



SUBJECT SUSTAINABILITY REPORT FY 2017-2018

MEETING DATE NOVEMBER 26, 2018

Forwarded on the Recommendation of the President

APPROVED FOR SUBMISSION

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FOR INFORMATION

Report Date 16 October, 2018

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EXECUTIVE SUMMARY

This report fulfils the requirement of UBC’s Sustainable Development Policy 5, demonstrates progress towards UBC’s Strategic Plan Goal: *Lead globally and locally in sustainability and wellbeing across our campuses and communities*, and describes work that delivers within the plan’s four core areas: People and Places, Research Excellence, Transformative Learning, and Local and Global Engagement.

In 2017-2018, UBC Vancouver and UBC Okanagan made significant progress as global and local sustainability leaders through a focus on enhancing human and ecological health by taking a systems-thinking approach. In Vancouver, our emerging Green Building Action Plan outlined incremental improvements for buildings, renovations and retrofits towards a vision of net-positive ecological and human health. We also advanced the implementation of UBC Vancouver’s Climate Action Plan, resulting in 30% reduction in GHG emissions compared to 2007 despite a 21% growth in floor space, but representing a 4% year-on-year increase largely due to new building projects and colder weather. We implemented a program to improve the operational cost and emissions of campus buildings, expected to deliver up to 5,000 tonnes of GHG reductions by 2020. We continued water conservation efforts to reduce water use by 50% since 2000, despite considerable growth in student numbers and campus buildings. UBC Vancouver was able to divert 61.3% of waste from landfills, falling short of the 70% diversion target set for 2016. We improved transit connectivity on both campuses, completing the new transit exchanges in Vancouver and in the Okanagan. Staff also worked to complete the UBC Rapid Transit strategy in 2018.

At our Okanagan campus, the Whole Systems Infrastructure Plan (WSIP) establishes a long-term roadmap for sustainability that integrates campus development, resource use, and ecological enhancement. In line with WSIP 2050 goals, we are designing the Skeena student residence to the Passivhaus standard and expect fall 2018 completion of the Commons building; including connections to the renewable district energy system and

rainwater management features. At our Vancouver campus, we completed the Brock Commons Tallwood House construction; the tallest modern hybrid mass timber building in the world. The project engaged UBC faculty in a range of research projects on the building construction and operation.

Addressing affordability pressures was a key priority throughout 2017-18. UBC Vancouver now offers 814 licensed child care spaces (a 40% increase since 2009), and our updated Child Care Expansion Plan targets a further 398 new child care spaces by 2041. In addition, we added new student housing at ɕəsnəʔəm house in Totem Park, including 354 new first-year beds, increasing the total number of student beds to 11,795 (a 12% increase from the previous year).

We expanded local, regional, and international community engagement, increasing collaboration and partnerships on sustainability issues. We hosted the 2017 International Sustainable Campus Network (ISCN) conference, in partnership with the City of Vancouver, bringing together 80 leading universities from 30 countries to explore how city-campus collaborations can advance climate action and sustainability. We joined the University Climate Change Coalition (UC3), to activate regional climate action along with 18 other leading North American universities. We provided Sustainability Learning Grants to create new sustainability learning opportunities and placed 50 graduate student Sustainability Scholars with 18 regional sustainability partner organizations including BC Hydro and the City of Vancouver. Our students, faculty and staff also made significant contributions to sustainability through innovations such as the Campus Biodiversity Initiative: Research and Demonstration (CBIRD) program – the first campus-wide initiative of its kind at a Canadian university.

Our priorities for the 2018-2019 fiscal year are summarised at the end of this report, and highlight our plans across both campuses to further embed sustainability within our Teaching, Learning and Research, Operations and Infrastructure, Community Development, and Communications and Engagement activities. We look forward to reporting next year on our achievements in demonstrating leadership in sustainability and wellbeing on global and local scales.

