

LEADING CLIMATE ACTION WITH ALBERTA MUNICIPALITIES 2023



Municipal
Climate Change
Action Centre

The Municipal Climate Change Action Centre provides funding, technical expertise, and education to municipalities, and community organizations. Together, we are lowering energy costs, reducing greenhouse gas emissions, and improving climate resilience.

A partnership of:



\$21.3 MILLION OF INVESTMENTS GENERATED IN 2023 *PLUS*

Energy Jobs

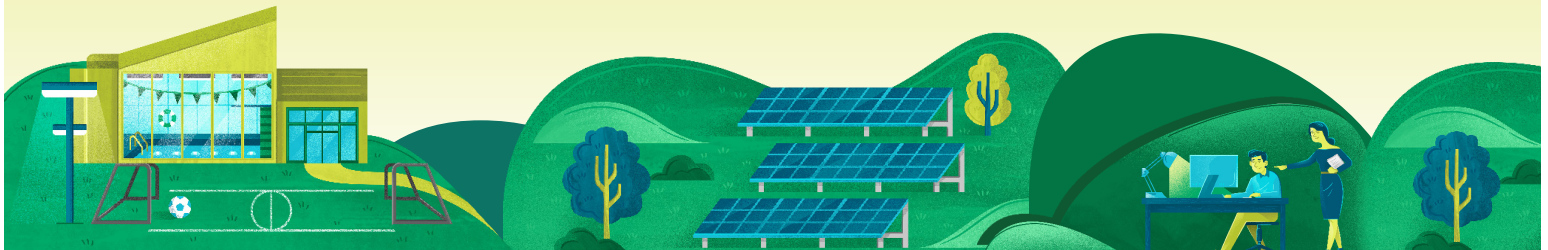
217 jobs created

Energy Managers

12 active serving 21 communities

Energy Savings

\$778,411 saved
Estimated annual



4,504 TONNES OF CO₂e AVOIDED IN 2023 *PLUS*

Electric Vehicles

Cars, ice resurfacers, utility carts, & charging infrastructure

\$5.2 million invested

Solar Power

Schools and municipal facilities

4.3 MW installed

Energy Efficiency

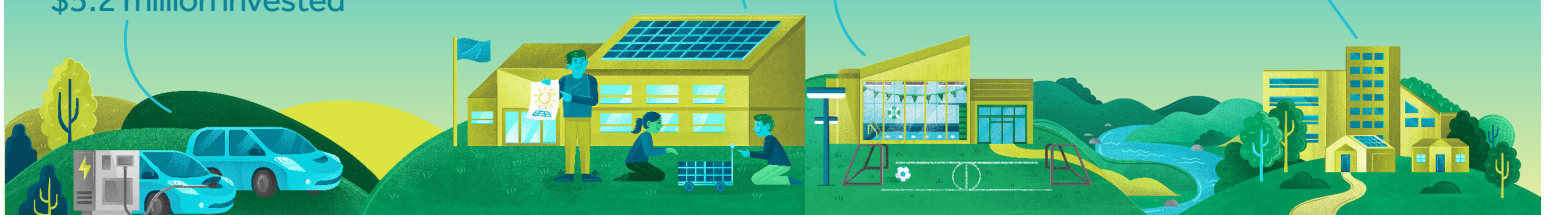
Recreational facilities

\$4.2 million invested

Climate Resiliency

Risk assessment & adaptation planning

24 projects completed



SELECT HIGHLIGHTS FROM 2023

Notable Projects Completed

Lois E. Hole Elementary School 227 kW

Roughly 500 rooftop solar panels & student education.

Leduc Electric Vehicle Chargers 4 stations

Four charging stations installed at Leduc Recreation Centre.

Brooks Boiler Upgrade 1,500 MMBH

97% efficient boiler upgrade at Centennial Regional Arena.

Lethbridge Electric Vehicles 4 EVs

Ford E-Transit, Chevrolet Bolt, Polaris Ranger, & ice resurfacer.

Capacity Building

Climate Resilience Capacity Building

Education & networking support Alberta munis & Indigenous communities with climate adaptation.

NetZero Communities Accelerator

Communities in the Prairies Cohort are advancing community emissions reduction plans.

Alberta Climate Leaders

Alberta Municipal Climate Leadership Council members are learning to advance local climate action.

Advancing Capabilities

Case Studies

The City of Calgary's ReCAP report gives planners the knowledge needed to implement proven, evidence-based climate adaptation solutions.

Research

Completed original research on the potential for Alberta communities, large & small, urban & rural, to participate in the province's renewable energy boom as producers & consumers.

Featured Projects • Just some of the 100+ climate action projects completed in 2023

GRID-CONNECTED SOLAR ELECTRICITY

The Action Centre provided financial rebates to municipalities in Alberta that install grid-connected solar photovoltaic (PV) systems on municipal facilities and schools. The Alberta Municipal Solar Program and Solar for Schools Program added **4.3 MW of solar capacity** to the grid, reducing annual GHG emissions by **2,328 tonnes**.

Myrnam Career Training Education Centre & New Myrnam School

17.5 kW • \$2,020 savings/year

"In the educational community there is a slogan that it takes a village to educate a child. The Alberta Municipal Solar Program contribution made this project happen, forever changing our community."

- Robert Tymofichuk, Teacher at New Myrnam School

"The panels will significantly reduce the village's power bill and will be a major driver in keeping the village viable and sustainable."

- Mayor Donna Rudolf, Village of Myrnam



SOLAR FOR SCHOOLS

The Action Centre supported installing solar PV systems on schools, generating clean power and providing a living lab for students to learn about renewable energy.

William D. Cuts School & St. Alberta Public School District
85 kW solar

Red Deer Catholic School Board St. Lorenzo Ruiz Middle School
352 kW solar

"Overall, a solar project in an elementary school can provide valuable educational opportunities for students, helping them develop skills and knowledge related to renewable energy, critical thinking, and environmental awareness, all of which are embedded in the curriculum. This is a great way for students to have a hands-on learning experience at an early age."

- Kevin Jones, Principal

RECREATION FACILITIES ENERGY EFFICIENCY

The Action Centre provided municipalities and community-related organizations up to \$750,000 for energy saving upgrades in arenas, aquatic centres, athletic parks, and other recreation facilities. Projects supported by the Recreation Energy Conservation Program unlocked over **\$370,000 in annual savings** by funding lighting retrofits, REALice installations, HVAC efficiency improvements, and more.

Medicine Hat Family Leisure Centre

Electricity and heat co-generation is more efficient.

\$117,000 annual savings • 704 t GHG saved annually

Strathcona County Millennium Place

LED lighting retrofit replaced more than 1,500 lights.

\$70,000 annual savings • 394 t GHG saved annually

Foothills County Scott Seaman Sports Rink

Ice Plant heat Recovery

\$25,000 annual savings • 179 t GHG saved annually

Drumheller Memorial Arena

De-aerator reduces energy demand for ice maintenance.

\$2,600 annual savings • 22 t GHG saved annually

Town of Barrhead Arena

Replaced aging ice plant with an efficient new one.

\$23,000 annual savings • 126 t GHG saved annually



"The new equipment not only eliminates repair costs in the foreseeable future but also equates to lower energy consumption costs and reduces our facility's carbon footprint."

- Barrhead Mayor David McKenzie



Visit mccac.ca to read the showcase of projects the Municipal Climate Change Action Centre has administered. Access our latest programs and resources to start **your** program.

MUNICIPAL CLIMATE CHANGE ACTION CENTRE

2009-2023

944

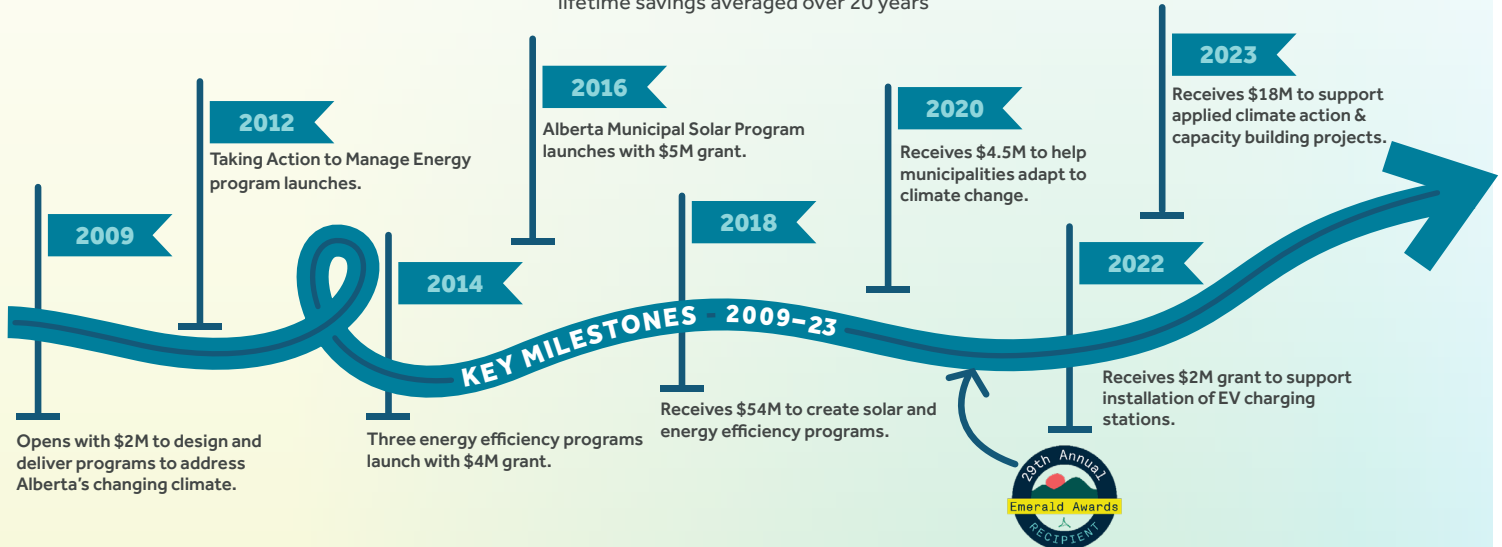
Projects Completed

\$171.5 million

Energy Savings
lifetime savings averaged over 20 years

192

Municipalities Reached



INVESTMENTS

\$48.7 million
in funds awarded

\$107 million
generated investment

JOBS CREATED

600
energy efficiency jobs

445
solar energy jobs

ELECTRIC VEHICLES

\$7.7 million
value of electric vehicles & charging infrastructure

SOLAR AND RETROFITS

30 MW
solar electricity
generating capacity

37,700 tonnes
greenhouse gas emissions
avoided every year

75,605
solar modules
installed

23,000
light fixtures
replaced

OUR GRATITUDE

Special thanks to our collaborators:

- Community Energy Association
- ECO Canada
- Federation of Canadian Municipalities
- QUEST Canada
- SouthGrow

Opportunities & Resources • Current for Spring 2024



AB MUNICIPAL CLIMATE LEADERSHIP COUNCIL

Elected officials are invited to join the Alberta Municipal Climate Leadership Council, a network of peers who share an interest and commitment to climate action at the local level. The current cohort started in September 2022.



CLIMATE RESILIENCE CAPACITY BUILDING

Better understand and respond to the impacts of climate change.

- The Community of Practice is a network of community practitioners working on climate adaptation.
- Access peer-to-peer and community-to-community learning on local climate adaptation practices and opportunities.



PROGRAM PARTNERS

MCCAC programs are funded in part by:

- Government of Alberta
- Natural Resources Canada



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Subscribe to our email newsletter.

“The Current Climate” shares stories about Albertans making real change in their communities. Plus, be among the first to know about new initiatives!

mccac.ca/newsletter



ALBERTA CLIMATE FUNDING GUIDE

Search for financial opportunities.

Browse close to 100 grants and financing opportunities open to municipalities in Alberta. Filter by different strategies and areas.

mccac.ca/funding-guide



MUNICIPAL ENERGY MANAGER PROGRAM

OPENING SPRING 2024!

Municipal Energy Managers find cost and energy savings, educate staff, and reduce emissions. Participating municipalities receive funding to offset an energy manager's salary. Benefit from an energy management plan designed to find energy savings for your community.

mccac.ca/programs



The Municipal Climate Change Action Centre was founded in 2009 as a collaborative initiative of Alberta Municipalities, Rural Municipalities of Alberta, and the Government of Alberta.

