ADDENDUM TO THE
2014-2015 ANNUAL SUSTAINABILITY
REPORT
ISCN-GULF
SUSTAINABLE CAMPUS CHARTER
REPORT
ABOUT UBC

The University of British Columbia (UBC) is a global centre for research and teaching, consistently ranked among the top 40 universities in the world.

Our two main campuses — the Vancouver campus and the Okanagan campus — attract and educate 60,000 students from 140 countries and employ over 15,000 staff and faculty.

UBC’s Vancouver campus is home to a vibrant, sustainable residential community, where some 20,000 students, faculty, staff and other residents live, work and learn together. UBC’s Okanagan campus, which has nearly doubled in size since 2007, is home to nearly 1,700 students.
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ACCOMPANYING DOCUMENTS

• UBC’s 2014-2015 Annual Sustainability Report
• Addendum to UBC’s 2014-2015 Annual Sustainability Report: Performance Charts
## SUSTAINABILITY MILESTONES

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<tr>
<td>1990</td>
<td>UBC signs Tailoires declaration</td>
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<tr>
<td>1996</td>
<td>Opens C.K. Choi Building, setting new green building benchmarks worldwide</td>
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<tr>
<td>1997</td>
<td>Becomes Canada’s first university to adopt a sustainable development policy</td>
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<td>1998</td>
<td>Opens a Campus Sustainability Office, a first for a Canadian university</td>
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<tr>
<td>2001</td>
<td>Launches ECOTREK (2001-2008), the largest energy and water retrofit program at a Canadian university</td>
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<tr>
<td>2003</td>
<td>Develops the Sustainability Academic Strategy</td>
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<tr>
<td>2006</td>
<td>Sets bold targets to reduce GHG emissions and invests in 3 signature projects to meet climate goals (Continuous Optimization, Bioenergy Research and Demonstration Facility, Steam to Hot Water Conversion)</td>
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<tr>
<td>2007</td>
<td>Establishes the UBC Sustainability Initiative (USI) to earn designation as Canada’s first Fair Trade Campus</td>
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<tr>
<td>2009</td>
<td>Publishes comprehensive campus-wide sustainability strategy, another first for a Canadian university</td>
</tr>
<tr>
<td>2010</td>
<td>Integrates sustainability as a core pillar in UBC’s highest level strategic plan</td>
</tr>
<tr>
<td>2011</td>
<td>Launches the U-Pass program at UBC’s Okanagan campus</td>
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<tr>
<td>2012</td>
<td>Meets Kyoto Protocol greenhouse gas (GHG) reduction targets for academic buildings 5 years early</td>
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<tr>
<td>2013</td>
<td>Earning the U-Pass program, which has quadrupled transit ridership since 1997</td>
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<tr>
<td>2014</td>
<td>Meets full operation of closed loop geo-exchange district energy system at UBC’s Okanagan campus</td>
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<tr>
<td>2015</td>
<td>Achieves UBC’s first LEED Platinum certification for the Centre for Interactive Research on Sustainability (CIRS), located at UBC’s Vancouver campus and the first LEED Gold certification at UBC’s Okanagan campus for Reichwald Health Sciences Centre</td>
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<td>2016</td>
<td>Establishes the Sustainability Office at UBC’s Okanagan campus</td>
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<td>2017</td>
<td>Completes comprehensive Zero Waste Action Plan and launches Sort It Out campaign across UBC’s Vancouver campus</td>
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<tr>
<td>2018</td>
<td>Integrates operational and academic sustainability</td>
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<tr>
<td>2019</td>
<td>Achieves full operation of closed loop geo-exchange district energy system at UBC’s Okanagan campus</td>
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<tr>
<td>2020</td>
<td>Finalizes 20-year Sustainability Strategy, a long-term framework for sustainability at UBC’s Vancouver campus</td>
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<tr>
<td>2021</td>
<td>Establishes a Sustainability Office at UBC’s Okanagan campus</td>
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<tr>
<td>2022</td>
<td>Earns Gold rating in STARS, first Canadian university to do so</td>
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<tr>
<td>2023</td>
<td>Completes comprehensive Zero Waste Action Plan and launches Sort It Out campaign across UBC’s Vancouver campus</td>
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<td>2024</td>
<td>Integrates operational and academic sustainability</td>
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<td>2025</td>
<td>Achieves full operation of closed loop geo-exchange district energy system at UBC’s Okanagan campus</td>
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<td>2026</td>
<td>Finalizes 20-year Sustainability Strategy, a long-term framework for sustainability at UBC’s Vancouver campus</td>
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About this Report


About UBC

The University of British Columbia (UBC) is a global centre for research and teaching, consistently ranked among the 40 best universities in the world. UBC is a public institution with a $2 billion annual operating budget. In 2014-15, UBC received over $530 million in research funding, supporting a total of 8,278 projects.

