

B2E Project Fund

# SUMMARY OF PROJECTS

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**B2E**

Building to  
Electrification  
Coalition

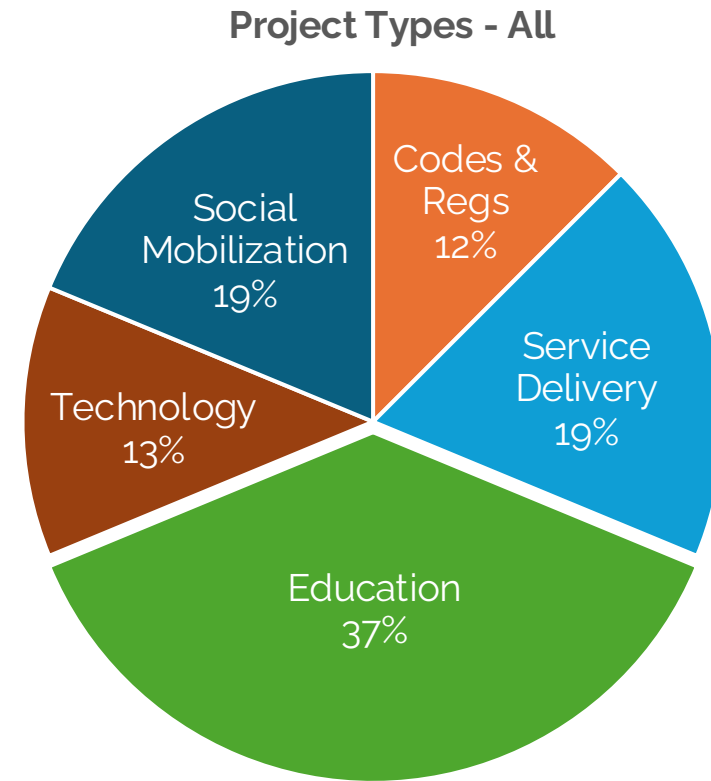
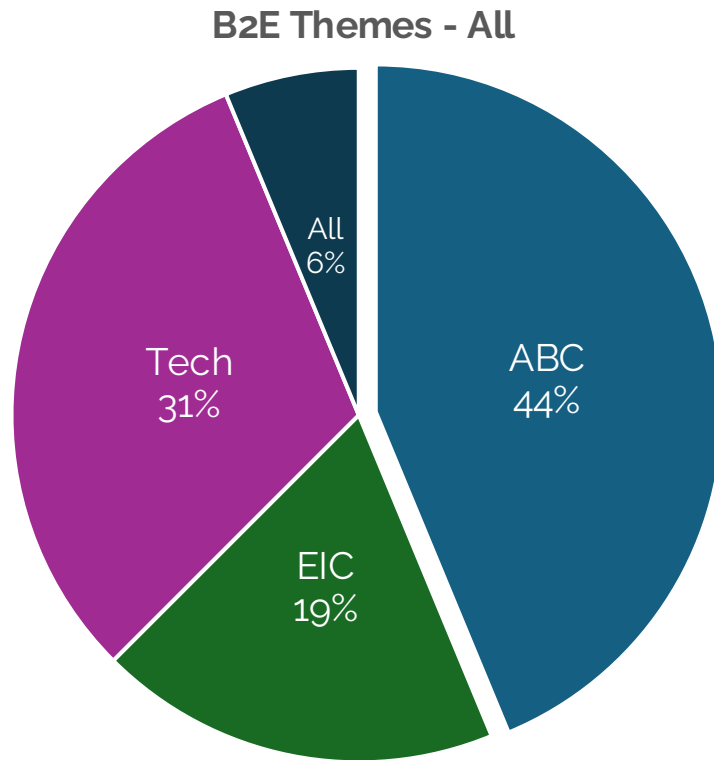
To date, the B2E fund generated close to **\$1M in project value** across 16 projects.

Projects on average receives \$19,000 of investment with an **average leverage of 2:1**

Projects on average collaborates with 2 additional Project Partners

Total Project Value	B2E Invested	Co-Funding	No of Projects
<b>\$962,325</b>	<b>\$303,325</b>	<b>\$659,000</b>	<b>16</b>
Leverage Average (#:1)	Invested Avg	Co-Fund Avg	Avg No of Partners
<b>2</b>	<b>\$18,958</b>	<b>\$41,188</b>	<b>2.1 Partners</b>


