## Brightside Net-Zero Strategy Report

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## Targeting Net-Zero by 2035

Authored by Affine Climate Solutions for Brightside Community Homes Foundation February 2023



70+ Years of Building community

Brightside Community Homes Foundation, as a place-based organization, is privileged to provide affordable homes for seniors, families, and people with disabilities on the traditional and unceded territories of the x<sup>w</sup>məθk<sup>w</sup>əýəm (Musqueam), Skwxwú7mesh (Squamish), and səlilwətał (Tsleil-Waututh) Peoples. This work is intended to represent a living document. The document, as it is printed here, was completed in April 2023. It is the result of the dedicated efforts and expertise of Affine Climate Solutions, working in collaboration with Brightside Community Homes Foundation.

This work was made possible by funding from the Community Housing Transformation Centre (CHTC), from Vancity, and from the Real Estate Foundation of BC. Without the generous grant contributions from these funders, this Net-Zero Climate Strategy would not have been possible.



Community Housing Transformation Centre Centre de transformation du logement communautaire



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## About Brightside

## **Quick Facts:**

- Founded in 1952
- Operating 22 non-profit buildings throughout Vancouver (2023)
- Four additional affordable housing sites currently being (re)developed
- Geographic scope is being expanded to Metro Vancouver
- Owns a small vehicle fleet

## Mission

Create **resilient communities** throughout Metro Vancouver, with **safe** and **secure homes** for those struggling to meet the demands of market housing.

## Vision

A future where people of all income levels have a home within a **vibrant, inclusive,** and **healthy community**.

## Values

Being Progressive We must be adaptive, flexible, and proactive.

Maintaining Clarity We must be fair, open, and consistent.

Being Resourceful We must be rigorous, diligent, and be great problem solvers.

Being Inclusive We must be respectful, approachable, and empathetic.

Supporting Social Justice We must take action to create

equitable opportunity.

## Brightside's Net Zero Approach

In 2022, Brightside launched the next phase of its environmental and social program. The Board tasked the CEO with creating a climate strategy. With the support of Affine Climate Solutions, Brightside established a baseline understanding of emissions and developed a pathway for radically reducing emissions over the coming years.

Brightside is committed to being a leader in the affordable housing sector in BC and to sharing lessons learned with the community. In line with the organization's leadership role, the Board set a target to achieve net zero greenhouse gas (GHG) emissions across Scope 1 and 2 emissions by 2035. The focus is on eliminating fossil fuels from the building portfolio. Only after reducing emissions as far as possible will Brightside consider using legitimate schemes to offset any residual emissions.

"I am proud to be embarking on such a bold, ambitious, and necessary plan to get Brightside to zero GHG emissions by 2035. We look forward to all we will learn and accomplish over the coming dozen years as we make a big improvement to our climate impact."

- William Azaroff, CEO, Brightside

This report outlines Brightside's approach to achieving net zero GHG emissions, discusses the ambitious emissions reduction targets set, and highlights the organization's first implementation measures.

The Net Zero Strategy Report is split into five main sections:

- 1. Defining the Scope
- 2. Measuring 2021 Base Year Emissions
- 3. Setting Ambitious Targets
- 4. Building an Actionable Plan
- 5. Reporting on Progress

The report starts by identifying the GHG emission sources that are in scope. In line with industry best practice, emission reduction targets will apply to Brightside's whole portfolio of owned properties and will address Scope 1, 2, and 3 emissions.



Source: WRI/WBCSD Corporate Value Chain (Scope 3) Accounting and Reporting Standard (pdf), page 5

## What are Scope 1, 2, and 3 emissions?

Each of the scopes different represents а category of GHG emissions that make up Brightside's footprint. Guidance followed from the is WBCSD GHG WRI and Greenhouse Gas Protocol.

