

MUNICIPAL EFFICIENCY EXCELLENCE

Alberta Energy Efficiency Alliance
Virtual Summit

May 19, 2021



Municipal
Climate Change
Action Centre

A partnership of



About the Action Centre

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



Our Impact

Updated: May 1, 2021



355 participants
completed 673 projects



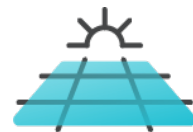
507,099 t of CO₂e
avoided over projects lifetime



573 full time job years
created in energy efficiency and
solar industries



\$85.3M energy savings
over projects lifetime

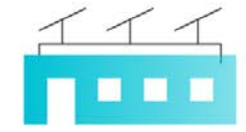


**20.5 MW installed
solar energy capacity**
including 52,559 solar panels



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mccac.ca



ALBERTA MUNICIPAL SOLAR PROGRAM

Funding 30 per cent of equipment and installation costs

- Over 100 projects completed totaling 20 MW
- Est. \$1.47M annual energy savings
- Est. 12,627 tCO₂e/year reduction



Village of Carmangay: Ground Mount Solar

\$145,920

In funding from the Action Centre

- 146 kW system at Carmangay Lift Station
- Most recent of 9 Alberta municipalities electrically net-zero in their operations



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SOLAR FOR SCHOOLS PROGRAM

Funding 50 per cent of equipment and installation costs

- Participation to date from 5 school authorities, more to come this summer
- Innovative student education component included in each project



Canmore Collegiate High School: Rooftop Solar

\$80,976

In funding from the Action Centre

- 97 kW system at Canmore Collegiate High School
- One of 4 systems installed across Canadian Rockies Regional Division No. 12



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MUNICIPAL COMMUNITY GENERATION CHALLENGE

- Delivered in partnership with Alberta Innovates
- Support municipalities with the development of innovative community scale renewable electricity projects and knowledge transfer across the province
- Three-stage application process ran during 2020
- Providing a total of \$6M in funding across two projects to cover a wide range of development activities until their completion in 2023



Town of Smoky Lake: Métis Crossing Solar Project

\$3,900,000

In funding from the Action Centre

- 4.86 MW ground mount system at Métis Crossing
- Will be the most northern grid connected community generation solar project in Alberta



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Municipal District of Taber: RenuWell Project

\$2,100,000

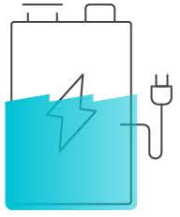
In funding from the Action Centre

- 2 MW solar installed at two abandoned oil and gas sites
- Training 15 oil and gas workers to equip them for jobs in the renewable energy sector



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RECREATION ENERGY CONSERVATION PROGRAM

Funding 75 per cent of equipment and installation costs

- 145 completed and in-progress projects
- Participation from 22% of AB municipalities
- Est. 6,800 tCO₂e/year reduction



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City of Leduc: Leduc Recreation Centre Lighting Retrofit

\$605,000

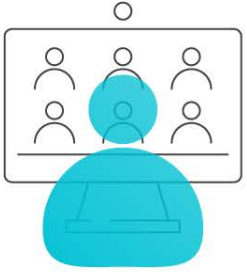
In funding from the Action Centre

- Saves 726,000 kWh and \$80K annually
- Reduction of 413 tCO₂e/year
- 55% GHG reduction from lighting, 8% reduction facility-wide