PART ONE: 2017-2018 FISCAL YEAR HIGHLIGHTS

I. TEACHING, LEARNING AND RESEARCH

Key Achievements

- **Awarded grants and fellowships through the *Sustainability Learning Pathway Grants* program** to faculty members and departments to support them in creating new sustainability learning opportunities. We established a new sustainability-focused cohort of 35 faculty within the Teacher Education program, and developed a Sustainable Foods Systems minor in the Faculty of Land and Food Systems, open for the first time to students from other faculties.
- **Launched the Campus Biodiversity Initiative: Research and Demonstration (CBIRD) program** to connect academics, practitioners and community partners through applied research that advances biodiversity policies and practices at UBC and beyond. The first campus-wide initiative of its kind at a Canadian university, CBIRD partnered with 17 UBC faculties, departments and operational units, engaged hundreds of students, and contributed to a number of emerging sustainability plans and strategies.

- **Completed Brock Commons Tallwood House research** – a three-year interdisciplinary project in partnership with faculty in Forestry and Civil Engineering to study the design, construction and performance of this innovative mass timber high rise. The project demonstrated how the alignment of advanced computer modelling and prefabrication technology, along with the use of mass timber, improved construction performance, safety and accuracy, and will inform future projects and policies related to tall wood buildings.

Program and Project Updates

- UBC Sustainability Scholars Program matched 50 graduate students from 25 different programs to applied work experience with 18 regional sustainability partner organizations.
- SEEDS Sustainability Program created partnerships between over 1,000 students, faculty, staff and community partners to work on applied research projects to inform UBC sustainability plans including the Green Buildings, Zero Waste, and Climate Action Plans.
- Student sustainability learning supported through mentoring and academic advising services.
- Annual faculty consultation identified 635 sustainability-oriented courses across all faculties and 450 faculty members who are engaged in sustainability research.
- Social and Environmental Impact Investing in Indigenous Communities Report – examined investing in the sustainable development of Indigenous communities in Canada.

II. OPERATIONS AND INFRASTRUCTURE

(a) Vancouver Campus

Key Achievements

- **Collaborated with Metro Vancouver and the City of Vancouver to reduce foodware waste.** In early 2018, we began collaborating on the development of our Zero Waste Foodware Strategy to increase the recycling rates of single-use food serviceware and packaging.
- **Developed a new Green Building Action Plan** that outlines incremental improvements for new buildings, renovations and retrofits towards a vision of net-positive ecological and human health. The plan was developed through consultation with over 30 focus groups including staff, faculty, students and green building consultants, and was informed by 23 SEEDS applied research projects into building design, biodiversity, climate adaptation and resilience, and stormwater management.
- **Supported the Province to develop the BC Energy Step Code**, a new performance-based approach to help make buildings net-zero energy ready by 2032. UBC participated in a two-year multi-stakeholder consultative process.
- **Completed Brock Commons Tallwood House**, the tallest hybrid mass timber structure in the world at the time of construction. The building both sequesters carbon and manages fire risk, and is considered a leading example of sustainable construction methods in North America.

Program and Project Updates

- Ongoing implementation of the Building Tune Up program, which is planned to reduce both operational costs and offset an additional 5,000 tCO₂e, as per the Climate Action Plan 2020 Update.
- New draft Water Action Plan developed to build on water conservation achievements and guide water management activities in the future – expected to be complete by fall 2018.
- Continued applied research into the challenging and complex problems associated with waste reduction and diversion through the SEEDS Program.

(b) Okanagan Campus

Key Achievements

- **Connected the new Commons building to the District Energy system**, providing ground-sourced energy supply and reducing reliance on conventional natural gas and associated greenhouse gas emissions. In addition, three existing campus buildings underwent retrofits to enhance compatibility with the District Energy system, creating the potential for energy sharing between the buildings.
- **Reduced campus GHG emissions and saved over \$100K in utility costs** through demand-side energy reduction projects in existing buildings. Cumulative savings now total nearly \$900K since 2013.
- **Completed and received executive endorsement of a new Integrated Rainwater Management Plan (IRMP)**, a technical policy framework that provides direction for 100% rainwater management on campus in order to achieve regulatory requirements and safeguard campus infrastructure against flood-related risks.
- **Completed upgrades to utility equipment** and a district energy piping expansion along Alumni Avenue, for future-ready connection.

Program and Project Updates

- Continued to implement energy and carbon reduction actions recommended in the WSIP – achieving a 16% decrease in absolute GHG emissions against the 2013 baseline. Due the cold winter conditions, which resulted in more natural gas use, emissions were up 25% compared to the previous year, but still lower than the baseline year. Overall emissions intensity is also 20% lower per square metre than the baseline year.
- Recalibrated the WSIP's proposed, aspirational GHG reduction targets to account for updated campus growth projections, with new targets currently under review.
- Additional projects to expand the District Energy system, and building retrofits focused on demand-side management to increase energy efficiency and conservation via behavior change.
- Designed and constructed the new transit exchange, Commons building, Upper Campus Connector and adjacent parking lots to achieve the minimum retention requirements of the Integrated Rainwater Management Plan.

III. COMMUNITY

(a) Vancouver Campus

Key Achievements

- **Approved the next steps in UBC's rapid transit strategy with the UBC Board of Governors.** UBC Board endorsed our technical, business, partnership and engagement strategies to unlock the transformational social, environmental and economic benefits that rapid transit will bring to the University and the region.
- **Growth in community programming including three new exciting events to the campus community including:** *Car Free Morning*, which transformed a school street into a family-friendly festival; *Kids Takeover UBC*, which gave kids adult-sized roles in a fun-filled arts festival; and *Pride Picnic*, an outdoor party to celebrate diversity, inclusion and positive space at UBC. Also expanded the community grants programs through partnerships and new funding, enabling the delivery of 40 community-led projects last year, and continued growth in community events and festivals.

Program and Project Updates

- Commenced plans to deliver more than 3,000 new student beds on Academic Lands by 2025, including 1,600 beds underway on the Walter Gage Infill and Brock Commons Phase 2 sites.
- Co-developed 210 faculty-staff leasehold housing units to date, and 510 faculty-staff non-market rental units, adding 175 in spring 2018.
- Received 42 applications from faculty for the Prescribed Interest Rate Loan Program to assist with the purchase of a principal residence in Metro Vancouver.
- Musqueam street signs were installed at the Vancouver campus in spring 2018 to give a bilingual experience while travelling on campus and acknowledge the linguistic heritage of UBC's Point Grey campus.
- A Reconciliation Pole carved by 7idansuu (Edenshaw) James Hart, Haida Hereditary Chief and Master Carver was raised according to Haida tradition at the south end of campus.
- The Indian Residential School History and Dialogue Centre (IRSDC) opened in spring 2018.
- Approved a campus bike share program to increase active transport, and enhance on-campus mobility.
- A Wellbeing Strategy for the Vancouver campus, based on the Okanagan Charter, is currently under development with the completion of the first draft expected by October 2018.
- Developed the Healthy Beverage Initiative, a signature project to encourage water consumption and reduce sugar-sweetened beverage consumption at UBC, launching in fall 2018.
- Continued collaboration with the University Neighbourhoods Association (UNA) on partnership programs and financial planning to support a vibrant and growing community, including the ongoing implementation of the UBC/UNA joint financial task force recommendations.

(b) Okanagan Campus**Key Achievements**

- **Completed a new campus transit exchange in 2017**, including new bus bays, layover stations, transit shelters and cycling facilities. The new exchange – a partnership between the Government of Canada, the Province of BC, UBC, and the City of Kelowna – increases the capacity of the existing transit system through additional routes and frequency, increasing peak capacity and transit mode share at UBCO. The project supports sustainable transportation options, and provides a critical hub in the regional transportation network, with daily weekday transit hours of service to UBCO increasing by 14% from 257 in 2017 to 293 in 2018.
- **Commenced plans to deliver 440 new residence beds by 2020-2021, a 25% increase.**
- **Developed multiple road and infrastructure projects** to improve campus access, transit options, and active transportation. This included the extension of John Hindle Drive, and a shared pedestrian and cycling pathway to provide access to campus from the west side, slated for completion by September 2018.
- **Construction of The Commons**, a 60,000+ square foot addition to the existing Library building. The Commons will include a 400-seat classroom; 600 seats for informal learning/collaborative study areas; a digital technology centre; and a visualization lab that provides high-resolution data modeling for research and teaching.

III. COMMUNICATIONS AND ENGAGEMENT**(a) Vancouver Campus****Key Achievements**

- **Hosted the 2017 International Sustainable Campus Network (ISCN) conference**, in partnership with the City of Vancouver, bringing together leading higher-education organizations to explore how city-campus collaborations can advance climate action and sustainability. Over 140 delegates from 80 universities across 30 countries attended the event – and in an ISCN conference first – UBC tracked daily travel, food, energy, and waste to assess conference impact and inform future conference planning.
- **Joined the University Climate Change Coalition (UC3)** to activate regional climate action along with 18 other leading North American universities. As a member, UBC will act as an agent for collective action by convening community and business leaders to accelerate the development and implementation of climate action, policies and solutions.
- **Delivered engagement initiatives through our Green Labs program** to reduce the significant environmental impact of UBC's 400 research laboratories. This included completing a comprehensive laboratory equipment inventory, analysing research equipment in major laboratory buildings to identify the highest impact energy conservation opportunities.
- **Launched the Student Sustainability Network (SSN)** – to connect students to UBC departments that are seeking volunteers for sustainability events and initiatives, and provide students with professional development and community building experience. In its first year, 119 students joined the Network and supported over 130 requests for volunteers.

Program and Project Updates

- Hosted three globally-recognized authors at our UBC Reads Sustainability speaker series - Duncan McCue author of *The Shoe Boy*, Joel Solomon author of *The Clean Money Revolution*, and Elizabeth May author of *Who We are: Reflections on My Life and Canada*.
- Launched the Water Wise campaign in five major residences, encouraging 6,000 students to take shorter showers to save energy and water.
- Delivered 15 workshops, events, and campaigns reaching over 8,000 employees and engaging 42 academic and operational departments to promote sustainable workplace practices.
- Received two Best in Region awards for the 5th year in a row during the bi-annual Bike to Work Week competition.
- Delivered the 2nd annual campus-wide Seasonal Shutdown energy conservation campaign.
- Reduced energy consumption in ultra-low temperature freezers via the Chill Up campaign, and updated the Shut the Sash campaign to further reduce GHG emissions from fume hoods.

(b) Okanagan Campus

Key Achievements

- **Planted the Okanagan Campus Nectar Trail**, including an array of wild pollinator plants along Discovery Avenue, in order to provide critical habitat for bees, birds and other pollinating species. A collaborative campus community effort to support ecological health and biodiversity, as part of a broader series of gardening workshops and educational campus trail walks.
- **Achieved significant energy conservation and waste diversion in labs, residences, and offices** through behavioural change campaigns. Results included over 400 new sustainability pledges, a five-fold increase in lab recycling reports, a 14% increase in reusable foodware and the powering down of over 5,000 lights and 200 windows for energy and cost savings.

PART TWO: 2018-2019 FISCAL YEAR STRATEGIC PRIORITIES

(a) Vancouver Campus

TEACHING, LEARNING AND RESEARCH

- Simplify the landscape of sustainability resources and information at UBC to advance student learning and leadership opportunities.
- Develop an existing baseline of biodiversity on campus, and demonstrate biodiversity pilot projects through CBIRD engagement and collaboration.
- Strengthen academic collaborations with key faculty and strategic industry partnerships in support of expanded research programs.

OPERATIONS AND INFRASTRUCTURE

- Achieving the 2020 target of 67% reduction in GHG emissions will require an additional reduction of roughly 23,000 tCO₂e from our 2017 emissions. The majority of the desired reductions can be achieved by proposed projects such as the BRDF expansion, which will reduce emissions by an estimated 13,000 tCO₂e per year. The remaining 10,000 tCO₂e reduction is expected from the continued implementation

of a variety of energy conservation measures, innovative projects like WiFi analytics, the Building Tune Up program, and behaviour change campaigns. These initiatives alone are not enough to reach the 2020 emissions target and UBC will need to consider options that either accelerate reductions or modify the target year. It should be noted that UBC achieved the provincial 2020 target of a 33% reduction in 2016, and remains a clear leader among public institutions regionally and internationally.

- UBC diverted 61.3% of its waste from landfill in 2017-18. Our 2016 waste diversion target of 70% waste diversion was not met, in part due to complex barriers within and outside UBC, and often limited implementation resources across participating departments. A significant number of initiatives continue to advance towards achieving our Zero Waste target of 80% diversion by 2020, including developing improved waste monitoring, actions to address contamination of food scraps composting, and reducing the consumption of single-use food and beverage items.

