Neighbourhood Climate Action Plan

June 2025 | **Progress Update**

THE UNIVERSITY OF BRITISH COLUMBIA
Campus + Community Planning

Land Acknowledgement

The UBC Point Grey campus is situated within the traditional, ancestral, and unceded territory of the xʷməθkʷəy̓əm (Musqueam) people. For millennia, xʷməθkʷəy̓əm have been stewards and caretakers of the lands upon which UBC is now located.

These lands are a place of cultural and spiritual learning, welcoming and interacting with visitors to the territory. In pursuit of sustainability, climate action, and climate justice, we understand that they are also a place of learning where the xʷməθkʷəy̓əm acquired knowledge of local plants and animals for their enduring wellbeing and ways of thriving with these resources. UBC is working toward building meaningful, reciprocal and mutually beneficial partnerships with xʷməθkʷəy̓əm.

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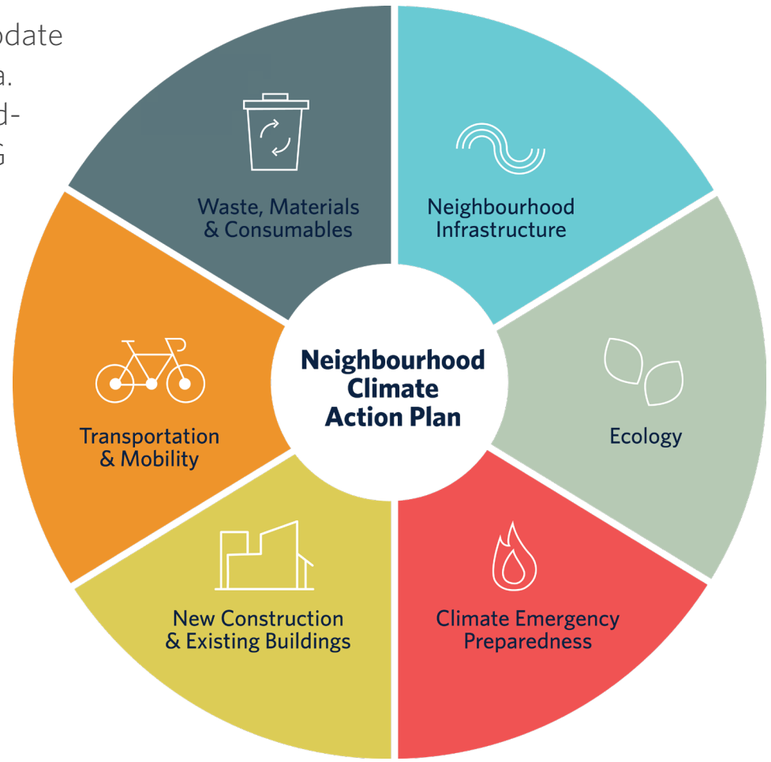
Overview

The Neighbourhood Climate Action Plan (NCAP) sets a pathway to a net-zero and climate resilient community for the residential neighbourhoods on the University of British Columbia's (UBC) Vancouver campus.

NCAP addresses this goal through climate actions in six scope areas. Each scope area establishes goals and key targets establishing measurable outcomes by specific dates, and actions describing steps to be taken to achieve the targets and goals.

This report provides a 2025 progress update on NCAP implementation by scope area. The report tracks progress towards building climate resilience and reducing GHG emissions since NCAP was approved in June 2024. Included are summaries of key work and highlighted projects that are advancing NCAP goals.

The progress update supports the NCAP guiding principle of long-term accountability, ensuring visibility of NCAP progress and providing transparency to stakeholders.



Shaped by NCAP's guiding principles, several co-benefits have been defined that NCAP actions will help deliver. These are:

Affordability

Actions that reduce costs associated with taking climate action.

Community Connection

Recognizing that a connected community is a resilient community, actions that support opportunities for community interaction and connection.

Health & Wellbeing

Actions that improve health and wellbeing conditions for community members.

Climate Leadership

Actions where UBC is leading climate action policy.

Access for All

Actions that make it easier for everyone to access spaces, information, processes or programs.

Academic Connection

Actions that provide opportunity for research connections with UBC's academic community.

Dashboard

Scope Area	Target	Indicator	Baseline	Target	2024	Notes
New Construction & Existing Buildings	**Target 1:** Embodied carbon in new buildings is reduced 40% versus baseline building by 2030.	% required reduction	0%	-40% (2030)	-10%	REAP 4.0 requires 10% reduction versus baseline.
	Target 2: At least 50% of homes have active, low carbon cooling by 2030, increasing to 100% before 2050.	% housing units with low carbon cooling	30% (2022)	50% (2030) 100% (2050)	——	Methodology for tracking cooling retrofits under development.
	Target 3: Building operational emissions are reduced by at least 60% from 2022 levels by 2035. **Target 4:** All buildings in UBC's residential neighbourhoods achieve net-zero operational emissions and are resilient to current and future climate conditions by 2050.	tonnes of CO_2e per year	14,934 (2022)	-60% (2035) -100% (2050)	15,254 (+2%)	Operational emissions expected to continue to grow with increased developments, until NDES decarbonization.
Transportation & Mobility	**Target 1:** Per capita transportation emissions are reduced by at least 25% from 2022 levels by 2035.	tonnes CO_2e per person per year	0.58 (2022)	-25% (2035)	——	Model inputs (e.g. Regional Transportation Model) are not updated annually. NCAP will update progress against this target aligned with updated input data. NCAP Action TM-8 will explore improved options for monitoring neighbourhood transportation metrics.
	Target 2: UBC neighbourhood contributions to overall campus target of at least 66% of trips to and from UBC made by walking, cycling, rolling or transit.	% mode share by walk, bike, rolling, and transit	50% (2022)	66%	54%	
	Target 3: 12% of residents' light-duty vehicles are zero emissions vehicles.	% light-duty vehicles that are ZEV	3.3% (2021)	12%	6.6%	Update is based on 2023 data; 2024 data not yet available.

Scope Area	Target	Indicator	Baseline	Target	2024	Notes
Transportation & Mobility	**Target 4:** 100% of trips by UBC neighbourhood residents are made by walking, cycling, rolling, zero emission transit or zero emission vehicles by 2050.	% total mode share by walk, bike, rolling, transit or ZEV	——	100%	——	NCAP Action TM-8 will explore improved options for monitoring neighbourhood transportation metrics. NCAP will update progress against this target aligned with updated monitoring methods.
Waste, Materials & Consumables	**Target 1:** Per capita waste emissions are reduced by at least 30% from 2022 levels by 2035.	tonnes CO_2e per person per year	0.18 (2022)	-30% (2035)	——	NCAP Action WC-3.2 will explore improved options for monitoring neighbourhood waste generation and diversion. NCAP will update progress against this target aligned with updated monitoring methods.
	Target 2: UBC's residential neighbourhoods achieve net-zero emissions from solid waste by 2050.	tonnes CO_2e per year	2,771 (2022)	-100% (2050)	——	NCAP Action WC-3.2 will explore improved options for monitoring neighbourhood waste generation and diversion. NCAP will update progress against this target aligned with updated monitoring methods.
Ecology	**Target:** Pending					Analysis is ongoing that will support defining targets.
Climate Emergency Preparedness	**Target:** By 2030, at least 50% of homes have active, low carbon cooling, reaching 100% before 2050.	% housing units with low carbon cooling	30% (2022)	50% (2030) 100% (2050)	——	Methodology for tracking cooling retrofits under development.
Neighbourhood Infrastructure	**Target 1:** At least 65% of neighbourhood energy supply is from low carbon sources (electricity or low carbon district energy) by 2035. **Target 2:** 100% of neighbourhood energy supply is from net-zero sources by 2050.	% low carbon energy	32%	65% (2035) 100% (2050)	32%	Energy supply mix expected to remain fairly constant until NDES decarbonization.

Progress:

New Construction & Existing Buildings

NCAP Progress Update | 2025

Goal

New and existing buildings achieve low carbon, energy efficient operations, incorporate low embodied carbon materials and design, and provide residents with safe and healthy homes that are resilient to the effects of climate change.

Project Highlights

Codes Acceleration Fund (CAF) Project

UBC was awarded a 3 year federal CAF grant that is supporting development of a REAP roadmap for adopting the top steps of the BC Energy and Zero Carbon Step Codes, developing a tiered embodied carbon targets, and increasing resiliency through updated future climate energy modelling and passive design measures. Initial phases of work have helped inform the REAP 4.0 updates for embodied carbon and cooling energy targets.

Low Carbon Resillient Retrofit Design Study

With support from BC Hydro and BC Housing, a retrofit design study was undertaken that evaluates retrofit strategies for existing apartment buildings to electrify heating and add cooling to reduce emissions and address overheating due to climate change. The study, delivered by a consulting team led by RDH Building Science, provides costed retrofit bundles, guidance on managing retrofit process and a summary of available financial incentives and other retrofit supports. This work will inform NCAP's approach to implementing existing building retrofits.

Key Actions

- NCAP has supported development of **Residential Environmental Assessment Program (REAP) version 4.0**, which is targeting approval for June 2025. REAP 4.0 includes preconditions (required items) and optional credits applicable to all new developments in UBC's residential neighbourhoods. REAP is the key tool for implementing NCAP actions for all scope areas on new building sites. Highlights of this work are included throughout this Progress Update report.

- REAP Energy and Emissions preconditions and credits were updated and added to align with key NCAP actions. This includes:

  - Requiring all new developments be designed and constructed to comply with the BC Zero Carbon Step Code, Zero Carbon Step (EL-4) for operational carbon;

  - Restricting the use of indoor combustion-based fireplaces.

- REAP Climate Adaptation now includes a precondition requiring designs meet a cooling energy efficiency target (aka Cooling Energy Demand Intensity, CEDI).

- REAP Materials and Resources now includes a precondition establishing a target of a 10% reduction in embodied carbon.

- **C+CP's Development Services** launched the 1-Step Residential Heat Pump Permit to simplify permit application for apartment owners who wish to retrofit their units to install heat-pumps. These retrofits will provide low-carbon heating and cooling in their homes, providing resiliency from climate change and reducing energy consumption and costs through energy efficiency provided by heat pumps.

Progress:
Transportation & Mobility

NCAP Progress Update | 2025

Goal

Residents benefit from convenient and reliable transit and an expanded on-campus mobility network (e.g. shared bike programs and cycling infrastructure) that prioritizes active and sustainable modes for people of all ages and abilities. These initiatives better support residents in ensuring they get to where they need to go comfortably and safely, while reducing greenhouse gas emissions.

Project Highlights

Sustainable Transportation Accessibility in UBC's Residential Neighbourhoods

SEEDS Research Collaboration

> In collaboration with SEEDS Sustainability Program (SEEDS) and students from GEOG 371, a research project was conducted on sustainable transportation modes for residents of UBC's residential neighbourhoods to help understand barriers to access for these services. Multiple research methods were applied to understand current usage and access data, and to determine barriers to increasing adoption of sustainable transportation modes. Findings will be used to support further research into transportation accessibility and affordability, as well as updates to UBC's Transportation Plan and future transportation programs.

Key Actions

- NCAP supported development of the amended **Wesbrook Neighbourhood Plan**, including support for sustainable transportation initiatives, including:
  - Curb space prioritization for essential activities (pick-up, drop-off) and sustainable modes;
  - Plans for new dedicated cycling lane along Binning Road;
  - Resilience recommendations for future public transportation stops.
- REAP Health and Wellbeing — Bicycle Parking precondition was refined and updated.
- REAP Energy and Emissions — Electric Vehicle Charging Infrastructure precondition was amended to add a requirement that all commercial parking stalls dedicated to car-share are electrified.
- Undertook planning with **BC Hydro** for expansion of curbside DC Fast Chargers (DCFC) and addition of Level 2 charging in UBC's residential neighbourhoods.

Progress:

Waste, Materials & Consumables

NCAP Progress Update | 2025

Goal

Transition towards a zero-waste community by creating opportunities for residents to share, reuse, and repair, supporting the circular economy. Thoughtful building and neighbourhood design, along with community programming, make waste sorting for recycling and organics easy and efficient for all residents and visitors. Construction and demolition practices make efficient use of building materials and optimize their reuse and diversion from landfill.

Project Highlights

Share, Reuse, Repair Initiatives in UBC's Residential Neighbourhoods

SEEDS Research Collaboration

> In collaboration with SEEDS Sustainability Program (SEEDS), UNA, and students from GEOG 371, a research project was conducted on waste management and Share, Reuse, Repair (SRR) initiatives in the UBC residential neighbourhoods. Research explored community interests in various SRR initiatives and will be used to help expand zero waste programming offered by the UNA.

Key Actions

- **UNA** and **UBC Campus and Community Planning** collaborated on launching a Reuse Cafe to support the circular economy, which included:
  - Clothes mending;
  - Bike tune-ups in collaboration with the Bike Kitchen;
  - Community weaving project with old textiles supported by Community Fabric;
  - Learn more about the launch event and future programming here.
- **UNA** expanded and enhanced the Green Depot services through expanded hours and new initiatives, such as a Community Share Library, Free Store initiative, and Seed Library. Learn more here.

Progress : **Ecology**

NCAP Progress Update | 2025

Goal

Trees, landscapes and other natural assets provide vital ecosystem services to help UBC's neighbourhoods adapt to a changing climate. Anchored by UBC's Campus Vision 2050 commitment to understand and incorporate Musqueam values into planning, climate adaptive planting practices support a network of resilient, connected green public spaces, courtyards, and corridors integrated with neighbourhood buildings. Neighbourhood urban ecosystems are well designed to provide welcoming and restorative places for the community to come together and build connections.

Project Highlights

Urban Heat Island Guidebook: Mitigation Strategies for the UBC Vancouver Neighbourhoods

UBC Sustainability Scholar Project

This guidebook offers strategies for mitigating the urban heat island (UHI) effect in UBC Vancouver neighbourhoods. It highlights nature-based and engineered solutions to enhance outdoor shading, reduce cooling demands, and support sustainable transportation use during extreme heat. Offering recommendations and actionable insights, the guidebook serves as a resource to UBC planners & architects, UNA staff, and residents working to build climate-resilience within existing and future neighbourhoods. Find the final guidebook here.

Shade Mapping for Neighbourhood Climate Adaptation and Community Wellbeing

SEEDS Research Collaboration

In collaboration with SEEDS Sustainability Program (SEEDS) and UBC's Master of Geomatics for Environmental Management (MGEM), a methodology was developed for mapping shade coverage at UBC Vancouver's campus including the residential neighbourhoods. The final map displays shade frequency across the campus neighbourhoods and provides insights into area with lower shade coverage. Explore the final Shade Frequency map here.

Shade Mapping Trees & Buildings

SEEDS Research Collaboration

Building upon the foundational work of the shade frequency mapping project, a second round of shade analysis projects were completed in collaboration with SEEDS and UBC's MGEM program. One project explored shade from different climate resilient tree species to provide recommendations around species selection as well as planting configurations for efficient shade coverage. A related project looked at the impact of tree shade on building energy use for cooling and found some statistically significant evidence that tree shade can help lower cooling energy demand in buildings.

Key Actions

- Foundational research projects were completed with the support of **SEEDS Sustainability Program** to analyze shade in UBC's residential neighbourhoods. This supports NCAP's work to establish performance targets relating to neighbourhood shade coverage.
- Work has initiated to develop a planting and soils tool that will support climate resilient plantings in new and existing neighbourhood spaces.
- NCAP supported ongoing development of **UBC's Biodiversity Strategy**, highlighting key areas relating to climate resilience to consider, including shade, wildfire risk, and flood mitigation.
- **REAP** Biodiversity preconditions and credits were updated to strengthen requirements for site landscapes to improve biodiversity and climate resilience.
- NCAP supported development of the amended **Wesbrook Neighbourhood Plan**, including consideration of climate resilience for neighbourhood greenspaces.