Туре	Description	Examples	
Scope 1	<u>Direct</u> emissions from sources owned by the organization	<ul> <li>Natural gas burned in buildings</li> <li>Fuel burned in vehicles</li> </ul>	
Scope 2	<u>Indirect</u> emissions from purchased electricity and steam	Electricity used in buildings' common areas	
Scope 3	Emissions from sources <u>not owned or controlled</u> by the organization	<ul> <li>Emissions from purchased goods, employee commuting, investments, and energy used by residents</li> </ul>	

## Measuring Base Year Emissions

## Measuring 2021 Base Year Emissions

2021 was selected as the base year for measuring progress toward Brightside's targets. We estimated that 84% of Brightside's emissions fall into Scope 3, which is a collection of activities in Brightside's value chain that is typically outside of their direct operational control. Of those Scope 3 emissions, only a small amount relate to tenant energy use and vehicles used for business travel.

Over 2023-24, we recommend for Brightside to expand tracking of their Scope 3 emissions. As Brightside improves data quality related to Scope 3 emissions, base year emissions may change slightly from the results presented here and can be restated as necessary in future reports.



## Total Emissions: Scope 1, 2 & 3 (tCO2e)

■ Buildings: Scope 1 & 2 ■ Transportation: Scope 1 ■ Scope 3

Note: Scope 3 estimate based on BC emissions and Brightside vendor spend.

## Scope 1 and 2 Emissions

#### Explanation

- Scope 1: Gas
- Scope 2: Electricity & Steam
- Scope 3: Tenant energy use

The small decline in 2021 emissions is mostly due to two reasons: 1) two properties (LO & EB) were empty much of the year in preparation for demolition, and 2) the BC electricity emissions factor was higher in 2020 and lower in 2021 (affects mostly Scope 3).

EMISSIONS	S SUMMARY BU	ILDING PC	ORTFOLIO
2019	Amount	Unit	Percentage
Scope 1	1,514	tCO2e	79
Scope 2	216	tCO2e	11
Scope 3	191	tCO2e	10
Total	1,920	tCO2e	100
2020	Amount	Unit	Percentage
Scope 1	1,514	tCO2e	77
Scope 2	209	tCO2e	11
Scope 3	236	tCO2e	12
Total	1,959	tCO2e	100
2021	Amount	Unit	Percentage
Scope 1	1,481	tCO2e	83
Scope 2	210	tCO2e	12
Scope 3	84	tCO2e	5
Total	1,775	tCO2e	100

GHG emissions from natural gas combustion do not account for the "fugitive" methane that leaks from extraction, fracking, pipelines, and distribution.

While not yet included in common GHG accounting methodologies, there is emerging best practice to account for methane leakage in buildings. Methane is a very potent greenhouse gas, up to 85 times more powerful than CO2.

We applied Canadian guidance on fugitive methane emissions to Brightside's building emissions to illustrate their impact.

Scope 1 are fugitive emissions from local transmission, distribution, and post meter. Scope 3 are upstream fugitive emissions from extraction and upstream transmission.

<b>INCLUSION OF FUGITI</b>		EMISSONS	NATURAL GAS
2019	Amount	Unit	Increase
Scope 1	94	tCO2e	6%
Scope 3	338	tCO2e	136%
Total Emissions	2,242	tCO2e	24%
2020	Amount	Unit	Increase
Scope 1	94	tCO2e	6%
Scope 3	338	tCO2e	115%
Total Emissions	2,286	tCO2e	23%
2021	Amount	Unit	Increase
Scope 1	92	tCO2e	6%
Scope 3	330	tCO2e	211%
Total Emissions	2,100	tCO2e	25%

## Building Portfolio: Total GHG Emissions





Bridgeview Place (BVP) - 238 Davie Street, Vancouver

## Building Portfolio: Emissions Intensity



When evaluating GHG emissions, it is important to not only consider total emissions, but also emissions intensity per m2 to identify the worst polluting buildings.

Across Brightside's building portfolio, the GHG intensity was calculated at 25.58 kgCO2e / m2 in 2021 (Scope 1 & 2).



