

Healthy People need a Healthy Planet Our Health Care Commitment

Sustainable Health Care in British Columbia

In 2010, the Lower Mainland Health Care Organizations (LMHOs) consolidated sustainability efforts and created the Energy and Environmental Sustainability Team (EES Team) to lead all energy and environmental sustainability work across the four LMHOs. The EES Team is housed within Lower Mainland Facilities Management, a consolidated department within the LMHOs, reports directly to the Fraser Health Vice President, Facilities Management and Chief Financial Officer.

While the EES Team are leading many of the sustainability efforts, all departments have a role to play. The GreenCare brand was created to promote a more collaborative and sustainable health care system across BC and to connect the internal and external network of partners engaged in this effort. The GreenCare Community is an online portal created by the EES Team to enable better communication and cooperation on environmental sustainability efforts within health care. Through the GreenCare Community and partnerships, the EES team coordinates environmental conservation projects across all departments while simultaneously growing a recognizable brand awareness that inspires infrastructure upgrades and a culture of sustainability, resilience and innovation.

GreenCare's Core Purpose

To systematically embed environmental, economic, and social sustainability policies, principles, and processes across the LMHOs.

GreenCare's Vision

Transforming Health Care to ensure thriving people and environments.

2020-2030 Goals & Targets

The EES Team has worked with various internal stakeholders to form 2020-2030 strategic goals and measurable targets, which provide governance and guidance on establishing a more sustainable British Columbia health care system in the Lower Mainland.

The LMHOs consist of all health care staff and facilities maintained under Fraser Health, Providence Health Care, Provincial Health Services Authority, and Vancouver Coastal Health. The British Columbia Ministry of Health works with the LMHOs to ensure that health services are appropriate, efficient, and cost effective across British Columbia.

Our Goals

Through GreenCare initiatives, the EES Team strives to achieve:



Healthy
Environments



Healthy
Workplaces



Healthy
Communities

Our Focus



Smart Energy & Water

Minimize energy & water consumption and greenhouse gas emissions to reduce costs and environmental impacts, helping ensure the health and wellness of our living environments.



Zero Waste & Toxicity

Minimize waste generated and toxic chemicals used by the health care system and supporting operations.



Regenerative Design

Achieve a "net-positive" built environment that is climate resilient and enriches health and wellness.



Active & Clean Transportation

Ensure a health care system in which employees commute/travel between sites in a manner that reduces greenhouse gas-related pollutants, minimizes the need for onsite parking, and increases overall health and wellness.



Culture Change

Integrate the environmental impact of health care operations, and its connection to the health of populations, into decision-making priorities, workplace practices, and organizational values across the Lower Mainland Health Care Organizations.



Our GreenCare Programs

The EES team has established various programs to help the LMHOs achieve their GreenCare vision, goals, key performance indicators (KPIs), and targets. These programs do not entail all the work being conducted but provide structure to key areas of prioritization.

Green+Leaders

Direct staff mentoring on how to “green” work spaces.

Energy & Water Management

Conservation through infrastructure, behavioural, and operational efficiencies.

Commuter Services

Efficient and active transportation to and from health care sites.

Recycling Renewal Program

Responsible diversion of recyclable solid and organic waste.

Environmentally Preferable Purchasing

Reducing the environmental impact of health care’s supply chain through purchasing decisions.

Climate Resilience & Adaptation

Site level mitigation and adaptation to potential climate change factors.

GreenCare Community

Communication and community development through the web.

bcgreencare.ca/programs

Glossary: Key Stakeholders

Energy & Environmental Sustainability team	EES
BC Clinical and Support Services Society	BCCSS
BC Hydro (electricity provider)	BCH
Business Initiatives & Support Services (consolidated)	BISS
Communications (per health care organization)	Comms
FortisBC (natural gas provider)	FBC
General Health Care Staff	GHCS
Human Resources (per health care organization)	HR
Infection Control (per health care organization)	IC
Integrated Protection Services (consolidated)	IPS
Local Municipalities	LM
Lower Mainland Facilities Management (consolidated)	LMFM
Medical Imaging (Imaging Techs)	MI
Nursing (Nurses)	N
Pharmacy (Pharmacists)	P
Fraser Health	FH
Providence Health Care	PHC
Provincial Health Services Authority	PHSA
Vancouver Coastal Health	VCH
B.C. Ministry of Health	MoH
B.C. Ministry of Environment	MoE

