period, such as launching of new services, service expansion, new venues, additional E&M facilities and electrical equipment. Upon completion of all retrofit projects for enhancing energy efficiency and with the implementation of green housekeeping measures, it is expected that further energy saving can be achieved.

本署於二零零六年整體的用電量是 59 089 712kWh,較二零零五年下降 1.14%。由二零零三至二零零六年間,雖 然有一些無可避免令用電需求增加的因素 出現,如新增加的服務、現有服務擴展、 新使用的樓宇及新添置的機電設施及電器 等,但仍錄得4.42%的累積用電量度減幅 。當完成所有可提高能源效益的裝設項目 ,並配合其他環保管理措施的推行,預計 可進一步節省本署整體的電力消耗。

Air quality improvement

Being the Government's health adviser, the Department has been taking a leading role in the smoke-free workplace policy since 1982. This policy has been applied to all institutions of the Department since 1996.

From both the green management and the infection control aspects, adequate fresh air ventilation in the working environment of clinics and health centres is important for protecting the health of staff and the public. Since 1999, Indoor Air Quality (IAQ) tests and cleaning of air-duct of A/C systems have been conducted by the Electrical and Mechanical Services Department (EMSD) periodically

改善空氣質素

作為政府的衞生事務顧問,本署率先自 一九八二年起推行無煙工作間政策。此項 政策亦由一九九六年起在本署轄下所有服 務單位執行。

在環保管理及感染控制方面,診所及健康中心的工作環境內須有足夠鮮風流通量,這對保障員工及市民的健康十分重要。自一九九九年開始,機電工程署已分階段為本署轄下各診所及辦公室,定期進行室內空氣質素測試及空調系統的風槽清潔工程,以提高空調系统的操作效能,並確保有足夠的鮮風流通量。截至二零零三年年底,所有辦事處及診所服務單位已完成室內

for clinics and offices of the Department to enhance the operational efficiency of A/C systems and to ensure adequate fresh air ventilation. By the end of 2003, IAQ tests and air-duct cleaning works were completed for all offices and clinic units once. Periodic IAQ tests and air-duct cleaning works were then repeated for selected venues of the Department each year. In 2006, EMSD had conducted the second round of IAQ tests and air-duct cleaning works for 14 venues.

空氣質素測試及風槽清潔工程。並在往後每年為一定數目的辦事處及診所服務單位再次進行定期空氣質素測試及風槽清潔工程,以確保室內空氣質素。於二零零六年期間,機電工程署已在14個地點進行第二次的室內空氣質素測試及風槽清潔工程。

To support reducing air pollution caused by exhaust emissions of vehicles, the Department has taken the following measures: 另外,本署亦已採取以下措施,支持減低 因汽車排放廢氣所產生的空氣污染:

- encouraging staff to make use of public transport while performing outdoor duties; and
- advising all drivers to switch off the car engine while waiting and issuing circular at regular intervals to remind them of this.
- 鼓勵外勤工作員工盡量使用公共交通 工具,以及
- 指示所有司機停車熄匙,並定時發出 通告提醒各司機職系同事。