

Environmental Report 2016



Education Bureau

Environmental Report 2016

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Foreword

Maintaining an environmentally friendly surrounding is crucial to the development of our future generations. As a standing policy, we are committed to conserving our environment through various means and delivering our services in an environmentally responsible manner. To take this forward, we undertake to promote environmental education in schools, nurture civic responsibility and an environmentally responsible attitude among our young generation, initiate housekeeping measures to preserve common resources and fully comply with environmental legislation.

The objective of this report is to outline our policies and management measures with respect to environmental issues, our performance in 2016 and our direction for the coming year.



Controlling Officer's Profile of Key Responsibilities

The Education Bureau is responsible for formulating and reviewing education policy and overseeing the effective implementation of education programmes. We are also the School Sponsoring Body for 34 primary schools and 31 secondary schools in Hong Kong.

The Education Bureau seeks to provide quality education for Hong Kong's students, to develop their potential to the full and to prepare them for challenges in life.

The Bureau had an establishment of 5 598 permanent posts as at 31 December 2016. Our offices are located in 21 venues throughout Hong Kong. We strive to deliver professional services and ensure effective use of resources.



Environmental Policy

Our environmental policy is to promote environmental education in schools, to maintain a management system to improve the environmental quality of our activities, to adopt responsible environmental housekeeping practices, to enhance our staff's environmental awareness and to comply with relevant legislation and codes of practice.



Key Environmental Performance in 2016

(A) ENVIRONMENTAL EDUCATION

Our mission is to enhance students' environmental awareness through education and enlist their participation in conserving the environment. To take this forward, we adopt a cross-curricular approach in the promotion of environmental education and promote school-based and action-oriented activities.

To fulfill the goal of promoting environmental education, various initiatives have been undertaken. They include:

- ✚ issuing curriculum guides and other reference materials to promote environmental education in schools;
- ✚ producing multimedia packages and education television programmes on environmental education;
- ✚ organising school events on environmental education together with various government departments and green groups;
- ✚ incorporating appropriate environmental education elements in school syllabuses at all levels and updating curriculum guides and exemplars to assist schools in planning environmental education programmes; and
- ✚ supporting the “Greening for the Chest” Campaign organised by the Community Chest of Hong Kong.



1. Interaction with Schools

(a) School Inspections and Visits

We conducted 7 school visits on General Studies for Primary Curriculum in 2016 giving advice to teachers on the implementation of environmental education. Schools were also encouraged to formulate an environmental school policy and implement measures on energy conservation.

(b) Provision of Resources to Schools

✚ 6 Professional Development Programmes related to environmental education were provided for Liberal Studies teachers. The programmes covered environmental issues in Hong Kong, the Mainland of China and other countries, such as energy and sustainable development in China and overseas experience in achieving sustainable communities, etc.



✚ 20 teaching packages and resources materials were provided for Liberal Studies teachers on social issues related to the environment and sustainable development, such as air pollution and solid waste management.

✚ The Education Television (ETV) Unit produced two ETV programmes on environmental protection in 2016, namely “晚上的太陽(光污染)” and “固體廢物的處理”.



- ✚ A total of 4 training programmes in the form of seminars and visits on Education for Sustainable Development were organised. Schools' good practices on green school policies and food waste reduction were disseminated.
- ✚ Three teacher development programmes were conducted in the 2015/16 school year to equip them with the skills in organising life-wide learning activities related to environmental education.
- ✚ A seminar on “Learning on Waste Reduction and Recycling in Schools for Promoting Education for Sustainable Development” was conducted. Clean recycling and green lunch practices as well as experience of schools on promoting waste reduction and recycling were disseminated.
- ✚ A Web-based Environmental Education Learning Package on “Education for Sustainable Development in Schools in Hong Kong” was developed.
- ✚ We supported schools in organising Outdoor Education Camp Scheme (OECS) which enhanced students' awareness of environmental protection. Related themes or activities include “Nature and I”, “Science and Ecology Trips”, “Climatology, Geography and Ecology Study Camps”, etc. Some schools also adopted environmental protection as the main theme of the outdoor education camps such as “Green Living” and “Saving Energy”.
- ✚ A total of 80 945 students, including 29 658 secondary and 51 287 primary students from 901 schools (364 secondary and 537 primary schools), participated in the OECS in the 2015/16 school year.



(c) School Activities to Promote Environmental Awareness

✚ Funding was provided for 400 school visits to the Mai Po Nature Reserve.

✚ Student Environmental Protection Ambassador Scheme (SEPAS) 2016/17

- ✚ SEPAS was organised in collaboration with EPD and the Environmental Campaign Committee to promote environmental protection in schools. The main theme in 2016/17 was “Nature and Biodiversity”.



- ✚ A total of 366 primary and secondary schools participated in the Scheme. As at September 2016, 10 328 Student Environmental Protection Ambassadors (SEPAs) were appointed to assist the teachers in organising environmental education activities. The SEPAs, schools and families were encouraged to adopt a greener lifestyle through waste reduction and recycling.

✚ Fifteenth Hong Kong Green School Award Scheme (15th HKGSAS)

- ✚ This award was organised in collaboration with the EPD and the Environmental Campaign Committee to promote environmental protection in schools.
- ✚ A total of 228 pre-schools, primary and secondary schools participated in the Scheme.

