



Hong Kong Sustainable Campus Consortium

Annual Report 2016/2017



香港城市大學
City University of Hong Kong

專業 創新 胸懷全球
Professional Creative
For The World



香港浸會大學
HONG KONG BAPTIST UNIVERSITY



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The Chinese University of Hong Kong



香港教育大學
The Education University
of Hong Kong



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



香港科技大學
THE HONG KONG UNIVERSITY OF
SCIENCE AND TECHNOLOGY



香港大學
THE UNIVERSITY OF HONG KONG

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Message from Convenor

I am pleased to present the Annual Report 2016/2017 of the Hong Kong Sustainable Campus Consortium (HKSCC), which tracks the sustainability performance of the eight University Grants Committee (UGC) funded universities in 2016/2017.

From academics to daily operations, sustainability touches almost all aspects of our member universities. Thanks to the HKSCC, we have been making ongoing efforts to exemplify sustainability practices on our campuses. The HKSCC serves as a solid platform for exchange of knowledge, ideas, good practices and experiences among members, and provides opportunities for us to work together to develop collective sustainable strategies for the tertiary education sector.

Under the 2017 convenorship, the HKSCC, together with its Task Force on Sustainability Performance (TFSP), held a total of seven meetings to discuss about the collaboration between member universities towards sustainable campuses. Most excitingly, we have come to a mutual agreement on setting a collective target of a 20% reduction in aggregate greenhouse gas (GHG) emissions by 2020/2021 based on the 2015/2016 level, which aligns with government's GHG goal. Furthermore, we initiated a joint disposables campaign to reduce the consumption of plastic straws, which is expected to be launched in March 2018.

We will continue to pursue sustainable issues in depth and different horizons. With concerted efforts, we look forward to deepening collaboration among member universities and expanding our influence throughout the city in future.

Ms. Sarah Man Yee WONG

Convenor of Hong Kong Sustainable
Campus Consortium 2017

Vice-President (Administration) &
Chair of Health, Safety and Environmental
Committee
The Education University of Hong Kong



HKSCC Membership & Meetings

The Hong Kong Sustainable Campus Consortium (HKSCC) consists of sixteen representatives from eight member universities funded by the University Grants Committee (UGC) (see Appendix 2A). In 2017, the convenor role was taken up by the Education University of Hong Kong (EdUHK), which provided administrative and secretarial support to the HKSCC and its working group, the Task Force on Sustainability Performance (TFSP) (see Appendix 2B). Throughout the year, HKSCC and TFSP held three and four regular meetings respectively (see Appendix 1), with the major focuses on

- Setting a collective greenhouse gas (GHG) emission reduction target for the tertiary education sector
- Addressing the challenges of implementation of municipal solid waste charging scheme on campuses
- Organizing a joint disposables campaign to reduce plastic waste





The 23rd HKSCC Meeting



Visit to EdUHK's Eco-garden

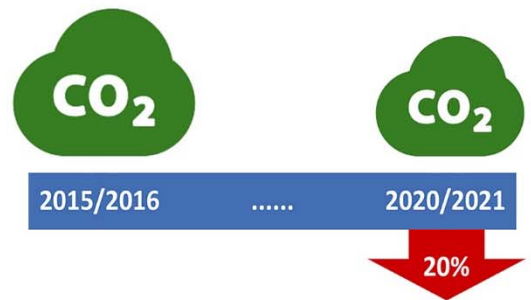


Members of Task Force on Sustainability Performance

Collaborative Accomplishments

GHG REDUCTION TARGET

The HKSCC supports the Government’s latest emissions target set out in the *Hong Kong’s Climate Action Plan 2030+*. In 2017, we carried out a study to project our forthcoming emissions and set a medium-term collective target for the tertiary education sector – aiming to reduce aggregate greenhouse gas emissions by 20% by 2020/2021 (from the base figures of 2015/2016).



