Sustainability The University of Hong Kong

June 24, 2019

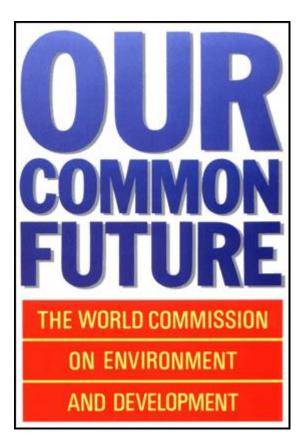
Maegan Cowan, Sustainability Office, The University of Hong Kong mfcowan@hku.hk

Overview

- Definitions: Sustainability & Sustainability in Higher Education
- Challenges: Global, Local, and Sectoral
- International Best Practices
- Tools: Compulsory and Voluntary
- Sustainability at HKU: early actions, recent progress, next steps
- Group Discussion Activity

Definitions

Sustainable Development



"development that meets the needs of the present without compromising the ability of future generations to meet their own needs"

The Brundtland Report, 1987

Challenges: Global







US & Canada

Paris climate deal: Trump pulls US out of 2015 accord

() 1 June 2017 US & Canada

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President Donald Trump has announced that the US is withdrawing from the 2015 Paris climate agreement.

Challenges

Challenges

Challenges: Local

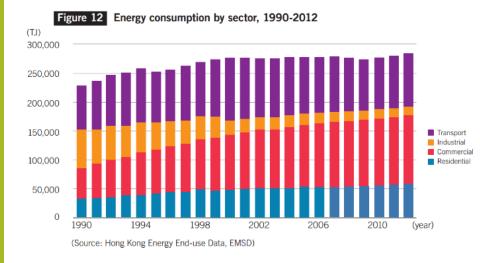
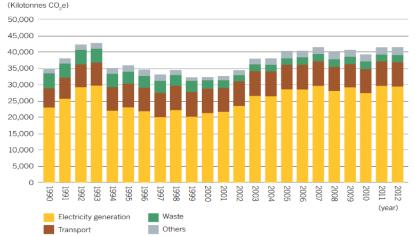


Figure 2

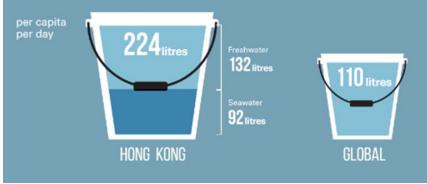
GHG emission trends for Hong Kong 1990-2012





HONG KONG'S TOTAL WATER CONSUMPTION (2015)

compared with the global average

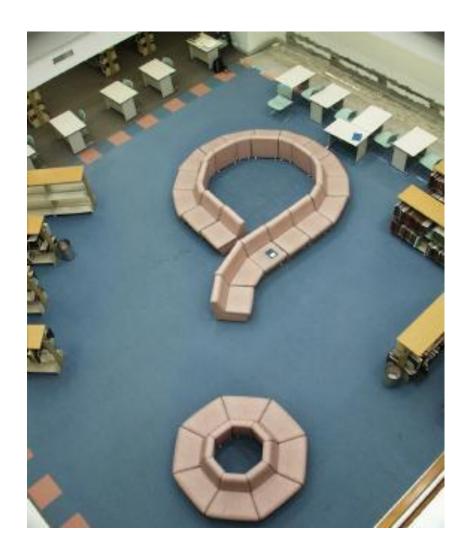


Challenges: Sectoral

Challenges

Why the University?

- Centers for Research & Teaching
- Campus Environmental Impact
- Models for the Community
- Students



Sectoral Challenges: Campus environmental, social, and economic impact

- Energy & Greenhouse gas emissions
- Water conservation & management
- Waste minimization & recycling

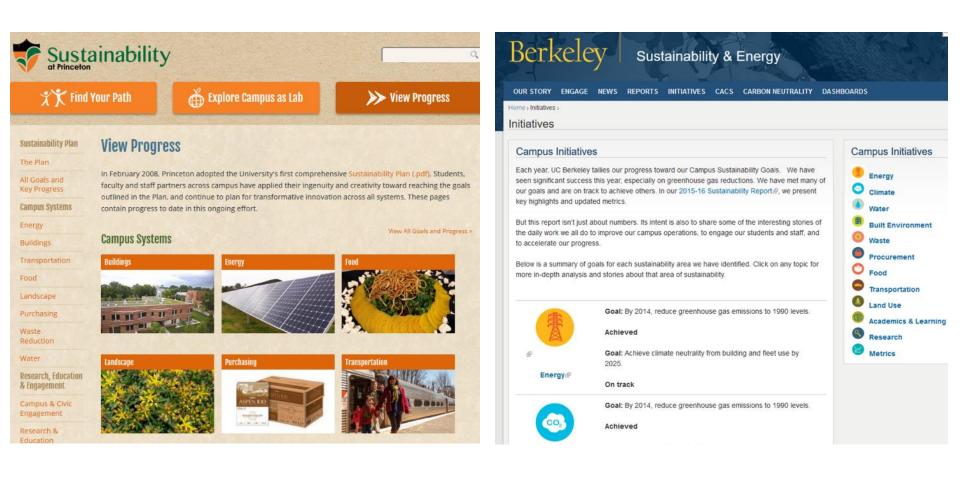
- Student & staff awareness
- Community engagement
- Investment & procurement practices
- Labour Practices
- Diversity and equal opportunities