- ✿ The following government schools were awarded the title of “Hong Kong Green School”:

<p>Hong Kong Green School -</p>	<ul style="list-style-type: none"> ✿ Fanling Government Primary School ✿ Helen Liang Memorial Secondary School (Shatin) ✿ Hoi Pa Street Government Primary School ✿ Homantin Government Secondary School ✿ N.T. Heung Yee Kuk Yuen Long District Secondary School ✿ South Yuen Long Government Primary School ✿ Tseung Kwan O Government Primary School ✿ Yuen Long Public Secondary School
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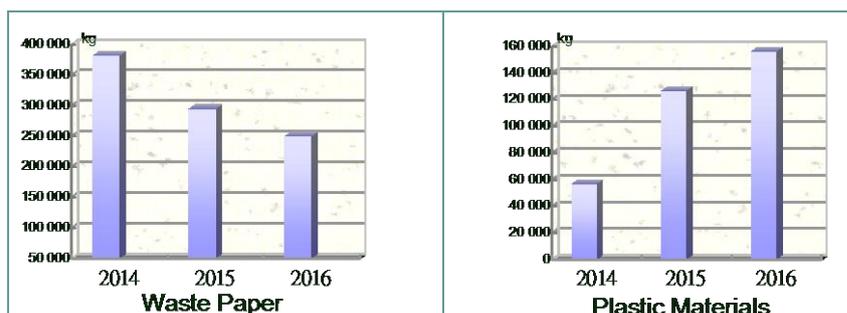
✚ Inter-school Cross-curricular Project Competition on Climate Change 2016-17

- ✚ The Competition has been accredited as one of the 20th Anniversary Celebration events of the HKSARG, as well as an event under the “Climate Ready@HK” Campaign.
- ✚ The Competition invited all primary and secondary school students to produce small inventions or propose innovative ways to enhance Hong Kong’s mitigation, adaptation and resilience actions on climate change.
- ✚ A total of 103 primary and secondary schools forming 138 teams joined the Competition, with 21 teams of primary and secondary students receiving awards on “Best Invention”, “Best Investigative Study” and “Outstanding Geographic Information System (GIS) Application”.
- ✚ To facilitate students’ understanding of the measures and mechanisms adopted by different places to combat climate change, EDB organised three green study trips for the winning teams to Seoul, Qingdao and Guangzhou.
- ✚ The winning projects will be exhibited at the Student Fair on Science, Technology and Mathematics, as well as other local and international platforms.



✚ Waste Separation and Recycling Scheme in Schools

- ✚ Under the Scheme, we worked together with the Environmental Campaign Committee to promote the concept of “4Rs”, i.e. reusing, reducing, recycling and replacing disposable products. As at the end of 2016, the participating schools collected about 249 668 kilograms of waste paper and 156 167 kilograms of plastic materials.



- ✚ In addition, about 6 436 kilograms of metal was collected.



2. Building Partnerships

We collaborated with various government departments and relevant green groups to promote environmental protection. We participated in the following working group, committees and task force in 2016 to provide advice on the organisation of school activities and production of resource materials to schools:

+ Community Involvement Committee on Greening

+ Environmental and Conservation Fund Committee

+ Environmental Campaign Committee

+ Environmental Campaign Committee Environmental Education & Community Action Projects Vetting Subcommittee

+ Environmental Campaign Committee Education Working Group

+ Hong Kong Green Building Council (HKGBC) - Public Education Committee

+ World Wild Fund for Nature Hong Kong Education Committee

+ Environmental Protection Department – Task Force on Clean Shorelines Online Teaching Platform



(B) GREEN MANAGEMENT FRAMEWORK

To put in place an effective management framework, Principal Assistant Secretary (Administration) has been appointed the Green Manager of the Bureau to oversee environmental protection issues. Under her chairmanship, a cross-divisional Bureau Green Management Working Group with representatives from all divisions set up since 1999 has been overseeing the implementation of green housekeeping programmes. Apart from serving as the focal point for directing and addressing energy and environmental management issues and strengthening green efforts in the Bureau, the Working Group also initiates and monitors the progress of green measures and reviews the overall strategy for green management in the Bureau.



A two-tier Energy Manager Scheme has been introduced to promote and monitor green measures in the Bureau:

1. Green Managers at Divisional Level

14 Energy Managers have been appointed at divisional level to oversee the implementation of energy-saving and green measures.

2. Assistant Energy Managers and Green Executives at Sectional Level

Environmental audit and inspection teams with 43 Assistant Energy Managers and 47 Green Executives have been set up at sectional level to perform energy conservation duties and implement green measures, such as conducting regular checks, tendering advice to staff concerned and monitoring energy consumption. They function as Energy and Emission Management Teams to co-ordinate measures to reduce energy and paper consumption.

Furthermore, electricity consumption of all offices is critically reviewed and closely monitored at the Green Management Working Group meetings conducted on a bi-monthly basis.

Energy and Carbon Audit

We worked closely with Electrical and Mechanical Services Department (EMSD) to identify new energy saving opportunities. EMSD completed energy audits in the Bureau offices in Wu Chung House and Kowloon Tong Education Services Centre in 2016 and conducted energy audit in Central Government Offices in Tamar in 2016. Energy audits were also completed for three government primary schools in 2016. Carbon audit for the Bureau offices in Central Government Offices has been carried out since 2013 as an on-going measure. In 2016, Environmental Protection Department (EPD) assisted three government primary schools in conducting carbon audits using paper approach. According to the completed carbon audits, the average carbon emission per m² of the three government schools was 0.06 tonnes CO₂-e/ m²/ annum in the financial year (FY) 2015-16. We have also taken various measures, including removing part of the fluorescent lamps in over-lit areas, switching off some passenger lifts during non-peak hours and adding occupancy sensor control in toilets, to implement the recommended energy saving proposals.