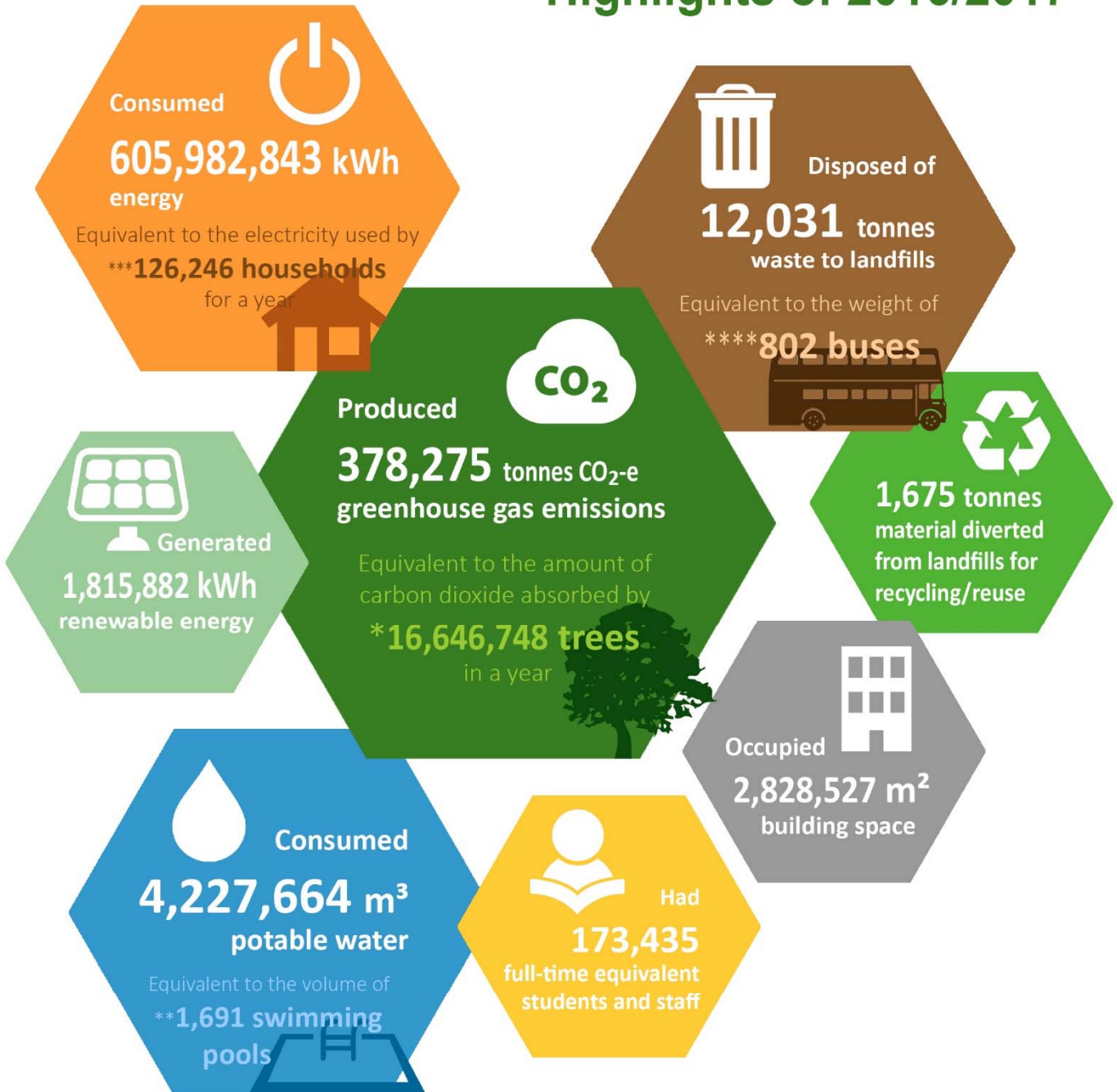
JOINT DISPOSABLES CAMPAIGN – UNify: SKIP THE STRAW

Inspired by HKU’s Ditch Disposable campaign, the HKSCC initiated the first joint-university disposables campaign to leverage a long term behaviour change towards minimizing plastic waste. As one of the top ten contributors to marine debris, plastic straws became the first target of the campaign. The eight member universities co-organized ‘UNify: Skip the straw’ in the week of 12-16 March 2018. Throughout the event week, all on-campus catering outlets only gave out straws upon request. The campaign was a great success, with an estimated 76,653 disposable straws saved from landfills during the week.



