

MUNICIPAL CLIMATE ACTION LANDSCAPE



Municipal
Climate Change
Action Centre

The Municipal Climate Action Landscape helps Alberta municipalities locate relevant climate change mitigation and adaptation resources.



FUNDING

MUNICIPAL

Change Homes For Climate

City of Edmonton education, resources, and residential rebates for installing solar PV and energy efficiency upgrades.

City of Edmonton - Environmental Financial Incentives

City of Edmonton financial incentives for building owners, businesses, and communities.

Town of Banff Environmental Rebates

Commercial and residential rebates for energy efficiency and solar PV.

PROVINCIAL & REGIONAL

Adaptation Resilience Training (ART) Program

Work placements for post-secondary students and recent graduates in climate adaptation.

Alberta Ecotrust Foundation

Grants for work on protecting Alberta's natural environment; water, land use, & climate change. Centre for LC3 in Alberta.

Alberta Emerald Foundation

Funding and awards for environmental excellence.

Alberta Innovates

Agency supporting research and business innovation, including commercialization.

Clean Energy Improvement Program

Affordable residential and commercial financing for clean energy upgrades.

Community Conserve

Funding for municipal environmental concerns.

Emissions Reduction Alberta

Funding for innovative technology solutions that reduce GHG emissions and home of the Energy Savings for Business funding program.

Forest Resource Improvement Association of Alberta

Funding opportunities through the Forest Resource Improvement Association of Alberta.

Mobilizing Alberta Climate Action Grants

Grants for University of Calgary-affiliated awareness and climate action in Southern Alberta.

Municipal Climate Change Action Centre

Funding for municipalities to save on energy costs, reduce emissions, and increase resilience.

NATIONAL & GLOBAL

Agricultural Clean Technology Program

Supports the development and adoption of clean technology in agri-food.

Canada Community-Building Fund

Funding for capital costs on public infrastructure

Clean Energy for Rural and Remote Communities Program

Funding for renewable energy, energy efficiency measures, and capacity building in Indigenous, rural, and remote communities across Canada.

Environment and Climate Change Canada

Funding for climate action, green infrastructure, public transit, clean technology.

Federation of Canadian Municipalities

Funding opportunities for Canadian municipalities through the Green Municipal Fund.

Natural Climate Solutions Fund

Supports nature-based climate solutions, including the 2 Billion Trees program.

Natural Resources Canada

Funding for innovation in the clean economy, including the Canada Greener Homes Initiative.

Tree Canada

Grants for carbon offsetting opportunities related to tree planting.

TOOLS

MUNICIPAL

Climate Resilient Home

Helps homeowners understand their home's climate risks and invest in climate resiliency.

Edmonton's Home Energy Map

Interactive map of Edmonton shows EnerGuide ratings of homes.

Solar Potential Map - Calgary

Interactive map of Calgary shows solar potential of buildings.

The Home Energy Toolkit

Edmonton Public Library toolkit enables homeowners to improve energy efficiency and save on energy costs.

PROVINCIAL & REGIONAL

Alberta Climate Information Services

Weather forecasts and climate data for producers, farm consultants, and researchers.

Alberta Climate Records

Historical climate data, indices, and projections of climate change.

Alberta Energy Policy Simulator (Pembina Institute)

Visualize the effect of policies on Alberta's carbon pollution and energy trajectory.

Alberta Narratives Project

How to have bridge-building conversations about climate change and energy.

Alberta Solar Calculator

Evaluate cost implications of developing grid-connected solar PV projects.

Alberta Utilities Commission

Map of proposed, approved and in-service wind and solar facilities.

TOOLS

▲ PROVINCIAL & REGIONAL cont.

Climate Resilience Express

How to prepare a municipal climate action plan.

Design Our Climate Simulation (King's University)

Explore ways to reduce GHG emissions.

Electric Vehicles Savings Calculator

Compare costs and emissions of gasoline-powered passenger vehicles with electric vehicles.

Energy Efficiency Building Codes (Alberta)

Requirements for energy efficiency in buildings and housing.

Carbon Offset Emissions Factors Handbook (Alberta)

List of emissions factors used for GHG reduction quantifications.

MyHeat

Maps of Alberta cities, showing actual heat loss from homes, to encourage energy efficiency.

Solar Friendly Municipalities Toolkit

Learn about installing solar PV on municipal facilities, solar PV investment, and engagement.

🌐 NATIONAL & GLOBAL

BC Climate Action Toolkit

Tools, best practices, and more for BC local governments.

Energy Star

Certification for energy efficiency in products, homes, buildings, and industrial operations.

Energy Star Portfolio Manager (NRCan)

Monitor, rate, and optimize a building's energy use.

Federation of Canadian Municipalities Climate Change Toolkits

Integrate climate considerations in municipal governance and operations.

GoodWork.ca

Job board for environmental professionals, job seekers, and volunteers.

Green Globes

Online green building rating and certification tool for new construction and retrofits.

Greenhouse Gas Equivalencies Calculator

Translate abstract GHG or energy measurements into relatable metrics.

Map of Adaptation Actions

An interactive map of communities and sectors across Canada adapting to climate change

PVWatts Calculator

Online tool to estimate the energy production and cost of grid-tied solar PV.

RETScreen

Software for energy efficiency, renewable energy, and cogeneration project feasibility and performance analysis.

System Advisor Model (SAM)

Free techno-economic modelling for renewable energy projects.

Working with Nature Toolkit (Miistakis Institute)

Catalogue natural infrastructure and develop land use plans for mitigating flood & drought.

To recommend an additional resource, please email contact@mccac.ca or visit mccac.ca/learning-centre.

INDUSTRY ASSOCIATIONS

🏛️ MUNICIPAL

Young Professionals in Energy

Forums for networking and career development in Calgary and Edmonton.

▲ PROVINCIAL & REGIONAL

Alberta Energy Efficiency Alliance

Resources, networking, & events to reduce barriers to energy efficiency adoption.

Alberta Environmental Network

Network for Albertans and organizations protecting Alberta's environment.

Association of Energy Engineers Alberta Chapter

Networking, resources, certifications, technical journals for energy industry professionals.

Electric Vehicle Association of Alberta

Non-profit, citizen-lead group to promote adoption of EVs in Alberta.

Environmental Services Association of Alberta

Networking, member directory, and conferences for the environment industry.

Recycling Council of Alberta

Promoting, facilitating, and advocating for waste reduction and resource conservation.

Smart Sustainable Resilient Infrastructure Association

Funding and support for technological innovation in reducing building GHG emissions.

Solar Alberta

Education, advocacy, events, and resources for the solar industry in Alberta.

🌐 NATIONAL & GLOBAL

Association of Energy Services Professionals

Training, networking, and support for works in energy efficiency, demand-side management.

Canada Green Building Council

Advocacy for green building industry. License holder for LEED certification system in Canada.

Canadian Association of Consulting Energy Advisors

Association for EnerGuide Energy Advisors registered by Natural Resources Canada.

Canadian Biogas Association

Advocacy for the biogas industry in Canada.

Canadian Geothermal Energy Association

Research, policy work, events, and the voice of the geothermal energy industry in Canada.

Canadian Institute for Energy Training

Energy management and energy efficiency training and certification programs.

Canadian Renewable Energy Association

Education, networking, research, advocacy, and public engagement in support of the wind energy, solar energy, and energy storage industries.

Canadian Urban Sustainability Practitioners

Connects and supports sustainability practitioners from Canada's leading cities.

Climate Action Network / Réseau Action Climat

Coalition of Canadian climate, environmental and energy organizations providing advocacy, resources, and workshops for climate solutions.

Climate Caucus

A non-partisan network of elected local officials organizing collectively for climate policy.

Climate Proof Canada

Coalition of insurance, municipalities, Indigenous organizations, and environmental and research organizations calling for climate adaptation.

Decentralized Energy Canada

Programs, networking, training, and education on decentralized energy.

Efficiency Canada

Research and advocacy for energy efficiency. Writes the Canadian Energy Efficiency Scorecard.

Energy Services Association of Canada

Advocacy for energy efficiency, renewable energy, and infrastructure renewal.

Passive House Canada

Advocacy and education for the Passive House performance building standard.

Women in Renewable Energy

Capacity building, networking, events, and awards for women in the renewable energy sector.

EDUCATION AND RESOURCES

MUNICIPAL

Biosphere Institute of the Bow Valley

Education, research, resources, and community engagement for action on human-wildlife coexistence and climate change in the Bow Valley.

Bow Valley Climate Action

Education, resources, and advocacy to promote citizen engagement to reduce GHGs in the Bow Valley.

Calgary's Climate Program

Information, resources, and events for Calgary to minimize and prepare for risks from climate change.

Change for Climate (Edmonton)

Stories, actions, education, tools, and programs encouraging action on climate change.

City of Edmonton Environmental Programs

At a glance view of City of Edmonton programs, funding opportunities, and tools for homes, organizations and buildings, and public education.

Eco-Solar Home Tour Society

Free annual tours in Calgary, Edmonton, & Lethbridge to solar-powered and net-zero homes and buildings.

Environment Lethbridge

Information, events, and programs encouraging local action on climate change.

Green Leagues (Edmonton)

Workshops, resources, and support for Edmonton Community Leagues to lead energy efficiency and renewable energy projects.

Southern Alberta Alternative Energy Partnership

Research and advocacy to encourage investment and growth in alternative energy development in Southern Alberta.

PROVINCIAL & REGIONAL

Alberta Centre for Sustainable Rural Communities

Research, education, and outreach centred around resilient and sustainable rural communities and livelihoods

Alberta Ecotrust Foundation

Alberta Ecotrust is a long-standing and critical source of funding, training, and skill building for Alberta's environmental community.

Alberta's Climate Future: Final Report 2019

A 2019 report authored by Katharine Hayhoe and Anne Stoner discussing observed changes and long term climate trends for Alberta.

All One Sky Foundation

Education, research, and programs for vulnerable populations focusing on climate change and energy poverty.

Biodiversity Management & Climate Change Adaptation

Resources, projects, and tools to support the management of Alberta's biodiversity in a changing climate.

Canadian Parks and Wilderness Society of Northern Alberta

Information, resources, and presentations focused on the protection of natural ecosystems as a means of climate change mitigation and adaptation.

Carbon Copy

ERA's podcast about the technology, engineering, and economics of a low carbon economy

ClimateWest

A central hub for climate services in Manitoba, Saskatchewan, and Alberta providing access to regionally relevant climate information and the support to use it effectively in planning and decision making.

Ducks Unlimited

Alberta Education, programs, research, and advocacy for wetland conservation and restoration.

Energy Futures Lab

Collaboration, workshops, education, and resources focused on building the future energy system of Alberta.

Environmental Law Centre

Education, legal research, analysis, advice, and services for protection of the environment.

Green Energy Futures

Multi-media storytelling project, including a podcast, documenting the clean energy transition in homes, businesses, and communities.

Iron & Earth

Training, advocacy, support for oil & gas workers transitioning into renewable energy.

Just Powers

A University of Alberta research initiative with a catalogue of resources and research projects focused on climate justice and a just energy transition.

Municipal Climate Change Action Centre

Funding, education, and advisory services for Alberta municipalities working to save money by reducing their GHG emissions. Administrator of the Clean Energy Improvement Program.

Pembina Institute

Research, analysis, and recommendations to inform policies and practices related to energy.

Prairie Adaptation Research Collaborative

PARC is a climate change research centre at the University of Regina.

Prairie Provinces; Chapter 4 in Canada in a Changing Climate: Regional Perspectives Report

A report on climate adaptation and resiliency in Alberta, Saskatchewan, and Manitoba.

Recycling Council of Alberta

Promoting, facilitating, and advocating for waste reduction and resource conservation

Regeneration Learning Society

Education and outreach for justice-centred climate action in Alberta. Home of the Climate Leadership Program and the Energy Depot.

Rural Routes to Climate Solutions

Workshops, events, podcast, and resources supporting rural action on climate change.

The Bow Valley Eco Directory

A directory of organizations in the Bow Valley advocating for conservation, green energy, and climate action.

The Resilience Institute

A registered charity sharing resources and facilitating climate adaptation initiatives with partner communities.

University of Calgary School of Public Policy Paper Series

Latest research on trends in environment, energy, and policy from the University of Calgary

NATIONAL & GLOBAL

Arena Guide

Arena Guide's Ideas and Suggestions to Help Rinks Reduce Their Footprint.

Biological Carbon Canada

Focused on carbon reductions in farming, ranching, and forestry.

Business Renewables Centre (Canada)

Marketplace where corporations and institutions can learn how to buy renewable energy directly from developers.

Canada's Changing Climate Report

Canada in a Changing Climate: Advancing our Knowledge for Action is the national assessment of how and why Canada's climate is changing; the impacts of these changes on our communities, environment, and economy; and how we are adapting.

Canada's National Adaptation Strategy

Materials related to the development of Canada's first National Adaptation Strategy

Canadian Centre for Climate Services

Services, information, capacity building, and training to support the Pan-Canadian Framework on Clean Growth and Climate Change.

Canadian Institute for Climate Choices

Research, reports, and recommendations on best practice climate policies. Arm's length federal organization.

EDUCATION AND RESOURCES cont.

🌐 NATIONAL & GLOBAL cont.