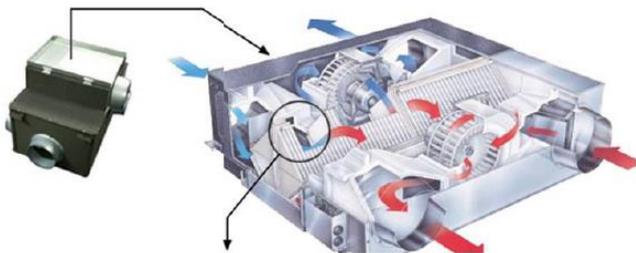


(C) IN-HOUSE HOUSEKEEPING MEASURES

1. Design and Construction Works for New Schools

We introduced various environmentally friendly initiatives in design and construction works of new school buildings, including:

- reduction in noise, air and water pollution during construction through implementation of mitigation measures;
- use of renewable energy (e.g. photovoltaic system) and alternative source of water (e.g. treated rain water) as far as practicable;
- reduction in construction waste by using more precast and prefabricated building elements;
- increased application of re-usable materials, in particular metal framework, site hoarding and recycled products;
- improvement to indoor air quality by installing fresh air pre-conditioners in classrooms and using low volatile organic compound-emitting building materials;



- use of environmentally friendly refrigerant for air-conditioners;

- use of energy-saving devices such as sun shading on external elevations, occupancy sensors, photo-sensor controlled lighting, T5 fluorescent tubes with electronic ballasts, LED exit signs, variable refrigerant volume air-conditioning system and fresh air pre-conditioners;



- use of water-saving devices such as dual-flush cisterns and sensor-taps for wash basins;



- increased landscaping in school playgrounds and upper levels and roof floor of school (including vertical greening) for a greener environment in schools and campuses;



- provision of varied plant species and designated green areas in schools to foster students' interest in natural science and enable students to develop horticultural skills;



- provision of adequate space and waste separation bins to facilitate separation, collection and storage of recyclable materials for recycling;
- use of shared facilities among schools which has enabled a greener and more spacious environment in these schools;
- introduction of hygiene improvement measures to schools, including toilet provision without main entrance doors and hand-washing facilities in playgrounds; and
- provision of Central Food Portioning Area to facilitate the use of re-usable cutlery and food containers and to reduce food wastage.



Water cooled VRV system



Hybrid type lamp pole



Hybrid type solar energy collector



Sunlight collector



Mono-crystalline PV panels



Mono-crystalline PV panels with sun tracking



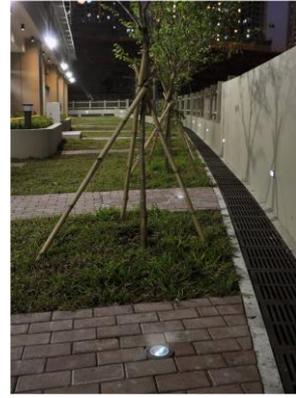
Small scale wind turbine



Semi-transparent amorphous PV panels



Solar powered LED bollard light



LED accent lighting

2. Issue of Circulars to Schools

To help alleviate the problem of global warming, we issued circulars to remind all schools to maintain air conditioning temperature at 25.5°C with a view to reducing the emission of carbon dioxide in Hong Kong. We required all schools through circulars to formulate a school-based environmental policy and implement effective measures for energy saving to help improve air quality. An environmentally friendly lifestyle among students has also been promoted via a circular on green lunch and reduction of food waste in school issued in June 2016. Under the ‘Greening for the Chest’ Campaign collaborated by our Community Youth Club, we encouraged schools to support the green campaign of 2016-17 through EDB Circular Memorandum No. 130/2016.

Ref: EMB(SAS) ADM/150/5/39/1 (5) Government of the HKSAR
Education and Manpower Bureau
21 November 2006

Education Bureau Circular No. 12/2006
(Formerly referred as EMB Circular No. 12/2006)

Environmental Policy and Energy Saving Measures in Schools

[Note : This circular should be read by –
(a) Supervisors/Heads of all schools – for necessary action; and
(b) Heads of Sections – for information.]

SUMMARY
This circular reminds schools to formulate an environmental policy and implement measures for energy saving.

DETAILS
Environmental Policy for Schools

2. To improve our environment and secure sustainable development for our future generations, schools are urged to formulate a school-based environmental policy. The aims of the policy are to enhance environmental awareness, develop environmentally friendly attitude, promote green practices and environmental education as a whole. The environmental policy should, inter alia, lay down schools' commitment to improve their environmental performance, schools' mission and vision towards environment protection. Aided, government, caput and Direct Subsidy Scheme schools should include plans/programmes that work towards their goals set out in the environmental policy in their Annual School Plans and report the progress in their Annual Reports. For details on the formulation of the policy, schools may refer to Chapter 2 of "Heading Towards a Green School Policy - A Guide to Environmental Management in Schools" available at the website of the Environmental Campaign Committee (http://www.ecc.org.hk/english/core/core_detail.php?id=49).
(Core Projects > Hong Kong Green School Award > Heading Towards a Green School - A Guide to Environmental Management in Schools)

Energy Saving

3. Energy conservation and efficiency not only contribute to a better environment for the community but also help reduce unnecessary spending on energy bills. In fact,

Ref: EMB(SAS) ADM/150/5/39/1 (5) Government of the HKSAR
Education and Manpower Bureau
26 May 2006

Education Bureau Circular No. 7/2006
(Formerly referred as EMB Circular No. 7/2006)

Air Conditioning Temperature in Schools

[Note : This circular should be read by –
(a) Supervisors/Heads of all schools – for necessary action; and
(b) Heads of Sections – for information.]

Summary
This circular requests heads of schools to step up their effort in maintaining air conditioning temperature at 25.5 °C.

Details

2. Electricity generation accounts for the emission of 92% of sulphur dioxide, half of nitrogen oxides and respirable suspended particulates in Hong Kong. Reducing the consumption of electricity can directly improve the air quality and help combat the problem of global warming. Air conditioning accounts for about one-third of the total power consumption of Hong Kong, costing some \$10 billion per annum. An increase of one degree in air-conditioning temperature can reduce electricity consumption by as much as 3%. If the whole of Hong Kong turns the air-conditioning temperature up by one degree, we can together reduce the emission of carbon dioxide by some 250,000 tonnes a year.

3. According to studies by the American Society of Heating, Refrigerating and Air-conditioning Engineers, under normal circumstances, more than 90% of people would feel comfortable with a room temperature of 22.5 °C to 25.5 °C. Maintaining the room temperature at 25.5 °C not only provides a comfortable environment, but also helps improve our air quality by reducing energy consumption. In fact, keeping the room temperature at around 25.5 °C or above is a practice already adopted by the Mainland, Japan and the USA.

4. Heads of schools are urged to maintain the temperature of their air-conditioned premises at 25.5 °C. For details on energy and resources saving measures, please visit the following websites:
(i) http://www.epd.gov.hk/epd/english/how_help/ips_saveenrth/green_tips_1.html or
(ii) <http://www.emb.gov.hk/index.aspx?nodeID=2794&lang=0-1>.

M Y CHENG
for Secretary for Education and Manpower

EDUCATION BUREAU
CIRCULAR MEMORANDUM NO. 130/2016

From : Secretary for Education To : Heads of all Primary and Secondary Schools

Ref. : EDB/ESP/CYC/24/3(10)

Date : 8 September 2016

“Greening for the Chest” Campaign 2016/17

Summary
The Community Chest of Hong Kong is organizing a “Greening for the Chest” Campaign to help improving the environment of Hong Kong and to raise funds for The Community Chest. This Campaign is collaborated by the Education Bureau's Community Youth Club (CYC). Heads of schools are requested to encourage their teachers and students to support by organizing teams to participate in the Campaign.

Details

2. The “Greening for the Chest” Campaign 2016/17 will include the following activities:
Fund Raising Activities
(a) Cleaning for Charity, Hiking for Charity and Green Acts for Charity
(b) Charity Plant Sale

Details of these activities and the application forms provided by The Community Chest are attached.

3. Schools interested in participating as school-based joint school teams in the fund raising activity in paragraphs 2(a) & (b) above are requested to complete and return the attached Form 1 by email (email: greenging@communitychest.org) or by fax (no. 2566 1201) to The Community Chest of Hong Kong **on or before 28 October 2016**.

4. **CYC member schools** that wish to join the district-based teams organized by the CYC District Executive Committees **need not** complete the forms. Details will be announced by the relevant CYC District Executive Committees at a later stage.

5. A poster and leaflet for this Campaign prepared by The Community Chest will be sent to schools by mail. Schools are requested to display the poster at a prominent place in the campus.

Enquiry

6. For enquiry, please contact The Community Chest Office at 2599 6111 or the CYC Office at 2892 6660.

Ms Eileen WONG
for Secretary for Education

c.c. Heads of Sections - for information

Ref: EDB(SAS1)/SA/POL/10(I) Government of the HKSAR
Education Bureau
1 June 2016

Education Bureau Circular No. 3/2016
Arrangements for Green Lunch and Reduction of Food Waste in School

[Note : This circular should be read by –
(a) Supervisors and Heads of all primary and secondary schools and kindergartens for necessary action, and
(b) Heads of Sections for information.]

SUMMARY
This circular serves to provide schools with practical guidelines on green lunch and reduction of food waste in school. This circular supersedes Education Bureau (EDB) Circular No. 18/2009 dated 3 September 2009 and should be read in conjunction with Education Bureau Circular No. 17/2009 on Meal Arrangements in School.

DETAILS

2. Appropriate green lunch arrangements in school are conducive to promoting an environmentally friendly lifestyle among students. To realize the concept of green lunch, schools should follow the principle of reducing waste and minimizing wastage at all times.

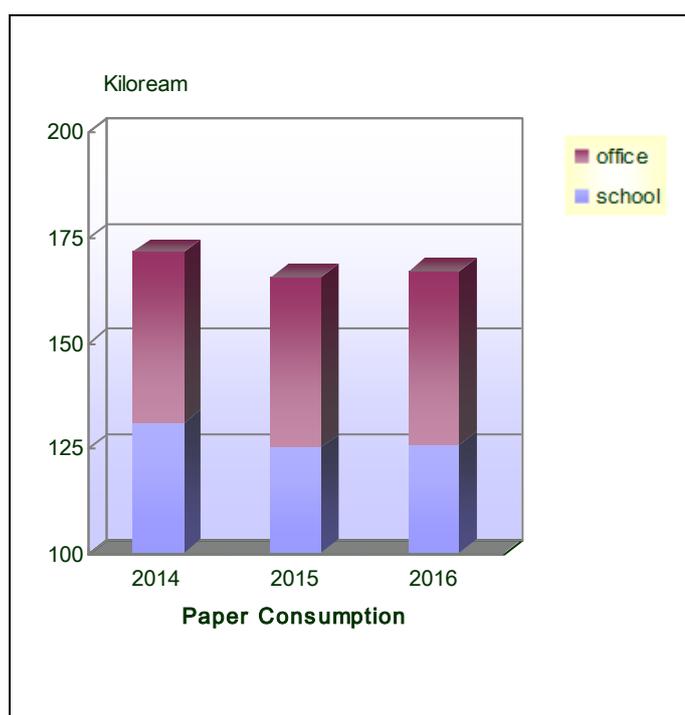
3. Schools are requested to adopt/continue with the following practices:

(a) To use reusable food containers and cutlery;
(b) To facilitate students to bring and use reusable cutlery given to them. If spare sets of cutlery are provided to students who have forgotten to bring their own, they should also be reusable;
(c) To implement on-site meal portioning as far as practicable. If situation of the school does not allow students to take meal in a designated dining area, students taking their meal portioned in classrooms should be considered as an alternative where appropriate;
(d) To portion out food in a flexible manner. If on-site portioned meal service is adopted, schools should avoid serving excessive food to

3. Consumption of Resources

(a) Saving Paper and Electricity

We are making continuous efforts in economising the use of paper and reducing electricity consumption. Compared with last year, the paper consumption was increased by 0.9%. The slight increase was mainly attributed to expansion of some divisions and major events of some government schools.



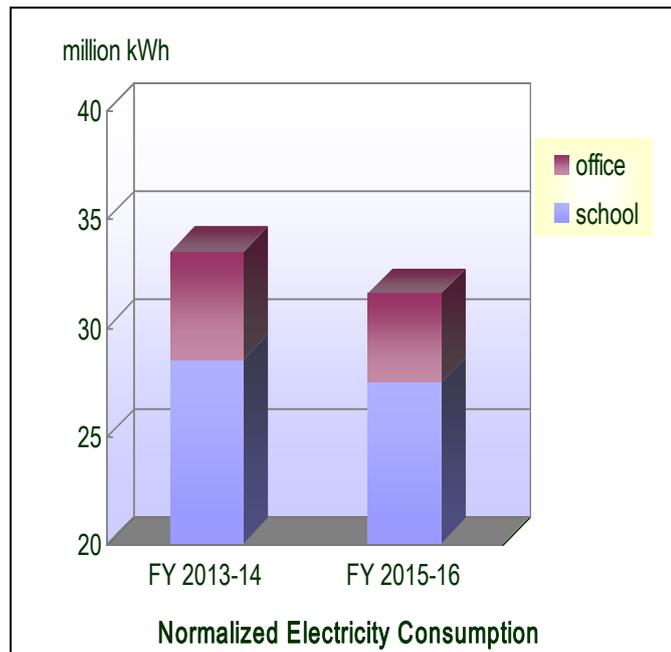
Electricity consumption of our government buildings in FY 2015-16 is compared with the base line in 2013-14 below:

	Electricity consumption (million kWh)	Electricity consumption under comparable operating conditions (million kWh)
FY 2013-14 (base line)	33.4	Not applicable
FY 2015-16	34.4 (+3.0%)	32.1 (-3.9%)

As set out above, electricity consumption of our government buildings was increased by 3.0% from FY 2013-14 to FY 2015-16, taking into consideration the major factors such as

the change in premises, additional number of staff, increased utilisation of facilities and increased departmental activities.

Under comparable operating conditions of FY 2013-14, saving in electricity consumption in FY 2015-16 was 3.9%, after implementing housekeeping measures, including shortening of operating time of the central air-conditioning system and switching off of air-conditioning in the facility/meeting room right after use, etc.



We shall continue to maintain our efforts to achieve savings in electricity and paper consumption.

(b) Conserving Energy

We shall continue to adopt energy-efficient measures and sustain our efforts in reducing energy consumption.

- Energy saving fluorescent tubes with electronic ballasts and light bulbs are used in our offices as far as possible.



- We have been strictly following the Government's policy to maintain the ambient office temperature at 25.5 °C.



- Electricity consumption reports were compiled on a quarterly basis. Internal energy audits were conducted periodically.
- Moreover, our ITM Division has deployed server virtualisation technology and cloud services to reduce energy consumption. This also reduces the need to procure new IT equipment.
- At present, there are over 500 virtual servers in the Education Bureau. There are also 6 systems running in the cloud environment of the service providers. We shall continue to deploy technologies to reduce energy consumption where applicable.



4. Reduction of Air Pollution

(a) Use of Fuel Efficient Types of Vehicles

Vehicular emissions are the major local source of air pollution and reducing emissions from vehicles is an effective way to improve air quality. We have been using unleaded petrol for our vehicle fleet since 1991.