Sustainability Figures - At a Glance

Highlights of 2016/2017



NOTES:

Reporting Period: 1 July 2016 - 30 June 2017

* A mature tree absorbs 23kg of CO₂ per year (Carbon removal factor adopted by ISO-14064)

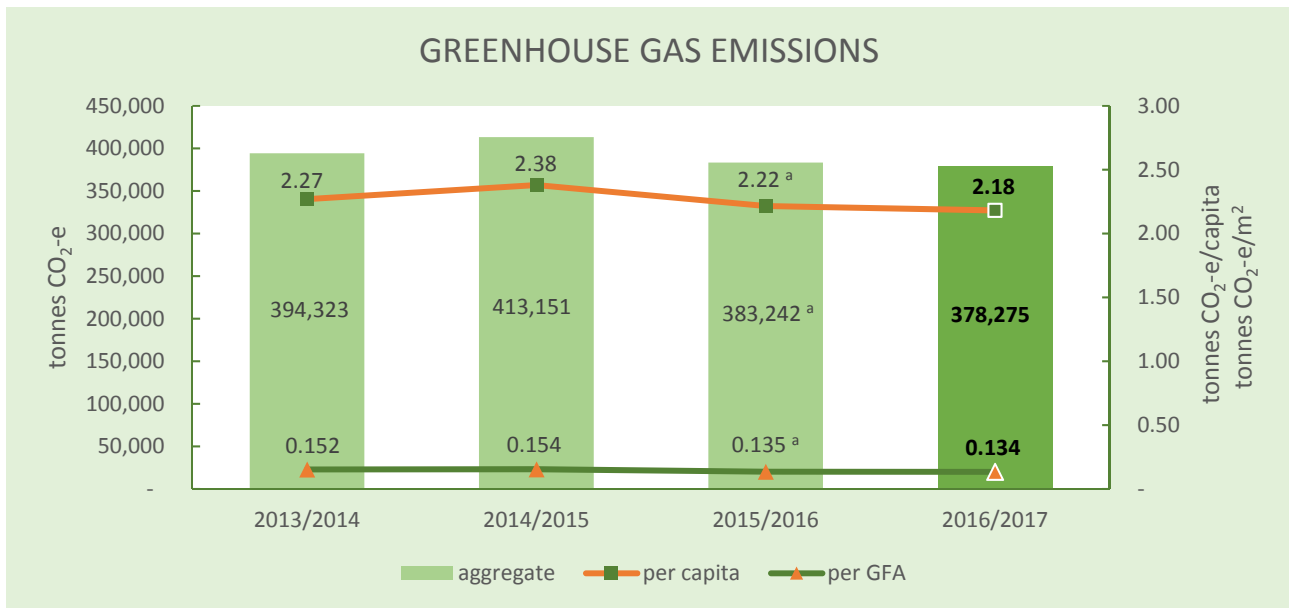
** The volume of standard Olympic-size swimming pool is 2,500m³

*** The average household electricity consumption in Hong Kong is about 4,800kWh per year

**** The average weight of a double decker bus in Hong Kong is 15 tonnes



Sustainability Figures - Greenhouse Gas Emissions



^aREMARK: 2015/2016 greenhouse gas emissions figures have been adjusted.

