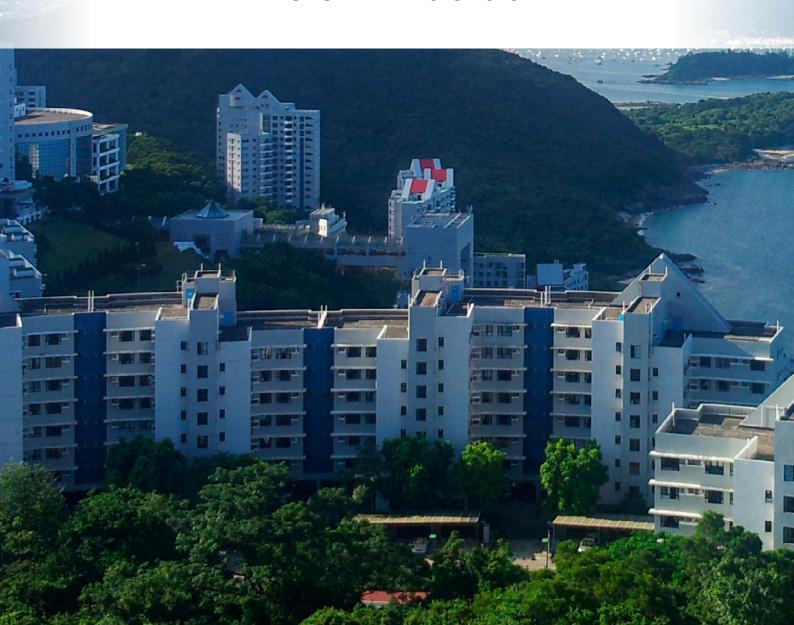


# HKUST 2020 Sustainability Challenge

**ACTION PLAN 2015-2020** 





### **HKUST 2020 SUSTAINABILITY CHALLENGE**

The long term vision will be initially implemented through a five-year plan, the HKUST 2020 Sustainability Challenge. The Plan entails four focus areas: Education, Operations, Demonstrations and Sustainable Community.



### **Education Goal**

**Action Plan** 

Construct a sustainability curricular framework. The newly established Sustainability Education Advisory Group will consult the university community to find active ways to advance sustainability education.

Development of "Sustainability Learning Modules" for enhanced teaching and learning of sustainability competencies.

Strengthen the administrative and academic connections between the operations and academic sectors of the university to help develop the physical capacity to utilize the campus and grounds as a "living laboratory" for experiential learning in sustainability.



## **Operations Goal**

**Action Plan** 

Establish
a Sustainable
Operations Executive
Committee (ExCo) to advise
the VPAB and steer projects
that present opportunities
to achieve our
reduction goals.



**Waste Reduction** 



**Energy Reduction** 

Enable the Cleaning Steering Committee to identify waste reduction opportunities and formulate recycling strategies for use of resources.





Develop an energy efficiency matrix with energy drivers and energy conservation measures over a four-year term (through 2020) to evaluate the priorities for energy and GHG reductions. Expand building recommissioning to identify energy saving opportunities.

Complete food waste collection across the campus including all the caterers, staff quarters, student halls and offices.





Implement a green labs strategy, including an ultra-low temperature (ULT) freezer set of purchasing and maintenance guidelines, as well as an action plan to decommission, upgrade, and maintain fume cupboards.

Develop waste recycling strategies by streamlining waste collections and separation, increasing recycling bins and convenience for users, educating cleaners, developing recycling stations for minor works contractors.





Facilitate regular Energy
Performance team meetings to
review energy consumption data and
build energy-saving capacity through
operations and newly invested
projects.

Develop recycling programs for animal beddings and landscape waste with outside contractors. Expand collection and recycling of Styrofoam, wood, plastic banners and electrical appliances from campus community. Reduce waste from sources, including strategies to reduce packaging from purchased items.





Utilize the IT infrastructure in ways that can reduce waste and energy from academic and operational activities.



Develop and implement a metering strategy for the whole campus to make building energy consumption transparent and accessible by students and faculty for use in coursework and student projects.

### **Demonstration Goal**

**Action Plan** 

Develop educational projects that are visible and accessible for students as learning tools and research projects from HKUST scholars, to explain the theories and applications of their work.

Demonstrate the university's leadership by creating a "disposable water bottle-free campus" and other campaigns to reduce disposables.

Explore ways of better highlighting sustainability ideas and principles through "showcases" of technologies, efforts, or actions that make sustainability more visible.

Expand the real time energy demo initiatives in residence halls and lab areas.

Explore renewable energy project demonstrations on campus for campus community and visitors.

Identify interested University researchers to explore research areas of opportunity on campus. Develop joint applications for grants.









# **Sustainable Community**

**Action Plan** 



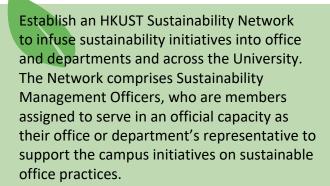












Establish a Green Team of staff and student volunteers to develop hands-on projects that improve the conditions on campus, with particular attention to promoting waste reduction and recycling, sustainable dining, and reducing disposables.

Facilitate the Shanghai Commercial Bank-HKUST Sustainable Campus Leadership Program to establish student-designed green campus projects to strengthen collaboration between administrative departments and the student community on improving a sustainable campus environment.

Create issue-targeted volunteer groups to improve conditions in specific situations; a Gardening Club to engage the community to beautify the campus, and a Green Labs Champions group to promote green lab practices and help achieve sustainable operations goals.

Implement a "Lunch and Learn" speaker series to bring new ideas, practices, and approaches to the attention of operations staff.