# Breakdown of subcommittee theme alignment and project types for all projects



Funding Year	Project Title	Organization	B2E Value	Identified Co-Funding	Leverage	B2E Theme	Project Type Primary
24	Advancing decarbonization and safe indoor temperatures in rental buildings	Ecotrust Canada	\$20,000	\$120,000	6	ABC	Codes & Regs
24	HVAC Design Packages for BC Standardized Housing	Thermal Environmental Comfort Association (TECA)	\$15,000	\$15,000	1	EIC	Service Delivery
24	Demystifying Electrical Capacity and Service Sizing: Training and Pilot	Canadian Association of Consulting Energy Advisors (CACEA)	\$30,000	\$30,000	1	ABC	Education
24	Accelerating Cost Effective Electrification - Window Saddle Heat Pumps	FRESCo	\$30,000	\$109,000	3 5/8	Tech	Technology
24	Worker Owned HVAC Business Model	Birch Consulting	\$25,000	\$50,000	2	EIC	Social Mobilization
24	Retrofit! Community Festival	City Green	\$14,500	\$30,500	2 1/9	ABC	Education
23	Induction Eats	ZEIC	\$20,000	\$66,000	3 2/7	ABC	Social Mobilization
23	Part 3 Electric Building Database with Case Studies	Open Technologies	\$18,150	\$15,000	5/6	ABC	Education
23	Grant to Attend BDA Forum	ZEIC	\$15,000	\$0	0	All	Education
23	State of Electrification Presentation	Bright Future Studio	\$7,450	\$14,500	2	ABC	Education
22	MURB Electrification Ready Plan Framework	FRESCo	\$20,000	\$7,000	1/3	Tech	Codes & Regs
22	MURB In-Suite Electrification Without Panel Upgrades	FRESCo	\$20,000	\$15,000	3/4	Tech	Service Delivery
22	Commercial Building Electrification Guide	SES Consulting + First Light Energy	\$20,000	\$80,000	4	Tech	Service Delivery
22	Heat Pump Installer Training Pathways	City Green	\$8,225	\$0	0	EIC	Education
22	Climate-Friendly Homes Tour	Community Energy Association	\$20,000	\$55,000	2 3/4	ABC	Social Mobilization
22	Domestic Hot Water Pilot	City of Vancouver	\$20,000	\$52,000	2 3/5	Tech	Technology

# 2024 Projects

Project Title	<b>Advancing decarbonization and safe indoor temperatures in rental buildings</b>	Funding Year	<b>2024</b>
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Project Lead	<a href="#">Ecotrust Canada</a>		Project Partners	REFBC, Vancouver Foundation
B2E Grant Amount	\$20,000	Identified Co-Funding	\$120,000	Leverage Ratio 6:1
B2E Priority Area	ABC	Project Length	11 months	Project Type Codes & Regs

Description	Building on existing research on policy pathways to addressing tenants’ energy rights, this project will be to assist municipal and provincial governments to implement policies that are specifically targeted toward preserving a safe indoor environment for occupants of rental buildings, while encouraging electrification of space heating and cooling as a cost-effective compliance pathway.
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Project Title	<b>Worker Owned HVAC Business Model</b>			Funding Year	<b>2024</b>
Project Lead	Birch Energy and Climate Consulting		Project Partners	Kambo, Realize Solutions, HPSC, BC Hydro	
B2E Grant Amount	\$25,000	Identified Co-Funding	\$50,000	Leverage Ratio	2:1
B2E Priority Area	EIC	Project Length	10 Months	Project Type	Service Delivery
Description	<p>This project will assess the potential for a worker-owned HVAC business model to address a multitude of reasons that prevent diverse workforces to enter or switch into the HVAC sector. From a worker attraction perspective, a worker-owned model could increase workplace equity and inclusiveness, reduce barriers (such as entry for training and starting a business), and provide a clear career pathway to a well-paying job. The project will also assess the potential for the model to reduce installation costs. If successful, the expanded workforce and reduced costs for consumers will drive an increase in heat pumps installations in BC.</p>				

Project Title	<b>Accelerating Cost-Effective Electrification – Window Mounted HPs</b>	Funding Year	<b>2024</b>
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Project Lead	<a href="#">FRESCO</a>		Project Partners	LandlordBC, BC Hydro, Midea
B2E Grant Amount	\$30,000	Identified Co-Funding	\$109,000	Leverage Ratio 4:1
B2E Priority Area	Tech	Project Length	12 Months	Project Type Technology

Description	This project aims to test the viability and create a roadmap to enable the rapid acceleration of window-saddle heat pumps in BC buildings (and homes).
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Project Title	<b>Demystifying Electrical Capacity and Servicing Sizing: Training and Pilot</b>			Funding Year	<b>2024</b>
Project Lead	<a href="#">CACEA</a> 	Project Partners		BCIT, Riverside Energy Systems, Volta Research, CanmetENERGY	
B2E Grant Amount	\$30,000	Identified Co-Funding	\$30,000	Leverage Ratio	1:1
B2E Priority Area	EIC	Project Length	12 Months	Project Type	Education, Social Mobilization

**Description**      This project aims to reduce the perceived challenges to electrification and build capacity. (Capacity = less demand on the grid, more informed service providers, and increased building electrification). It will break down silos between Energy Advisors (EAs), contractors, builders, and homeowners to address electrical needs early in project planning for electrification and reduce unnecessary upgrades or inefficient equipment installations.

Project Title	HVAC Design Packages for BC Standardized Housing			Funding Year	2024
Project Lead	TECA		Project Partners	BC Hydro	
B2E Grant Amount	\$15,000	Identified Co-Funding	\$15,000	Leverage Ratio	1:1
B2E Priority Area	EIC, ABC	Project Length	10 Months	Project Type	Technology, Education

Description

The project aims to provide detailed HVAC design packages for BC’s standardized housing catalogue. By offering pre-designed, efficient HVAC calculations and detailed plans, this project will reduce construction costs, improve energy efficiency, and help scale building electrification across the province. It aligns with B2E priorities by reducing barriers to electrification through the provision of standardized, cost-effective designs that builders can easily adopt.

Project Title	<b>Retrofit! Community Festival</b>			Funding Year	<b>2024</b>
Project Lead	<a href="#">City Green</a>		Project Partners	NRCan + Capital Regional District	
B2E Grant Amount	\$14,500	Identified Co-Funding	\$ 30,500	Leverage Ratio	2:1
B2E Priority Area	ABC	Project Length	8 Months	Project Type	Education, Social Mobilization

Description

The Energy Efficiency Conference Pilot (later named the Retrofit! Community Festival) is an initiative aimed at connecting experts, educators, and homeowners in-person to provide real-world, relatable information regarding home energy efficiency upgrades without the pressure of a sales environment.

The project includes the development and pilot of a homeowner-focused education event. This community-focused, grassroots-inspired initiative is designed to increase awareness, deepen understanding, and assess real world perceptions of home upgrades.

# 2023 Projects

Project Title	<b>Induction Eats</b>			Funding Year	<b>2023</b>
Project Lead	ZEIC		Project Partners	BC Hydro, City of Vancouver, City of Victoria, Midland Appliance	
B2E Grant Amount	\$ 20,000	Identified Co-Funding	\$ 66,000	Leverage Ratio	3:1
B2E Priority Area	ABC	Project Length	10 months	Project Type	Social Mobilization

**Description** This project involved the development of a multi-tactic campaign that exposed homeowners, renters, builders, and designers to induction cooking using local chefs as campaign champions and spokespeople. Tactics employed included the development of a digital cookbook, a social media campaign, a giveaway contest, an in-store discount on induction products, and a live cooking demonstration event.

**Project Resource** <https://b2electrification.org/induction-eats>



Project Title

Part 3 Electric Building Database  
with Case Studies

Funding Year

2023

Project Lead

[Open Technologies](#)



Project Partners

ZEIC

B2E Grant  
Amount

\$ 18,150

Identified Co-  
Funding

\$ 15,000

Leverage Ratio

1:1

B2E Priority  
Area

ABC

Project Length

10 Months

Project Type

Service Delivery

Description

The project used the Building Benchmark BC platform as a central repository for decarbonization/electrification case studies for Part 3 buildings across BC. These case studies are short and easy to add to the site, reduce friction, and can link to fuller case studies on external sites. Ten case studies were added to the site, many of which are also disclosing energy and emissions data.


Project  
Resource

<https://grid.opentech.eco/orgs/buildingbenchmarkbc/viz>



Project Title	<b>Members Grant to Attend BDA Forum</b>			Funding Year	<b>2023</b>
Project Lead	ZEIC		Project Partners		
B2E Grant Amount	\$ 15,000	Identified Co-Funding	\$ 0	Leverage Ratio	0
B2E Priority Area	ABC, EIC, and Tech	Project Length	4 Months	Project Type	Education

**Description**      The first National Building Decarbonization was hosted in the fall of 2023 in Ottawa. To support B2E members in their ability to attend the conference, grants were offered to applicants who demonstrated a funding need to attend. This grant supported four B2E members to attend and participate in activities at the Forum, as well as share learnings with the B2E network in a webinar.

Project Title	<b>State of Electrification Presentation</b>			Funding Year	<b>2023</b>
Project Lead	<a href="#">Bright Future Studio</a> 	Project Partners		BC Hydro + City of Victoria	
B2E Grant Amount	\$ 7,450	Identified Co-Funding	\$ 14,500	Leverage Ratio	2:1
B2E Priority Area	ABC	Project Length	3 Months	Project Type	Education

Description

This project delivered a slide presentation with speaking notes for B2E network members to utilize in their own communications and events. The presentation content included available solutions and regulatory signals to support contractors, owners, and building managers in their building decarbonization journeys, while answering their largest questions about electrification.



# 2022 Projects

Project Title

# MURB Electrification Ready Plan Framework

Funding Year

2022

Project Lead

[FRESCO](#)



Project Partners

BC Hydro

B2E Grant Amount

\$ 20,000

Identified Co-Funding

\$ 7,000

Leverage Ratio

1:3

B2E Priority Area

Tech

Project Length

3 Months

Project Type

Codes & Regs

Description

This project identified options, opportunities and benefits of integrating and/or aligning Electric Vehicle Supply Equipment (EVSE), energy efficiency, load management, and building electrification programs and incentives. The recommended five phase process from planning to implementation could be followed by program providers to ensure MURB electrification projects are supported through implementation. A series of recommendations for policy makers was provided through the report.

Project Resource

<https://b2electrification.org/murb-electrification-ready-planning>



Project Title

## MURB In-Suite Electrification Without Panel Upgrades

Funding Year

2022

Project Lead

[FRESCO](#)



Project Partners

BC Hydro

B2E Grant  
Amount

\$ 20,000

Identified Co-  
Funding

\$ 15,000

Leverage Ratio

1:1

B2E Priority  
Area

Tech

Project Length

5 Months

Project Type

Service Delivery

Description

This research project investigated regulatory barriers and technology constraints and opportunities to enable the adoption of electrification without requiring costly electrical upgrades. The project included load management strategies, building level assessments, and code requirements for energy management systems.

Project  
Resource

<https://b2electrification.org/murb-suite-electrification-panel-management-and-load-diet>



Project Title

# Commercial Building Electrification Guide

Funding Year

2022

Project Lead

[SES Consulting](#)  
[First Light Energy](#)



Project Partners

BC Hydro, City of Vancouver, and Metro Vancouver

B2E Grant Amount

\$ 20,000

Identified Co-Funding

\$ 80,000

Leverage Ratio

4:1

B2E Priority Area

Tech

Project Length

24 Months

Project Type

Service Delivery, Education

Description

This project supports the knowledge and competence of the engineering consultant community to undertake electrification retrofits. The best practice guide creates clarity around the process of electrification retrofits to facilitate the scale and speed of market transformation required to address the climate emergency and transition to a low carbon economy. The guide has received positive attention from national organizations with interest to improve future iterations while expanding audiences.

Project Resource

<https://b2electrification.org/b2e-commercial-building-electrification-guide>



Project Title

# Heat Pump Installer Training Pathways

Funding Year

2022

Project Lead

[City Green](#)



Project Partners

B2E Grant Amount

\$ 8,225

Identified Co-Funding

\$ 0

Leverage Ratio

0

B2E Priority Area

EIC

Project Length

4 Months

Project Type

Education


Description

This research and design project reviewed residential heat pump training opportunities to support installers in increasing their knowledge and practical skills. The project provided pathways for new entrants to the field, and mid-career gas technicians to become quality heat pump installers. An infographic targeted to the contractor community was developed and shared at industry events, such as the Home Performance Contractor Forum.

Project Resource

<https://b2electrification.org/residential-heat-pump-installer-training>



Project Title	<b>Climate-Friendly Homes Tour</b>			Funding Year	<b>2022</b>
Project Lead	<a href="#">Community Energy Association</a>		Project Partners	BC Hydro, Vancity, City of Vancouver	
B2E Grant Amount	\$ 20,000	Identified Co-Funding	\$ 55,000	Leverage Ratio	3:1
B2E Priority Area	ABC	Project Length	10 Months	Project Type	Social Mobilization

**Description**

A province-wide residential home tour, featuring heat pumps and other electrification measures, was developed and launched in 2023. The project involved developing the concept, promotional materials, organization committee guidance, and a website that included a live map, interested community members were able to sign up for the tour and visit homes that were built with or undertook retrofit projects. Forty-six homes in ten communities participated in the first year, and the initiative is planning a second event in 2025.

**Project Resource**

<https://climatefriendlyhometour.ca/about/>

Project Title **Domestic Hot Water Pilot**

Funding Year

**2022**

Project Lead

[City of Vancouver](#)



Project Partners

BC Hydro + ZEIC

B2E Grant Amount

\$ 20,000

Identified Co-Funding

\$ 52,000

Leverage Ratio

2.5:1

B2E Priority Area

Tech

Project Length

12 Months

Project Type

Technology

Description

This pilot utilized the NearZero program to understand the homeowner and contractor processes involved in replacing a gas-fired water heater with an electric model. Participants received financial support for providing information about the steps they took to undertake the project, challenges they faced, and their interactions with contractors. A total of ten projects were completed, and data was gathered from additional projects that did not complete in the project timeframe. Policy and program recommendations were delivered to project partners.

Project Resource

<https://nearzero.ca/home/stream-3/>