We have gradually replaced all of our six vehicles by environment-friendly petrol saloon cars with lower emissions and more fuel-efficient engines over the past years. Among those, five are equipped with a ‘hybrid system’ which combines a gasoline engine and electric motor power to improve fuel economy and minimise emission of polluting particles.

(b) Promotion of Green Driving

To reduce idling emissions and achieve fuel saving, our drivers are regularly reminded to strictly comply with the requirements set out in the Motor Vehicle Idling (Fixed Penalty) Ordinance against idling of motor vehicle engines. Frequent surprise inspections have been conducted to ensure compliance.



(c) Economical Pool Car Resources

Furthermore, we have been practising car pooling and task combination, i.e. to achieve multiple objectives in one journey instead of arranging separate trips. Whenever circumstances permit, “car pool” arrangement would be made to reduce the use of vehicles and at the same time to meet transport demands of different users.

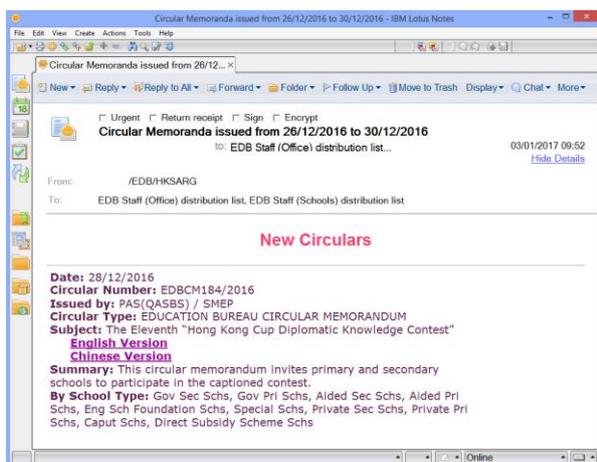


5. Highlights of Other Green Measures in 2016

We have all along adhered to the 4Rs principles of “Reduce, Re-use, Re-cycle and Replace disposable products” and focused on minimising waste and implementing various green measures on an on-going basis.

(a) Minimising and Reducing Wastes

Using Electronic Means of Communication



- With a view to promoting paperless operation in our daily work and reducing the use of paper, staff in the Bureau are provided with email accounts and use of electronic mails has become the most popular means of communication in the Bureau.

- Staff in the Bureau are provided with Intranet accounts. The Intranet platform has been widely used to disseminate Bureau information including telephone directory, updates on grade management statistics, training activities, newsletters, etc. and process administrative and personnel matters, e.g. booking conference rooms, processing leave applications and processing applications for training courses. We encourage staff to exchange documents through electronic means.



(b) Re-use and Waste Recycling

As an integral part of our green strategy, we have put in place the following recycling program:

Green Purchasing

- In procurement of products, we took into account environmental factors such as recyclability and energy efficiency as far as applicable. We also purchased green products like re-cycled ink and toner cartridges.
- We supported procurement of green products for use in the Bureau. In arranging tenders, we included common environmentally friendly terms such as trade-in clauses, recycling arrangements, etc. as far as practicable. Trade-in arrangements for supply of ink and toner printer cartridges were arranged. In this connection, a total of 2 738 used cartridges were returned to the suppliers concerned for recycling or public auction in 2016. Furthermore, we collected a total of 1 496 pieces of computer waste for recycling either by contractors under the disposal contracts or through public auction.
- When inviting tenders for new cleansing contracts for our offices and schools, we required tenderers to include use of recycled/bio-degradable plastic bags and approved cleansing chemical and materials in the service schedule.



Collecting Waste



- We joined the EPD's "Programme on Source Separation of Commercial and Industrial Waste" and provided green boxes in offices and schools for collection of papers, plastic and aluminium wastes for recycling.
- We collected a total of 185 677 kilograms of waste paper for recycling throughout the year.
- We participated in the "Waste Check Charter" launched by the EPD and actively promoted waste reduction and recycling through waste reduction plan and waste measurement in Central Government Offices and Kowloon Tong Education Services Centre.



Use of Recycled Paper

- Following the EPD's recommendation of wider use of recycled paper, we consumed 79 752 reams of recycled papers in 2016.
- We continue with our efforts in reducing paper consumption and measures such as printing on both sides of paper and reusing envelopes.



Improvement in Indoor Air Quality

- Under the EPD's Indoor Air Quality (IAQ) Certification Scheme, offices in the Central Government Offices in Tamar have obtained the "Excellent Class" IAQ Certificate while offices in Wu Chung House and the Kowloon Tong Education Services Centre have obtained the "Good Class" IAQ Certificate in 2016. We will continue to monitor the indoor air quality regularly to ensure the IAQ meets the standard promulgated by the EPD.



Promotional Green Activities

- We organised a series of activities to promote green management in the Bureau in 2016, including:

(i) ***The Seventeenth Paper Saving Competition***

- We organised the seventeenth Paper Saving Competition to promote paper saving in daily operation among colleagues working in government schools and offices.



