



SUSTAINABILITY COORDINATOR (SC) ORIENTATION

2020 | TAWNEE MILKO, SUSTAINABILITY ENGAGEMENT LEAD
CAMPUS & COMMUNITY PLANNING- SUSTAINABILITY & ENGINEERING





LEARNING OBJECTIVES

- Learn about UBC's sustainability plans, initiatives, and programs
- Learn about the Sustainability Coordinator (SC) role and resources available
- Gain practical tips on how to promote and implement sustainable practices in the workplace
- Meet other SCs and share ideas/challenges



SUSTAINABILITY AT UBC: OVERVIEW





UBC CONTEXT

- **402 hectare campus**
- **55,000+ students**
- **15,000+ staff and faculty**
- **25,000 residents**
- **500+ buildings**
- **15 million square feet building floorspace**
- **70,000+ daytime population**



PLANS & POLICY CONTEXT



2018/19 Fast Facts

VANCOUVER

38% 

reduction in absolute
GHG emissions since
2007

156 

additional below-
market rental units
under construction

49% 

reduction in absolute
water use since 2000

27 

wellbeing projects
supported through
strategic initiatives fund

687 

sustainability-related
courses

66% 

of trips by sustainable
modes of transportation


374 

faculty researching
sustainability-related
topics


26 

student-led groups
participated in Student
Sustainability Council


OKANAGAN

41% 


reduction in absolute
GHG emissions
since 2013

14% 

reduction in absolute
water use since 2013

14% 

increase in waste
diversion rate since
2010

62% 

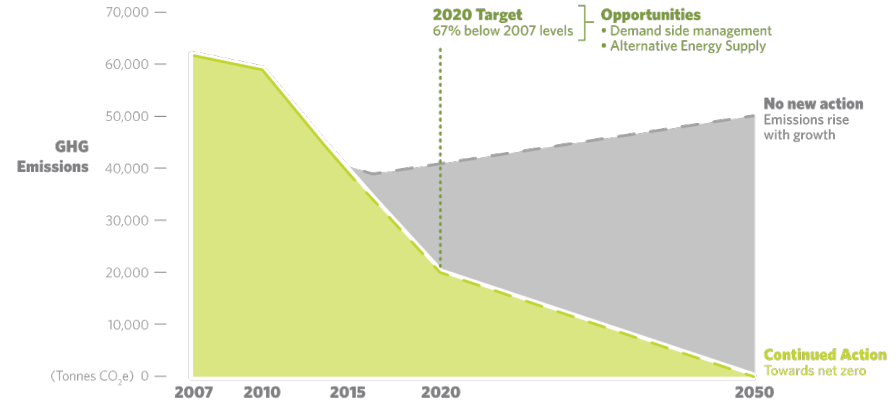
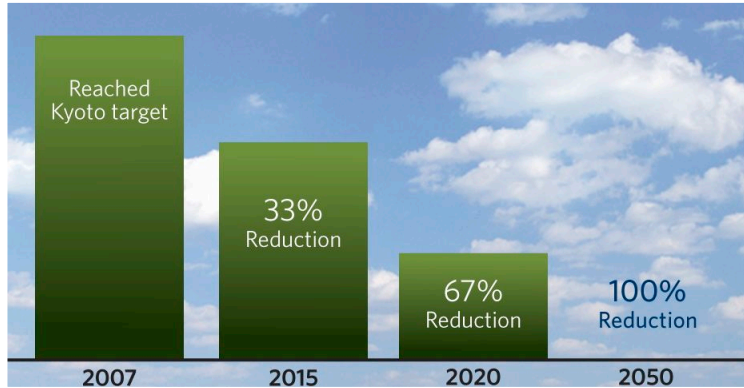
of trips by sustainable
modes of transportation



[Report.sustain.ubc.ca](https://report.sustain.ubc.ca)

CLIMATE ACTION PLAN

Greenhouse gas (GHG) emissions reduction targets:



Key projects:

- District energy system conversion
- Bioenergy facility
- Continuous optimization of buildings
- Building more efficient buildings
- Behaviour Change

CLIMATE ACTION UPDATES



Office of the President

The President | The Office | Communications | UBC's Strategic Plan | Contact Us

Home / Letter to the Community / 2019 / December / 05 / Declaration on the Climate Emergency

Letter to the UBC Community

Declaration on the Climate Emergency

December 5, 2019

This morning, the UBC Board of Governors endorsed the following UBC Declaration on the Climate Emergency. I would like to thank all those who have engaged with us on this issue, especially UBC's students, faculty and staff members. Their activism and passion were essential in getting the university to act on the climate crisis. I hope they continue to hold us up to scrutiny and let us know when we fail to live up to expectations.

Santa J. Ono
President and Vice-Chancellor



Declaration on the Climate Emergency

In declaring a climate emergency, the University recognizes:

- That the climate crisis is posing and will continue to pose extensive and disastrous threats to peoples' lives and livelihoods both locally and globally, contributing to famine, migration, and disease worldwide, including impact on individual physical

- Climate Emergency Declaration and subsequent [Engagement Process](#)
- [Climate Action Plan 2030 update](#)
- Divestment

CLIMATE & ENERGY SAVING TIPS

- **Reduce air travel** (personal and business trips; videoconference if possible)



- **Reduce car trips** (choose bus, bike, carpool)



- **Be mindful of heating & cooling** (wear a sweater; keep windows closed when heat/AC is on)



- **Choose energy efficient products**





CLIMATE & ENERGY SAVING TIPS CONT'D

- **Turn off/unplug equipment and lights**



- **Eat mindfully** (low meat, high veg, local & organic)



- **Measure your carbon footprint**



- **Learn More & Get Involved** (attend a climate event, take a course, join a group, volunteer, participate in climate consultations, educate others, demand climate action from political leaders, vote!)