UBC’s two main campuses – the Vancouver campus and the Okanagan campus – are located in Vancouver and Kelowna in British Columbia, Canada. More than 400 hectares in size, UBC’s Vancouver campus is located at the western tip of the Point Grey peninsula and has been located on this site for most of its 100 year history on land that is traditional territory of the Musqueam people. UBC’s Okanagan campus opened in 2005 and is located in the Okanagan Valley, on the territory of the Okanagan Nation.

UBC educates 60,000 students each year from 140 countries and holds an international reputation for excellence in advanced research and learning, offering a wide-range of innovative programs in the arts, sciences, medicine, law, business, and other faculties. One of the largest employers in the Province of British Columbia, UBC employs over 15,000 staff and faculty, has an annual economic impact of more than $12 billion and 170 spin-off companies generated from UBC research. Home to a vibrant, sustainable, residential community, some 20,000 students, faculty, staff, and other residents live, work and learn together at UBC’s Vancouver campus and 1,700 students live at UBC’s Okanagan campus.

University Governance

UBC’s two main campuses are governed by a single Board of Governors, a President, and two Senates (one at each campus) whose activities are coordinated by a Council of Senates. UBC’s Board of Governors is comprised of 21 members. By legislation, the Board is responsible for the management, administration and control of the property, revenue, business and affairs of the University, including the appointment of senior officials and faculty on the recommendation of the President. Under the terms of the British Columbia University Act, academic governance is vested in the Senate. Executive officers and management (including the President, Chancellor, Deputy Vice-Chancellor & Principal UBC Okanagan, seven Vice Presidents, and associated systems) provide general supervision and direction of the business and academic work of the University, in accordance with, and to effectively implement, the strategic framework and oversight directions of the Board of Governors and the Senates.

About Sustainability at UBC

UBC has a strong track record in both academic and operational sustainability. In 1997, UBC was the first Canadian university to adopt a sustainable development policy and, a year later, to open a Campus Sustainability office. In 2009, UBC’s Strategic Plan,
Place and Promise included sustainability as one of nine key commitments, embedding sustainability into the University’s strategic direction and committing UBC to explore and exemplify all aspects of economic, environmental and social sustainability.

In 2010, the UBC Sustainability Initiative (USI) was established and commenced work to implement the SAS. Under the USI umbrella, many UBC offices, committees and groups work collaboratively under two cross-cutting themes: campus as a living laboratory and the University as an agent of change. Also in 2010, UBC announced the Vancouver Campus Climate Action Plan, committing to ambitious greenhouse gas reduction targets, and established a sustainability office at the Okanagan campus. Building on this long history of achievements, in 2014 UBC developed the 20-year Sustainability Strategy, providing a long-term strategic direction for next-generation sustainability at UBC’s Vancouver campus.

UBC has produced annual reports on sustainability activities and performance metrics since 1998. Annual Sustainability Reports are presented to the Board of Governors, and key performance indicators are also included as part of UBC’s Place and Promise Reports, in addition to Carbon Neutral Action Reports prepared for the Province of British Columbia’s Climate Action Secretariat, as required under Carbon Neutral Governmental Regulation.

UBC also participates in the Sustainability Tracking, Assessment & Rating System (STARS), a comprehensive external sustainability benchmarking system administered by the Association for the Advancement of Sustainability in Higher Education (AASHE). In 2011, UBC received Canada’s first Gold rating in STARS and in 2015, UBC achieved our second consecutive Gold STARS rating. UBC’s STARS report represents a significant campus-wide effort, including over 70 staff and faculty contributors who reported on initiatives in each of the five main STARS categories of Academics, Engagement, Operations, Planning & Administration, and Innovation, with credits across environmental, social and economic sustainability.