International Best Practices

A campus that uses sustainable practices in all aspects of its planning, operations, and maintenance



A **community** that is involved and invested in making our university a sustainable environment

NYUGREeN



A university advisory body charged with improving NYU's environmental performance & fostering a campus culture of sustainability.



The NYU Bike Share offers free daily bike rentals to NYU students, faculty, and staff.

-



The ECO Reps cultivate

environmental literacy &

peer-to-peer education in

residence halls.

sustainable behavior through



NYU students, faculty & staff can propose campus sustainability or entrepreneurial initiatives & receive up to \$20,000 in project funding.





Advocates are employees in offices & departments engaged in creating more sustainable workplaces through operational & behavioral changes.

Hokkaido University S Sustainability Weeks

UBC Seeds Program

UBC

sustainability



An **economic** structure that uses sustainability as a guiding principle

in

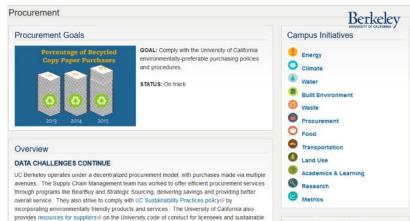
Stanford Sustainability & Energy Management Land, Buildings & Real Estate

Energy Conservation Incentive Program (ECIP)

For many years all utility expenses for Stanford's core academic buildings have been the responsibility of the University's Budget Office. With the Energy Conservation Incentive Program, responsibility for academic electricity expenses has been shifted "down" in the organization to twenty-one Budget Units. Under this program, your School or administrative unit has an opportunity to benefit directly by reducing electricity use.

Every person on campus, from undergraduate to professor ementus, can make some simple changes in everyday habits and common purchasing decisions that reduce electricity use, usually with no detriment to comfort or performance.

If you have questions or comments about promoting the Energy Conservation Incentive Program in your department, please contact the office of your Dean. Vice Provost, or Vice President.



However, collecting complete and accurate data on the purchases of sustainable products remains problematic. Often, purchasing data must be complied by vendor or product type, and sometimes the spend on identified green products has to be calculated manually.

Other initiatives of Supply Chain Management:

and ethical supply chain practices.

- . Continued the printer exchange program, replacing 54 older inefficient ones with only 50 Energy Star rated alternative
- · Participation in MilliporeSigma's styrofoam and packaging reuse program
- · Implementation of Sigma's "Sustainability Opportunity Dashboard," which provides green sustainability statistics on solvent usage and packaging waste
- · Feasibility research on a water-saving autoclave that can reduce water consumption by 90%

MAKING SUSTAINABLE PURCHASING EASIER

Campus Recycling and Refuse Services' Zero Waste Research Center partnered with UC Berkeley Procurement and OfficeMax to create a simplified list of environmentally-preferred products

Purchasing Highlights

Procurement Services now substitutes 100% recycled copy paper for virgin paper using the search function in BearBuy. Recycled copy paper purchases increased to 88% in 2015.

Physical Plant-Campus Services developed a Green Cleaning Policy for cleaning products, supplies, tools, equipment, and practices at UC Berkeley.

Procurement Services' annual printer exchange program removed over 60 printers from campus in exchange for Energy Star certified models.



PROFESSIONAL IOBS SUMMITS RANKINGS STUD

'Over a quarter' of UK universities divest from fossil fuels

Sixteen more universities commit to divestment, according to People & Planet

November 22, 2016

By Hilary Lamb



A governance system that allows for action

Statement | Goals | Strategy and Action Plan

Yale



Sustainability Steering Committee

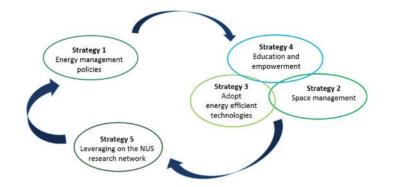
The Sustainability Steering Committee (SSC) is a university-wide committee that has been established to promote sustainability in the planning, development, and operation of NUS' campus environment and facilities.