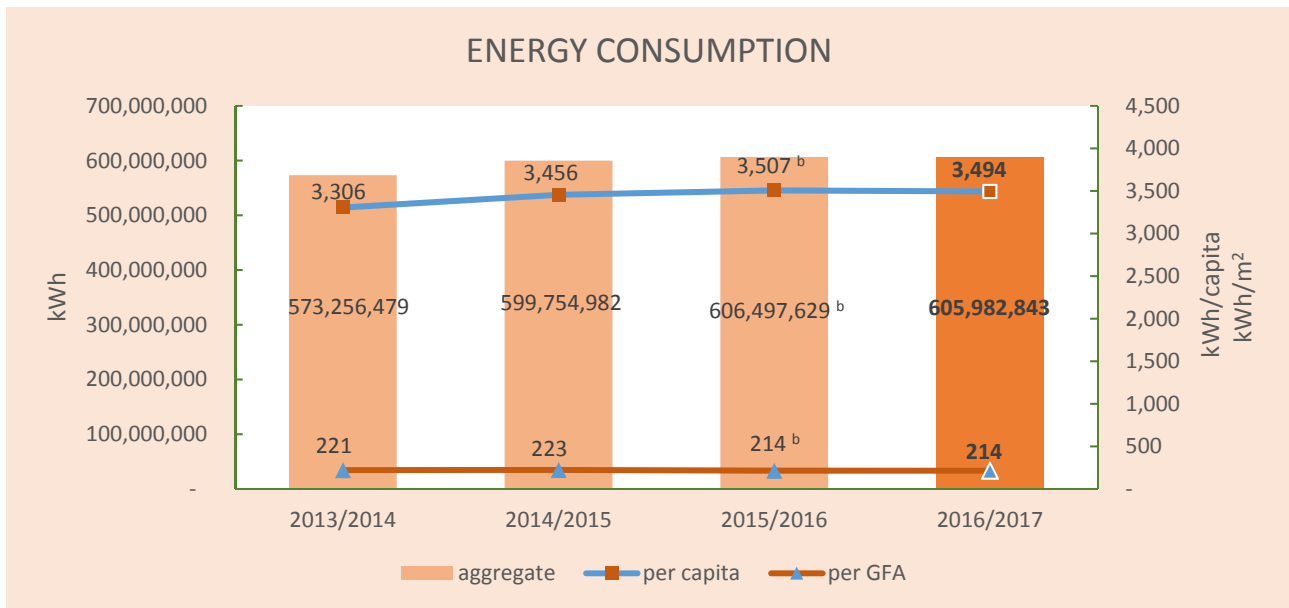
In 2016/2017, the greenhouse gas (GHG) emissions of the tertiary education sector totaled 378,275 tonnes of carbon dioxide equivalent (CO₂-e), in which Scope 1 and 2 accounted for over 97%. Compared to the corresponding period last year, the emissions dropped by 1.3%, a decrease of nearly 5,000 tonnes CO₂-e. The per capita and per gross floor area (GFA) emissions also declined by 1.58% and 1.12% respectively.

Compared to 2015/2016





Sustainability Figures - Energy Consumption



^bREMARK: 2015/2016 energy consumption figures have been adjusted.

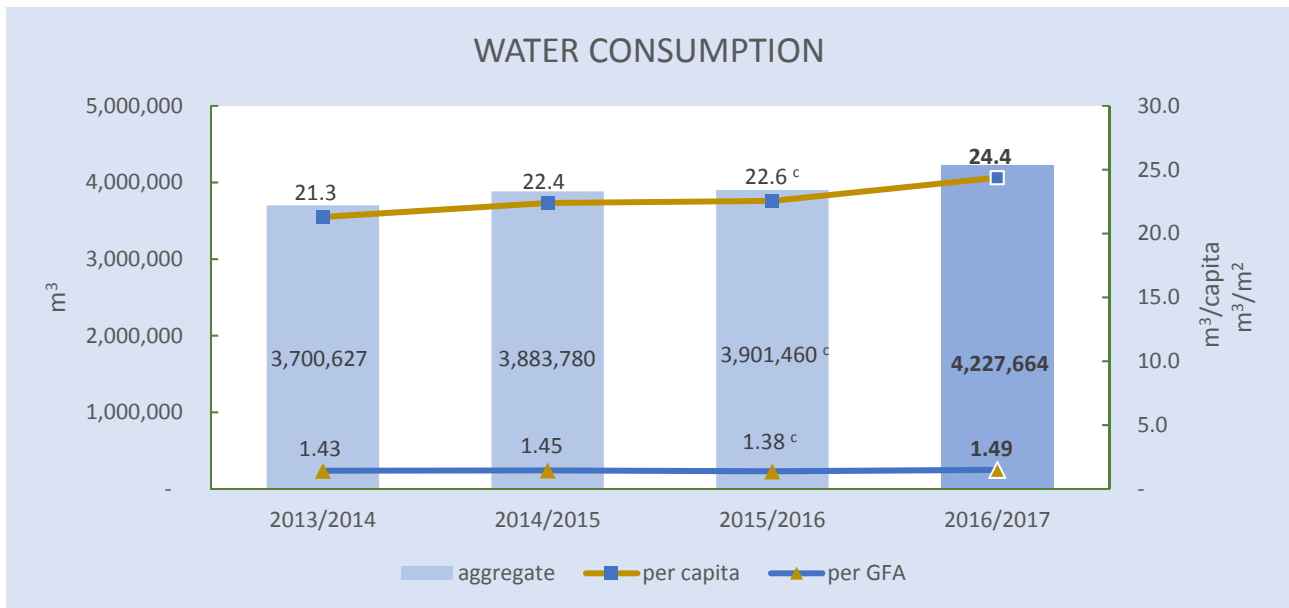
Energy is one of the most widely referenced sustainability indicators. In 2016/2017, the aggregate energy consumption stayed more or less the same as 2015/2016, with a slight fall of 0.08%. The majority of the energy use came from electricity, which contributed 96% to overall. In terms of per capita and per GFA, a decrease of 0.37% and an increase of 0.10% were observed respectively.