Prize

Best Performance
Award in Paper Saving

Best Progress Award in
Paper Saving

Winning Teams

- Further and Higher Education Branch
- Tsuen Wan Government Secondary School

- Further and Higher Education Branch
- Lung Cheung Government Secondary School

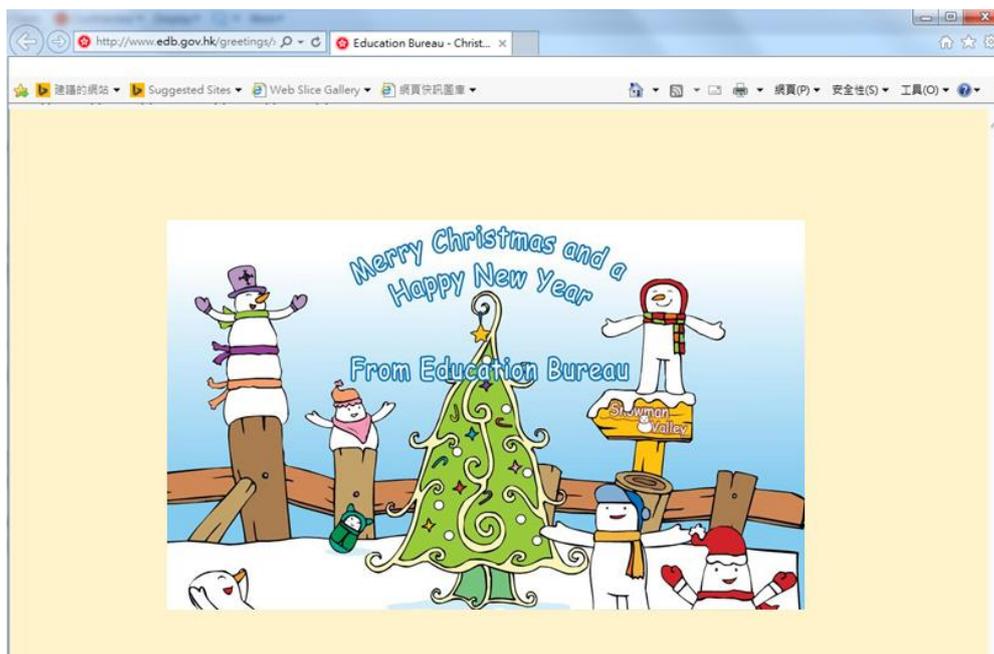
(ii) Green Christmas

- In the exercise of “Donation of Clothing, Small Electrical Appliances and Toys” launched during Christmas 2016, we collected clothing, small electrical appliances and toys from colleagues for recycling donation to the Salvation Army.



(iii) Electronic Christmas Cards

- As one of our paper-saving measures, we used e-cards to send Christmas and New Year greetings to our working partners. Staff was also encouraged to use the GovHK Internal e-Card Platform to distribute e-cards.



Promotional Messages on Newsletter and Bureau Intranet

- To encourage direct participation by colleagues and appeal for their support and contribution in protecting the environment, we disseminated green messages and notices and green tips in the Bureau's newsletter "EDB Pulse" and other internal publications through the EDB Intranet.



2016年1月號
EDB Pulse Quarterly Staff Newsletter

咪咗嘢校園減廢大獎

粉嶺聖立小學 周建輝主任

今年初，我校在第一屆的「咪咗嘢校園減廢大獎」比賽中，榮獲了金獎最傑出表現大獎——小學組冠軍。這是全校師生努力的成果。

「咪咗嘢校園減廢大獎」是「香港綠色學校獎」去年為中、小學新增的特別獎項，旨在鼓勵學校以量化方法深化惜物減廢的文化，並為將來都市固体废物按量收費作好準備。參與的學校需自行計算廢物數量，尋找辦法減少廢物。

我們參與這項活動的目的是希望提高學生的環保意識，培養學生在日常生活中養成良好的環保習慣。這項活動正好配合新設的校本德育課，培養學生建立

在德育、國民及公民中的七大價值觀：堅毅、尊重他人、責任感、國民身份認同、承擔精神、誠信及關愛。另外，培養學生正面價值觀、有禮貌和公德心也是學校關注事項之一。

我們全校在2014年11月至2015年4月期間，參與「咪咗嘢校園減廢計劃」每星期在環保大使的協助下固定兩天量磅學校的風能廢物，環保大使也協助量磅垃圾。在成效方面，學校的人均垃圾量由0.16公斤減至0.11公斤，減幅超過百分之三十，可見共同努力，便能達到校園減廢的目標。

我們從四方面推行減廢計劃，包括宣傳環保訊息、安排環保講座和周會、在校本德育課程中多加入環保議題，及參與校內外有關環保的活動和使用相關環保設施。

- 宣傳環保訊息**：我們設有環保大使，負責宣傳環保的訊息及量磅學校風能廢物，他們每天輪流當值，及拍製短片，向全校同學介紹實際可行的環保方法，例如不浪費紙張、少用膠樽膠袋等。
- 安排環保講座和周會**：我們為學生安排了不同類型的環保講座及周會，增加並鞏固學生環保意識，更安排不同環保組織到校舉辦講座，包括「設定一生」、「廢物減廢」、「凱不禮會」等。
- 優化德育課**：在校本德育課程中的環境範疇加入「環保教育」例如「健康的我」、「清潔校園」、「廢物回收，人人有責」、「我參加了廢物回收活動」、「危機」等，同時，學校在各科相關的課程上再滲入環保教育。
- 積極參與校內外活動和使用相關環保設施**：本校全方位推動環保教育，參加或舉辦多樣化的環保活動，例如「膠樽回收計劃」、「校服回收計劃」、「清潔比賽」、「全校清潔日」、「環保紙回收活動」、「外資源口號創作比賽」、「保護水資源大賽」、「環保親子吊鉤創作」、「香港綠色日」等。