The SSC reports to the President of NUS directly and is made up of representatives from the Office of Environmental Sustainability, Office of Vice President (Campus Infrastructure), Office of Safety, Health & Environment, Office of Estate Development, Office of Facilities Management, Office of Campus Amenities and Office of Housing Services. Five subcommittees task forces have been formed under the SSC:

Energy Task Force

- Looks into ways to reduce energy wastage and enhance the efficient use of electricity on campus.

To apply sustainability principles to building retrofitting, and ensure energy efficiency and conservation in our operations, NUS has set up an Energy Task Force (ETF) comprising representatives from several campus infrastructure, student residential and sustainability-related offices. Strategies adopted by the ETF include:



Department-Level Plans

Yale University is an institution with a strong, cohesive culture, but also consists of diverse sub-communities, divisions, and departments. The **Yale Sustainability Plan 2025** is a critical tool for unifying and focusing sustainability efforts on the Yale campus. To make the plan more accessible to various communities across the university, the Yale Office of Sustainability has assisted in the creation of a set of sustainability action plans tailored to specific schools and departments.

Division Plans

Each of Yale's operational divisions has a specific set of opportunities in relation to the use and the operation of the campus. Action Plans for various divisions are currently in development.

Yale Finance and Business Operations Sustainability Action Plan

Yale Athletics

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Professional School Plans

Yale is home to 11 professional schools, each of which has a distinct culture and physical construct. Sustainability Action Plans that reflect these distinctions and the academic disciplines of the schools are in various stages of development. In several cases, these initiatives have also led to websites and broader programming.

- Yale Divinity School
- Yale School of Forestry and Environmental Studies
- Yale Law School
- Yale School of Management
- Yale School of Medicine Laboratory Sustainability Plan
- Yale School of Music
- Yale School of Nursing
- Yale School of Public Health

Cultural Spaces

Yale's museums and cultural spaces influence thought and action with their reach to the Yale community and beyond. Capitalizing on this important position in society and moving operations to reflect sustainability principles offers impacts that extend far beyond campus and demonstrate great leadership.

Institute for the Preservation of Cultural Heritage

Yale University Library

Yale Peabody Museum of Natural History

Yale University Art Gallery

Tools

Tools

Compulsory:

• Government/ University legislation



Voluntary:

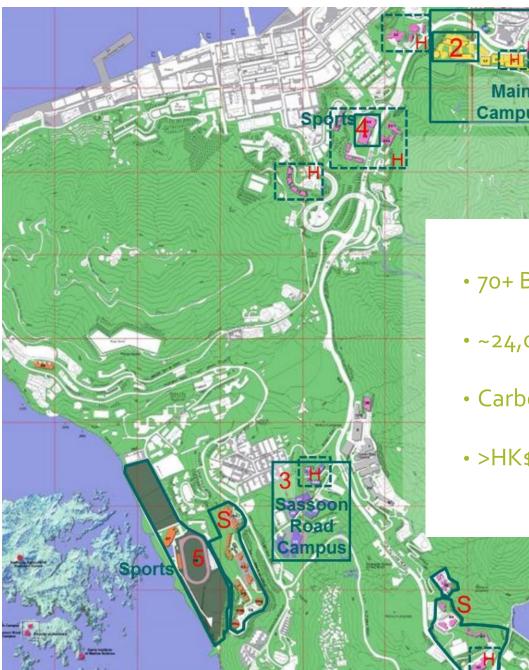
- Commitments/Declarations
- Networks/Consortia
- Green Ratings/Rankings
- Assessments



Hong Kong Sustainable Campus Consortium

Sustainability at HKU

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- 70+ Buildings
- ~24,000 students & 6,800 staff (FTE)
- Carbon Footprint of >115,000 tCO2e
- >HK\$200M+ Annual Energy Bill

Sustainability at HKU – Timeline

1989: MSc in Environmental Management

1991: Launch of energy management efforts

2008: Sustainability Committee & Sustainability Office established

2008: Campus carbon footprint ('02-'07) published

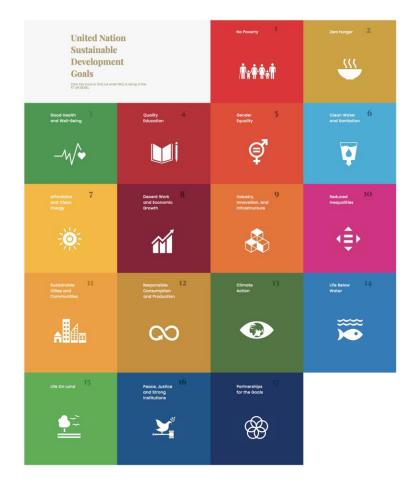
2010: "Green Connections" (lecture & film series) established