Compared to 2015/2016





Sustainability Figures - Water Consumption



^cREMARK: 2015/2016 water consumption figure have been adjusted.

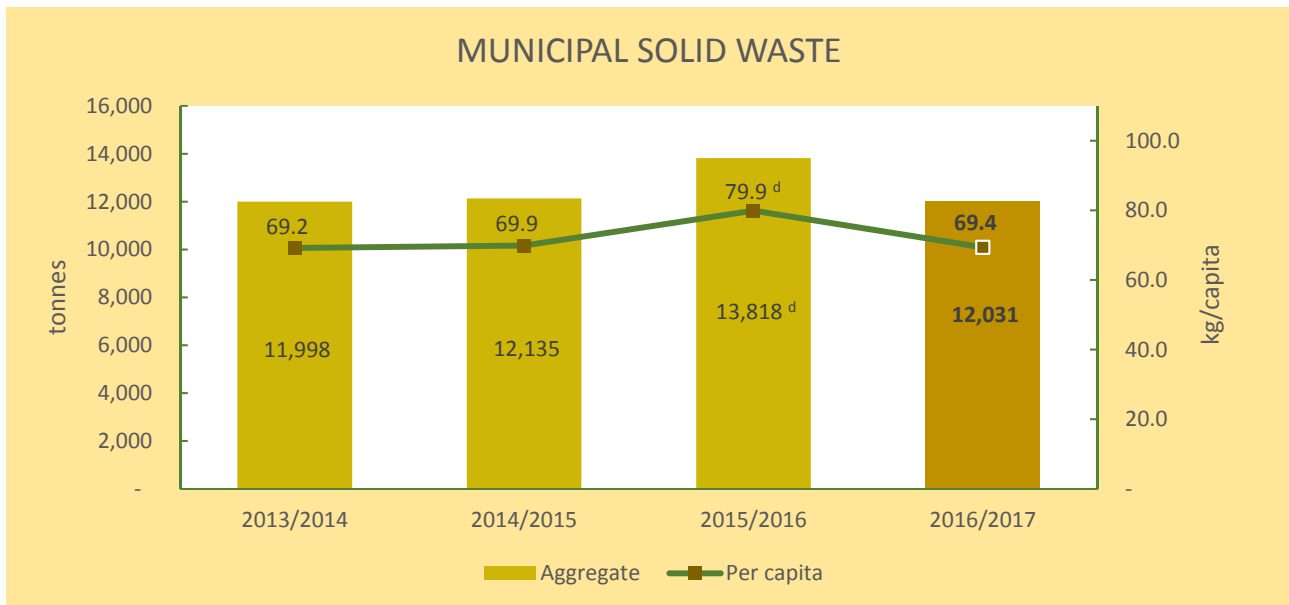
During the reporting period, the tertiary education sector consumed a total of 4,227,664 m³ of potable water. The total, per capita and per GFA consumptions increased by 8.36%, 8.05% and 8.56% respectively. The increased use was likely caused by the use of water-cooled chiller plants, which, on the other hand, helps to improve the energy efficiency.

Compared to 2015/2016





Sustainability Figures - *Municipal Solid Waste*



^dREMARK: 2015/2016 municipal solid waste figures have been adjusted.