教育局脈搏

我積極的參與，是因為我們重視現今全球污染嚴重，地球暖化，很多生態已漸改變，正如



一代能提高環保意識，培養他們在日常生活細節中去實行環保的生活。

環保的重視，讓我們共同身體力行去活出環保，來年我們仍會繼續參加各式各樣的環保活動，也會延伸至家長層面，希望家長們也注意環保。

環保大使隊長心得：

徐曉琳 SA
我出席環境運動委員會舉辦的議事禮拜，見到不同學校都積極推動環保，使我意識到如果要有良好的生活環境，現在開始便要養成「環保」的習慣。

巫顯怡 SB
我當值時是負責管理膠樽回收箱的，雖然我們已拍製影片，展示了膠樽回收的正確步驟，可是開始的兩三個月仍常有不能正確回收膠樽程序，幸好最後幾大部分同學都能給當值老師。

林曉蓮 SD
當我當值時見到北堤棉棉園綠地種便覺得可惜，因為人蹟不環保，不愛摧殘大自然，令很多動物消失，如果我們能注意環保，便可以讓我們繼續看到珍貴動物。

The 7th Inter-Government Secondary Schools English Debating Competition

NG Yin-ling, Irene (King's College) for the Organising Committee

Initiated and sponsored by the Association of Principals of Government Secondary Schools, the Inter-Government Secondary Schools English Debating Competition is entering its seventh year. This year, King's College has joined the Organising Committee as the coordinator of this annual debate tournament. Also with the support of Homantin Government Secondary School, Lung Chung Government Secondary School, Queen Elizabeth School, Shau Kei Wan Government Secondary School, Sir Ellis Kadoorie Secondary School (West Kowloon), Tsuen Wan Government Secondary School and Tuen Mun Government Secondary School, the 7th Inter-Government Secondary Schools English Debating Competition is now underway.

This annual Inter-Government Secondary Schools Competition aims to provide all round training to improve students' language, debating, analytical and organisational skills, as well as foster friendship among students of different government secondary schools. Since 2011, this Competition has been providing an excellent platform for students to gain more debating and public speaking experiences with the rigors and challenges that come with a highly competitive setting. Most importantly, the Competition has nurtured groups and groups of talents in school debate and it has become a renowned academic event among all government secondary schools.

The competition will be conducted on a knockout basis and will progress from the Preliminary Round, Quarter-Finals, Semi-Finals to Grand Finals for both Stream A and Stream B. Invitation letters and more details will be sent to each school in January 2016 and the fixtures will be decided by lots drawn at the Briefing Session which will be held in February 2016 at King's College.

Over the years, we received an overwhelming response from most of the government secondary schools. Last year, almost two-thirds of the schools and more than 80 debaters joined the Competition. We look forward to having more schools to join and more students to benefit this year.

Way Forward

We fully recognise the importance of environmental protection and green management. The Bureau will continue to devote efforts and resources to maintaining a high level of green management practice and setting a good example to the community.



In terms of education, we will continue to encourage schools to develop a green culture, and to equip students with the knowledge, skills and attitude to become environmental-friendly citizens. To support schools in environmental education, we will continue to provide a broad range of services including school visits, teacher education programmes, territory-wide green activities, and learning and teaching resources.

Within the Bureau, we will strive to reduce electricity consumption having regard to actual operational requirements and will implement energy saving proposals / projects according to the recommendations of energy / carbon audits, e.g. installation of lift regenerative device, improvement of efficiency of chiller plants.



TARGETS FOR 2017

Our targets for promotion of environmental education in the 2016/17 school year are as follows:

<i>Key Action Area</i>	<i>Targets for 2016/17 School Year</i>
<ul style="list-style-type: none">■ Conducting school inspections and visits to give advice on environmental education■ Organising school activities to enhance students' awareness of environmental protection	<ul style="list-style-type: none">■ To advise schools on environmental education during school visits and other learning experience activities■ To fund 400 school visits to the Mai Po Nature Reserve■ To organise activities in collaboration with various government departments and non-government organisations to promote green living■ To subsidise schools through the "Outdoor Education Camp Scheme" with the aims to deepen students' understanding and love of the nature as well as enhance their awareness of environmental protection
<ul style="list-style-type: none">■ Providing advice on organisation of school activities and production of resource materials for schools to promote environmental protection	<ul style="list-style-type: none">■ To enrich the web-based learning and teaching resources, such as the life event exemplars relating to environmental education



In conducting our business, we will continue to economise on the use of resources and minimise waste. In the coming year, we will continue to:

1. initiate and promote environmental-friendly housekeeping practices;
2. conduct indoor air quality check and devise more effective measures to improve air quality;
3. implement housekeeping measures and best practices for energy savings and conduct energy / carbon audits where necessary with a view to achieving energy saving;
4. implement improvement measures to achieve further energy conservation according to the recommendations of energy audits or carbon audits;
5. promote and encourage saving of paper among staff through organising activities and publishing encouraging messages in internal publications;
6. promote the use of electronic means of communication within the Bureau; and
7. organise activities and training to promote staff's awareness and participation in green management.



Contact Us



If you have any comments/suggestions, please send them to the Centre Manager (Address: Room E301, East Block, Kowloon Tong Education Services Centre, 19 Suffolk Road, Kowloon Tong, Hong Kong; Email address: edbinfo@edb.gov.hk; Fax no.: 2117 0081). Thank you.