Harwood Manor (HM) - 1222 Harwood Street, Vancouver

## 2021 GHG Emissions Summary: Scope 1 & 2

#### Vehicles

- Scope 1 Company owned vehicles: 21 tCO<sub>2</sub>e
- Scope 3 Personal vehicle use & Modo car-sharing: 41 tCO<sub>2</sub>e

Scope	Description	Amount (tCO <sub>2</sub> e)	Total Emissions: Scope 1 & 2 1%
Scope 1	Buildings	1,481	
	Vehicle Fleet	21	
	Scope 1 TOTAL	1,501	
Scope 2	Buildings	210	
	Scope 2 TOTAL	210	99%
	Scope 1 and 2 TOTAL	1,711	Buildings Transportation



## Scope 3 Emissions

Scope 3 emissions typically account for over 85% of a commercial real estate company's entire footprint.<sup>1</sup> Brightside's estimated Scope 3 emissions fall in line with that. The most relevant Scope 3 examples include:

- Emissions from purchased goods and services
- Emissions from construction materials used in new developments
- Emissions from tenant energy use
- Emissions from employees commuting to work



While it is important for companies to understand the complete footprint from their activities, Scope 3 emissions reporting requires a comprehensive baselining effort. These emissions overlap with other companies' emissions. Strategies to reduce Scope 3 emissions often rely on identifying synergies and collaboration with suppliers and partners. Criteria for tackling Scope 3 activities include:

- Size: their relative size of total Scope 3 footprint
- Influence: higher likelihood of undertaking actions to reduce emissions
- **Risk**: they contribute to the organization's climate change risk exposure (financial, regulatory, supply chain, reputation, etc.)
- **Stakeholders**: whether they are deemed critical by key stakeholders (customers, employees, investors)

<sup>1</sup>Source: Carbon Disclosure Project, Carbon Credentials (2017)

## Steps to Reduce Supply Chain Emissions



## Suggested Supplier Engagement Steps



Steps	2023	2024	2025
Management commits and sets approach to cut supply chain emissions			
Notify suppliers of net zero commitments			
Integrate climate commitments into procurement documents			
Include requirements in evaluation of new suppliers			
Ask suppliers for reduction plans & available data			
Integrate climate action in existing supplier base			·
Estimate emissions via supplier data & spend based method			
Set supply chain reduction targets			1.00
Ongoing dialogue, evaluation, and reporting			

**Blue** = Foundation; **Orange** = Procurement; **Grey** = Baselining & Reporting

## Setting Ambitious Reduction Targets



# Follow the science-based approach.

Targets are considered science based if they are in line with what the latest climate science deems necessary to limit global warming to 2°C (Paris Agreement).

Focus on what you can control

> Scope 1 & 2 emissions

> > 01

02 Near term targets

Set short-term targets to motivate action

## 03 Connect actions to impact

Understand the levers to achieve targets

## Target Recommendations





## 2035 Net Zero Pathway – 2 retrofits per year

In October 2022, Brightside's Board approved ambitious emission reduction targets for Scope 1 & 2 emissions. Given the primacy of building related emissions, targets were calculated based on required number of net zero retrofits per year.

- **2027**: **37% reduction** to allow time to build capacity for retrofit financing & implementation.
- 2035: reach net zero emissions across the building portfolio.

Year	Target emissions (tCO2e)	Percent reduction	# Retrofits
2021 (base year)	1,690		
2027	1,057	37%	6-7
2035	20	99%	21

Notes:

- Includes Scope 1 & 2 emissions for buildings only.
- Includes 4 new properties constructed in 2022/23 and MP that will not be retrofitted (due to sale).
- Assumes zero-emission electricity by 2027.



## Net-Zero Action Plan

## Brightside's carbon reduction activities can be grouped into four categories:

### Decarbonizing Existing Properties

- Develop and execute on a climate-aligned portfolio plan for existing properties
- Plan, finance, and implement net zero retrofits
- Use retrofits as opportunity for making buildings climate resilient

### Zero Emission New Developments

- Design and construct properties that are climate resilient and zero emissions
- Update new construction guidelines with zero operational carbon requirements, climate resilience, low embodied carbon materials, and low GWP refrigerants





### **Fleet Electrification**

- Replace company vehicles with Electric Vehicles (EVs) at time of renewal
- Implement EV charging at operational sites
- Reduce personal vehicle use for business purposes

### Value Chain Engagement

- Engage with project teams to construct low embodied carbon buildings
- Set approach to cut supply chain emissions & improve data quality
- Notify suppliers of net zero commitments

## Climate-Aligned Portfolio Plan

A climate-aligned portfolio plan integrates emissions reductions, resilience, redevelopment, and maintenance priorities. The objective is to prioritize buildings for retrofits based on their emissions profile and capital renewal plans. The portfolio plan also informs retrofit scheduling, phasing, and modelling of the required retrofit financing.

Customized retrofit transition plans need to be developed for each property. Available incentives will be paired with the best financing solutions on a portfolio and building level basis. Depending on each asset, the approach may include investments in:

- 1. Envelope upgrades to reduce energy consumption
- 2. Heating and hot water electrification
- 3. Summer cooling
- 4. Lighting upgrades & appliance electrification



### Zero Emissions New Developments

Brightside is committed to zero emissions new construction, defined as buildings that produce zero emissions in their operation, deriving all energy needs from 100% clean and renewable sources.<sup>2</sup>

### Net Zero Emissions Existing Buildings

Brightside's existing building approach focuses on net zero retrofits by eliminating fossil fuels thereby reducing GHG emissions from operations to as close to zero as possible. Remaining emissions will be balanced out on an organizational or building level through renewable energy generation or carbon removal.

<sup>2</sup>Source: Metro Vancouver, Climate 2050 Roadmap Buildings (2021)

## Net-Zero Retrofit Schedule & Timeline

To achieve Brightside's ambitious 2035 net zero target, ~ 2 buildings will need to be retrofitted every year.



We planned for a slower start with ~ 6 retrofits being completed by 2027, allowing time for internal capacity building and resourcing.

After that, the cadence and speed of retrofit planning and implementation would need to increase to 2 retrofits per year, until all 21 existing properties have been refurbished by 2035.

Over time, Brightside may acquire existing properties and grow its portfolio. Emissions from new and acquired buildings will be integrated into the emissions baseline and climate-aligned capital plan. In 2022, Brightside initiated two net zero retrofit pilots. The objectives are to test the technical and financial feasibility of bringing both buildings to zero emissions and making them climate resilient. Given BC's clean electricity grid, both pilots involve mechanical system electrification. Both projects also serve as test cases for using new innovative financial tools and incentives. Pilot scope:

- Heat pump conversions for space heating & domestic hot water
- Heat pumps will provide summer cooling
- Window upgrades
- Lighting upgrades & appliance electrification



Moreland Kennedy House Gordon Fahrni House

Construction Year	1974	1969
Number of units	31 bachelor & one- bedroom	42 bachelor & one- bedroom
Heating and hot water	Gas boiler	Gas boiler
Climate Resilience	No cooling Some original single- pane windows	No cooling All original single- pane windows

## Net Zero Retrofits: Sample Project Schedule





## Managing Risk & Supporting Activities

### Supporting activities will be important for successful implementation:





For transparency and standardization of climate-related reporting we recommend for Brightside to include climate-related information in the organization's impact report. Disclosure should be in line with accepted industry standards, such as the Sustainability Accounting Standards Board (SASB) or the Task Force for Climaterelated Financial Disclosures (TCFD) Recommendations.

Given that four new properties are being constructed in 2023, we recommend for the next GHG inventory to be completed in 2024. This will allow the new buildings to be integrated into Energy Star Portfolio Manager and for their data to be included in the inventory. Total Scope 1 & 2 GHG emissions and the 2027 reduction target have been integrated into Brightside's Key Performance Indicators and will be reviewed on an annual basis. The portfolio's emissions intensity will be tracked at each inventory.