2013: Centennial Campus received HK-BEAM Platinum and LEED Platinum ratings



Sustainability Report 2017

The University of Hong Kong



Administration/Policy / Institutional Commitments





香港大學 THE UNIVERSITY OF HONG KONG

ASIA'S GLOBAL UNIVERSITY

THE NEXT DECADE Our vision for 2016-2025

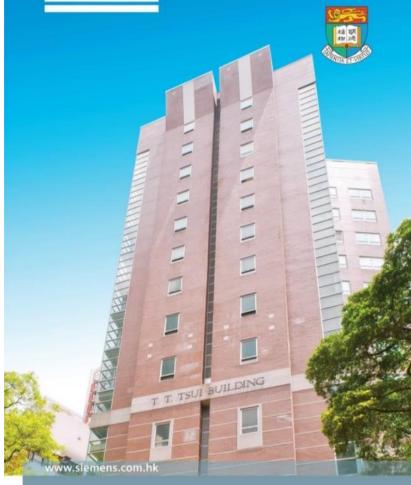


"The principles of sustainability will guide our planning and development at every level"

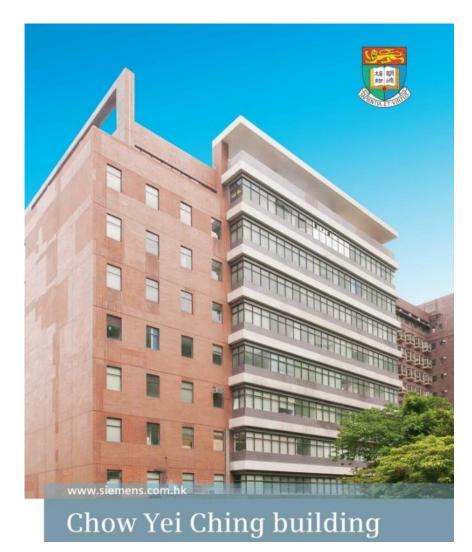




Whole-building retrofitting: Energy performance contract



T.T. Tsui Building









CCGL9020 Global Issues

Environment, Globalization, and Institutions





HKU



地球一小時 EARTH HOUR 200 24.3 8:30pm





SUSTAINABLE FASHION

Talk: Confessions of a Fashion Designer Design Tomorrow's World Today

Workshop: Simplify your life, Edit and Restyle vour Wardrobe!



19/3/2018 MON 🕒 18:45- 20:45



3917 5044

aened@hku.h

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💮 English

Kay Wong

Daydream Nation

Thttp://bit.ly/2DZIBos

Kay Wong

oby Crispy

KU

Register at GE Office (2/F Pao Siu Loong Building)



