



Environmental Performance  
Accountability Report

# Environmental sustainability is everyone's story.

The 2020 EPAR dashboard.





# Energy and Environmental Sustainability

The Energy and Environmental Sustainability (EES) team was created in 2010 to ensure that a collaborative environmental sustainability approach is taken across the Lower Mainland health organizations (LMHOs) — [Fraser Health](#), [Providence Health Care](#), [Provincial Health Services Authority \(PHSA\)](#) and [Vancouver Coastal Health \(VCH\)](#).

Since then, we’ve partnered with many departments, teams and individuals to integrate and enhance sustainability infrastructure and practices in a variety of projects and programs, and made health and wellness central to our work.

The EES team is driving the push for environmentally sustainable and resilient health care, but can’t do it alone.

## GreenCare: Embedding environmental health and wellness

Founded and led by the EES team, GreenCare is a network that unites efforts within the B.C. health-care community to transform our health-care system toward environmentally sustainable and resilient care. By connecting diverse groups across the LMHOs, GreenCare amplifies and celebrates projects, programs and staff actively working to address our climate reality. The [GreenCare website](#) acts as a home and resource to support these efforts.

To reduce the risks of our climate reality and the environmental impacts of health-care construction and operations, we must all take clear, meaningful action. The GreenCare Focus Areas are essential to this action and have been developed in consideration of the interdependent nature of healthy people, places and planet. None of these Focus Areas exists in a silo: activities and actions in one area have real impacts on the others. In this way, energy and environmental sustainability is a holistic endeavour that requires a unified, coordinated approach that engages all stakeholders in every part of the health-care system.

# The Dashboard

2020 is a milestone reporting year. The traffic lights indicate whether or not we met the targets for 2020, helping us reflect on what is achievable and what requires action moving forward. In some cases, we will be considering new targets, including 2025 key performance indicators (KPIs), to help us assess our journey. In others, we will be strengthening our partnership approach in order to increase impact as we move towards our 2030 targets. Captured in the 2020 Dashboard, these targets and KPIs help us determine challenges, recognize successes, and guide the actions we need to take to transform our health-care system toward environmentally sustainable and climate-resilient care for healthy people, place and planet.

The Dashboard has four Focus Areas, eight targets, and related key performance indicators for 2020 and 2030. These KPIs and targets were formulated and reported in consultation with relevant senior executives at the various LMHOs. In some cases, a target is influenced by but not necessarily aligned with provincial or regional mandates. While we do not currently have targets and KPIs for our Climate Risk & Resilience Focus Area, you can find more information in section 3.2 of the EPAR.

A note about the impacts of COVID-19: The pandemic affected the 2020 results. In the case of energy usage, we suspect that the increase in energy usage across health authorities from 2019 to 2020 was due to the requirement to use 100% outside air. In the case of waste, the increase in personal protective equipment (PPE) waste in 2020 was at times offset by staff working from home and patients moving to virtual care. Lastly, the increase in staff working from home led to a decrease in overall commutes to work; however, we did see a decrease in commutes via public transit as staff opted to drive their vehicles instead. The Dashboard below is meant to show progress from our baseline year, but if you’d like to learn more about the impact of COVID-19 and the KPI trends from 2019 to 2020, check out the full reports.

# Downloads

## Fraser Health

- ▶ [2020 EPAR](#) ↕
- ▶ [2020 Climate Change Accountability Report \(CCAR\)](#) ↕

## Providence Health Care

- ▶ [2020 EPAR](#) ↕
- ▶ [2020 Climate Change Accountability Report \(CCAR\)](#) ↕

## Provincial Health Services Authority

- ▶ [2020 EPAR](#) ↕
- ▶ [2020 Climate Change Accountability Report \(CCAR\)](#) ↕

## Vancouver Coastal Health

- ▶ [2020 EPAR](#) ↕
- ▶ [2020 Climate Change Accountability Report \(CCAR\)](#) ↕

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There are a number of ways in which you can make a difference.

