

LEADING CLIMATE ACTION WITH ALBERTA MUNICIPALITIES 2022



Municipal
Climate Change
Action Centre

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

A partnership of:



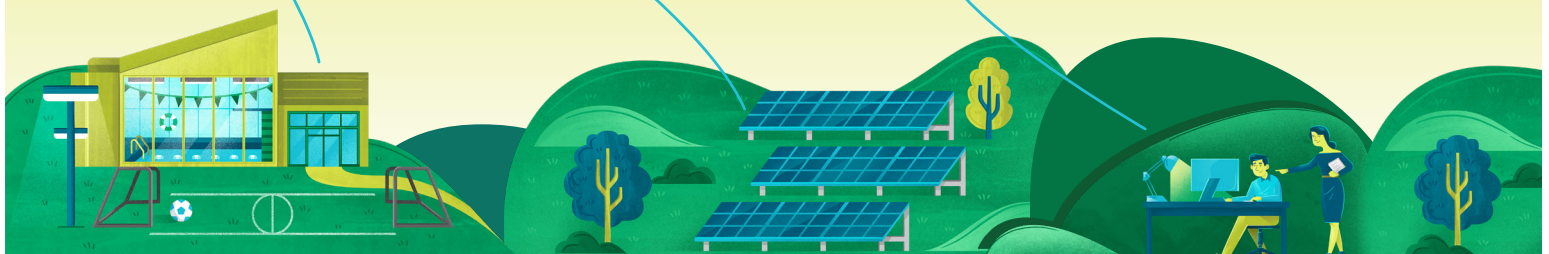
\$11.5 MILLION OF INVESTMENTS CATALYZED IN 2022 *PLUS*

Energy Efficiency
84 jobs created

Solar Energy
117 jobs created

Energy Managers
34 municipalities served

Annual Energy Savings
\$907,000 saved



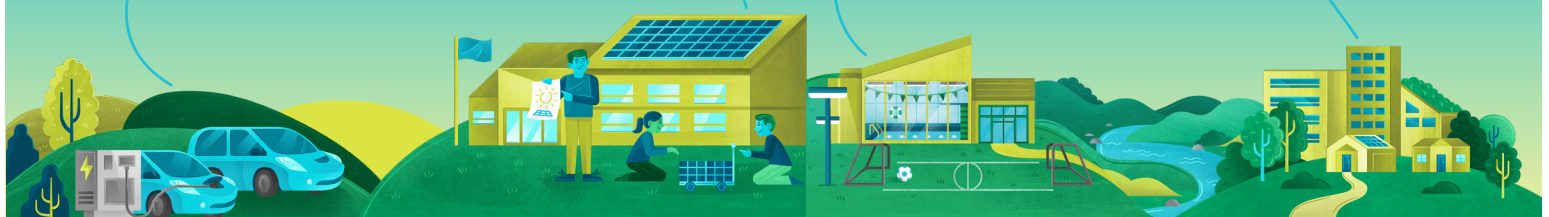
4,267 TONNES OF CO₂e AVOIDED IN 2022 *PLUS*

Electric Vehicles
Cars, ice resurfacers, utility carts, etc
\$1.59 million purchased

Solar Power
Schools and municipal facilities
7.8 MW installed

Energy Efficiency
Recreational facilities
\$4.2 million invested

Climate Resiliency
Risk assessment & adaptation planning
2 plans created



SELECT HIGHLIGHTS FROM 2022

Notable Projects Completed

Drayton Valley Aquatic Centre 304 kW Solar
Brand new facility is targeting net-zero energy use.

Leduc Solar Carport 24 kW Solar
Solar panels directly feed electric vehicle charging stations.

Grande Cache Rec Centre 150 kW CHP
Heat and electricity co-generation saves \$106k/year.

Raymond Golf Course 30 EV Golf Carts
Replaced 20 gas-powered carts at Hell's Creek Golf Course.

Capacity Building

Municipal Energy Champions
A third cohort of six small municipalities received training and support in energy efficiency.

Climate Adaptation Challenge
St. Albert and Sturgeon County received direct support developing climate adaptation plans.

Alberta Climate Leaders
Launched recruitment for the Alberta Municipal Climate Leadership Council, a first program for elected officials.

Advancing Capabilities

Case Studies
A series of one-page case studies share Municipal Energy Managers most successful strategies.

Needs Assessment
Municipalities across Alberta consulted to better understand priorities and opportunities for delivering services.

Featured Projects • Just some of the 100+ climate action projects completed in 2022

GRID-CONNECTED SOLAR ELECTRICITY

The Action Centre provides financial rebates to Alberta municipalities who install grid-connected solar photovoltaic (PV) systems on municipal facilities or land. The Alberta Municipal Solar Program successfully added **1.2 MW of solar capacity** to the grid, reducing annual GHG emissions by **459 tonnes** in 2022.

Okotoks Pason Centennial Arenas

459 kW • \$49,100 savings/year

"Projects like this are vital to implementing the Town's Climate Action Plan and achieving our goal of carbon neutrality by 2050." —Mayor Tanya Thorn

Drayton Valley Ricochet Oil Corp. Aquatic Centre

304 kW • \$25,800 savings/year

Coalhurst Sewage Lift Station

64 kW • \$9,400 savings/year

Edmonton Leefield, Strathcona and Spruce Ave. Community Leagues

104 kW • \$15,800 savings/year

Calmar Mike Karbonik Arena

186 kW • \$16,200 savings/year



SOLAR FOR SCHOOLS

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

Black Gold School Division West Haven Public School

251.5 kW

Calgary Board of Education Central Memorial High School 300 kW

"Real-time data about the solar panels presents fantastic, unique learning opportunities for our classes. I can't wait to share this excitement with our students!" —Mike R, Teacher

RECREATION FACILITIES ENERGY EFFICIENCY

The Action Centre provides municipalities and community-related organizations up to \$750,000 for energy saving upgrades in arenas, aquatic centres, athletic parks, and other recreation facilities. In 2022, the Recreation Energy Conservation Program produced **\$480,000 in annual savings** by funding lighting retrofits, REALice installations, HVAC efficiency improvements, and more.

Taber Aquafun Centre

Electricity and heat co-generation is more efficient.

\$41,000 annual savings • 121 t GHG annual reduction

St. Albert Servus Credit Union Place

LED lighting retrofit replaced 770 lights.

\$44,600 annual savings • 262 t GHG annual reduction

Athabasca Regional Multiplex

LED lighting retrofit replaced 2,700 lights.

\$22,000 annual savings • 102 t GHG annual reduction

High Prairie Sports Palace & Gordon Buchanan Centre

De-aerator reduces energy demand for ice maintenance.

\$13,400 annual savings • 60 t GHG annual reduction

MD of Greenview Grande Cache Recreation Centre

Electricity and heat co-generation is more efficient.

\$106,000 annual savings • 279 t GHG annual reduction



"This new and innovative technology is a win-win situation for Greenview." —Tyler Olsen, Reeve



Visit mccac.ca to read the showcase of all projects the Municipal Climate Change Action Centre has supported. And if you'd like to start your own project, you can also access our latest programs and resources.

MUNICIPAL CLIMATE CHANGE ACTION CENTRE

2009-2023

Current as of: April 1, 2023

857

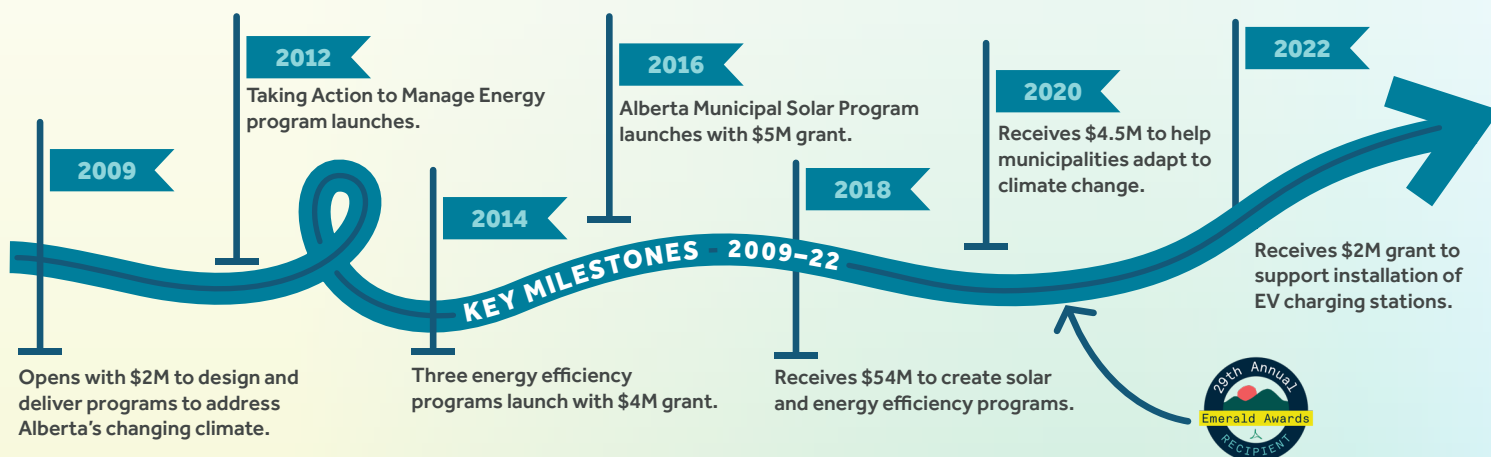
Projects Completed

\$164 million

Energy Savings
lifetime savings averaged over 20 years

180

Municipalities Reached



INVESTMENTS

\$45.5 million
spent in grants & support

\$98 million
catalyzed investment

JOBS CREATED

482
Energy efficiency jobs

445
Solar energy jobs

ELECTRIC VEHICLES

\$3.4 million
Value of electric vehicles purchased

SOLAR AND RETROFITS

30 MW
new solar electricity generating capacity

76,000
solar modules installed

37 kilotonnes
greenhouse gas emissions eliminated every year

19,600
light fixtures replaced

CLIMATE PLANS

19
Municipalities created climate resilience plans



Municipal
Climate Change
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Opportunities & Resources - Current for Spring 2023



AB MUNICIPAL CLIMATE LEADERSHIP COUNCIL

Bringing elected officials together to lead and engage on climate solutions.

- Education and resources for elected officials from across Alberta.
- Peer-to-peer learning and networking.
- In-person events sharing practical strategies and celebrating successes.



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.



TOOL LENDING LIBRARY

Measure it to manage it.

- Free tool lending library for conducting energy audits in municipal facilities.
- Open to any facility manager, mechanical engineer or infrastructure director for an Alberta municipality.



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Subscribe to our email newsletter.

Read and watch stories about Albertans making real change in their communities. Plus, be among the first to know about new programs as soon as we launch.

mccac.ca/newsletter



ALBERTA CLIMATE FUNDING GUIDE

Search for financial opportunities.

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

mccac.ca/funding-guide



MUNICIPAL ENERGY MANAGER CASE STUDIES

Learn about best practices and innovations developed in-province.

Read one page case studies highlighting innovations, technologies and practices that have brought Municipal Energy Managers success in recent years.

mccac.ca/learning-centre