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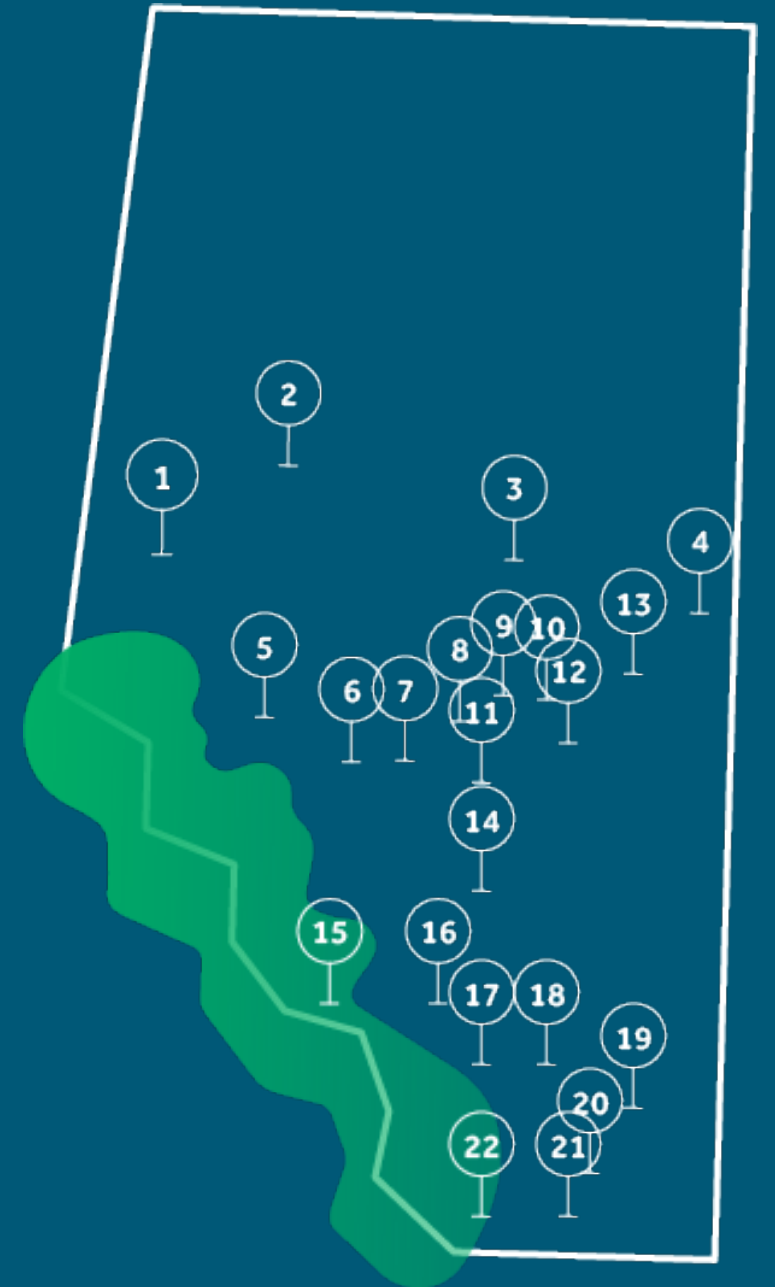


MUNICIPAL ENERGY MANAGER PROGRAM

Funding 80 per cent

of annual salary values to a maximum of \$80,000 per year

- 22 MEMs hired representing 32 municipalities across Alberta
- Average GHG reduction goal of 5.3% against baseline
- 534 in-scope facilities



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Town of Banff: Municipal Energy Coordinator

16% (355 tCO₂e)

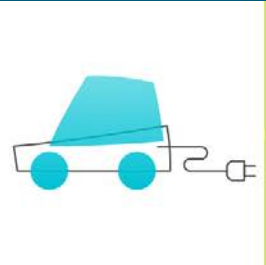
GHG reduction achieved (est.)

- Inventory: 2,217 tCO₂e (2019 as baseline)
- The Town of Banff aimed to reduce their emissions by 10% (220 tCO₂e) but reduced emissions by 16% (355 tCO₂e) against the baseline with Sally's help.



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ELECTRIC VEHICLES FOR MUNICIPALITIES PROGRAM

\$7,000 to \$14,000

per EV, stackable with federal funding for up to \$19,000 per EV

- Up to 30% for heavy-duty and non-road vehicles
- Feasibility studies
- 23 completed and in-progress projects
- EV savings calculator available at mccac.ca



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City of Medicine Hat: Zamboni 450 EV

\$100,000

In funding from the Action Centre

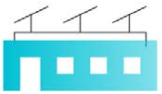
- 80% fuel cost savings, 30% maintenance cost savings
- 66% GHG reduction even when charging via Alberta grid
- Improved indoor air quality



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Programs and Services



**ALBERTA MUNICIPAL
SOLAR PROGRAM**



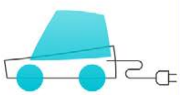
**MUNICIPAL COMMUNITY
GENERATION CHALLENGE**



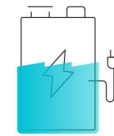
**CLIMATE ADAPTATION
PROGRAM**



**MUNICIPAL ENERGY
MANAGER PROGRAM**



**ELECTRIC VEHICLES FOR
MUNICIPALITIES PROGRAM**



**RECREATION ENERGY
CONSERVATION PROGRAM**



**ELECTRIC VEHICLE
CHARGING PROGRAM**



**SOLAR FOR
SCHOOLS PROGRAM**

THANK YOU



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