Pacific Institute
for Climate Solutions
Knowledge. Insight. Action.





ZERO WASTE ACTION PLAN

TARGETS:

- 80% waste diversion by 2020
- Steadily decrease waste disposal to landfill

Sort it Out ♻️

Food Scraps	Compost	Paper	Garbage
<ul style="list-style-type: none">✓ Fruit and vegetable scraps✓ Bread, pasta, rice, cereal✓ Coffee grounds, tea leaves✓ Eggshells✓ Shredded paper	<ul style="list-style-type: none">✓ Yard waste (grass, leaves, twigs)✓ Household appliances (toasters, blenders)✓ Small electronics (cell phones, MP3 players)✓ Small appliances (toasters, blenders)✓ Small electronics (cell phones, MP3 players)	<ul style="list-style-type: none">✓ Newspapers, magazines✓ Office paper, printer paper✓ Cardboard boxes✓ Paper bags✓ Paper plates, cups	<ul style="list-style-type: none">✓ Styrofoam✓ Plastic bags✓ Glass bottles and jars✓ Appliances (stoves, washers, dryers)✓ Large electronics (TVs, computers)✓ Mattresses, carpets

THE UNIVERSITY OF BRITISH COLUMBIA UBC SUSTAINABILITY



ZERO WASTE ACTION PLAN

Major issues:

- Contamination (plastics in organics)
- Single Use Items



2.6 million disposable cups are thrown in the garbage every week in Vancouver.

What should we do to reduce single-use item waste?

Take our survey now.



Current Focus Areas:

- Zero Waste Foodware Strategy (Single use item reduction)
- Reuse
- Education & Engagement



THE UNIVERSITY OF BRITISH COLUMBIA



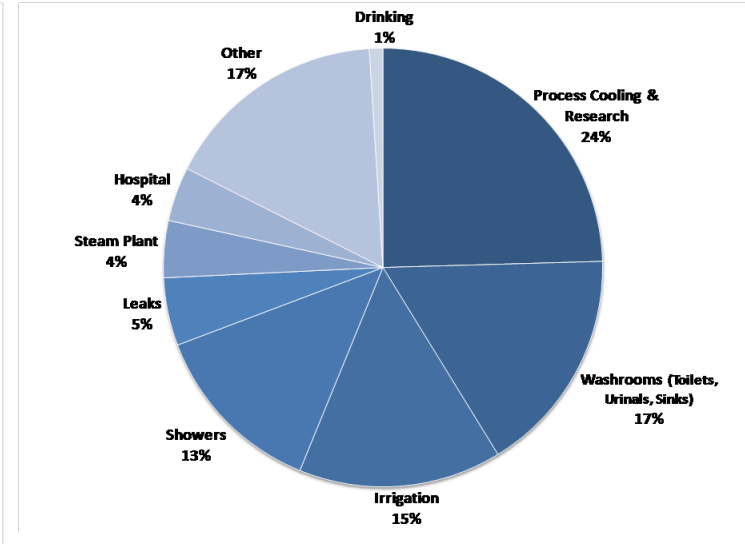
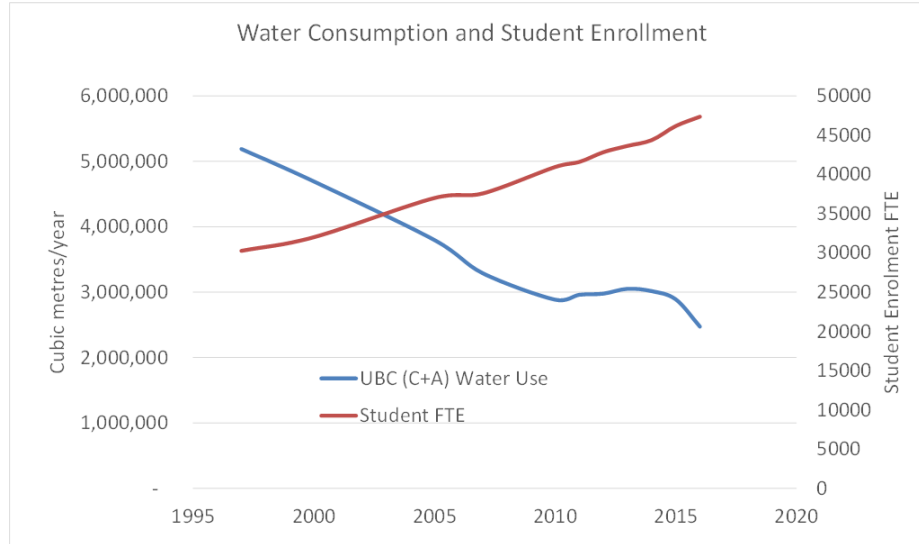
WASTE REDUCTION TIPS

- **Learn what goes where:** educate yourself & others
- **Become a steward of your space:**
 - Monitor recycling stations in your area and look for opportunities to improve
 - Update signage as needed
 - Engage and educate co-workers on how to sort waste correctly and avoid plastics in food scraps
- **Encourage waste reduction & reuse:**
 - Promote reusables (mugs, water bottles, dishware)
 - Avoid single use items
 - Promote reuse



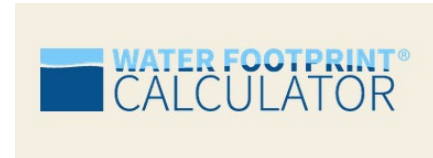
WATER ACTION PLAN

UBC consumes ~3.6 billions liters water/year (1,500 Olympic sized swimming pools!)

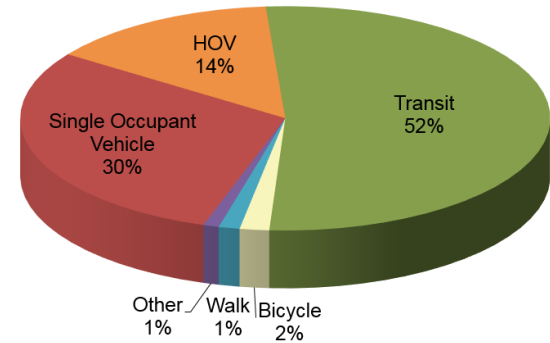


WATER CONSERVATION TIPS

- **Take shorter showers** (Save water and energy!)
- **Report leaky faucets & water waste** (Building Operations [Service Centre online](#) or at 604-822-2173)
- **Full loads only** for dishwashers, washing machines, autoclaves etc
- **Wash clothes in cold water**
- **Drink tap water** instead of bottled water
- **Identify water heavy processes** & opportunities for improvement (esp. in labs)



TRANSPORTATION PLANNING

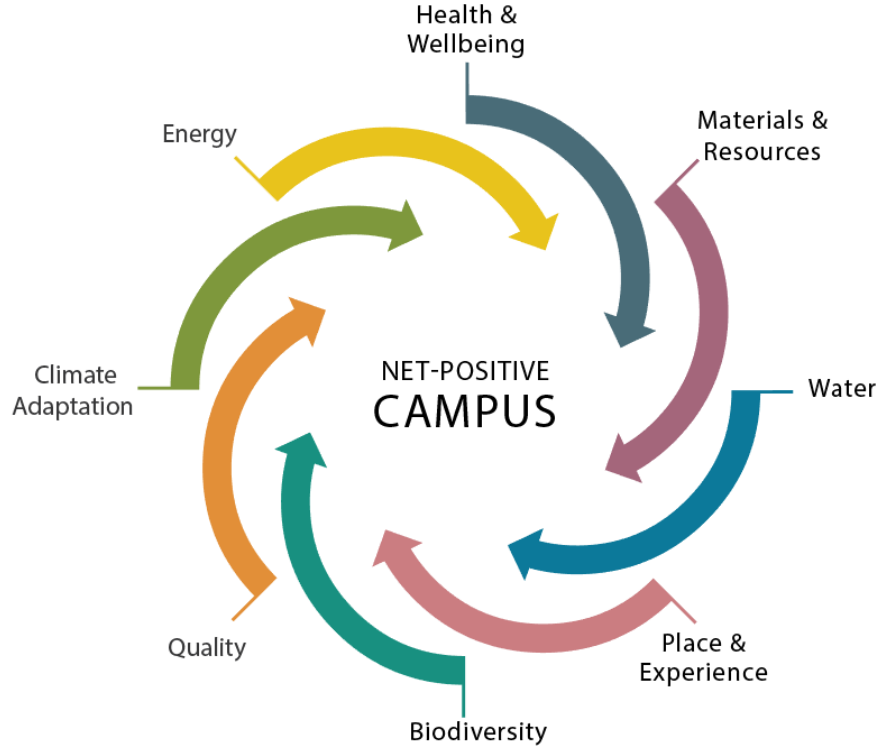


COMMUTING TIPS

- Changing travel mode choice just once/week from SOV to a sustainable mode = thousands fewer vehicle trips each week
 - **Educate & Promote:** Secure bike parking options, end of trip facilities, maps, bike share (HOPR), e-bike program
 - **Support** carpooling in your department
 - **Try out carshare:** locations across campus
 - **Promote** participation in regional Bike To Work Week
 - **Model behaviour and encourage others**
 - **Consider telecommuting**
 - **Learn more about UBC Accessibility Shuttle**
 - **Check out our online resources!**



GREEN BUILDINGS



GREENING THE URBAN ENVIRONMENT: TIPS

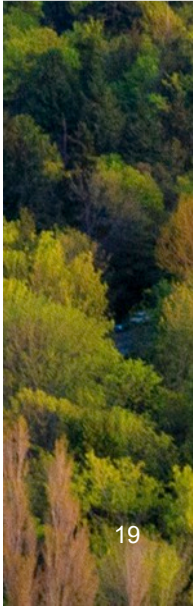
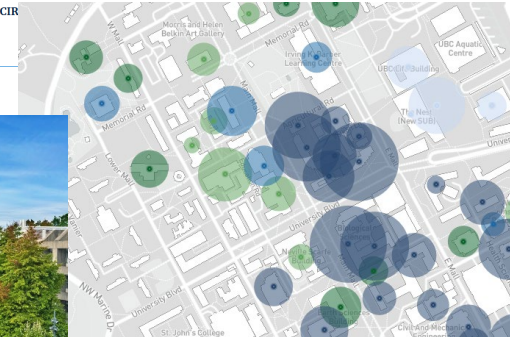
- Check out **UBC's Green Building Plan**
- Take a free guided **Green Building Tour**
- Visit **UBC Botanical Gardens**- team building & education programs
- Learn about UBC's **CBIRD Biodiversity initiative**
- Check out UBC's **Building Energy Visualization map**

GREEN BUILDING GUIDED TOURS

UBC offers free tours for a number of our green buildings. Explore the tour options below, then select "book a tour" to learn all about the innovative features of our most sustainable buildings.

BOOK A TOUR

- AMS Student Union Building (40 minutes)
- UBC Aquatic Centre
- Bioenergy Research & Demonstration Facility (30 minutes)
- Brock Commons Tallwood House
- C.K. Choi + CIRS (1.5 hours)
- Campus as a Living Lab (2 hours)
- Centre for Interactive Research on Sustainability (CIRS)
- Earth Sciences Building (40 minutes)
- UBC's Wood Buildings (2 - 2.5 hours)



SUSTAINABLE PROCUREMENT: TIPS

- Refer to **UBC Sustainable Purchasing Guide**:
 - Top tips for products & services; ecolabel guide
 - What to choose; what to avoid
 - Ensure your departmental administrator, colleagues, and purchasing manager are aware of the guide and refer to it when making purchases
- Choose **50-100%** post consumer recycled (**PCR**) content or **alternative fibre** paper; **Reduce** paper consumption
- **Promote ReUse-it UBC** (online platform to exchange goods & furniture between depts)

SUSTAINABLE PURCHASING GUIDE

Every day, thousands of UBC staff and faculty members and students purchase goods and services that have economic, social and environmental impacts.

This guide has been designed to help you, as a staff and faculty member or student, to purchase sustainable goods and services. The guide supports the adoption of UBC Financial Operations' [Sustainable Purchasing Priorities](#) and reflects a triple-bottom-line approach that balances best value, social equity and environmental protection. Collectively, UBC's purchasing choices can make a positive difference.

[SEARCH THE PURCHASING GUIDE >](#)

[VIEW ECO LABEL GLOSSARY >](#)

What is Sustainable Purchasing?	▾
Why is Sustainable Purchasing important?	▾
Benefits of Sustainable Purchasing	▾
What is UBC Doing to Advance Sustainable Purchasing?	▾
Total Cost of Ownership: Life Cycle Approach	▾
Labels and Certifications	▾
Resources	▾

The UBC Sustainable Purchasing Guide is a collaborative initiative by UBC Supply Management and UBC Sustainability and Engineering. If you have any questions, comments or feedback, please feel free to [contact us](#). To learn more about sustainability initiatives at UBC, visit [sustain.ubc.ca](#)





GREEN LABS



Labs buildings (400+ labs)
account for:



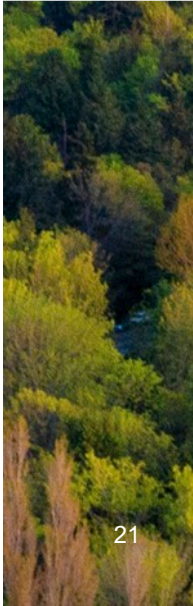
50% of campus energy use
(*\$9M energy costs/year*)



40% of campus water use
(*\$1.4M water costs/year*)



96% of hazardous waste
(*47+ tonnes*)



WHAT IS UBC GREEN LABS DOING




Chill Up Challenge

-70°C is the new -80°C

- Many samples don't need -80°C storage
- Extends freezer lifespan
- Saves on equipment costs
- Conserves up to 42% energy



did you remember to shut the sash?

open fume hoods = energy waste





TAKE ACTION





TOOLKITS




ACT.

Accountability, Consistency, Transparency.

The Environmental Impact Factor Label

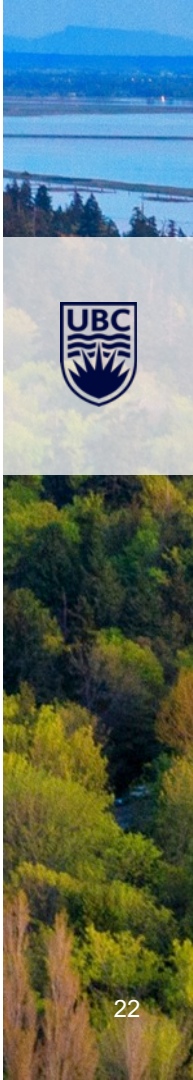
Product Name

Manufacturer: **UBC THE UNIVERSITY OF BRITISH COLUMBIA**

Green Products List

As the demand for greener laboratory products rises, the variety of environmentally friendly products has increased. This list outlines greener alternatives to traditional laboratory products and equipment that are available to the user and environment.

Response	Product	Manufacturer -	Benefit
	ENERGY EFFICIENCY		
	Product		
	Product Content	5.3	



GREEN LABS: WHAT YOU CAN DO



Identify energy hogs in your building/department. Chill Up. Shut the Sash.



Tell us about once through water cooled equipment



Participate in & promote lab plastic recycling



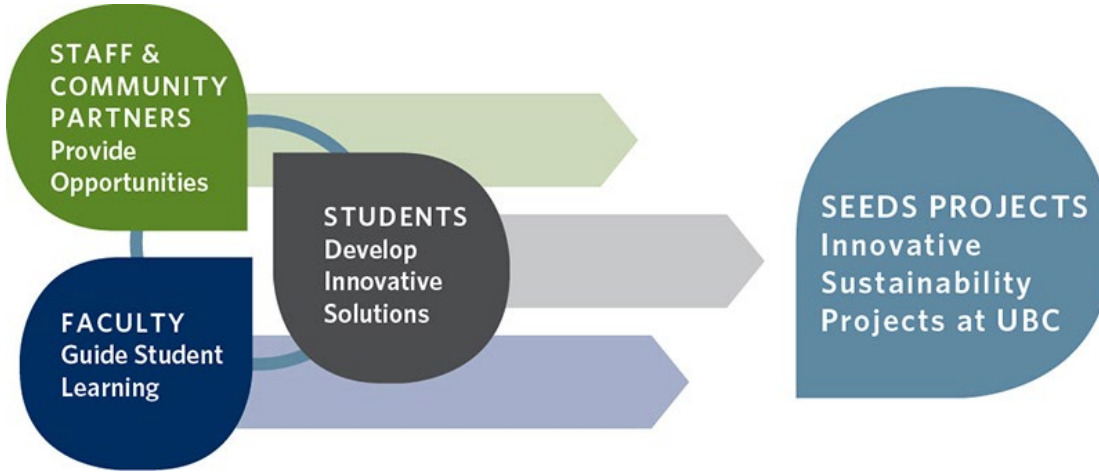
Reduce, Reuse, Recycle. Use the sustainable purchasing guide & ACT label



Join a sustainability committee / green team
Help lead conservation campaigns in your building/department
Integrate sustainability into site orientations



SEEDS SUSTAINABILITY PROGRAM



Sustain.ubc.ca/seeds

SEEDS SUSTAINABILITY LIBRARY

The SEEDS Sustainability Library is a comprehensive repository of applied research and knowledge. It's a key tool for decision makers. Open access applied research reports contribute to a body of knowledge, learning and action to ignite sustainability ideas, policies and practices, and enable the broader community to learn, apply and build on previous research.

The icons represent various sustainability categories: Biodiversity, Buildings, Climate, Community, Energy, Finance, Food, Health, Land, Materials, Procurement, Transportation, Waste, Water, and Wellbeing.

Category **Keyword** **SEARCH** **RESET**

+ Advanced options

OTHER KEY INITIATIVES & DEPARTMENTS



THE UNIVERSITY
OF BRITISH COLUMBIA
Access & Diversity

INDIAN RESIDENTIAL SCHOOL
HISTORY & DIALOGUE CENTRE

BEHAVIOUR CHANGE PROGRAMS



Green Labs

400+ labs on campus



Green Offices

15,000+ employees



**Sustainability in
Residence**

**12,000+ student
residents**

130 Sustainability Coordinators

SC ROLE & RESOURCES



UBC SUSTAINABILITY ENGAGEMENT STRATEGY (2018-2020)

Vision

UBC students, staff and faculty are actively engaged in creating a more sustainable campus and world.

Mission

We develop and deliver programs and strategies to inspire, engage, and activate campus community members to conserve resources, advance a culture of sustainability and support achieving UBC's sustainability goals and targets.

Program Impact Areas



Energy
conservation



Sustainable
purchasing



Transportation



Waste
reduction



Water
conservation



Workplace
engagement

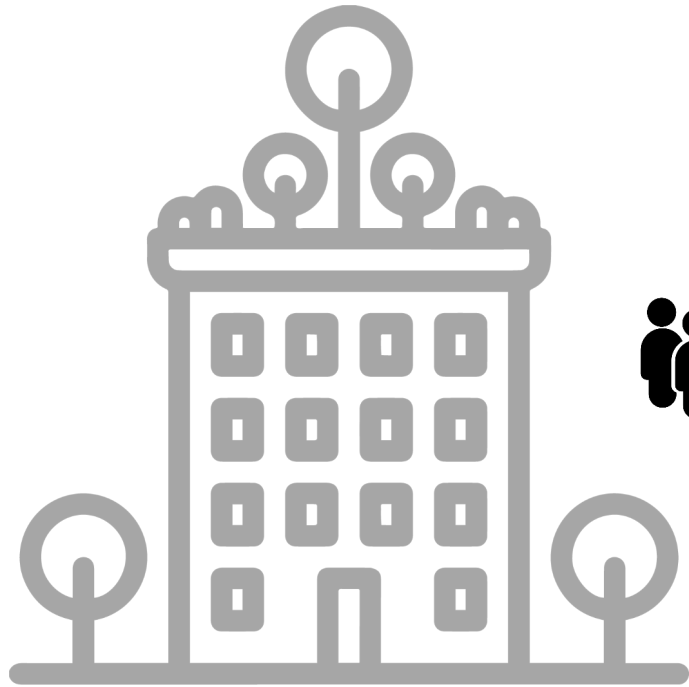
SUSTAINABILITY COORDINATOR PROGRAM

- Fosters a culture of sustainability at UBC
- Distributed leadership model
- YOU as Sustainability Coordinators can help integrate sustainability into your units
- Promotes peer engagement and diffusion of sustainable practices
- Lab & office streams
- [View the history of the SC Program here.](#)





Program Highlights



9,000+

EMPLOYEES REACHED
VIA WORKSHOPS,
EVENTS & CAMPAIGNS
(2018)



130

SUSTAINABILITY
COORDINATORS



42

DEPARTMENTS
ENGAGED



SUSTAINABILITY COORDINATORS HELP TO:



inspire colleagues to adopt sustainable practices and behaviours and conserve resources



deliver information about the ecological impact of daily workplace activities;



identify sustainability initiatives for their departments;



communicate UBC sustainability policies, procedures, news and events;



make sustainability easy and fun.



NETWORK BENEFITS



Access educational events, tours, networking sessions, and Annual Recognition Event



Develop skills through sustainability-related training opportunities



Access resources, tools, and coaching support

Make a difference in the workplace



Eligible for Workplace Sustainability Fund (\$1000) to support department-led initiatives



CAMPAIGNS AND PROGRAMS

Before you leave for the holidays...



sustain.ubc.ca/shutdown

uc sustainability

Lights Out Challenge

Our building is participating in the Lights Out Challenge.

Help save energy by turning lights off when not in use.

Every action counts. Help us meet our energy conservation and climate goals.

Learn more at: sustain.ubc.ca/lights-out



Be Water Wise



5 min shower pledge

Ultra Low Freezer Care

For the Freezer & the Environment

Chill Up

For most bio-microbial and microbial cultures, -70°C is adequate.

Chill Up

For most Micro-microbial and microbial cultures, -70°C is adequate.

I'm Chilled Up to -70C

Chill up was approved by:

Date: _____



Sort it Out.



HUB bike to work week

Oct 29 ▶ Nov 4

presented by 





TAKE ACTION TOOLKITS

Ready. Set. Take action!

You have the passion and ideas to make your world more sustainable. These toolkits will help you get there. Click on the links below for tips, tricks and tools to support your efforts.



Save energy



Reduce waste



Conserve water



Green labs



Purchasing



Climate action



Transportation



Food



Engagement



Get involved



Green events



Social
sustainability

sustain.ubc.ca/toolkits



RESOURCES

- [UBC Sustainable Purchasing Guide](#)
- [Green Events Planning Guide](#)
- [Food Service Ware Guide](#)
- [Sorting Guides & Recycling Signage](#)
- [A-Z Recyclepedia](#)
- [Online waste sorting game](#)
- [Zero Waste Squad](#)
- [SEEDS Library Project Database](#)
- [Take Sustainability Action Tips](#)
- [Green Labs Resources and Toolkits](#)



Sort it Out. ubc sustainability

Food Scraps	Recyclable Containers	Paper	Garbage
Cooled food waste Raw fruit, vegetables & grains Paper towels & napkins Bones & egg shells Dairy products Compostable plates Compostable food containers Coffee grounds & filters Tea bags Wood chopsticks	Plastic #1-7 Glass bottles & jars Metal cans Coffee cups & lids Recyclable plastic bottles Recyclable cups & cutlery Transparent Juice boxes Tetrapak containers Milk cartons	Newspapers & magazines Envelopes Computer paper Cap sleeves Cereal boxes Telephone books Sticky notes	Plastic bags Styrofoam Non-recyclable cutlery Waxed paper
Keep Out Plastic bags & containers Coffee cups, lids & sleeves Biodegradable bags All cutlery & plastic chopsticks Diapers	Keep Out Plastic bags Styrofoam Dishes, glassware or ceramics Aerated cans Woolens or ninnies Unlabeled plastics	Keep Out Milk cartons Used paper cups & plates Pizza boxes	



Sustain.ubc.ca
Greenlabs.ubc.ca

TEACHING, LEARNING & RESEARCH

- **Online directories** for sustainability related courses & degree programs, research groups, researchers
- **Paid internship opportunities** (Sustainability Scholars, Work Learn positions)
- **Co-curricular opportunities & student groups**
- Share information with your student networks!



COURSE LEGEND

- Environment
- Society
- Economy + Technology
- Sustainability Focused

UBC SUSTAINABILITY SCHOLARS PROGRAM

Apply by September 22
sustain.ubc.ca/scholars

THE UNIVERSITY OF BRITISH COLUMBIA
sustainability

The banner features a dark blue background with a light blue circular pattern on the left. It includes an icon of a stack of papers with sustainability symbols (a leaf, a sun, and a wave) on the top paper.

JOIN THE STUDENT SUSTAINABILITY COUNCIL

Apply by Sep 15, 2019
sustain.ubc.ca/council

THE UNIVERSITY OF BRITISH COLUMBIA
sustainability

The banner has a light grey background with a photograph of a young woman with long dark hair looking thoughtful. It features a circular pattern on the left side.



FUNDING OPPORTUNITIES

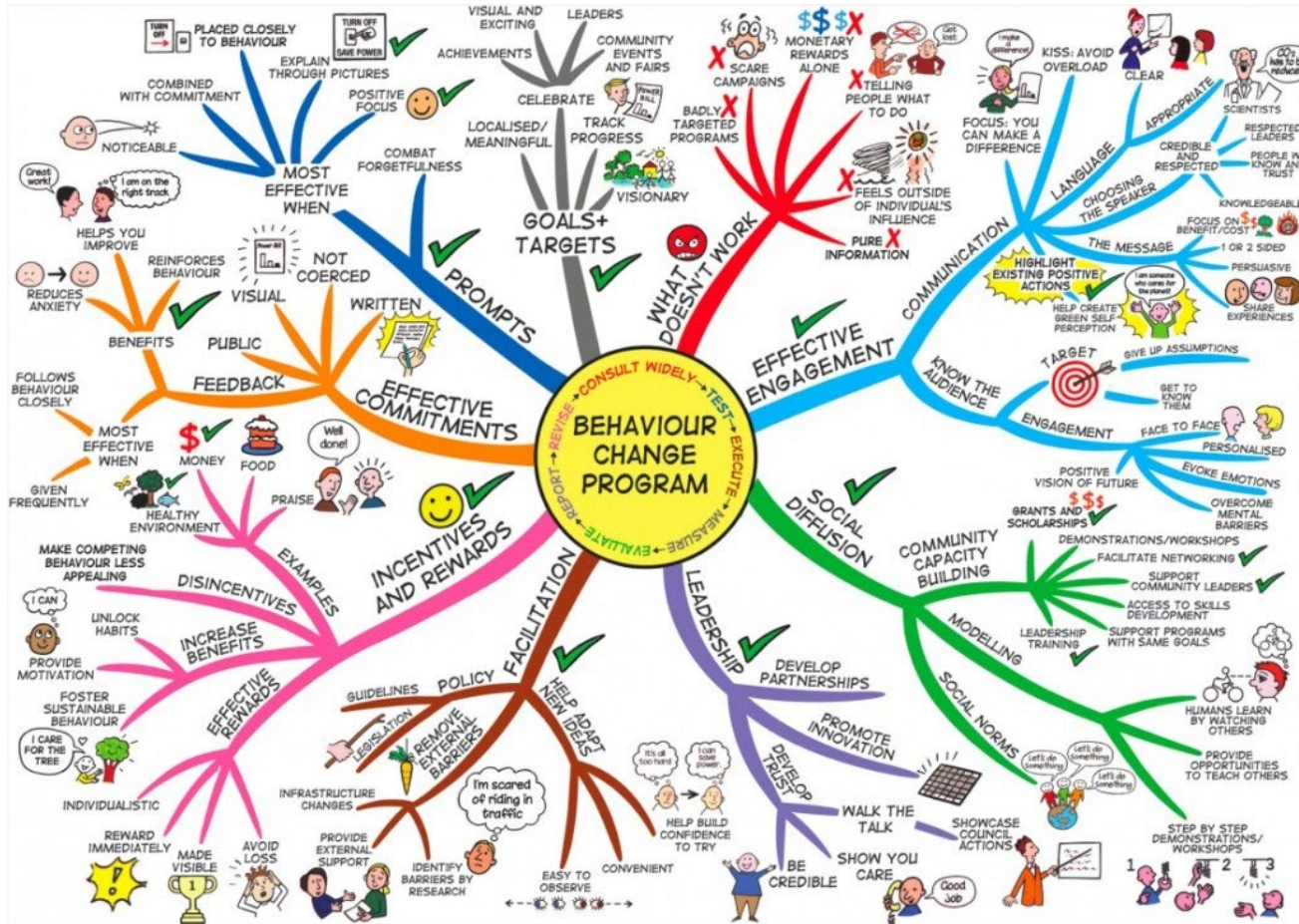
- Workplace Sustainability Fund
- Green Labs Fund
- Utown@UBC Community Grants
- Healthy Workplaces Initiatives Fund
- Interdisciplinary Education Grants
- Equity Enhancement Fund
- AMS Sustainability Fund
- Sustainability Revolving Loan Fund
- ULT Rebate Program

sustain.ubc.ca/funding



ENGAGEMENT & BEHAVIOUR CHANGE TIPS







THREE TYPES OF CHANGE

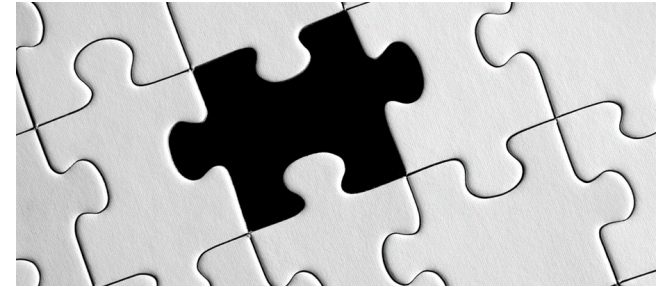
- **Organizational Change:** changing systems, processes, embedding sustainability
- **Culture Change:** norms, shared assumptions; moving towards “this is the way we do things”
- **Behaviour Change:** individual actions and choices (often supported by first two)





BEHAVIOUR CHANGE TIPS

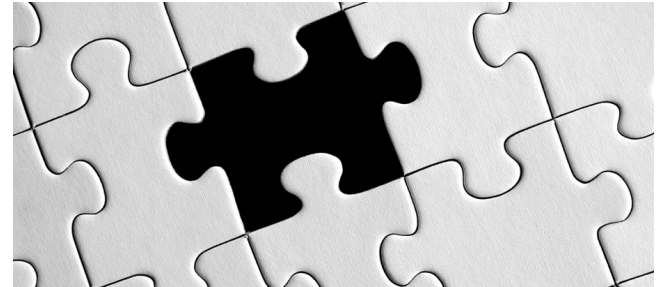
- **Decide which levers to use**
 - le Organizational change,
Behaviour change
- **Identify opportunities with impact**
 - Data, observations, feedback
- Think about your **area of influence**
- **Model behaviours:** lead by example



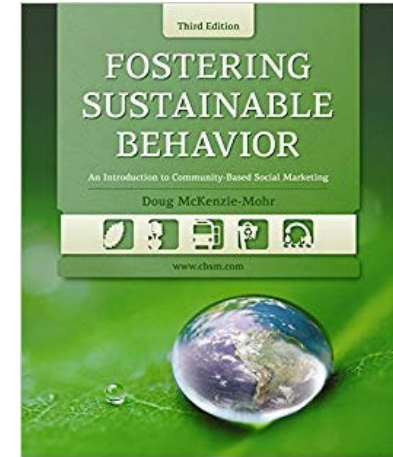


BEHAVIOUR CHANGE TIPS

- **Form a sustainability committee/ green team**
 - Building
 - Department level
- **Share sustainability tips**
- **Discuss sustainable workplace practices** in team meetings
- **Orient new employees** to sustainability
- **Celebrate success**



COMMUNITY BASED SOCIAL MARKETING: 6 STEP APPROACH



TOOLBOX OF INTERVENTIONS



Commitments Create accountability



Communication Make your message clear and vivid



Prompts Visual or auditory aid as a reminder



Competition Use friendly rivalry to drive action



Incentives Enhance the motivation to act



IDENTIFY ALLIES & CHAMPIONS

Who are the players, including leaders who impact the change you'd like to see?

- Who has the authority?
- What motivates them?
- Who should be on your team?



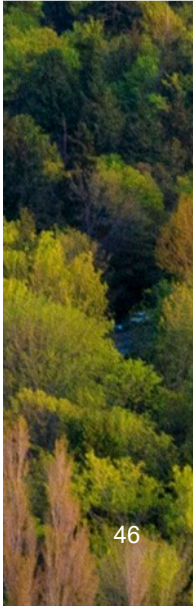


COMMITTEES & GREEN TEAMS: TIPS

- Integrate sustainability as a topic in your **team meetings**
- Set up a **Sustainability Committee** in your department or building: Great way to **build commitment** across your unit, **collaborate & share responsibilities**
 - Determine scope, formality level, frequency
 - Identify potential allies & members (staff, faculty, students)
 - Get together to identify opportunities and actions
 - Communicate and celebrate – share the news in your departmental newsletters, channels etc



Engagement



SUCCESS STORIES: A FEW EXAMPLES



2,168,337

Single-use plastic straws and cutlery will no longer enter the waste stream at UBC each year.



UBC Food Services: elimination of plastic straws & cutlery

 a place of mind **UBC's Styrofoam Recycling Pilot Program**

UBC is piloting styrofoam recycling in seven building/departments on campus. We're one of them!

Accepted Materials:
Place in large clear plastic bags

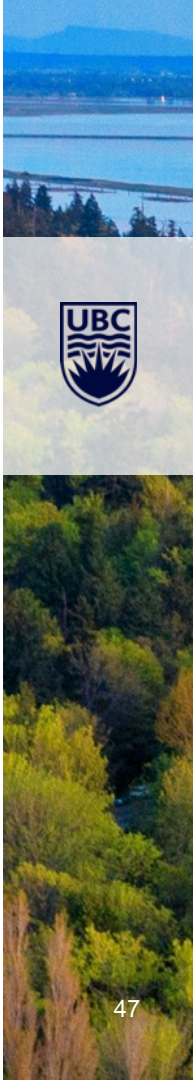
  Styrofoam-based packing peanuts. Peanuts will break or re-inflate if you squeeze them between your fingers.  Styrofoam Packing Blocks

Not Accepted:

  Styrofoam-based Packing Peanuts can be composted if you agree them. They do not re-inflate or break.  Styrofoam cups, bowls, and plates  #1 LDPE, #2 HDPE Plastic Foam Wrap, Foam Cylinders and Foam Packing Blocks  

For more information about pick up locations and contacts, please visit www.riskmanagement.ubc.ca/en/foreword/styrofoam or email besty.johnston@ubc.ca

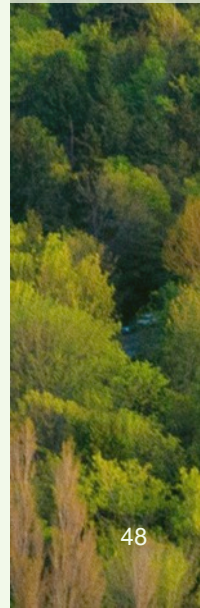
Pilot project → Now in 29 buildings!





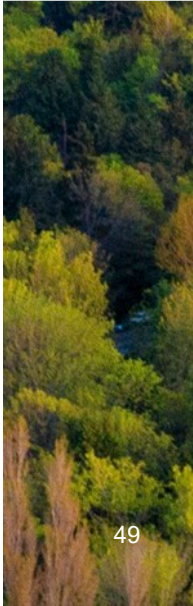
“I have integrated green lab and sustainability topics as a regular item into our quarterly lab managers meetings. It’s a great way to get unified buy-in and advance sustainability projects!”

*Karen Reid, Operations
Manager, Michael Smith
Laboratories
Lab Sustainability Coordinator*



CONTACT US!

sc.program@ubc.ca
green.labs@ubc.ca





THE UNIVERSITY OF BRITISH COLUMBIA

THE UNIVERSITY OF BRITISH COLUMBIA