COMMUNITY

- Final phase of ongoing Stadium Neighbourhood planning process, including multi-stakeholder and partner engagement, to commence in fall 2018.
- Continued planning of a rapid transit strategy, including technical, economic and business studies to support extension to the Vancouver campus. Engagement of rapid transit partnerships through partner MOUs.
- Finalize plan for stronger offsite presence, particularly in downtown Vancouver.
- Address affordability by accelerating student housing growth through planning for Gage Infill and Brock Commons Phase II and enhanced ownership and rental opportunities for faculty and staff through the Housing Action Task Force.
- Continued expansion of Bike Share program on campus, subject to findings from the pilot phase.
- Implementation of Childcare Expansion Plan at UBC Vancouver.

COMMUNICATIONS AND ENGAGEMENT

- Build connections and strengthen capacity within our campus community to improve student leadership for sustainability.
- Refresh websites for UBC Sustainability Initiative and Campus & Community Planning to host academic and operational sustainability plans respectively.
- Develop a refreshed strategy and convene regional leadership table on sustainability.
- Leverage UBC's reputation as a global sustainability leader through engagement with the ISCN secretariat and board, and lead UBC's regional engagement in line with its commitment to UC3.
- Decide whether to resubmit for assessment in 2019 to the Sustainability Tracking, Assessment & Rating System (STARS) from the Association for the Advancement of Sustainability in Higher Education (AASHE) pending changes to their methodology.

(b) Okanagan Campus

OPERATIONS AND INFRASTRUCTURE

- Continued implementation of the Whole Systems Infrastructure Plan (WSIP) and Integrated Rainwater Management Plan (IRMP).
- Develop a District Energy Strategy in close coordination with the development of a new campus climate policy, in line with WSIP goals.
- Update Campus Design Guidelines to incorporate WSIP green building design recommendations related to net positive design goals for all future buildings.
- Implement a pond level-monitoring program, as recommended by the IRMP, to measure the impact of campus land-use development on stormwater retention over time.
- Implement campus waste signage program to reduce operational waste and improve overall waste diversion compliance.

COMMUNITY

- Implement the closure of University Way between Alumni Avenue and International Mews in September 2018 – the first step of a phased process to transform the area into a pedestrianized public space with opportunities for connecting, gathering and studying.
- Completion of design of Skeena student residence, to be built to the Passivhaus standard.

COMMUNICATIONS AND ENGAGEMENT

- Implement the final year of the campus conservation awareness and action strategy focused on scaling up existing campaigns to include certification programs (e.g. *Greening Your Office*).
- Add geo-exchange, composting education, green buildings, campus ecology and biodiversity to the campus sustainability tour program.
- Extend the campus nectar trail and construct ‘pollinator hotels’ that will provide habitat for pollinating species such as bees, wasps, beetles and butterflies. Educational signage will explain the purpose of the hotels and raise awareness of the importance of pollinators to our ecosystem.

Attachments

- 2017-2018 UBC Annual Sustainability Report (print copy available on December 4)
- Appendix – Performance data

INSTITUTIONAL STRATEGIC PRIORITIES SUPPORTED

- ✓ Learning ✓ Research ✓ Innovation ✓ Engagement
 (Internal / External) ✓ International

or ✓ Operational

DESCRIPTION & RATIONALE The 2017-2018 UBC Annual Sustainability Report provides an overview of academic and operational sustainability, communication and engagement activities, and achievements at UBC’s Vancouver and Okanagan campuses.

BENEFITS The Annual Sustainability Report provides an opportunity to monitor and make continuous improvements in regards to our goals and targets. The report helps to demonstrate UBC's leadership and progress related to sustainability across the University.

Learning,
Research,
Financial,
Sustainability &
Reputational

RISKS There is relatively low risk associated with the attached report. There is a potential reputational risk if UBC is not able to deliver on its approved sustainability goals and targets.

