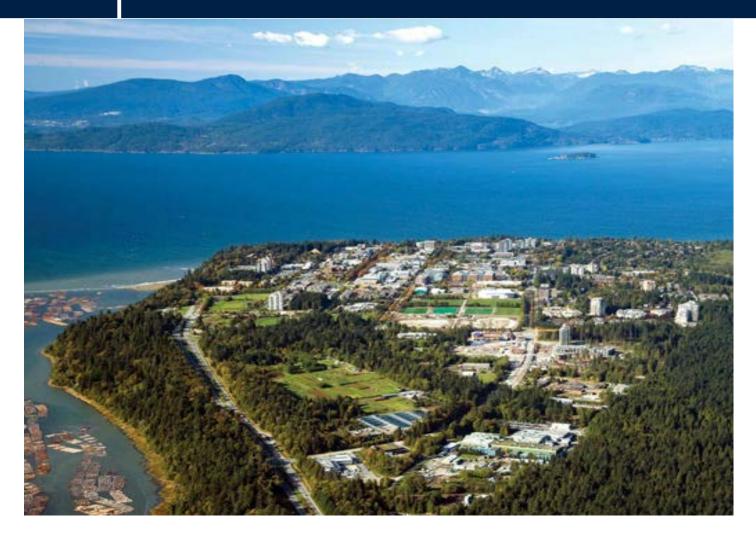


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The Vision Thing

- More than 50% of the worlds population lives in cities and by 2100 it will be 85%
- Move beyond sustainable campuses to sustainable cities
- Campuses as microcosms of cities, communities and workplace
- Experiments in infrastructure, social engineering and citizenship
- Two degrees requires \$150-200bn R&D spending
- We need a new operating system for cities





"At UBC's Vancouver campus, sustainability means simultaneous improvements in human and environmental wellbeing, not just reductions in damage or harm. By 2035, such **regenerative sustainability** is embedded across the University..."



UBC Advantages Policy, Jurisdiction and Innovation

- Campus operates like an independent city with 60,000 residents
- Provincial policy sets \$55/ton carbon tax and supports investment
- Strong foundations among staff and faculty in sustainability research
- Strong industry liaison office and relationships with partners

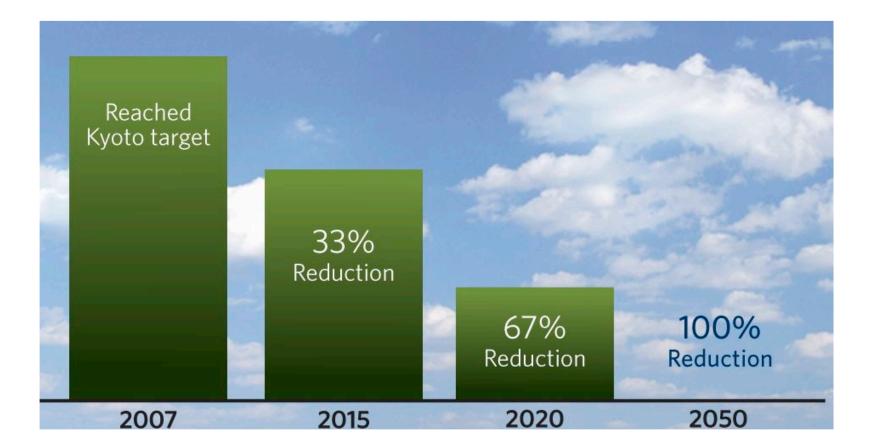


20+ Years of Achievement

Canada's first university to adopt a sustainable development policy		Meets Kyoto Protocol GHG reduction targets	Integrates sustainability as core pillar in UBC's strategic plan		Receives Canada's first Gold rating in STARS	Develops 20-year Sustainability Strategy
1996		2007	2009		2011	2014
1990	1998		2009	2010)	2013
Signs the international Tailloires Declaration	First Canadian university to open a Campus Sustainability Office		Develops Sustainability Academic Strategy	Establishes sustainability office at UBC's Okanagan campus		CIRS awarded LEED Platinum
				Sets bold target to reduce GHG emissions		ts



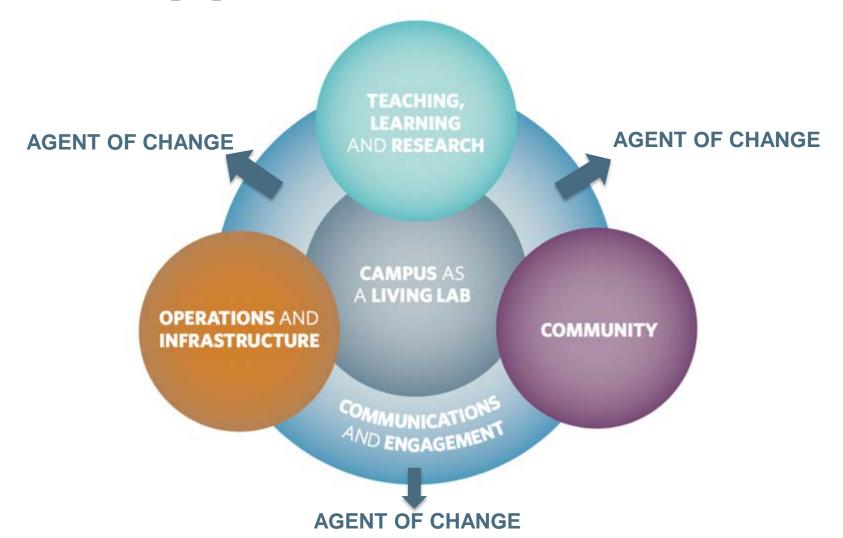
Our Targets





a place of mind

Our Approach



2014/2015 Fast Facts Vancouver Campus

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22% REDUCTION IN ABSOLUTE GHG EMISSIONS SINCE 2007



56% REDUCTION IN WATER USE PER STUDENT SINCE 2000



48 SUSTAINABILITY RELATED ACADEMIC PROGRAMS





66%





3,100 STUDENTS ENGAGED THROUGH SUSTAINABILITY IN RESIDENCE PROGRAMMING





38% STUDENT POPULATION ENGAGED IN UBC RECREATIONAL PROGRAMS





Teaching, Learning and Research

FACULTY ENGAGEMENT

636

448 SUSTAINABILITY FACULTY ENGAGED IN RELATED COURSES SUSTAINABILITY RESEARCH

768

STUDENTS, FACULTY AND STAFF ENGAGED IN APPLIED RESEARCH

LEARNING PATHWAYS **FELLOWSHIPS** GRANTS COURSE CONSULTATION **INTEGRATION**



Operations and Infrastructure

VANCOUVER CAMPUS

22% REDUCTION IN ABS. GHG EMISSIONS SINCE 2007

34%63%REDUCTION IN GHGOVERALL WASTEEMISSIONS PER STUDENTDIVERSION RATESINCE 2007OVERSION RATE

CLIMATE ACTION PROJECTS

CAMPUS ENGAGEMENT

GREEN FLEET

GREEN BUILDINGS NEIGHBOURHOOD ENERGY





Climate Action Plan Projects

Academic District Energy System

Bio-energy Research and Demonstration Facility

Continuous Optimization Building Tune-Up



Expected 22% reduction in campus emissions.

Achieved 11% reduction in campus emissions.

Will recommission over 70 buildings when complete.



2015-2016 Key Priorities Operations and Infrastructure

- Update the original Vancouver Campus Climate Action Plan to 2020, with positive financial business cases
- Develop a comprehensive Green Building Plan, with cogent roadmap toward net-positive design
- Complete the development of new Water Conservation Action Plan and initiate Campus Forest Management Plan development at Vancouver campus
- Complete the UBC Okanagan Whole Systems Infrastructure Plan and begin implementation
- Develop an Integrated Storm Water Management Plan at Okanagan campus

What's next?

- Capture five years experience of living laboratory projects on campus in publications
- Renewables spending reached \$270bn in 2014 (BNN): on track with Stern
- Focused cluster on Cities of the Future combining multiscalar urban modelling with complex systems approaches
- Create a professional designation for sustainability managers and curriculum



a place of mind THE UNIVERSITY OF BRITISH COLUMBIA