Canadian Institute for Energy Training

Energy management and energy efficiency training and certification programs.

Canadian Parks and Wilderness Society

Information, resources, and presentations focused on the protection of natural ecosystems as a means of climate change mitigation and adaptation.

Canadian Passive House Institute

Non-profit providing education and training in Passive House design and construction.

City Climate Planner (International)

Program to train municipal staff and partners in GHG inventories, climate action and adaptation planning.

Clean Energy Canada

Research, stories, and funding focused on Canada's clean energy transition.

Climate Action for Museums Toolkit

A resource focused on the role of museums and the cultural sector in climate action and public education.

Climate Atlas (Canada)

Data, maps, and resources about national, regional, and local climate impacts.

Climate Central (USA)

Research and reporting on the science and impact of climate change.

Climate Outreach (UK)

Bridging the gap between research and practice through communications & engagement.

Climate Registry

Programs, tools, resources to assist in measuring, reporting, and verifying carbon and GHG emissions in operations.

Climate Risk Institute (Canada)

Research, advisory services, planning, assessments, outreach, and project management focused on climate change adaptation.

CLIMAtlantic

Local climate data and information to enhance climate adaptation in Atlantic Canada.

Community Climate Hub (Canada)

Tools, resources, data, and connection space for local Canadian climate initiatives.

Community Energy Association (BC)

Support for local governments developing & implementing climate action plans.

ECO Canada

Training, certification, & job board for Canadian environmental professionals.

Environment and Climate Change Canada

Federal Government department - funding, policy, resources, and education.

Federation of Canadian Municipalities

Advocacy, resources, tools, funding (Green Municipal Fund), and awards for Canadian municipalities.

FireSmart Canada

Resources, funding, and programs to increase resilience to wildfire.

Global Covenant of Mayors for Climate & Energy

Global network of mayors committed to local climate action.

Green Economy Canada

A national non-profit dedicated to the transition towards net-zero.

ICLEI - Local Governments for Sustainability

Connects, funds, and advocates for local, regional, national, and global sustainable urban development.

Insurance Bureau of Canada

Studies, reports, and resources on the economic impacts of climate change.

Intact Centre on Climate Adaptation

Research, resources, and initiatives to identify and reduce the impacts of climate change in Canada.

International Living Future Institute

Education, certification, and programs focused on ecologically minded buildings, products, and communities. Home to the Living Building Challenge & Zero Energy Certifications.

International Panel on Climate Change

United Nations body for assessing the science related to climate change - reports, information, working groups, task forces.

Investing in Canada's future: The cost of climate adaptation

As part of the Federation of Canadian Municipalities' Resource Library, this report outlines the cost of inaction of climate change adaptation.

LC3 - Low Carbon Cities Canada (partnership between cities and FCM, with seven regional Centres)

Investments, grants, and demonstration projects to lower regional emissions through energy efficiency, renewable energy, and transportation solutions.

Miistakis Institute (Canada)

Research, analysis, tools, and resources to engage communities in conservation efforts.

MIT Energy Initiative

Hub for low and no carbon energy research, education, and outreach.

Municipal Natural Assets Initiative

Resources, tools, and support to identify, value, and account for natural assets in financial planning, asset management, and sustainable and climate resilient infrastructure.

Pan-Canadian Framework on Clean Growth and Climate Change

A Canada-wide plan to meet 2030 emissions reduction targets.

Partners for Climate Protection Program (ICLEI & FCM)

Network, support, and milestone framework to help Canadian municipalities take action on climate change.

Prairie Climate Centre (Canada)

Data, reports, maps, videos & other resources to inspire citizen participation in climate action.

Project Drawdown

Research, education, and action guides focusing on the most viable global climate solutions.

QUEST Canada

A national non-profit that provides resources and advisory services in the areas of community energy and resilience to support communities on the path to net zero.

Sendai Framework for Disaster Risk Reduction 2015-2030

A report from the United Nations Office for Disaster Risk Reduction outlining targets and priorities for preventing new and reducing existing disaster risks.

Smart Prosperity Institute

National research network and policy think-tank for practical policies and market solutions for a stronger, cleaner economy.

The Narwhal (Canada)

Independent investigative journalism focused on stories about Canada's natural world.

University of Alberta - Future Energy Systems

Cross-faculty research, resources, and events focused on helping Canada transition to a low net-carbon energy economy.

The Municipal Climate Change Action Centre provides funding, technical expertise, and education to municipalities, schools, non-profits and community organizations.

A partnership of:

