

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

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

Town of Banff Environmental Rebates

A series of rebates offered by the Town of Banff including commercial and residential rebates for energy efficiency, and solar PV rebates.

ALBERTA

Adaptation Resilience Training (ART) Program

Supported by Alberta Environment and Parks, the ART Program places post-secondary students and recent graduates with host organizations to gain work experience in the fields of climate adaptation and resilience.

Alberta Ecotrust Foundation

Grants for work on protecting Alberta's natural environment; water, land use, and climate change. Founding member of the Low Carbon Cities network.

Alberta Emerald Foundation

Funding and awards for environmental excellence.

Alberta Innovates

Alberta Innovates drives research and innovation by providing funding, services, and expertise to post-secondary researchers, entrepreneurs, and industry.

Clean Energy Improvement Program

Affordable residential and commercial financing for clean energy upgrades.

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

With funding from the Environment and Climate Change Canada's Environmental Damages Fund, this program supports community-based climate action initiatives in collaboration with University of Calgary faculty and students and community organizations.

Municipal Climate Change Action Centre

Funding for Alberta municipalities to save on energy costs, improve energy efficiency, reduce their emissions, and increase their climate resilience.

NATIONAL & GLOBAL

Agricultural Clean Technology Program

Supports the development and adoption of clean technology to promote sustainable growth in Alberta's agriculture and agri-food sector.

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 Natural Resources Canada

Projects to support climate action and awareness, clean technology, low carbon economy, environmental assessment, and infrastructure.

Federation of Canadian Municipalities

Funding opportunities for Canadian municipalities through the Green Municipal Fund.

Natural Climate Solutions Fund

Funding to support nature-based climate solutions including the 2 Billion Trees Program, the Nature Smart Climate Solutions Fund, and the Agricultural Climate Solutions Program.

Natural Resources Canada

Funding for innovation in the clean economy, including the Canada Greener Homes Initiative, the Clean Fuels Fund, and the Energy Innovation Program.

Tree Canada

Grants for carbon offsetting opportunities related to tree planting.

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

TOOLS

MUNICIPAL

Climate Resilient Home

An interactive tool that helps homeowners better understand the climate risks to their homes and make investments to improve their climate resiliency.

Edmonton's Home Energy Map

Interactive map of Edmonton, showing EnerGuide ratings of homes.

Residential Solar Calculator – Calgary

Interactive map of Calgary, showing solar potential of buildings.

The Home Energy Toolkit

A toolkit available through the Edmonton Public Library that enables homeowners to find ways to improve energy efficiency and save on energy costs.

ALBERTA

Alberta Climate Information Services

An interactive tool providing producers, farm consultants, and researchers with access to weather forecasts and climate data.

Alberta Climate Records

Historical climate data, indexes, and projections of change.

TOOLS

ALBERTA cont.

Alberta Energy Policy Simulator (Pembina Institute)

Free tool to visualize the effect of policies on Alberta's carbon pollution and energy trajectory.

Alberta Solar Calculator

Evaluate cost implications of grid connected solar PV projects.

Alberta Utilities Commission

The Alberta Utilities Commission (AUC) has published an interactive map of all wind and solar facilities throughout Alberta, making it easier for municipalities, landowners and applicants in identifying the locations and proposed locations of all wind and solar generation projects in the province.

Carbon Offset Emissions Factors Handbook

List of emissions factors used for GHG reduction quantifications.

Clean Energy Improvement Program

Invest in energy efficiency and renewable energy upgrades and lower your utility bill, make your property more comfortable, and enhance your property value.

The Clean Energy Improvement Program (CEIP) puts it all within reach with an affordable and innovative approach to financing.

Climate Resilience Express

How to prepare a municipal climate action plan.

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.

MyHeat

Interactive 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 techniques.

The Alberta Narratives Project

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

NATIONAL & GLOBAL

BC Climate Action Toolkit

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

Climate Ready Infrastructure Service

The Climate Ready Infrastructure Service is a capacity building project for local governments across Canada. The service connects local governments and communities with top climate experts to support the integration of low-carbon resilience into local infrastructure projects.

Energy Star

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

Energy Star Portfolio Manager

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

Federation of Canadian Municipalities Climate Change Toolkits

Integrate climate considerations in municipal governance and operations to adapt to climate change.

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.

ICLEI – Climate Insight

Climate Insight is an online platform that is a centralized source for communities to find the tools and data they need to advance low-carbon, resilient housing and infrastructure initiatives in their communities.

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)

Toolkit to catalogue natural infrastructure and develop land use plans for mitigating flood and drought.

ORGANIZATIONS

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.