For questions on this report, please contact:

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In 2015, UBC earned its second consecutive Gold STARS rating from the Association for the Advancement of Sustainability in Higher Education (AASHE).
ISCN CHARTER ALIGNMENT

ISCN Charter Principles & Management Approach

As a signatory to the ISCN-GULF Sustainable Campus Charter, UBC is committed to implementing the Charter’s three principles, setting sustainability targets, and reporting regularly to the ISCN on our progress. The following sections provide a summary of UBC’s management approach and organizational structure for advancing sustainability and meeting the ISCN-GULF Charter Principles.

Each section includes a reference table with corresponding sections in the full 2014-15 UBC Annual Sustainability Report which provides further detail on initiatives, actions, targets and performance metrics.

2014-15 Sustainability Achievements

UBC Sustainability activities over the past year have contributed to the integration of academic and operational sustainability on campus and have led to progress on two UBC cross-cutting sustainability goals: i) to turn our campuses into living laboratories for sustainability; and ii) to consolidate UBC’s role as an agent of change for sustainability in the community.

The 2014-15 Annual Sustainability Report highlights key achievements for UBC’s Vancouver and Okanagan campuses from the 2014-15 fiscal year in Teaching, Learning & Research, Campus as a Living Lab, Operations & Infrastructure, Community, and Communications & Engagement. The full report is available online at: report.sustain.ubc.ca

Further details on sustainability initiatives and progress toward meeting defined targets can be found in UBC’s STARS reports, available online at: http://www.stars.aashe.org

For a full list of UBC Sustainability plans, policies and reports, refer to: http://sustain.ubc.ca/our-commitment/strategic-plans-policies-and-reports.
ISCN PRINCIPLE 1: SUSTAINABILITY PERFORMANCE OF BUILDINGS ON CAMPUS

To demonstrate respect for nature and society, sustainability considerations should be an integral part of planning, construction, renovation, and operation of buildings on campus.
Building Design & Commissioning

UBC’s Campus + Community Planning (C+CP) department provides regulatory oversight and formulates policy and guidelines for the design and construction of buildings on campus, including the coordination of the University’s numerous green building initiatives. Green building policies and guidelines for University-owned institutional buildings are summarized in the UBC Vancouver Campus Plan Design Guidelines and detailed design requirements are included in the Technical Guidelines.

A key aspect of UBC’s green building policy is to promote design processes that encourage integrated design. To this end, C+CP requires that design teams follow the UBC Sustainability Process for major academic projects which includes the development of a Project Design Brief identifying each project’s social, economic and environmental sustainability goals and sustainability workshop requirements.

All new buildings must be certified green buildings: LEED Gold for academic lands and Residential Environmental Assessment Program (REAP) Gold in the residential neighbourhoods. For LEED projects, UBC developed a LEED Implementation Guide to assist with credit administration and to create better alignment with UBC’s sustainability goals. For residential neighbourhoods, UBC developed the Residential Environmental Assessment Program (REAP) for green building certification of multi-unit residential buildings.
Energy & Water Services
UBC’s Energy and Water Services (EWS) unit provides electricity, natural gas, thermal energy and water services exclusively to the UBC community, which includes residential neighbourhoods, commercial outlets and schools. EWS’s customer base consists of the UBC academic and administrative campus, ancillaries (such as Athletics and the UBC bookstore), and tenant customers, including the University Neighbourhoods Association (UNA).

Building Systems Performance
UBC institutional buildings are maintained and operated by Building Operations and student residences are managed by Student Housing and Hospitality Services (SHHS). Both departments are committed to optimizing the performance of building systems on campus. This includes implementing operations and controls strategies, mechanical and water system upgrades and repairs along with preventative maintenance. C+CP provides strategic policy direction and advisory support to these departments by assisting with the planning and piloting of new initiatives. Further strategies are outlined in departmental sustainability frameworks for Building Operations and SHHS.

Green IT
UBC’s Information Technology (UBC IT) department is implementing initiatives that reduce energy demand associated with the operation of IT infrastructure and equipment and identifying ways to promote purchasing of environmentally preferable products and reduce paper consumption and e-waste. C+CP provides advisory support to UBC IT by assisting with the planning of new sustainability initiatives and promotion of sustainable purchasing of computers and power management. Further strategies are outlined in the UBC IT Sustainability Framework.