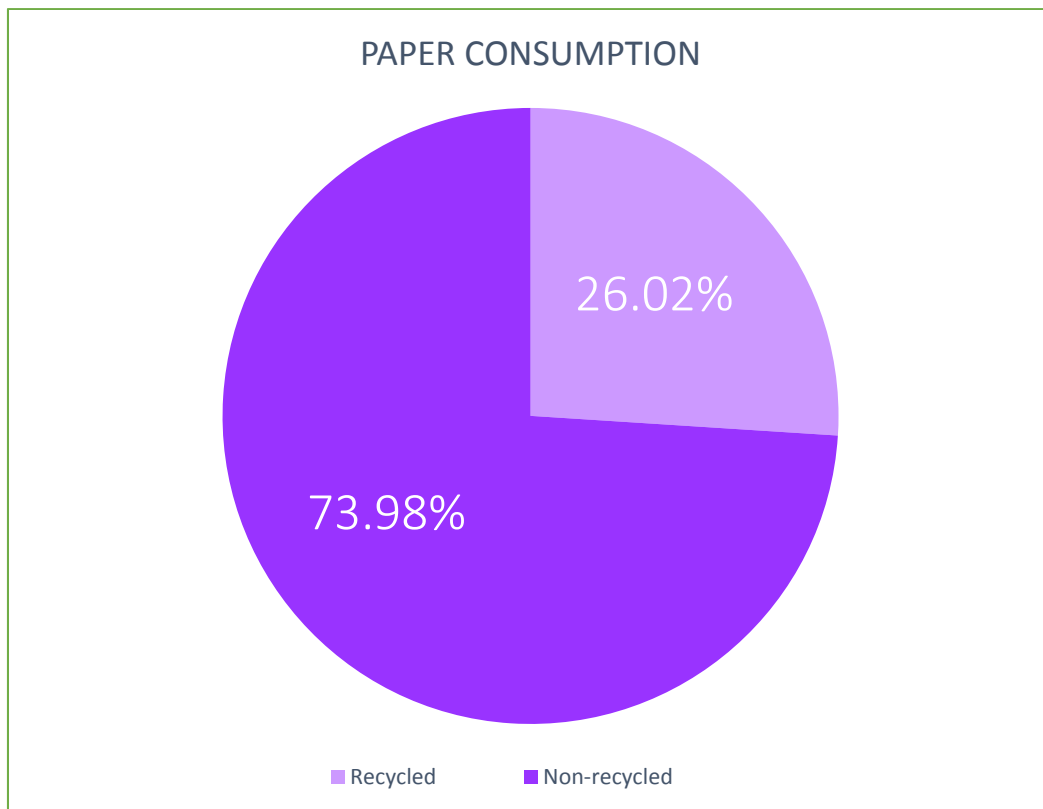
In 2016/2017, the tertiary sector disposed of 12,031 tonnes waste to landfills. Compared to 2015/2016, the waste amount decreased by 12.93% in total, which is equivalent to a significant drop of 13.18% on a per capita basis. It was likely due to the increase of diversion rate resulting from diverting food waste from the waste stream.