Small Effort - Big Help! 自助又助人-用餐更方便

> 藉後請將餐盤及餐具 放到





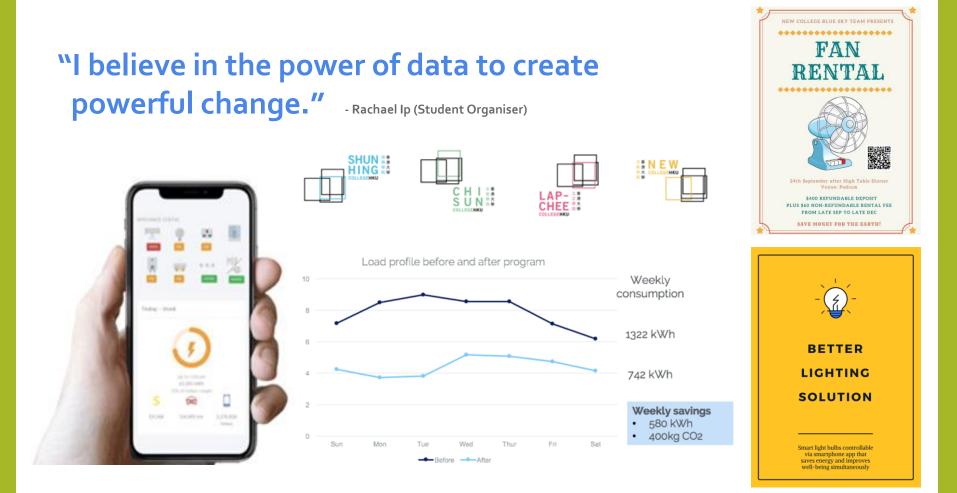


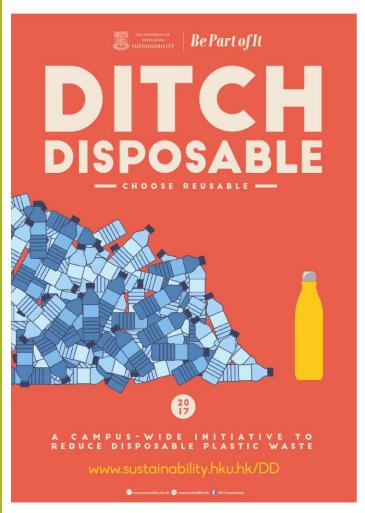






Smart Energy, Smart Living















2. Policy

With effect from July 1, 2017:

- The sale of water in disposable plastic bottles of one litre or less in volume is not permitted in catering outlets, retail locations, or vending machines owned by or located on university premises;
- The distribution and use of water in disposable plastic bottles of one litre or less at events and activities arranged on university premises by faculties, departments, societies, or other university-affiliated units is not permitted.

We estimate that we have saved almost 200,000 water bottles per month in campus vending machines since the implementation of the policy.

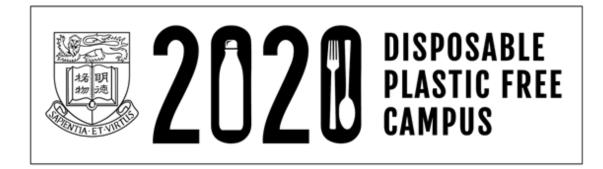
2. Policy

With effect from September 3, 2018:

- Disposable plastic straws will not be distributed at campus catering outlets;
- Disposable straws of other materials outlined in Appendix I may be distributed with or without a charge;
- Catering outlets are also encouraged to use and/or sell reusable straws (Appendix I).

We estimate that we have saved almost 600,000 straws since the implementation of the policy.





Goal | Disposable plastic free campus by September 2020Target | Food service ware, bottles, banners

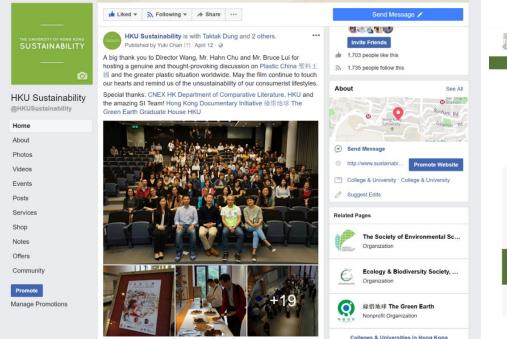












HKU Sustainability - Be Part of It!



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ABOUT US	PROGRAMMES	GET INVOLVED	TOOLS	EVENTS	
HKU		(ED 1	O th	HKU ranked 10th in THE University Impact Ranki 2019	ngs
Our Commitments					
1 A			Sustainability Strategy 2030		
Waste		Carbon			
Achieve a disposable plast campus by September 202		te to HKSCC target of aggregate greenhouse gas			>
Progress On track	Progress On track		Progress On track	wavegy and action plus	
Sustainability				Ξ	

Sustainability Report 2017

The University of Hong Kong

In a rapidly changing world with diminishing natural resources, perioding poverty and enduring inequalities, institutions must step up to ensure a future that is sustainable; realignent and inclusive. As a university with global reach and influence, the University of Hong Kong (HKU) is determined to bolster its commitment to sustainability. HKU is committed to upholding

The core values of academic freedom and our respect for academic success. As an institution of higher learning and compasts for monelly and integriny in the community, we will embace acquite, chick: (checking, discretized and transparency) in all that we do, and will aspire to the highest standards of corporate and academic governance. The principles of sustainability will guide our planning and development overy level. We will respond purposedulty to the charbinges lidentified by the United Nations through the Sustainabilit Development Goals, and plays our part in addressing the issues of incapatible, heads, education, disaster prevention, poverly, environment and well-being identified therein. We are superbly placed to lead a cross-cultural and evolusioned addregue."

Asia's Global University - The Next Decade - Our vision for 2016-2025

In this latest version of the sustainability report, we have adopted a new approach and format by aligning the University's consolidated efforts to the 17 Sustainable Development Goals (SDGs). With this new formal, we hope to more holistically showcase HKU's efforts to tackle all nappeds of sustainability.





sustainability THE UNIVERSITY OF HONG KONG



🕝 www.sustainability.hku.hk 😡 sustainability@hku.hk 🧗 HKU Sustainability