Materials & Waste
The purchasing of materials and products on campus is not centralized. UBC’s Payment & Procurement Services (PPS) department provides expertise and advice when purchasing goods and services for the campus community. UBC’s waste collection is managed by Building Operations for academic buildings and by SHHS for residential buildings. C+CP works closely with Building Operations, PPS and SHHS in planning new sustainability initiatives to promote sustainable purchasing, reduce waste generation and increase waste diversion. The mandate and direction for taking action on what UBC purchases and how we manage waste on campus is defined in UBC’s Zero Waste Action Plan and outlined in departmental sustainability frameworks.

Engagement Programs
UBC delivers award-winning engagement programs to build awareness and enable individuals to exemplify sustainable practices and behaviours on campus. Key programs include: Sustainability Ambassadors, Sustainability Coordinator Program, Sustainability in Residence, Green Labs Program and the UBC SEEDS Program. The UBC Sustainability Initiative, C+CP, SHHS, Risk Management Services and PPS play key roles in implementing these programs. In 2013, UBC completed a Campus Sustainability Engagement Strategy which informs how our engagement programs can encourage high-impact resource conservation behaviours.
UBC Okanagan

UBC’s Okanagan campus is committed to the sustainable planning, construction, renovation, and operation of its buildings on campus. Targeted measures are focused on district energy, green building design and operation, resource conservation, waste reduction and campus community engagement. Aligned with C+CP’s regulatory structure and policies, Campus Planning and Development (CP+D) is updating the UBC Okanagan Campus Plan Design Guidelines update to ensure consistency with the overall vision and sustainable development planning and design directions in the UBC Okanagan Campus Plan.

New institutional buildings are designed to LEED ® Gold Standard and UBC’s Residential Environmental Assessment Program (REAP) standards to conserve energy, water and reduce greenhouse gas (GHG) emissions. A district energy system sources renewable earth energy from aquifer groundwater to heat and cool new academic buildings, and heat original campus buildings. The performance of original campus buildings is further optimized through technical retrofits and controls measures undertaken through a building optimization program. Solar-powered waste and recycling infrastructure reduces operational costs and emissions from transport. Server virtualization, power reduction software and energy efficient equipment supports sustainable power management.

Complementing the sustainability of the physical campus buildings and infrastructure, engagement programs targeting the reduction of waste, energy and emissions through behavior change are in place. Key programs include, “Your Waste, Your Responsibility” desk-side waste and recycling, and “the Power of You”, a behavior change energy conservation program.
ISCN PRINCIPLE 2:  
CAMPUS WIDE MASTER PLANNING AND TARGET SETTING

To ensure long-term sustainable campus development, campus-wide master planning and target-setting should include environmental and social goals.

Previously a parking lot, Martha Piper Plaza and the University Boulevard water feature collects storm water runoff, cleaning and storing it in a cistern underground. Part of UBC’s Integrated Stormwater Management Plan, this unique feature also creates a vibrant space for social and community gathering.
## MANAGEMENT APPROACH

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To access referenced pages, refer to the full report available at: report.sustain.ubc.ca.

### Master Planning

C+CP provides the planning and regulatory oversight for buildings, infrastructure and spaces on campus lands. UBC’s Strategic Plan, Place and Promise: The UBC Plan, together with the Vancouver Campus Plan, UBC Land Use Plan, and Public Realm Plan, guide the physical planning of UBC’s Vancouver campus and provide the foundation for developing and evaluating proposed physical changes, and help shape the University’s form, character, and landscape. UBC’s Development and Building Regulations provide a municipal-like regulatory structure for the development of institutional and non-institutional lands at UBC Vancouver. The UBC Development Handbook establishes additional regulations in accordance with the Land Use and Permitting Policy, UBC’s Land Use Plan and UBC Vancouver Campus’ Neighbourhood Plans by balancing public objectives and development interests.
UBC Okanagan Campus Master Planning and Sustainability

UBC Okanagan Campus Planning and Development (CP+D) has been established to provide long-range planning and implementation for the use and development of campus lands, including policy, guidelines, and review processes. Building on the foundations of the 2005 and 2009 Master Plans, The UBC Okanagan Campus Plan was developed and approved by the Board of Governors in September 2015. The Campus Plan is the result of a comprehensive technical and public consultation process that began in 2013 and involved a broad range of staff, technical specialists, and campus and community stakeholders. It provides a long-term planning framework for existing and future academic and research activities, student housing, and associated campus services and infrastructure for the next 20 years.

In parallel to the Campus Plan, a Whole Systems Infrastructure Plan was developed to support the implementation of the Campus Plan by guiding future infrastructure planning, investment and management in a manner that supports sustainable development. The Plan is intended to provide the campus sustainability roadmap to achieve reductions in energy use, greenhouse gas emissions and water use, as well as managing 100% storm water on-site, and supporting the sites ecology and biodiversity.

20 Year Sustainability Strategy

In 2014, UBC completed a 20-year Sustainability Strategy for next generation sustainability at UBC’s Vancouver campus, across teaching, learning, research, partnerships, operations and infrastructure, and the community. In developing the strategy, UBC convened a Steering Committee chaired by the Associate Provost, Sustainability and composed of 21 community members, including, students, faculty, staff, external partners, the University Neighbourhoods Association and the Musqueam First Nation. The Steering Committee provided oversight on the engagement process, considered community feedback and drafted the strategy. The process engaged over 2,000 people, both online and in-person, and was finalized and reported to the Board of Governors in Fall 2014.

Operational Sustainability Strategy

In 2013, UBC began development of an Operational Sustainability Strategy, which will outline UBC’s strategic framework for improving the campus’ operational sustainability performance. As part of this process, C+CP began working with key operational departments, helping them identify strategic sustainability objectives and actions that will enable UBC to achieve long-term campus wide targets in energy, climate, waste, and water. Department-level sustainability frameworks which identified a series of actions toward meeting departmental targets and goals were completed for UBC Building Operations, Student Housing and Hospitality Services, Payment and Procurement Services and UBC Information Technology departments.

Energy & Emissions

In 2010, UBC announced our Vancouver Campus Climate Action Plan, committing to reduce GHG emissions 33 per cent by 2015, 67 per cent by 2020, and 100 per cent by 2050, compared to 2007 levels. Several operating units are responsible for implementing the plan. UBC’s core climate action projects will together achieve our target of reducing emissions by 33 per cent by 2015. In 2015, UBC began developing an updated Climate Action Plan to outline steps towards achieving our 2020 GHG
reduction targets. UBC produces annual Carbon Neutral Action Reports and GHG inventories that are submitted to the Province of British Columbia as required under Carbon Neutral Government Regulation. Since 2010, UBC has been required to report on and purchase carbon offsets for emissions from all properties owned and leased by UBC and its subsidiaries, as per provincial legislation. UBC’s Energy & Water Services department updates and implements UBC’s Energy Management Plan, designed to maintain energy savings and identify further electricity and natural gas conservation opportunities and efficiencies. In 2013, UBC completed a Community Energy and Emissions Plan in conjunction with BC Hydro and the University Neighborhoods Association which identifies solutions to reduce emissions from UBC’s residential community. In 2014, UBC received regulatory approval for the Neighborhood District Energy System, which will provide low-carbon energy for UBC’s Vancouver campus residential neighborhoods.

Water
In 2014, UBC completed a long-range Integrated Stormwater Management Plan to improve the handling of stormwater and rainwater run off on campus. In 2016, UBC will continue development of UBC’s Water Conservation Action Plan to enhance water conservation and efficiency for UBC Vancouver’s campus.

Materials & Waste
In 2014, UBC completed and began implementation of our Zero Waste Action Plan, which outlines goals, targets, and actions for reducing waste generation and increasing waste diversion on campus. The plan will be implemented over the next three to five years and will help us meet or exceed what is required by regional waste management regulations, including the Metro Vancouver regional organics disposal ban, effective 2015.

Transportation
C+CP works to reduce automobile trips to and from UBC, by promoting more sustainable modes of transportation including transit, carpooling, walking and cycling and expanding campus housing options targeted toward students, staff and faculty. Updated in 2014, the UBC Transportation Plan is the guiding document for transportation objectives and initiatives on UBC’s Vancouver campus and in turn informs the development of other transportation related plans, policies and projects.

Housing Action Plan
In 2010, UBC’s Board of Governors adopted The University Community on Campus – UBC’s Housing Action Plan, UBC’s comprehensive plan to improve housing affordability and choice on the Vancouver campus for faculty, staff and students. UBC continues to implement the plan in support of the long-term development of a thriving, diverse, and sustainable community on the Vancouver campus.