Compared to 2015/2016

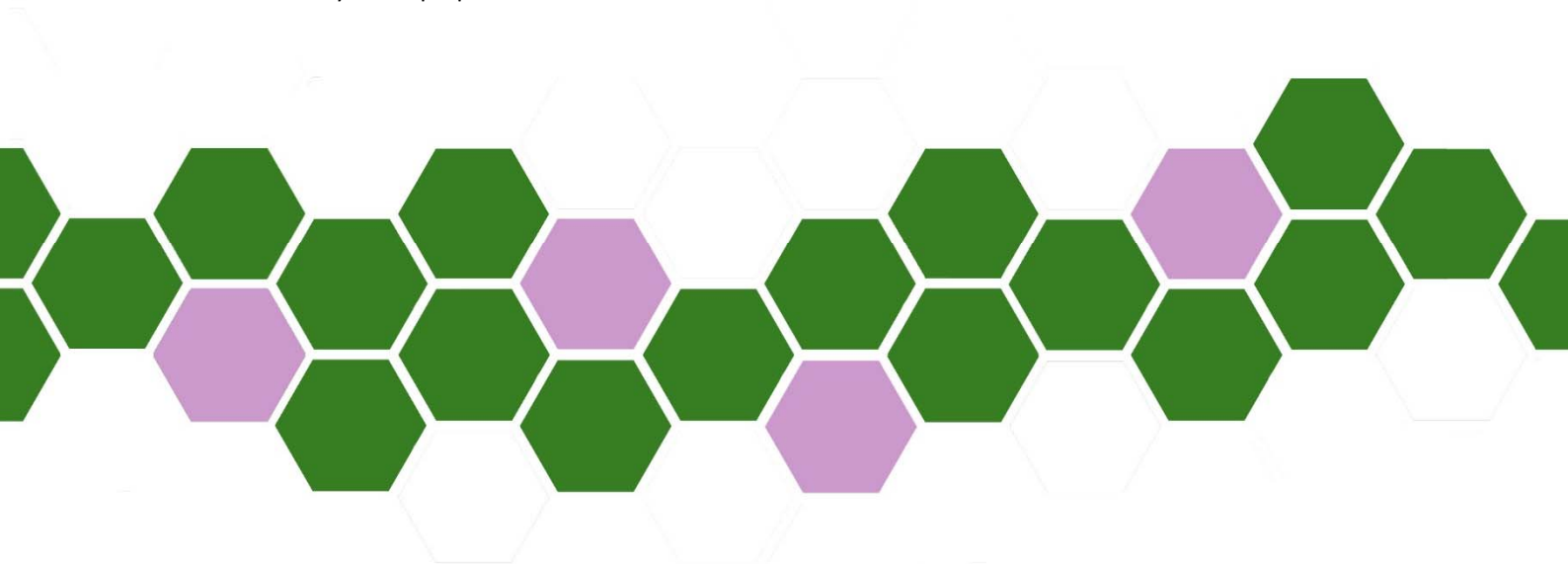




Sustainability Figures - *Paper Consumption*



The paper purchased data was also collected this year. During the reporting period, 1,272 tonnes of office paper was purchased by the member universities, in which over 26% was recycled paper.



Looking Forward

The HKSCC has had a fruitful year of dialogue exchanges and new initiatives, including setting up a collective reduction target for Greenhouse Gas and the upcoming joint university campaign. Looking ahead, we will continue to collaborate among our member universities and across various sectors in promoting sustainable development in Hong Kong, specifically in educating the public regarding sustainable strategies and actions.

At the societal level, we will fully support the Government's initiatives in maximizing energy efficiency and reducing waste disposal in Hong Kong for the coming years.

With collaborative efforts, we strive to achieve a greener and brighter environment.



Appendix 1 - 2017 Meeting Schedule

SCHEDULE OF HKSCC MEETINGS 2017

Meeting	Date	Major discussion items
21 st Meeting	10 th April 2017	<ul style="list-style-type: none"> ➤ Review of HKSCC annual report framework ➤ Major focuses of the year for TFSP
22 nd Meeting	28 th September 2017	<ul style="list-style-type: none"> ➤ Target setting for greenhouse gas emission reduction ➤ Joint disposables campaign ➤ Challenges to implementation of municipal solid waste charging scheme
23 rd Meeting	9 th January 2018	<ul style="list-style-type: none"> ➤ Review of draft HKSCC 2017 annual report ➤ Sharing on HKBU Campus Environmental Sustainability Index ➤ Introduction to the Hong Kong Awards for Environmental Excellence by Environmental Campaign Committee

SCHEDULE OF TFSP MEETINGS 2017

Meeting	Date	Major discussion items
10 th Meeting	14 th June 2017	<ul style="list-style-type: none"> ➤ Sustainability target setting ➤ Review of annual report framework ➤ Sharing on implementation of municipal solid waste charging scheme on campuses ➤ Brainstorming on joint-university activities
11 th Meeting	11 th July 2017	<ul style="list-style-type: none"> ➤ Sustainability target setting ➤ Sharing on best practices on greening O' Camps
12 th Meeting	29 th August 2017	<ul style="list-style-type: none"> ➤ Joint disposables campaign ➤ Paper purchasing and consumption on campuses ➤ Review of reporting template for annual report
13 th Meeting	27 th November 2017	<ul style="list-style-type: none"> ➤ Joint disposables campaign ➤ Development of annual report