Glossary: Key Ministry of Health and Health Authority Priorities / Goals / Strategic Directions

Fraser Health (FH)

- FH1: Preventing Disease, Protecting Health and Promoting Wellness
- FH2: Engaging Staff and Physicians
- FH3: Balancing the Budget

Providence Health Care (PHC)

- PHC1: Lead Through Exceptional Care, Service Teaching & Research
- PHC2: Engage & Develop Our People
- PHC3: Foster a Culture of Innovation & Improvement

Provincial Health Services Authority (PHSA)

- PHSA1: Ensure the delivery of other key government priorities for high quality and appropriate health services
- PHSA2: Pursue innovative approaches to service delivery and manage the performance of your organization through continuous improvement across service and operational accountabilities, with quarterly reporting to the Ministry.

Vancouver Coastal Health (VCH)

- VCH1: Support the health and wellbeing of VCH residents
- VCH2: Deliver a system of responsive and effective health care services across VCH
- VCH3: Innovate to ensure value for money and sustainability

BC Ministry of Health (MoH)

- MoH1: Support the health and wellbeing of BC residents
- MoH2: Deliver a system of responsive and effective health care services across BC
- MoH3: Ensure value for money

The LMHOs have established aggressive key performance indicators (KPIs) and 2020-2030 targets to continuously drive the health care organizations and associated health care staff towards a more sustainable, resilient, and innovative delivery of health care services for the residents of British Columbia. These targets are intended to provide

direction and focus work resources for the GreenCare Community. The KPIs will be reported on and re-evaluated periodically to ensure they are driving change and directed towards the most relevant and high impact areas of efficiency and stewardship within health care.



FOCUS AREA & KPIS	METRIC / BASELINE (IF APPLICABLE)	2020 TARGET				2030 TARGET				KEY STAKEHOLDERS	SUPPORTS LOWER MAINLAND HEALTH CARE ORGANIZATION'S AND MINISTRY OF HEALTH'S (PRIORITIES, GOALS, STRATEGIC DIRECTIONS)
		Fraser Health	Providence Health Care	Provincial Health Services Authority	Vancouver Coastal Health	Fraser Health	Providence Health Care	Provincial Health Services Authority	Vancouver Coastal Health		

Smart Energy & Water

Goal: Minimize energy & water consumption and GHG emissions to reduce costs and environmental impacts, helping ensure the health and wellness of our living environments.

1	Reduce Energy Use Intensity (EUI) of core sites ¹	EUI (ekWh/m ² /year) (2007 Baseline)	15%	5%	5%	15%	25%	15%	15%	15%	25%	LMFM, BCH, FBC	FH3; PHC3; PHSA2; VCH3; MoH3
2	Reduce absolute in-scope GHG emissions ²	GHG emissions (tCO ₂ e/year) (2007 Baseline)	5%	10%	25%	25%	10%	20%	40%	40%	40%	LMFM, BCH, FBC, MoE	FH1, FH3; PHSA2; VCH1, VCH3
3	Reduce absolute in-scope GHG emissions ² Intensity ³	GHG emissions intensity (tCO ₂ e/year/m ²) ⁴ (2007 Baseline)	33%	33%	33%	33%	50%	50%	50%	50%	50%	LMFM, BCH, FBC, MoE	FH1, FH3; PHSA2; VCH1, VCH3
4	Reduce Water Use Intensity (WUI) of core sites ¹	WUI (m ³ /m ² /year) ⁴ (2010 Baseline)	20%	15%	10%	10%	25%	20%	20%	20%	20%	LMFM, LM	PHC3; VCH3

Zero Waste & Toxicity

Goal: Minimize waste generated and toxic chemicals used by the health care system and supporting operations.

5	Increase waste diversion rates at existing acute and residential care sites.	% of waste diverted	50%	50%	50%	50%	TBD	TBD	TBD	TBD	TBD	BISS, LMFM, GHCS	VCH3
6	Increase waste diversion rates at all new health care construction projects.	% of waste diverted	80%	80%	80%	80%	TBD	TBD	TBD	TBD	TBD	BISS, LMFM, GHCS	VCH3
7	Decrease food scraps in the garbage waste stream.	% of food waste in waste streams	<5%	<5%	<5%	<5%	TBD	TBD	TBD	TBD	TBD	BISS, LMFM, GHCS	FH1, FH2, PHC2, VCH1
8	Develop and implement a strategy to reduce overall waste from acute and residential care operations. The strategy will identify 2030 targets.	completed	Yes	Yes	Yes	Yes	TBD	TBD	TBD	TBD	TBD	BISS, LMFM, IC, N, GHCS, BCCSS	FH1, PHC1, PHC3, VCH1
9	Develop and implement a strategy to reduce overall toxins used in acute and residential care operations. The Strategy will identify 2030 targets.	completed	Yes	Yes	Yes	Yes	TBD	TBD	TBD	TBD	TBD	BISS, LMFM, IC, GHCS, BCCSS, N	FH1, PHC1; PHC3, VCH1