Progress:

Climate Emergency Preparedness

NCAP Progress Update | 2025

Goal

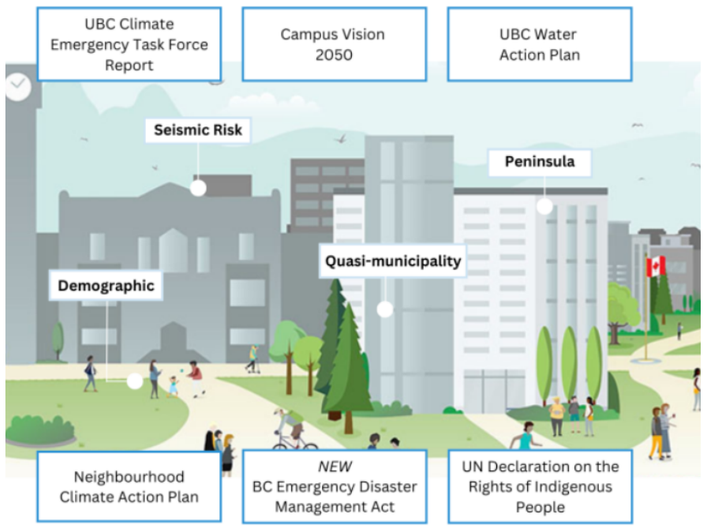
Residents are prepared for and well supported during extreme climate events such as heavy rainfalls, windstorms, wildfires and extreme heat. Through expanded resources, infrastructure, and proactive communication, residents feel safe and protected in their communities. Community-led social connectedness programs have strengthened ties between neighbours, creating a more resilient community network.

Project Highlights

Resilience Hubs for UBC Campus Communities

Campus as a Living Lab (CLL) Grand Challenge project

NCAP staff have been identified as a key stakeholder to this CLL project and participated in some early sessions as research kicked off. This project focuses on enhancing campus resilience in response to climate hazards, aligning with Campus Vision 2050. By integrating multidisciplinary research and operational expertise, the project will support UBC's long-term resilience planning, addressing key priorities in climate emergency preparedness and community wellbeing. Research activities will focus on water infrastructure, transportation system vulnerability, support needs and capacities of UBC communities, current and future physical and social vulnerabilities, mass care supports, mapping governance arrangements in pre-emergency and emergency situations, future local emergency and disaster governance structures, planning for earthquake resilience and the application of research to campus emergency planning. Learn more here.



UBC's unique context, policies and strategies support for resilience hub (source).

Key Actions

- **UNA** has initiated work to support improved infrastructure, facilities and operations during extreme heat events, including adding trees and shade structures at the Wesbrook Community Centre Splash Pad, internal review of cooling centre operational procedures and policy, and working with **UBC Safety and Risk Services** to explore post emergency training.

- **UNA** completed a feasibility study looking at low carbon, resilient upgrades to the Old Barn Community Centre, including adding mechanical cooling.

- **REAP** Climate Adaptation preconditions and credits were updated to strengthen climate resilience within new neighbourhood developments. This includes:
  - Design requirements for wildfire risk reduction (building materials and site landscapes);
  - Strengthened design requirements to avoid overheating in buildings under future climate conditions;
  - Updated credit for refuge spaces and back-up power;
  - New credit for design features that support social connection;
  - New credit for urban heat island mitigation.

- NCAP supported development of the amended **Wesbrook Neighbourhood Plan**, including consideration of strategies to mitigate risk of urban-wildland interface fires.

Progress:
Neighbourhood Infrastructure

NCAP Progress Update | 2025

Goal

Water and energy infrastructure servicing UBC's residential neighbourhoods is resilient and ready to respond to our changing climate. Upgraded systems support climate action and prioritize efficient, affordable and resilient services.

Key Actions

- Work has continued to update **UBC Vancouver's Integrated Rainwater Management Plan (IRMP)**, aligned with future climate projections. Proposed strategies and financial recommendations from the updated work will be presented for endorsement in mid 2025.

- **REAP** Water — Rainwater Management precondition was updated to align with UBC's updated IRMP, providing sites with the ability to manage more intense and frequent rain storms due to climate change.

- Continued work supporting **Corix Utilities**, the owner/operator of the **Neighbourhood District Energy System (NDES)** a centralized energy supply system that has been providing heat and domestic hot water to Wesbrook Place since 2015. Key work has included reviews of technical engineering studies on NDES decarbonization options.

NCAP Implementation Updates

NCAP is a living plan, and will adapt and evolve over time, responding to new information, technologies, and a changing provincial and federal policy landscape. Our approach to implementation reflects NCAP's guiding principles and is anchored by commitments to:

- **Shared responsibility and collaboration**
- **Climate equity and justice**
- **Ongoing community dialogue**
- **Learning and research**
- **Monitoring and reporting**

Some highlights from the past year that reflect these commitments are shared below:

- Continued collaboration with **UNA** staff, including monthly check-in sessions and **UBC-UNA partnerships** to deliver climate related community programming.

- Equity continues to provide the central lens used to shape NCAP implementation. Further to this, an Equity Memo was prepared to support NCAP Implementation. This memo provides an overview of NCAP's main equity considerations, and ways to address these equity considerations based on a range of best practices. This memo also discusses gaps in NCAP's current equity approach, and evaluates, highlights, and expands upon the necessary equity considerations within each NCAP scope area.

- Continued relationship with **UBC SEEDS Sustainability Program** creating academic partnerships for student-led research that supports NCAP actions.

- Development of NCAP Progress Update template to enable sharing regular updates on NCAP implementation. The report is intended to be public facing, helping to inform the community on key NCAP initiatives. The NCAP Progress Update will also be shared with **UBC's Board of Governors** as part of June Climate Action update reporting.

- Progress against all specific actions in the NCAP Action Matrix has been updated. A detailed chart with current status can be found at https://planning.ubc.ca/ncap

Neighbourhood Climate Action Plan

June 2025 | Progress Update

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Appendices

Neighbourhood Climate Action Plan

June 2025 | **Progress Report**

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NCAP Action Matrix

This chart lists progress made on all NCAP sub-actions.
For more details on the ongoing process, please visit https://planning.ubc.ca/ncap.

Ongoing ∞
Not Started ○○○○
Initiated ●○○○
Moderate Progress ●●○○
Significant Progress ●●●○
Completed ●●●●

Action ID	Description	Primary Responsibility	Timeline	Current Status
New Construction Primary Action NC-1 : Strengthen building performance requirements to achieve net-zero, resilient new construction.				
NC-1.1	Undertake a study to support development of resiliency requirements (cooling and air quality), adoption of BC Step Code energy and carbon targets, and cooling energy efficiency performance targets in REAP.	UBC	2024-2026	●●○○
NC-1.2	Adopt the BC Zero Carbon Step Code, Zero Carbon Performance Step (EL-4) (2025 timeline target).	UBC	2024-2026	●●●○
NC-1.3	Adopt Step 4 of the BC Energy Step Code for energy efficiency in advance of Provincial requirement.	UBC	2027-2029	Future Work
NC-1.4	Review and update REAP building resiliency requirements (cooling and air quality) and cooling energy efficiency targets to address future climate conditions.	UBC	2024-2026	●●●○
NC-1.5	Review and update REAP on-site energy production and back-up power credits.	UBC	2027-2029	●●●○
NC-1.6	Update building adaptation and resilience measures in REAP.	UBC	2027-2029	●●●○
NC-1.7	Explore and develop potential performance requirements for refrigerant usage in mechanical systems.	UBC	2027-2029	Future Work

Action ID	Description	Primary Responsibility	Timeline	Current Status
NC-1.8	Establish REAP pre-condition restricting combustion-based fireplaces in new construction.	UBC	2024-2026	●●●○
NC-1.9	Review policy for natural gas equipment in new construction (e.g. stoves).	UBC	2027-2029	Future Work
NC-1.10	Develop communication materials on health impacts of natural gas equipment in homes.	UBC	2027-2029	Future Work
NC-1.11	Showcase successful new buildings projects from UBC and beyond.	UBC	2027-2029	∞
Existing Buildings Primary Action EB-1 : Enable retrofits to achieve net-zero, resilient existing buildings.				
EB-1.1	Advocate to Provincial government to adopt policies, programs, and regulations that support net-zero, resilient building retrofits.	UBC	2024-2026	∞
EB-1.2	Undertake retrofit design study to provide detailed information on retrofit design strategies and lifecycle costs.	UBC	2024-2026	●●●●
EB-1.3	Develop regulatory pathway to enable retrofit permitting requirements for decarbonization and resilience.	UBC	2027-2029	Future Work
EB-1.4	Implement permitting requirements for low carbon-only equipment replacement for domestic hot water and space heating systems or connection to low carbon Neighbourhood District Energy System (2030 timeline target).	UBC	2030+	Future Work
EB-1.5	Identify incentive opportunities for heat-pump and electrification retrofits.	UBC	2024-2026	∞
EB-1.6	Explore potential permit process streamlining and other incentives to encourage accelerated adoption of net-zero, resilient, healthy retrofits.	UBC	2027-2029	Future Work

Action ID	Description	Primary Responsibility	Timeline	Current Status
EB-1.7	Explore approaches to transition existing natural gas fireplaces to low carbon solutions.	UBC	2027-2029	Future Work
EB-1.8	Implement streamlined in-suite heat pump permitting requirements.	UBC	2024-2026	●●●●
EB-1.9	Develop plan to facilitate accelerated cooling upgrades in existing buildings.	UBC	2027-2029	Future Work
EB-1.10	Compile summary of global policy and regulations supporting zero-carbon, resilient retrofits.	UBC	2024-2026	○○○○
EB-1.11	Develop materials to support strata councils and building owners to complete building retrofits.	UBC	2024-2026	●○○○
EB-1.12	Require electricity capacity studies in existing buildings as a pre-condition for providing permits for equipment retrofits.	UBC	2027-2029	Future Work
EB-1.13	Develop demonstration projects to provide examples of retrofit approaches ahead of mandatory requirements.	UBC	2027-2029	Future Work
EB-1.14	Develop retrofit plan.	UBC	2027-2029	●○○○
EB-1.15	Evaluate and share learnings from building benchmarking program.	UBC	2027-2029	∞
New Construction Primary Action NC-2 : Create tiered embodied carbon performance targets for new construction.				
NC-2.1	Undertake a study to support the development of tiered embodied carbon targets.	UBC	2024-2026	●●○○
NC-2.2	Develop and update embodied carbon accounting and reporting requirements.	UBC	2024-2026	●●●○

Action ID	Description	Primary Responsibility	Timeline	Current Status
NC-2.3	Adopt 10% embodied carbon reduction requirement compared to baseline building and develop tiered target schedule for REAP (2025 timeline target).	UBC	2024-2026	●●●○
NC-2.4	Explore adopting a total carbon footprint target for new construction and study the long term pathway to net zero embodied carbon in buildings.	UBC	2027-2029	●○○○
NC-2.5	Adopt 40% or greater embodied carbon reduction requirement (2030 timeline target).	UBC	2030+	Future Work
NC-2.6	Develop communication materials for residents on embodied carbon policy.	UBC	2027-2029	Future Work
New Construction Primary Action NC-3 : Support industry adoption of improved embodied carbon performance.				
NC-3.1	Showcase successful projects that demonstrate how to achieve low embodied carbon targets.	UBC	2027-2029	Future Work
NC-3.2	Update prescriptive standards for building materials.	UBC	2024-2026	○○○○
NC-3.3	Utilize submitted lifecycle assessment (LCA) data to support embodied carbon studies.	UBC	2027-2029	●○○○
Existing Buildings Primary Action EB-2 : Explore embodied carbon performance targets for existing building projects.				
EB-2.1	Review potential approaches to develop embodied carbon standards for building deconstruction and retrofits.	UBC	2027-2029	Future Work

Action ID	Description	Primary Responsibility	Timeline	Current Status
New Construction Primary Action NC-4 : Improve awareness and processes of UBC's Residential Environmental Assessment Program (REAP) process.				
NC-4.1	Review and develop improvements to REAP process.	UBC	2024-2026	●●●○
NC-4.2	Develop clear guidelines to share with developers on upcoming policy in future REAP iterations.	UBC	2024-2026	●○○○
NC-4.3	Develop communication materials for REAP that target building owners and community members.	UBC	2027-2029	●○○○
Transportation & Mobility Primary Action TM-1 : Support sustainable transportation through neighbourhood design.				
TM-1.1	Prioritize curb space to support sustainable modes where possible in amended and future neighbourhood plans.	UBC	2024-2026	●●●○
TM-1.2	Designate curb space to support essential pick-up, drop-off, and delivery activities in amended and future neighbourhood plans.	UBC	2024-2026	●●●○
TM-1.3	Preserve adequate rights-of-way for potential future transit and active transportation infrastructure in amended and future neighbourhood plans.	UBC	2024-2026	●●●○
TM-1.4	Explore retrofits to existing neighbourhoods to support rights-of-way for future transit and active transportation infrastructure.	UBC	2027-2029	Future Work
TM-1.5	Investigate alternative approaches to supplying resident, customer and visitor parking that meets interim needs while enabling adaptive reuse if/when parking demand declines.	UBC	2027-2029	Future Work
Transportation & Mobility Primary Action TM-2 : Support sustainable, low carbon goods delivery.				
TM-2.1	Investigate policy changes and/or pilot programs that encourage the use of low carbon devices (e.g. cargo bikes) for local / last mile deliveries.	UBC	2027-2029	Future Work

Action ID	Description	Primary Responsibility	Timeline	Current Status
TM-2.2	Explore opportunities to allocate flexible hardscape space in new developments suitable for use by low-carbon delivery vehicles (e.g. cargo bikes).	UBC	2024-2026	●●●○
TM-2.3	Design neighbourhood streets and cycling infrastructure to accommodate low carbon deliveries where possible in amended and future neighbourhood plans.	UBC	2024-2026	●●●○
Transportation & Mobility Primary Action TM-3 : Expand and enhance active transportation network to, from, and around the neighbourhoods for all ages and abilities.				
TM-3.1	Incorporate accessibility measures into future and amended neighbourhood plans.	UBC	2024-2026	●●●○
TM-3.2	Prioritize safe, efficient, and connected cycling infrastructure where possible in amended and future neighbourhood plans.	UBC	2024-2026	●●●○
TM-3.3	Prioritize and protect connected greenspaces in amended and future neighbourhood plans.	UBC	2024-2026	●●●○
TM-3.4	Incorporate safe, comfortable sidewalk design for users of all ages and abilities in amended and future neighbourhood plans.	UBC	2024-2026	●●●○
TM-3.5	Work with UNA to improve accessibility features of existing neighbourhood active transportation networks and public spaces.	UBC	2027-2029	Future Work
TM-3.6	Study ways to improve access to active transportation through equity-oriented programming.	UBC	2024-2026	●○○○
TM-3.7	Explore potential to expand UBC's Bike Kitchen programming within existing and future neighbourhoods.	UNA	2024-2026	●●●○
TM-3.8	Maintain and review bike parking requirements for New Construction.	UBC	2027-2029	●●●○

Action ID	Description	Primary Responsibility	Timeline	Current Status
Transportation & Mobility Primary Action TM-4 : Continue engaging with Translink to expand and enhance transit service to, from and around the neighbourhoods for all ages and abilities.				
TM-4.1	Support and advocate for SkyTrain and other rapid transit expansion to campus including stations within walking distance of neighbourhoods.	UBC	2024-2026	∞
TM-4.2	Plan for increased frequency and coverage of service for intra-campus transit service in amended and future neighbourhood plans.	UBC	2027-2029	●●●○
TM-4.3	Recommend design standards for transit stops that are accessible to all ages and abilities, as well as connected to active transportation networks and shared micro mobility hubs are included in amended and future neighbourhood plans.	UBC	2024-2026	●●●○
TM-4.4	Explore options for improving transit affordability for neighbourhood residents.	UBC	2027-2029	●○○○
Transportation & Mobility Primary Action TM-5 : Apply a climate resilience and safety lens to the planning and design of streets and other transportation infrastructure.				
TM-5.1	Develop resilience and safety standards for transportation networks to include in future and amended Neighbourhood Plans.	UBC	2024-2026	●●●○
TM-5.2	Explore opportunities to retrofit existing neighbourhood transportation networks to improve resilience and safety.	UNA	2027-2029	Future Work
TM-5.3	Ensure a level of redundancy in the transportation network to ensure mutiple means of access and egress in the event of disruptions or emergencies.	UBC	2027-2029	Future Work
TM-5.4	Continue support for community led active / sustainable mobility initiatives.	UNA	2024-2026	●○○○

Action ID	Description	Primary Responsibility	Timeline	Current Status
Transportation & Mobility Primary Action TM-6 : Expand shared mobility within UBC's residential neighbourhoods (e.g. bike share, e-bike share, car share, other micro mobility programs).				
TM-6.1	Ensure neighbourhood development includes allocation of space and provision of electricity for shared mobility programs.	UBC	2024-2026	●●●○
TM-6.2	Complete study into neighbourhood transportation preferences to understand factors influencing shared mobility uptake.	UBC	2027-2029	Future Work
Transportation & Mobility Primary Action TM-7 : Support and enable the transition to zero emission vehicles (ZEV).				
TM-7.1	Review EV requirements for New Construction and update as needed.	UBC	2024-2026	●●●○
TM-7.2	Develop plan to support retrofits for ZEV charging infrastructure within existing buildings.	UBC	2027-2029	Future Work
TM-7.3	Undertake planning to support expansion of public EV charging network.	UBC	2024-2026	●●○○
TM-7.4	Provide increased access to public and/or dedicated charging stations for car-share or ride hailing vehicles.	UBC	2024-2026	●○○○
Transportation & Mobility Primary Action TM-8 : Explore options for local monitoring of neighbourhood transportation metrics.				
TM-8.1	Complete study to explore how to track neighbourhood transportation patterns and emissions.	UBC	2027-2029	Future Work
Waste, Materials & Consumables Primary Action WC-1 : Support the UNA in establishing community zero waste initiatives.				
WC-1.1	Enable sharing for infrequently used items (e.g. tool share, camping/ outdoor equipment, party supplies).	UNA	2027-2029	Future Work

Action ID	Description	Primary Responsibility	Timeline	Current Status
WC-1.2	Create and expand community hubs to support consignment and re-use (e.g. community yard sale).	UNA	2024-2026	●●●○
WC-1.3	Create programming designed to support repair (e.g. clothing, bicycles, electronics, etc.).	UNA	2024-2026	●●●○
WC-1.4	Explore options to support UNA programming for community zero waste initiatives.	UBC	2024-2026	●●●○
Waste, Materials & Consumables Primary Action WC-2 : Support improved waste diversion and reduction.				
WC-2.1	Support and facilitate awareness and behavioral change campaigns on waste diversion and waste reduction.	UNA	2024-2026	○○○○
WC-2.2	Expand and enhance UNA Green Depot.	UNA	2027-2029	●●●○
WC-2.3	Review and, where feasible, strengthen requirements for waste separation and disposal facilities in new neighbourhood buildings through future REAP updates.	UBC	2027-2029	Future Work
WC-2.4	Review recycling and organics service in existing residential properties.	UBC	2027-2029	Future Work
WC-2.5	Support and expand public waste sorting and disposal infrastructure.	UNA	2030+	Future Work
WC-2.6	Explore expansion of community recycling facilities (e.g. planned South Campus recycling facilities).	UBC	2030+	Future Work
WC-2.7	Adopt improved target in REAP requiring buildings to prepare and implement a Waste Management Plan that diverts 90% (by weight) of construction and demolition waste from landfill.	UBC	2027-2029	Future Work

Action ID	Description	Primary Responsibility	Timeline	Current Status
WC-2.8	Review and, where feasible, strengthen construction and demolition standards in future REAP updates to reduce and eventually eliminate disposal of any resusable, compostable, or recyclable materials.	UBC	2030+	Future Work
WC-2.9	Advocate and support improvements to recycling processes (e.g., Extended Producer Responsibility programs, Canada Plastics Pact).	UBC	2024-2026	∞
Waste, Materials & Consumables Primary Action WC-3 : Improve local monitoring of waste generation and diversion.				
WC-3.1	Complete study to explore how to track construction and demolition waste.	UBC	2027-2029	Future Work
WC-3.2	Complete study to explore how to better track residential waste generation and diversion for ongoing monitoring.	UBC	2027-2029	Future Work
Waste, Materials & Consumables Primary Action WC-4 : Support development of community resources around consumption choices (e.g. food, air travel).				
WC-4.1	Explore potential research projects to support reduction on consumption based emissions.	UBC	2027-2029	Future Work
WC-4.2	Gauge public interests and develop resources to support reduced impact through consumption choices.	UNA	2027-2029	Future Work
Neighbourhood Infrastructure Primary Action NI-1 : Convert the Neighbourhood District Energy System to low carbon energy supply.				
NI-1.1	Update Neighbourhood District Energy System Infrastructure Agreement.	UBC	2024-2026	● ○ ○ ○
NI-1.2	Explore options to improve affordability of thermal energy supply from the Neighbourhood District Energy System for neighbourhood residents.	UBC	2024-2026	● ○ ○ ○
NI-1.3	Develop communication materials for residents on how the Neighbourhood District Energy System is decarbonizing and supporting climate action.	UBC	2027-2029	Future Work

Action ID	Description	Primary Responsibility	Timeline	Current Status
Neighbourhood Infrastructure Primary Action NI-2 : Work with BC Hydro to initiate upgrades to electrical supply based on NCAP actions.				
NI-2.1	Coordinate and plan for future neighbourhood electricity demand among various stakeholders.	UBC	2024-2026	∞
NI-2.2	Develop policies to support energy demand management.	UBC	2024-2026	● ○ ○ ○
Neighbourhood Infrastructure Primary Action NI-3 : Explore embodied carbon performance targets for neighbourhood infrastructure projects.				
NI-3.1	Review potential approaches to develop embodied carbon standards for neighbourhood infrastructure projects.	UBC	2027-2029	Future Work
Neighbourhood Infrastructure Primary Action NI-4 : Update Integrated Rainwater Management Plan to consider climate adaptation.				
NI-4.1	Include future climate projections in rainwater modelling.	UBC	2024-2026	● ● ● ●
NI-4.2	Identify adaptive green rainwater infrastructure that responds to seasonal variability and future climate conditions.	UBC	2024-2026	● ● ● ○
NI-4.3	Develop performance targets for rainwater management.	UBC	2024-2026	● ● ● ○
NI-4.4	Develop communication materials on how our rainwater systems are helping UBC's neighbourhoods adapt to our changing climate.	UBC	2027-2029	Future Work
Ecology Primary Action ES-1 : Integrate ecosystem services throughout neighbourhood planning to address climate action.				
ES-1.1	Analyze baseline seasonal shading in neighbourhoods.	UBC	2024-2026	● ● ● ○
ES-1.2	Explore and test nature based urban design solutions to address urban heat island effect and building cooling energy demand.	UBC	2024-2026	● ● ● ○

Action ID	Description	Primary Responsibility	Timeline	Current Status
ES-1.3	Explore planning and design tools, such as policies and guidelines, for amended and future Neighbourhood Plans to prioritize tree retention and increased tree planting in support of climate action.	UBC	2024-2026	●●●○
ES-1.4	Explore and establish performance targets relating to neighbourhood shade coverage.	UBC	2027-2029	Future Work
ES-1.5	Explore how to quantify biological carbon sequestration from natural systems to support overall net zero emissions targets.	UBC	2027-2029	Future Work
ES-1.6	Identify opportunities to increase biodiversity and ecosystem services at site scale through future REAP updates.	UBC	2024-2026	●●●○
ES-1.7	Identify opportunities to support integration of ecosystem services for climate action into neighbourhood planning through amended and future Neighbourhood Plans.	UBC	2030+	Future Work
Ecology Primary Action ES-2 : Develop a climate resilient planting guidelines.				
ES-2.1	Develop a planting and soils guideline for amended and future Neighbourhood Plans that reflects the local ecological context and that supports resilient plants for future climate conditions.	UBC	2024-2026	●○○○
ES-2.2	Develop demonstration projects to pilot, monitor, and assess emerging approaches to climate resilient plantings and the soils that support them.	UBC	2027-2029	Future Work
ES-2.3	Explore policy to implement findings from climate resilient plantings demonstration projects.	UBC	2027-2029	Future Work
ES-2.4	Review and update biodiversity credits to include climate resilient planting guidelines at site scale through future REAP updates.	UBC	2024-2026	●●●○

Action ID	Description	Primary Responsibility	Timeline	Current Status
ES-2.5	Develop resources for community members to support climate resilience and biodiversity.	UNA	2024-2026	○○○○
Ecology Primary Action ES-3 : Support the UNA in developing sustainable landscape practices.				
ES-3.1	Support the UNA on sustainable landscaping practices.	UBC	2024-2026	∞
ES-3.2	Collaborate and share information to support climate resilient replanting in the public realm.	UBC	2027-2029	Future Work
Ecology Primary Action ES-4 : Support development of UBC's Biodiversity Strategy.				
ES-4.1	Include future climate projections in scoping for Biodiversity Strategy.	UBC	2024-2026	●●○○
ES-4.2	Develop actions to address climate impacts to natural systems in neighbourhoods.	UBC	2024-2026	●○○○
Climate Emergency Preparedness Primary Action CP-1 : Develop resources, programming, and infrastructure to enable response before, during and after extreme heat and other emergency climate events.				
CP-1.1	Develop resources to share information on emergency cooling spaces with residents.	UNA	2024-2026	○○○○
CP-1.2	Coordinate efforts to expand public spaces for emergency cooling.	UNA	2027-2029	●○○○
CP-1.3	Explore options to accelerate resilient HVAC upgrades to Old Barn Community Centre.	UNA	2027-2029	●●○○

Action ID	Description	Primary Responsibility	Timeline	Current Status
CP-1.4	Develop communications materials to educate and prepare residents for extreme heat and other climate emergency events.	UNA	2024-2026	○○○○
CP-1.5	Review and look to strengthen UNA emergency event procedures.	UNA	2024-2026	●○○○
Climate Emergency Preparedness Primary Action CP-2 : Develop resources, programming, and infrastructure to enable response before, during and after local wildfire events.				
CP-2.1	Review and ensure Fire Smart Principles are included in future and amended Neighbourhood Plans.	UBC	2024-2026	●●○○
CP-2.2	Explore options to incorporate FireSmart design into future REAP updates.	UBC	2024-2026	●●●○
CP-2.3	Explore options (e.g. infrastructure, landscaping) to address any existing neighbourhood areas with high risk for wildfire events at forest / urban interface.	UBC	2027-2029	Future Work
CP-2.4	Develop communications materials to educate and prepare residents for local wildfire events.	UNA	2024-2026	○○○○
CP-2.5	Develop a comprehensive local emergency response plan for local wildfire events.	UBC	2027-2029	Future Work
Climate Emergency Preparedness Primary Action CP-3 : Strengthen social connectedness and resilience within neighbourhood communities.				
CP-3.1	Deliver emergency preparedness workshops that are rooted in social connectedness.	UNA	2027-2029	Future Work
CP-3.2	Develop toolkits and other resources to support community building focused on addressing climate action.	UNA	2027-2029	Future Work

Action ID	Description	Primary Responsibility	Timeline	Current Status
CP-3.3	Expand and develop programming to facilitate community-led initiatives.	UNA	2027-2029	Future Work
CP-3.4	Explore opportunities to streamline processes and increase resources, grants, supplies, and equipment for social connectedness activities.	UBC	2027-2029	Future Work
CP-3.5	Review and, where feasible, strengthen REAP credits on place and experience to support building design for social connection through future REAP updates.	UBC	2027-2029	●●●○
CP-3.6	Study impact of social connectedness on climate emergency response.	UBC	2027-2029	Future Work
Net-Zero Primary Action NZ-1 : Define pathway to net-zero community emissions.				
NZ-1.1	Coordinate with CAP2030 action planning team to align definitions and approach.	UBC	2027-2029	Future Work
NZ-1.2	Explore options to integrate embodied carbon emissions into community emissions accounting.	UBC	2024-2026	○○○○
NZ-1.3	Research sequestration options to achieve netzero community emissions.	UBC	2027-2029	Future Work