### LEAD BY EXAMPLE.

Look for opportunities to reduce environmental impact in the workplace.

### YOUR VOICE MAKES A DIFFERENCE.

Talk to your colleagues and see how you can work together.

### PARTICIPATE.

Attend and support environmental sustainability events and actions.

### LEARN MORE ABOUT SUSTAINABLE AND RESILIENT HEALTH CARE.

Check out the GreenCare website [here](#).

### MEET OTHERS INTERESTED IN ENVIRONMENTAL SUSTAINABILITY.

Find out more about the Green+Leaders program [here](#).

### INSPIRE.

Share your environmental sustainability story [here](#).

# 2020 Dashboard Highlights:

These are 2020 targets that were met or exceeded.



Fraser Health

19.3%

decrease in greenhouse gas-emissions intensity since 2007

23.5%

decrease in water-use intensity since 2010

Providence Health Care

15.2%

decrease in greenhouse gas-emissions intensity since 2007

6

new Green+Leaders in 2020

Provincial Health Services Authority

29.2%

decrease in greenhouse gas-emissions intensity since 2007

14

new Green+Leaders in 2020

38%

decrease in waste intensity since 2014

Vancouver Coastal Health

32.5%

decrease in greenhouse gas-emissions intensity since 2007

15.6%

decrease in water-use intensity since 2010



## Active & Clean Transportation

Goal: Ensure a health-care system in which employees, patients and visitors commute and travel in a manner that reduces pollutants and emissions, minimizes the need for onsite parking, and increases overall health and wellness.

			Fraser Health				Providence Health Care				Provincial Health Services Authority				Vancouver Coastal Health			
Target*	Key Performance Indicators (KPI)	Baseline	2020 Results**	Traffic Light	2020 Target	2030 Target	2020 Results**	Traffic Light	2020 Target	2030 Target	2020 Results**	Traffic Light	2020 Target	2030 Target	2020 Results**	Traffic Light	2020 Target	2030 Target
Increase staff commuting by active and clean transportation modes.	Percentage of staff commutes made by active and clean modes	2016	30%	●	35%	50%	57%	●	65%	85%	44%	●	60%	75%	46%	●	60%	75%

\* This Focus Area is currently under review, including identification of new targets and KPIs.

\*\* Transportation mode share is determined through a biennial staff survey. Due to the impacts of and concerns relating to COVID-19, there was both a drop in transit ridership<sup>1</sup> and an increase in the number of people working from home. 2020 results have been adjusted to remove the proportion of time staff reported working from home.

1 Pinkerton E, Desmond K. COVID-19 Impacts on Public Transit [presentation notes]. UBCM Transit Communities Forum [Internet]; 2020 Jun 16; British Columbia, Canada [cited 2021 Jun 22]. p. 1-22. Available from: <https://www.ubcm.ca/assets/Resolutions~and~Policy/Policy/Community~Economic~Development/01%20Joint%20BC%20Transit-TransLink%20Presentation%20to%20UBCM%20-%20June%2016%202020.pdf>

● 2020 target met or exceeded

● 2020 target within sight; work in progress

● 2020 target not met and requires attention



## Smart Energy & Water

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

			Fraser Health				Providence Health Care				Provincial Health Services Authority				Vancouver Coastal Health			
Target	Key Performance Indicators (KPI)	Baseline	2020 Results*	Traffic Light	2020 Target	2030 Target	2020 Results*	Traffic Light	2020 Target	2030 Target	2020 Results*	Traffic Light	2020 Target	2030 Target	2020 Results*	Traffic Light	2020 Target	2030 Target
Reduce energy-use intensity (EUI) of core sites.**	EUI (ekWh/m <sup>2</sup> /year)	2007	13.5%	●	15%	25%	3.4%	●	5%	15%	17.5%	●	20%	30%	12.6%	●	15%	30%
Reduce absolute in-scope GHG emissions.***	GHG emissions (tCO <sub>2</sub> e/year)	2007	-9.0%****	●	5%	50%	8.4%	●	10%	50%	22.2%	●	25%	50%	18.7%	●	25%	50%
Reduce in-scope GHG-emissions intensity.	GHG-emissions intensity (kgCO <sub>2</sub> e/m <sup>2</sup> /yr)	2007	19.3%	●	15%	50%	15.2%	●	15%	50%	29.2%	●	30%	50%	32.5%	●	30%	50%
Reduce building water (use) performance intensity (BWPI) of core sites.	BWPI (m <sup>3</sup> /m <sup>2</sup> /year)*****	2010	23.5%	●	20%	25%	8%	●	15%	20%	34.2%	●	10%	20%	15.6%	●	10%	20%

\* Due to COVID-19, facilities were required to use 100% outside air. This impacted energy usage, which is reflected in the 2020 results.

\*\* Core sites are defined as primarily owned health-care facilities that can be actively monitored for energy, water and waste data.

\*\*\* Absolute emissions refers to total emissions regardless of change in facility space. In-scope emissions are from owned and leased buildings, fleet use and paper use (as defined by the *Climate Change Accountability Act*).

\*\*\*\* Fraser Health's absolute emissions have gone up in relation to expanded services including a significant increase in facilities' space and staffing, but overall intensity has gone down.

\*\*\*\*\* Although facility space is used as an intensity metric for water, it's important to note that total water consumption is influenced by facility staff count, processes, procedures and equipment.

- 2020 target met or exceeded
- 2020 target within sight; work in progress
- 2020 target not met and requires attention



## Workplace Leadership

Goal: Together, reach, engage and inspire health-care staff to be leaders who share a commitment to and passion for healthy, sustainable and thriving communities, workplaces and environments.

Target*	Key Performance Indicators (KPI)	Baseline	Fraser Health				Providence Health Care				Provincial Health Services Authority				Vancouver Coastal Health			
			2020 Results	Traffic Light	2020 Target	2030 Target	2020 Results	Traffic Light	2020 Target	2030 Target	2020 Results	Traffic Light	2020 Target	2030 Target	2020 Results	Traffic Light	2020 Target	2030 Target
Increase the number of Green+Leaders across the organization.**	Number of staff joining Green+Leaders program annually	n/a	7		12	14	6		4	7	14		15	18	8		12	15

\* This Focus Area is currently under review, including identification of new targets and KPIs.

\*\* In previous years, this target was measured as a proportional increase in Green+Leaders. It was decided that using numbers will provide more accurate and meaningful information for monitoring. A refresh of the engagement metrics will take place in 2021.

- 2020 target met or exceeded
- 2020 target within sight; work in progress
- 2020 target not met and requires attention



## Zero Waste & Toxicity

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

			Fraser Health				Providence Health Care				Provincial Health Services Authority				Vancouver Coastal Health			
Target	Key Performance Indicators (KPI)	Baseline	2020 Results**	Traffic Light	2020 Target	2030 Target	2020 Results**	Traffic Light	2020 Target	2030 Target	2020 Results**	Traffic Light	2020 Target	2030 Target	2020 Results**	Traffic Light	2020 Target	2030 Target
Increase waste-diversion rates at existing acute and long-term care sites.*	% of waste diverted (annual average)	n/a	40%	●	50%	50%	35%	●	50%	50%	36%	●	50%	50%	41%	●	50%	50%
Decrease waste-intensity rates at existing acute and long-term care sites.	Waste intensity (kilograms/m <sup>2</sup> /year)	n/a	18.1	●	15.0	12.0	15.3	●	12.0	10.0	4.3	●	5.0	4.0	12.0	●	10.0	8.0

\* Waste-diversion data does not include segregated bio-medical waste.

\*\* COVID-19 had a varying impact on 2020 waste results. An increase in personal protective equipment (PPE) waste in 2020 was at times offset by staff working from home and patients moving to virtual care.

● 2020 target met or exceeded  
● 2020 target within sight; work in progress  
● 2020 target not met and requires attention