Eco-Solar Home Tour Society

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

Environment Lethbridge – Climate Change

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

Southern Alberta Alternative Energy Partnership

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

Young Professionals in Energy

Forums for networking and career development in Calgary and Edmonton.

ALBERTA

Alberta Ecotrust

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

Alberta Energy Efficiency Alliance

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

Alberta Environmental Network

Network for Albertans and organizations protecting Alberta's environment.

All One Sky Foundation

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

Association of Energy Engineers – Alberta Chapter

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

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.

Electric Vehicle Association of Alberta

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

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.

Environmental Services Association of Alberta

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

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 and gas workers transitioning into renewable energy.

Municipal Climate Change Action Centre

Funding, education, and advisory services for Alberta municipalities working to save money by reducing their GHG emissions.

Recycling Council of Alberta

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

ORGANIZATIONS

ALBERTA cont.

Rural Routes to Climate Solutions

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

Smart Sustainable Resilient Infrastructure Association

Membership-based association, with funding for projects and support for members, committed to reducing the carbon footprint of buildings through technological innovation.

Solar Alberta

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

NATIONAL & GLOBAL

Association of Energy Services Professionals

Professional development, networking, and support for members working in energy efficiency, demand-side management and response programs.

Biological Carbon Canada

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

Business Renewables Centre

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

Canada Green Building Council

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

Canadian Association of Consulting Energy Advisors

Registered EnerGuide Energy Advisors by Natural Resources Canada.

Canadian Biogas Association

Advocacy for the biogas industry in Canada.

Canadian Institute for Climate Choices

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

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.

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 provides capacity support to sustainability practitioners from Canada's large and leading cities.

Clean Energy Canada

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

Climate Action Network / Réseau Action Climat

Advocacy, resources, workshops, and a coalition of Canadian climate, energy, and environmental organizations working on climate solutions.

Climate Atlas

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

Climate Caucus

A non-partisan network of 250+ elected local leaders working collectively to create and implement climate action policy.

Climate Outreach (UK)

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

Climate Proof Canada

A coalition of insurance industry representatives, municipal governments, Indigenous organizations, and environmental and research organizations calling on the Canadian government to address disaster risk and make strides in climate adaptation and resilience through National Climate Adaptation Strategy.

Climate Registry

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

Climate Risk Institute

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

Community Climate Hub

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

Community Energy Association (BC)

Support for local governments developing and implementing climate action plans.

Decentralized Energy Canada

Industry association dedicated to the appropriate development of decentralized energy, through the delivery of programs, networking opportunities, training, and information.

ECO Canada

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

Efficiency Canada

Advocate for energy efficiency policy, technology, and jobs. Home to Provincial Energy Efficiency Scorecard.

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.

Geothermal Rising

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

Global Covenant of Mayors for Climate and 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 Canada

ICLEI Canada works with a wide-variety of stakeholders from across government, industry, academia and the NGO community to build more sustainable, low-carbon, energy efficient, climate-ready communities.

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 and Zero Energy Certifications.

International Panel on Climate Change

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

Miistakis Institute

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

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.

Passive House Canada

Advocacy, training, resources, for Passive House performance building standard.

Pembina Institute

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

Prairie Climate Centre

Data, reports, maps, videos and 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

QUEST Canada communities in Canada on their pathway to net-zero. They develop tools and resources, convene stakeholders and rights holders, and advise decision-makers — all with the goal of encouraging, assisting and enabling communities to contribute to Canada's net-zero goals.

Re.Climate

Re.Climate is a centre for training, research and strategy on climate change communications and public engagement. They provide strategic services to help practitioners reach new audiences, overcome polarization, communicate urgency, and motivate change.

Smart Prosperity Institute

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

The Narwhal

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

The Resilience Institute

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

Women in Renewable Energy

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

EDUCATION AND RESOURCES

MUNICIPAL

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.

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.

ALBERTA

Alberta Biodiversity Monitoring Institute

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

Alberta Centre for Sustainable Rural Communities

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

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.

Carbon Copy

Emissions Reduction Alberta's podcast about the technology, engineering, and economics of a low carbon economy.

PROVINCIAL & REGIONAL

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.

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.

Prairie Adaptation Research Collaborative (PARC)

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.

Regeneration Learning Society

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

The Bow Valley Eco Directory

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

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 Risks Reduce Their Footprint.

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.

City Climate Planner (International)

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

Climate Action for Museums Toolkit

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

Environment and Climate Change Canada

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

Insurance Bureau of Canada

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

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.

MIT Energy Initiative

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

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 and FCM)

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

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.

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:

