

UBC Climate Action Plan 2030

BEST402 Industrial Ecology, Nov 30 2022

UBC Sustainability & Engineering



AGENDA

- **Introductions**
- **UBC Climate Action Plan 2030 Overview**
- **Implementation**
- **Taking climate action now**
- **Q&A**



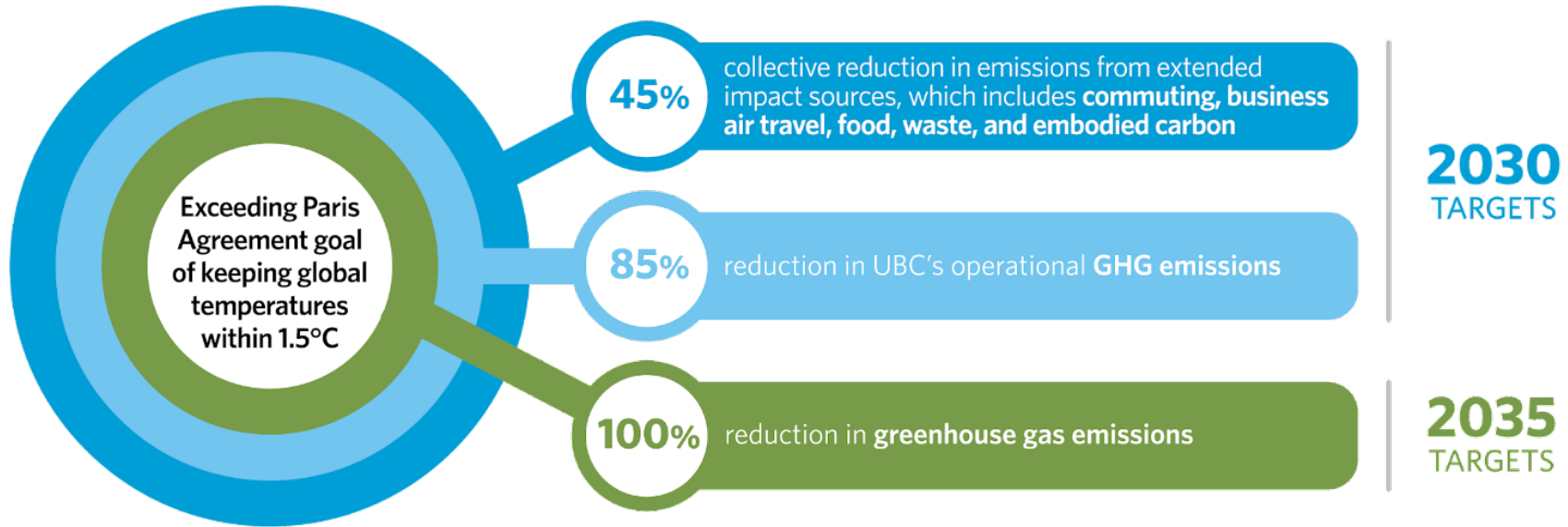
An Urgent Call to Action

This was the scene from the roof of the Robert H. Lee Alumni Centre on September 27, 2019 as students, faculty, and staff added their voices to those around the world calling for climate justice.



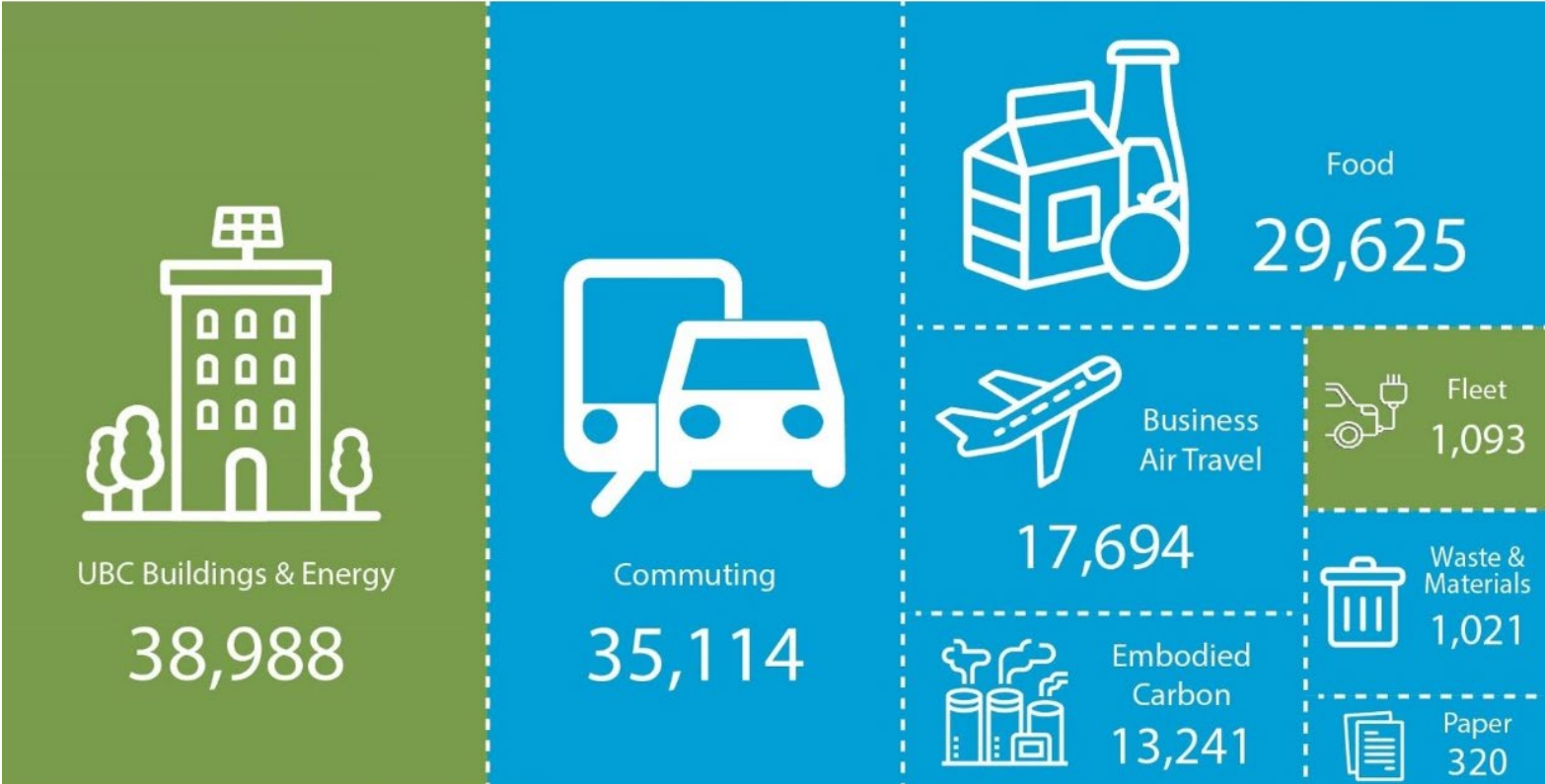
Climate Action Plan 2030

Bold ambition. Collective action.



UBC GHG Themes

■ UBC Operations - Scope 1 & 2
■ Extended Emissions - Scope 3



Low Carbon Energy Supply



Target: 100% of the energy used by the Academic District Energy System will come from low carbon sources.



New & Existing Buildings



Target: Near zero operational emissions in new buildings and significant reductions in existing buildings



Energy & Carbon Targets: Institutional Building Targets



- New institutional buildings will meet incrementally reduced energy targets to be Net Positive Ready by 2030
- Target: Reduce average building thermal energy use intensity (TEDI plus DHW) for campus buildings by 50% to 75 kwh/m²/yr by 2050.
- Target: Reduce the performance gap between modelled and metered energy use in new institutional buildings by 75% within three years of occupancy by 2020

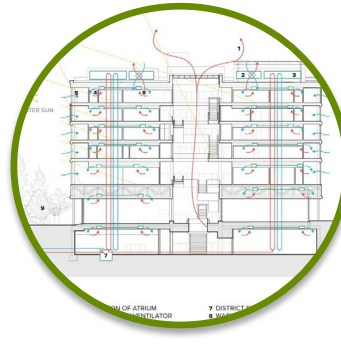
UBC Gateway Project: Zero Emissions



UBC's first building to meet the Canada Green Building Council's Zero Carbon Building Standard.



The landscape emphasizes Indigenous planting and natural ecology.



Passive design strategies.



Use of local wood.

Embodied Carbon



Target: Establish an embodied carbon baseline and align new building and renewal designs with a 50% reduction target.

Mass Timber Embodied Carbon



First Nations House of
Learning



Centre for Interactive
Research on Sustainability

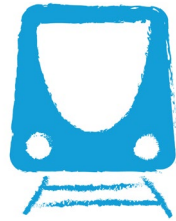


Campus Energy Centre



Brock Commons Tall
Wood

Commuting



Target: 45% reduction in commuting emissions from 2010 levels.

Waste & Materials



Target: 50% reduction in waste, progressing to a zero waste community.



Climate-Friendly Food Systems



Target: 50% GHG emission reduction associated with food systems.



Business Air Travel



Target: 50% reduction in air travel emissions from pre-covid levels.



Fleet and Equipment



Target: Zero emissions fleets and equipment



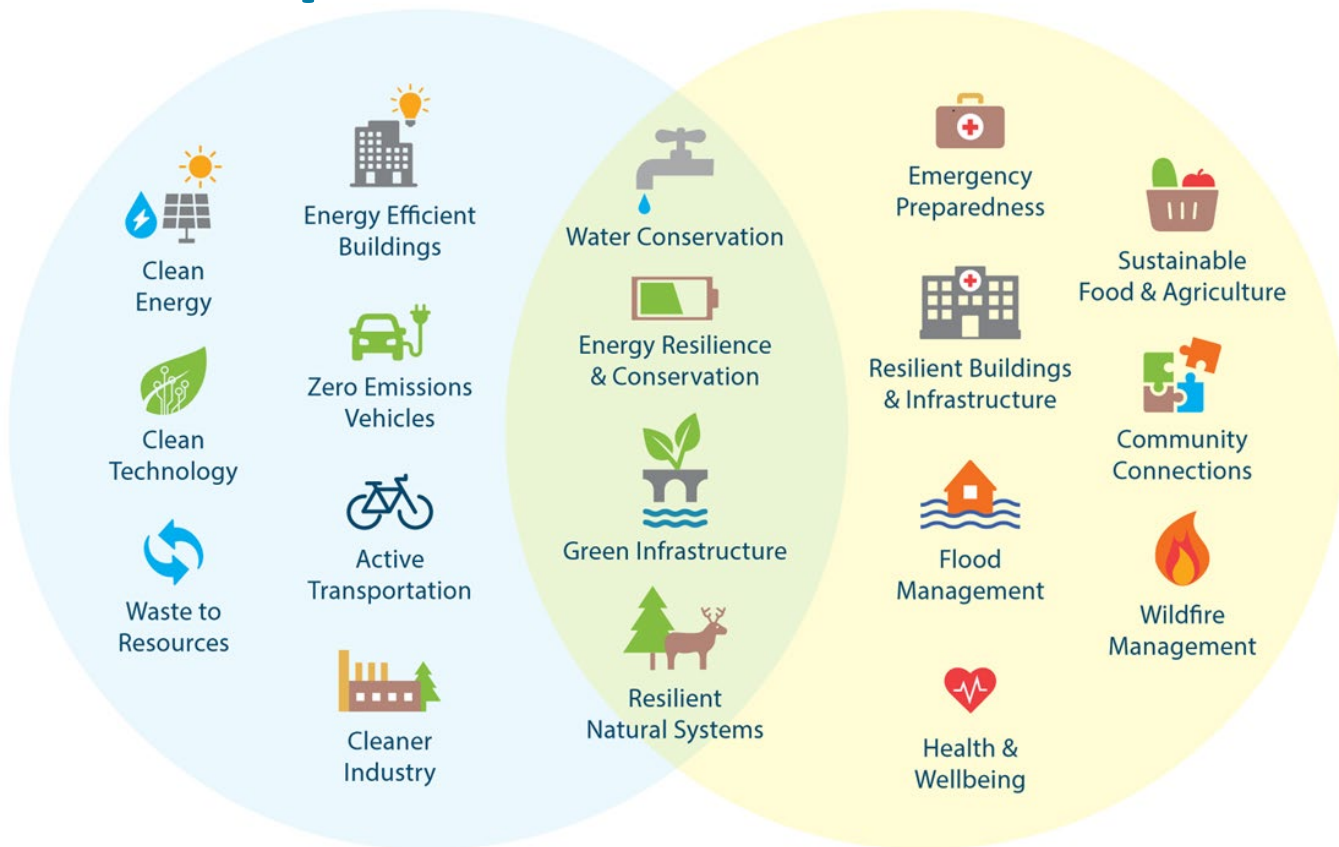
Engagement & Outreach Programs



Target: 75% of UBC faculty, students and staff are actively contributing to climate targets.



Climate Adaptation & Resilience



REDUCE
our emissions

PREPARE & ADAPT
our communities

Implementation



Challenges:

- High costs of building and infrastructure projects – new & retrofits
- Funding limitations
- Embodied carbon emissions
- Shifting to lower carbon behaviours – e.g., air travel, waste

Sort it Out



Implementation



Opportunities:

- Distributed approach to leverage climate action interest and capacity across the university: staff, faculty and students
- Progress since approval late 2021: programs for air travel, furniture reuse, climate friendly food, sustainable transportation
- Campus Vision 2050

Implementation



Collaboration & partnerships

- University networks: UC3, ISCN, UAS, & more
- Working groups – e.g., business air travel, I2SL
- Industry technology partners, Campus as a Living Lab opportunities
- Governments – municipal to federal, funding & innovation programs



Take Climate Action Today



Reduce air travel

- Choose videoconferencing or virtual/local professional development opportunities wherever possible.



Swap our rides

- Use transit, biking, or carpooling when commuting, traveling for meetings or running errands.



Shift our diets

- More plant-based and local foods, reduce food waste.
- Check out UBC's Green Events Guide on sustain.ubc.ca/toolkits for guidance on hosting low-impact events.



Mindful consumption

- Use awareness of sustainability issues to inform purchasing decisions – reducing waste, building the circular economy.

<https://sustain.ubc.ca/get-involved/take-action-tips> for more resources and UBC climate action tips!

Get Involved



<https://planning.ubc.ca/sustainability/take-climate-action-now>

[Sustainability Ambassadors](#)

[Sustainability Scholars Program](#)

[Zero Waste Squad](#)

[Climate Hub](#)

[Student Sustainability Council](#)

[SEEDS Sustainability Program](#)

[Sustainability Courses](#)

[Sustainability Student Clubs and Groups](#)

Additional UBC Climate Action Digital Resources



- **CAP 2030 homepage:** planning.ubc.ca/cap2030
- **UBC Climate Emergency website:** climateemergency.ubc.ca/
- **Take Climate Action Tips:** sustain.ubc.ca/toolkits
- **UBC Sustainable Purchasing Guide:** sustain.ubc.ca/smart-purchasing
- **Alternative Transport & Biking Resources:** planning.ubc.ca/transportation
- **Find a UBC Sustainability Representative:** sustain.ubc.ca/find-champion
- **Zero Waste Resources:** sustain.ubc.ca/sortitout
- **Funding opportunities:** sustain.ubc.ca/funding
- **Green Labs Program:** sustain.ubc.ca/green-labs
- **Sustainability Coordinator Program:** <https://sustain.ubc.ca/sustainability-coordinator-program>

Q&A

Thank you!



THE UNIVERSITY
OF BRITISH COLUMBIA
sustainability

**Climate Action
Plan 2030**