Financial,
Operational &
Reputational

APPENDIX – PERFORMANCE DATA

I. Vancouver Campus - Teaching, Learning and Research

Performance Metrics	2017-18	Change from Previous Year
Total Sustainability Courses (#)	635	-5%
Sustainability-related Academic Programs	62	N/A
Faculty Engaged in Sustainability Research (#, % of all faculty)	450 (18%)	+6%
UBC Sustainability Scholars (# of internships with partners)	50	+9%
SEEDS participants (# of students, faculty, staff)	958	N/A
SEEDS projects (#)	119	N/A
SEEDS research reports (#)	197	+13%

II. Vancouver Campus – Operations and Infrastructure

GOALS AND TARGETS	METRIC	2017-2018	CHANGE FROM PREVIOUS YEAR	TARGET	PROGRESS TOWARDS TARGET
CLIMATE LEADERSHIP					
Target 1: Reduce UBC Vancouver campus emissions by 67% by 2020.	Annual GHG emissions	42,786	-6%	20,157	45%
Target 2: Reduce UBC Vancouver campus emissions by 100% by 2050.	Annual GHG emissions	42,786	-6%	--	30%
ZERO WASTE					
Target 1: Increase overall waste diversion rate to 70% by 2016.	% waste diverted from landfill	61%	+8%	70%	88%
Target 2: Increase overall waste diversion rate to 80% by 2020.	% waste diverted from landfill	61%	+8%	80%	77%
Target 3: Achieve a decreasing trend in operational waste disposed to landfill/incineration despite forecasted campus growth.	Waste diversion trend line from 2010				

III. Vancouver Campus – Community

TRANSPORTATION					
Target 1: Reduce single occupant vehicle trips to and from UBC by 20% from 1997.	% SOV of the total mode share	30%	-19%	20%	57%
Target 2: At least 67% of all trips to and from UBC will be made by walking, cycling or transit by 2040.	% walking, cycling and transit of the total mode share	69%	+11%	67%	103%
Target 3: At least 50% of all trips to and from UBC will be made by public transit by 2040.	% transit of the total mode share	52%	0%	50%	104%
STUDENT HOUSING					
Target: Build up to the land use capacity of SHHS-operated housing on Academic Lands.	Total number of student beds on campus	11,796	+7%	17,300	68%
CHILDCARE					
Target 1: Meet 15% of the infant/toddler/preschooler estimated unmet child care need by 2024.	Total number of child care spaces	814	+6%	996	82%
Target 2: Meet 20% of the unmet child care need by 2041.	Total number of child care spaces	814	+6%	1,212	67%

IV. Vancouver Campus – Communications and Engagement

Performance Metrics	2017-18	Change from Previous Year
STARS Rating (valid August 2015 – August 2018)	Gold	N/A
Sustainability Coordinators in Offices (#)	82	+17%
Sustainability Coordinators in Labs (#)	40	No change
Sustainability Tours (#)	154	N/A
Sustainability Tour Participants (#)	2,209	N/A
Digital Engagement – website users (#)	56,736	+3%

V. Okanagan Campus - Operations and Infrastructure

GOALS AND TARGETS	METRIC	BASELINE	2017-2018	CHANGE FROM PREVIOUS YEAR	CHANGE FROM BASELINE
CLIMATE LEADERSHIP					
WSIP 2050 Goal #1: Achieve a net positive performance in operational energy and carbon by 2050.	Annual GHG emissions	3,630	3,055	+25%	-16%
WASTE					
WSIP 2050 Goal #6: Strive towards full waste recovery/reuse.	Operational waste disposed	707	635	+1%	-10%
	% waste diverted from landfill	22%	33%	+6%	+11%
Demonstrate increasing trend in operational waste diverted from landfill.	Waste diversion trend line from 2010				

VI. Okanagan Campus – Community

TRANSPORTATION					
	Single occupant vehicle trips to and from UBC Okanagan.	42%*	35%	-12%	-7%
	Trips made to and from UBC Okanagan made by walking, cycling, carpool or transit.	55%*	64%	+13%	+8%
	Trips to and from UBC Okanagan made by public transit specifically.	34%*	33%	+6%	-1%
* Baseline 2009 data collected and reported biennially.					
STUDENT HOUSING					
	Total number of student beds on campus.	968	1,676	0%	+73%
CHILDCARE					
	Total number of child care spaces.	36	36	0%	0%

VII. Okanagan Campus – Communications and Engagement

Performance Metrics	2017-18	Change from Previous Year
Power of You (# of volunteers)	23	N/A
Sustainability Tours (#)	1	N/A