Appendix 2A - Membership of the Hong Kong Sustainable Campus Consortium 2017

Representatives	Position
THE EDUCATION UNIVERSITY OF HONG KONG (CONVENOR AND SECRETARIAT)	
Ms. Sarah M.Y. WONG [Convenor]	Vice-President (Administration)
Dr. Eric P.K. TSANG	Associate Professor, Department of Science and Environmental Studies
*Mr. Anthony L.K. CHAN [Secretary] (December 2017 – Present)	<i>Acting Director of Estates</i>
*Mr. Dominic C.K. CHU [Secretary] (January – November 2017, Retired)	<i>Director of Estates</i>
CITY UNIVERSITY OF HONG KONG	
Prof. Samuel M.Y. HO	Associate Provost (Institutional Initiatives)
Ms. Brenda LAI (December 2017 – Present)	Director of Facilities Management
Mr. W.K. LEUNG (June – November 2017)	Senior Safety and Administration Manager, Facilities Management Office
Mr. Tony C.H. TUNG (January – May 2017, Retired)	Senior Safety and Administration Manager, Facilities Management Office
HONG KONG BAPTIST UNIVERSITY	
Mr. Andy S.C. LEE	Vice-President (Administration) and Secretary
Dr. S.S. CHUNG	Assistant Professor, Department of Biology
LINGNAN UNIVERSITY	
Prof. Mark A. MCGINLEY	Professor, Head of Science Unit/Core Curriculum and General Education Office
Mr. Ian WOO	Comptroller, Office of the Comptroller
THE CHINESE UNIVERSITY OF HONG KONG	
Mr. Eric S.P. NG (August 2017 – Present)	Vice-President (Administration) and University Secretary
Prof. FUNG Tung (January – July 2017)	Associate Vice-President, Professor, Department of Geography and Resource Management
Mrs. Cecilia S.S. LAM (December 2017 – Present)	Director, Campus Planning and Sustainability Office
Ms. Vivian Y.Y. HO (January – November 2017, Retired)	Director, Campus Planning and Sustainability Office
THE HONG KONG POLYTECHNIC UNIVERSITY	
Prof. Alex P.K. WAI	Vice President (Research Development)
Mr. Joseph P.T. CHAN	Head, Campus Sustainability Office
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY	
Prof. Jimmy C.H. FUNG	Head, Division of Environment and Sustainability
Mr. Davis BOOKHART	Senior Manager and Head, Sustainability Unit
THE UNIVERSITY OF HONG KONG	
Dr. Steven J. CANNON	Executive Vice President (Administration and Finance)
Dr. Kaimin SHIH	Associate Professor, Department of Civil Engineering

Appendix 2B - Membership of the Task Force on Sustainability Performance 2017

Representatives	Position
CITY UNIVERSITY OF HONG KONG	
Mr. W.K. LEUNG	Senior Safety and Administration Manager, Facilities Management Office
HONG KONG BAPTIST UNIVERSITY	
Mr. Michael T.M. KWOK	Head of Environmental Health and Safety, Estates Office
LINGNAN UNIVERSITY	
Prof. Mark A. MCGINLEY	Professor, Head of Science Unit/Core Curriculum and General Education Office
THE CHINESE UNIVERSITY OF HONG KONG	
Mr. Kalvin LAI	Assistant Director (Sustainability), Campus Planning and Sustainability Office
THE EDUCATION UNIVERSITY OF HONG KONG	
Dr. Eric P.K. TSANG [Deputy Chairman]	Associate Professor, Department of Science and Environmental Studies
Mr. Anthony L.K. CHAN [Secretary]	Acting Director of Estates
Miss Janey Y.K. LEUNG	Assistant Property & Facility Manager, Estates Office
THE HONG KONG POLYTECHNIC UNIVERSITY	
Mr. Joseph P.T. CHAN	Head, Campus Sustainability Office
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY	
Mr. Davis BOOKHART [Chairman]	Senior Manager and Head, Sustainability Unit
THE UNIVERSITY OF HONG KONG	
Ms. Ann KILDAHL	Sustainability Manager, Sustainability Office
Mr. Y.C. NG	Assistant Director, Estates Office
Mr. Peter S.K. PUN	Senior Technical Manager, Estates Office