Footnotes

¹Facilities that are actively monitored for energy and water efficiency (primarily owned and operated sites).

²In-scope emissions are from owned and leased buildings, fleet travel, and paper use (as defined in relation to the GHG Reduction Targets Act).

³British Columbia Provincial government has a 83% reduction mandate over absolute CO₂ emissions. EES felt this mandate should more accurately, due to the growth of health care, be placed on an INTENSITY measure.

⁴It is recognized that water consumption is more directly influenced by staff count per facility. Due the uncertain and changing nature of staff counts, for the time being EES will use facility space for the intensity metric.

⁵End of trip facilities must include a minimum of 1 on-site shower / changing facility and a minimum of bicycle secure storage for 5% of on-site staff.

⁶Though the Culture Change focus pertains to all targets in all focus areas, specific targets have been set for this topic area.

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		Fraser Health	Providence Health Care	Provincial Health Services Authority	Vancouver Coastal Health	Fraser Health	Providence Health Care	Provincial Health Services Authority	Vancouver Coastal Health		

Regenerative Design
Goal: Achieve a “net-positive” built environment that is climate resilient and enriches health and wellness.

10	Ensure all new construction projects achieve performance-based requirements aligned with resilience and regenerative principles (a minimum of LEED Gold for Healthcare).	% of projects with requirements	100%	100%	100%	100%	100%	100%	100%	100%	LMFM	PHSA1
11	Complete climate resilience assessments for all core sites	% of sites assessed	50%	50%	50%	50%	100%	100%	100%	100%	LMFM, LM	FH1, PHC1; VCH3; MoH3
12	Produce site-level climate resilience plans for all core sites.	% of sites with plan	10%	10%	10%	10%	100%	100%	100%	100%	LMFM, LM	FH1, PHC1; PHC3, VCH3; MoH3

Active & Clean Transportation
Goal: Ensure a health care system in which employees commute/travel between sites in a manner that reduces GHG-related pollutants, minimizes the need for onsite parking, and increases overall health and wellness.

13	Increase the % of health care staff that commute via cleaner and healthier means (ie; Alternatives to single occupancy vehicles).	% of annual staff commute via cleaner and healthier means (2016 Baseline)	35%	65%	60%	60%	50%	80%	75%	75%	LMFM, HR, IPS	FH1; PHSA1; VCH1; MoH1
14	Increase portion of core sites that provide end of trip (EOT) bicycle facilities / storage options 5	% of Core sites with EOT facilities	30%	30%	30%	30%	100%	100%	100%	100%	LMFM, HR, IPS	FH1; PHSA1; PHC3, VCH1; MoH1

Culture Change⁶
Goal: Integrate the environmental impact of health care operations, and its connection to the health of populations, into decision-making priorities, workplace practices, and organizational values across the Lower Mainland Health Care Organizations (LMHOs).

15	Increase number of new Green+Leaders participating in the program.	# of staff recruited by target year (2016 Baseline)	25	25	25	25	75	75	75	75	GHCS	FH1, FH2; PHC2, PHC3, VCH1, MoH1
16	Increase the number of EES-themed stories appearing in Health Authority news.	% increase in the # of stories (2016 Baseline)	25%	25%	25%	25%	50%	50%	50%	50%	CD	FH1, FH2; PHC2, PHC3
17	Develop new department-specific green strategies/programs approved by senior leadership. Begin strategy implementation and develop new targets.	# of strategies/programs (2016 Baseline)	2	2	2	2	5	5	5	5	MI, P, GHCS	FH1, FH2; PHC2, PHC3, VCH1, MoH1
18	Refresh and obtain Executive Leadership approval of Sustainability Policies.	Yes/No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	LMFM, BISS, BCCSS, HR	FH2; PHC2, PHC3

Footnotes

¹Facilities that are actively monitored for energy and water efficiency (primarily owned and operated sites).

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