#### The graph below will help to visualize and track progress:



## 2035 Net Zero Retrofit Schedule

D	Task Name	2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040
1	Building #1 - Moreland Kennedy Pilot	
2	Planning & Design	MK - Planning & Design
3	Construction	MK - Construction
4	Building #2 - Gordon Fahrni Pilot	
5	Planning & Design	GF - Planning & Design
6	Construction	GF - Construction
7	Building #3	
8	Planning & Design	Bldg 3 - Planning & Design
9	Construction	Bldg 3 - Construction
10	Building #4	
11	Planning & Design	Bldg 4 - Planning & Design
12	Construction	Bldg 4 - Construction
13	Building #5	
14	Planning & Design	Bldg 5 - Planning & Design
15	Construction	Bldg 5 - Construction
16	Building #6	
17	Planning & Design	Bldg 6 - Planning & Design
18	Construction	Bldg 6 - Construction
19	Building #7	
20	Planning & Design	Bldg 7 - Planning & Design
21	Construction	Bldg 7 - Construction
22	Building #8	
23	Planning & Design	Bldg 8 - Planning & Design
24	Construction	Bldg 8 - Construction
25	Building #9	
26	Planning & Design	Bldg 9 - Planning & Design
27	Construction	Bldg 9 - Construction
28	Building #10	
29	Planning & Design	Bldg 10 - Planning & Design
30	Construction	Bldg 10 - Construction
31	Building #11	
32	Planning & Design	Bldg 11 - Planning & Design
33	Construction	Bldg 11 - Construction
34	Building #12	
35	Planning & Design	Bldg 12 - Planning & Design
36	Construction	Bldg 12 - Construction
37	Building #13	
38	Planning & Design	Bldg 13 - Planning & Design
39	Construction	Bldg 13 - Construction
40	Building #14	
41	Planning & Design	Bldg 14 - Planning & Design
42	Construction	Bldg 14 - Construction
43	Building #15	1
44	Planning & Design	Bldg 15 - Planning & Design
45	Construction	Bldg 15 - Construction
46	Building #16	
47	Planning & Design	Bldg 16 - Planning & Design
48	Construction	Bldg 16 - Construction

## 2035 Net Zero Retrofit Schedule Cont'd

D	Task Name	2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040
49	Building #17	
50	Planning & Design	Bldg 17 - Planning & Design
51	Construction	Bldg 17 - Construction
52	Building #18	
53	Planning & Design	Bldg 18 - Planning & Design
54	Construction	Bldg 18 - Construction
55	Building #19	
56	Planning & Design	Bldg 19 - Planning & Design
57	Construction	Bldg 19 - Construction
58	Building #20	
59	Planning & Design	Bldg 20 - Planning & Design
60	Construction	Bldg 20 - Construction
61	Building #21	
62	Planning & Design	Bldg 21 - Planning & Design
63	Construction	Bldg 21 - Construction



## GHG Emissions Boundary

#### Brightside's GHG Emissions Boundary

We set Brightside's organizational boundaries using the operational control approach, as defined by the World Resources Institute's (WRI) and the World Business Council for Sustainable Development's (WBCSD) Greenhouse Gas Protocol ("GHG Protocol"), wherein "control" is determined by whether the reporting company can introduce and implement sustainability measures at the asset level.

The GHG emissions boundaries outlined here are based on data from December 31, 2021. Any changes to Brightside's boundaries or baseline occurring in future inventories will be captured in future reports.



#### Scope 1 & 2 GHG Emissions Boundary

Brightside's targets include over 95% of their Scope 1 & 2 emissions. The emissions sources for Scope 1 & 2 are related to operational energy consumption (fuels, electricity, and district energy systems) at properties and vehicles under the organization's operational control. Fugitive emissions from refrigerant leaks at Brightside managed sites were estimated and included in the inventory but found to be immaterial.

#### Scope 3 GHG Emissions Boundary



Brightside's first GHG inventory includes detailed accounting for 2 of the 15 categories of Scope 3 emissions outlined by the GHG Protocol. They are detailed in the GHG Emissions Summary table. The other Scope 3 categories likely relevant for Brightside are highlighted in blue in the table. We recommend calculating the remaining Scope 3 emissions as part of the next inventory.



#### **Baseline Emissions**

The emissions that have occurred in the past which provide a benchmark against which future performance is measured.

#### **Base Year**

A historic reference year against which a company's emissions are tracked over time.

#### Carbon Dioxide Equivalent (CO<sub>2</sub>e)

The typical unit to measure the impact of atmospheric gases on climate change. The unit expresses the impact of a greenhouse gas in term of the amount of carbon dioxide that would need to be emitted to achieve a similar impact.

#### Decarbonization

Reducing carbon by shifting from energy derived from hydrocarbons such as oil, coal, and natural gas, to sources of energy that do not generate greenhouse gas emissions.

#### **Embodied Carbon**

The greenhouse gases emitted during the construction of a building, including extraction of raw materials, manufacture, transport and refinement of materials, and fuels used during the construction phase of the building or structure.

#### **Greenhouse Gas (GHG)**

A gas that absorbs and emits radiant energy within the thermal infrared range, causing the greenhouse effect. GHGs include carbon dioxide; methane; nitrous oxide; hydrofluorocarbons, and others.

### Greenhouse Gas Protocol (GHG Protocol)

The GHG Protocol supplies the world's most widely used greenhouse gas accounting standards. The standards' developments are facilitated by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD).

#### **Heat Pump**

A device that pulls energy out of air or water for the purpose of either heating or cooling a space. They work from an input of electricity and are highly energy efficient.v

#### **Net Zero Emissions**

Achieved when anthropogenic emissions of greenhouse gases to the atmosphere are equal to anthropogenic removals over a specified period. Importantly, net zero emissions refers to all GHGs (not just carbon).

### **Net Zero Emissions Retrofit**

Reducing GHGs from operations to as close to zero as possible. Remaining emissions will be balanced out on an organizational or building level through renewable energy generation or carbon removal.

#### **Operational Carbon**

The greenhouse gases emitted during the operational phase of a building, typically from its energy consumption.

#### Science Based Targets

Emissions-reduction targets that are in line with what the latest climate science deems necessary to limit global warming to 1.5°C.

#### **Scope 1 Emissions**

Direct emissions from sources controlled or owned by an organization.

#### **Scope 2 Emissions**

Indirect emissions associated with the purchase of electricity and district energy for site consumption.

#### **Scope 3 Emissions**

Emissions resulting from activities and sources not owned or controlled by the reporting organization but existing within its value chain.

#### Zero Emissions Building

A building that produces zero emissions in its operation, deriving all energy needs from 100% clean and renewable sources.



#### **About Affine**

Affine Climate Solutions is a non-profit climate consultancy that specializes in building decarbonization. We also develop and implement financially prudent net-zero action plans. Affine's expertise spans zero emissions new construction, retrofits, low embodied carbon, and climate resilience. We work with both borrowers and lenders to create low carbon construction and deep emission retrofit projects paired with transition finance solutions. By combining turnkey retrofit project services with financing and robust project management, Affine is optimally positioned to help clients plan and implement net zero buildings.

#### Why choose to work with Affine?

Affine's non-profit status enables us to operate a multi-tiered fee structure. While corporate clients obtain first class consultancy services at competitive market rates, our mission is to serve organizations with limited resources at a discounted rate. As a non-profit, Affine can obtain public funding to support clients' decarbonization work. Grants are also used to perform frontier research that yields cutting-edge advice.

#### Interested in learning more?

Email us at <u>hello@affineclimate.ca</u> to get started.

## Affine brings clarity to your decarbonization goals.



### **Brightside Community Homes Foundation**

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## Brightside

# Affinate Solutions

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