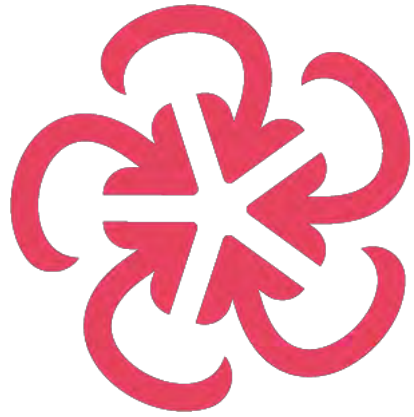


Presented by
Mike Mellross, P.Ag.
Program Director
Climate Innovation Fund
Alberta Ecotrust



climate innovation fund

ALBERTA ENERGY EFFICIENCY
ALLIANCE VIRTUAL SUMMIT
May 19, 2021



ALBERTA
ecotrust



ACCELERATING CLIMATE SOLUTIONS IN CALGARY & EDMONTON



THANK YOU TO THE

Government
of Canada

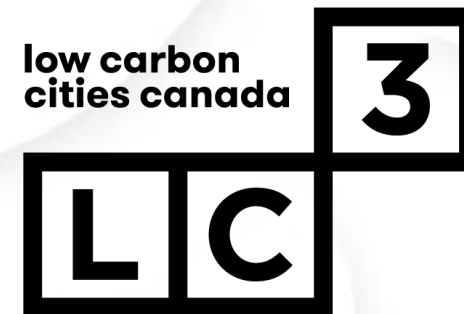
Gouvernement
du Canada

Canada 

**For our \$43.4 Million
Endowment**

PARTNERSHIPS

Working collaboratively across Canada to reduce urban emissions



WHAT IS LOW CARBON CITIES CANADA?

Creating a Pan-Canadian network of seven LC3 centres serving over 100 cities:

- ▶ **Vancouver**
 - In development with City of Vancouver
- ▶ **Edmonton & Calgary**
 - Alberta EcoTrust Foundation
- ▶ **Greater Toronto & Hamilton Area**
 - The Atmospheric Fund
- ▶ **Ottawa**
 - Ottawa Community Foundation
- ▶ **Montreal Metropolitan Community**
 - The Trottier Family Foundation
- ▶ **Halifax region**
 - EfficiencyOne





CITIES ARE KEY TO REACHING OUR CLIMATE TARGETS

- Activities in Calgary and Edmonton together produce 25% of the greenhouse gas emissions in Alberta.
- Canada cannot reach its Pan-Canadian Framework goals without accelerating climate action in cities.

FOCUS AREAS (FOLLOW THE CARBON)

Building
Better &
Retrofitting
Wiser

Moving on
Mobility

Decarbonization
&
Renewable
Energy

APPROACH

Strategic Projects & Programming



Educate, Train, Build
Capacity, and Policy
Development

Grants



Covers a diverse range of
activities, from technology
demonstration to collective
impact and policy
advancement

Direct Investment



Financing, Credit
Enhancement, and
Impact Investing



Strategic Projects & Programming

1

Significant
GHG
reduction
potential
at scale?

2

Designed
to
achieve
scale-up
potential?

3

Designed
to
generate
valuable
community
benefits?

4

Who
receives
these
benefits,
and who
bears the
costs, and
is this
equitable?

DOES ALBERTA ECOTRUST
ADD VALUE TO THIS
PROJECT?
DO WE HAVE A DIRECT ROLE
TO PLAY?



Photo credit: CleanO2™

PARTNER WITH US

Alberta Ecotrust and CleanO2™ are looking for partners to help study the savings from a new technology that captures carbon emissions directly from a building's heating system.

The technology is called CARBiN-X™ and it is installed as an accessory to natural gas fired boilers. The CARBiN-X™ removes carbon dioxide (CO2) from the exhaust and converts it into pearl ash, a stable compound that accumulates in the unit. CleanO2™ collects and uses this pearl ash to make soap. The CARBiN-X™ unit also captures and reuses heat to reduce the amount of natural gas needed to heat water for the building.

For no upfront cost, your organization can:

- be part of an innovative project;
- help the environment; and
- save money on your utility bills.

In turn, Alberta Ecotrust and CleanO2™ will be able to study the energy savings and operations of the technology. It's a win-win!

LEARN MORE

If you are interested in finding out more, please contact our team at the Alberta Ecotrust Climate Innovation Fund at cif@albertaecotrust.com.



Grants

**\$10,000 to \$50,000
(upwards of \$100,000)
\$1 Million total funding in 2021**

ELIGIBLE RECIPIENTS

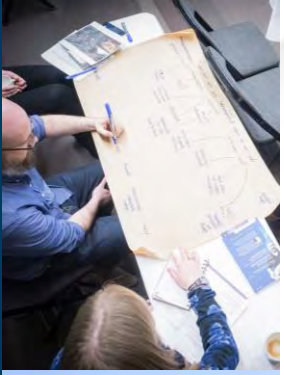
- Charities*
- Nonprofits*
- City of Calgary & Edmonton*

*May partner with private organizations as long as they are the lead applicant

ELIGIBLE PROJECTS

- Deemed GHG reductions
- Min 20% Funding from other sources
- Calgary and Edmonton based
- City of Calgary & Edmonton*
- Articulates Scale-up
- Targeting co-benefits and social equity
- Aligned with focus areas, sub-priorities and city climate plans

March 25	May 4	May 17	June 16	July	August	September	October/ November
Grant Program Announced	Building Better & Retrofitting Wiser Info Session	Moving on Mobility Info Session	Decarbonization & Renewable energy Info Session	Expression of interest Submission	Screen EOI	Invited for Full Application	Award Funding



OVERARCHING

- Low carbon financing
- Measurement, Verification and Offsetting



BUILDING BETTER & RETROFITTING WISER

- Opportunity Identification and/or aggregation
- Whole building retrofitting



MOVING ON MOBILITY

- Shared mobility, micro mobility & active transportation
- EMS to support electrification
- Urban Freight



DECARBONIZE & RENEWABLE ENERGY

- Community & small scale renewables and storage solutions
- Building level fuel switching and shared systems



Direct Investment

Up to \$1 Million financing per project in 2022/2023

LOW CARBON FINANCING PRODUCTS UNDER EVALUATION

- Debt Financing
 - Risk adjusted return
 - Concessional possible
- Equity
- Credit Enhancement

FUND	PROJECTED CAPITAL AVAILABLE FOR DIRECT INVESTMENT PROJECTIONS (thousands)			
	2022/2023	2023/2024	2024/2025	2025/2026
CALGARY	2000	4000	6000	8000
EDMONTON	2000	4000	6000	8000
TOTAL	4000	8000	12000	16000

MODEL INVESTMENT CRITERIA (TAF)

Primary investment criteria



Big carbon reduction
We target 500,000 tonnes of reduction over 20 years within the total addressable market.



Cleantech
Our focus is on energy efficiency, zero-emissions vehicles, and renewable energy and storage.



Potential local benefit
Companies can be located anywhere, but must benefit or have relevance



Proven technologies
Field tested and third-party verified technologies.



Risk-adjusted return
We are a market-rate funder and investor.



Scalable business opportunities
We're excited by catalytic investments.

FOR MORE INFORMATION:

www.albertaecotrusted.com/climate-innovation-fund

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