Wellbeing At UBC
In 2014, UBC launched Wellbeing at UBC, a university-wide strategic effort to build happier, healthier, and more sustainable campus communities in Vancouver and Okanagan, guided by a Wellbeing Steering Committee made up of senior staff, faculty and student representatives from units across both campuses.
The Bioenergy Research Demonstration Facility (BRDF) at UBC is the first biomass cogeneration—or combined heat and power — project of its kind in North America. The facility is the first to clean and condition biomass (urban wood waste) into an engine fuel grade synthesis gas, or syngas, on a commercial scale.

ISCN PRINCIPLE 3: INTEGRATION OF FACILITIES, RESEARCH, AND EDUCATION

To align the organization’s core mission with sustainable development, facilities, research, and education should be linked to create a “living laboratory” for sustainability.
### MANAGEMENT APPROACH

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### UBC Sustainability Initiative

UBC has committed, at the corporate level, to the deep integration of our operational and academic efforts in sustainability. In 2010, the **UBC Sustainability Initiative (USI)** was established and began its work on deeply integrating UBC’s academic and operational efforts in sustainability across the campus. Under the USI umbrella, many UBC offices, committees and groups work collaboratively under two cross-cutting themes: campus as a living laboratory and the University as an agent of change.

The USI is led by the Associate Provost, Sustainability for the UBC Vancouver campus, and reports directly to a Steering Committee composed of UBC’s Vice President Finance, Resources and Operations; Vice President Research and International; Provost and Vice President Academic; Dean, Faculty of Applied Science; Dean, Faculty of Science; and a student representative.

The USI is comprised of four groups:
- A central office that oversees all USI efforts
- A Teaching, Learning and Research Office
- A Communications and Community Engagement Office
- A Management Team comprised of administrators.

Within **Campus + Community Planning**, the Sustainability and Engineering and Community Development offices work closely with the USI and coordinate UBC’s numerous operational sustainability initiatives. Co-located in the Centre for Interactive Research on Sustainability (CIRS), UBC’s central sustainability offices provide a central hub on UBC’s Vancouver campus to engage with the campus community and facilitate sustainability learning, capacity building and practice throughout the organizational units across the university.
Sustainability Governance

The USI Steering Committee provides strategic guidance and oversight to the UBC’s campus-wide sustainability initiatives including academic, research, operational, and policy decisions.

The USI is supported by sustainability councils, representing staff, students, faculty, and the external community.

- The Student Sustainability Council acts as an advisory body, providing feedback on USI projects and programs, and brings forward relevant student-originated issues to USI. The Council is a conduit for communicating student-originated sustainability priorities in teaching and learning programs, research and partnerships opportunities, and campus operations.

- The Regional Sustainability Council is comprised of leaders from both UBC and the broader sustainability community, from the private, public and NGO sectors in the Vancouver region. The committee provides input on priorities in research and partnerships, teaching and learning, operations and policy recommendations, and meets twice a year.

The USI is further supported by the Sustainability Management Team, comprised of senior operational, teaching, learning, and research staff.

UBC Okanagan Sustainability Office

Within Campus Planning and Development (CP+D), the Okanagan Sustainability Office - established by UBC in 2010 - is responsible for the advancement of sustainability on campus to support its development as a vibrant, regenerative community. Guided by UBC’s strategic plan and sustainability commitments, the office develops sustainability strategies, plans and initiatives and builds leadership practices across the campus to broaden the impact of sustainability. Working closely with both UBC campuses, the office supports the academic mission as a key collaborator in campus as living laboratory and wellbeing initiatives. The office develops strategic relations with stakeholders, energy utility providers and potential partners in the pursuit of resource conservation, climate stewardship and cost savings.
PHOTO CREDITS

Cover  Award winning Buchanan Courtyard. Photo by Don Erhart.
Page 4  Ladner clock tower in front of UBC Library. Photo by Hover Collective.
Page 6  Interior Shot of the Agora in the new student union building, the Nest. Photo by John Sherlock.
Page 10  Matha Piper Plaza. Photo by Don Erhardt.
pg 14  Bioenergy Research and Demonstration Facility. Photo by Don Erhart.

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