

MUNICIPAL CLIMATE ACTION LANDSCAPE

The Municipal Climate Action Landscape helps Alberta municipalities locate relevant climate change mitigation and adaptation resources. To recommend an additional climate action resource, please email contact@mccac.ca. This document will be updated annually. Visit the Learning Centre for more resources, and to download the Municipal Climate Action Landscape with active links for all listings, at mccac.ca/learning-centre.

EDUCATION AND RESOURCES

MUNICIPAL	PROVINCIAL AND REGIONAL	NATIONAL AND INTERNATIONAL
<p>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.</p> <p>Bow Valley Climate Action Education, resources, and advocacy to promote citizen engagement to reduce GHGs in the Bow Valley.</p> <p>Calgary's Climate Program Information, resources, and events for Calgary to minimize and prepare for risks from climate change.</p> <p>Change for Climate (Edmonton) Stories, actions, education, tools, and programs encouraging action on climate change.</p> <p>Eco-Solar Home Tour Society Free annual tours in Calgary, Edmonton, & Lethbridge to solar-powered and net-zero homes and buildings.</p> <p>Environment Lethbridge - Climate Change Information, events, and programs encouraging local action on climate change.</p> <p>Green Leagues (Edmonton) Workshops, resources, and support for Edmonton Community Leagues to lead energy efficiency and renewable energy projects.</p> <p>Southern Alberta Alternative Energy Partnership Research and advocacy to encourage investment and growth in alternative energy development in Southern Alberta.</p>	<p>Alberta Climate Connect (Alberta Ecotrust) Network of organizations & citizens increasing climate literacy and action in Alberta.</p> <p>All One Sky Foundation Education, research, and programs for vulnerable populations focusing on climate change and energy poverty.</p> <p>Biodiversity Management & Climate Change Adaptation Resources, projects, and tools to support the management of Alberta's biodiversity in a changing climate.</p> <p>Carbon Copy ERA's podcast about the technology, engineering, and economics of a low carbon economy.</p> <p>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.</p> <p>Climate West 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.</p> <p>Ducks Unlimited Alberta Education, programs, research, and advocacy for wetland conservation and restoration.</p> <p>Energy Futures Lab Collaboration, workshops, education, and resources focused on building the future energy system of Alberta.</p> <p>Environmental Law Centre Education, legal research, analysis, advice, and services for protection of the environment.</p>	<p>Green Energy Futures Multi-media storytelling project, including a podcast, documenting the clean energy transition in homes, businesses, and communities.</p> <p>Iron & Earth Training, advocacy, support for oil & gas workers transitioning into renewable energy.</p> <p>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.</p> <p>New Energy Economy (Pembina Institute) Showcase of Albertan projects that leverage low carbon opportunities.</p> <p>Pembina Institute Research, analysis, and recommendations to inform policies and practices related to energy.</p> <p>Recycling Council of Alberta Promoting, facilitating, and advocating for waste reduction and resource conservation.</p> <p>Regeneration Learning Society Education and outreach for justice-centred climate action in Alberta. Home of the Climate Leadership Program and the Energy Depot.</p> <p>Rural Routes to Climate Solutions Workshops, events, podcast, and resources supporting rural action on climate change.</p> <p>Biological Carbon Canada Focused on carbon reductions in farming, ranching, and forestry.</p> <p>Business Renewables Centre (Canada) Marketplace where corporations and institutions can learn how to buy renewable energy directly from developers.</p> <p>Canada's Changing Climate Report (Gov't of Canada) Scientific report about how and why Canada's climate has changed and what changes are projected for the future.</p> <p>Canadian Centre for Climate Services Services, information, capacity building, and training to support the Pan-Canadian Framework on Clean Growth and Climate Change.</p> <p>Canadian Climate Forum Independent non-profit providing reports, resources, and publications to advance climate change decision making in Canada.</p> <p>Canadian Institute for Climate Choices Research, reports, and recommendations on best practice climate policies. Arm's length federal organization.</p> <p>Canadian Institute for Energy Training Energy management and energy efficiency training and certification programs.</p> <p>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.</p> <p>Canadian Passive House Institute Non-profit providing education and training in Passive House design and construction.</p> <p>City Climate Planner (International) Program to train municipal staff and partners in GHG inventories, climate action and adaptation planning.</p> <p>Climate Atlas (Canada) Data, maps, and resources about national, regional, and local climate impacts.</p> <p>Clean Energy Canada Research, stories, and funding focused on Canada's clean energy transition.</p> <p>Climate Central (USA) Research and reporting on the science and impact of climate change.</p> <p>Climate Outreach (UK) Bridging the gap between research and practice through communications & engagement.</p> <p>Climate Registry Programs, tools, resources to assist in measuring, reporting, and verifying carbon and GHG emissions in operations.</p> <p>Climate Risk Institute (Canada) Research, advisory services, planning, assessments, outreach, and project management focused on climate change adaptation.</p> <p>Community Climate Hub (Canada) Tools, resources, data, and connection space for local Canadian climate initiatives.</p> <p>Community Energy Association (BC) Support for local governments developing & implementing climate action plans.</p> <p>Eco Canada Training, certification, & job board for Canadian environmental professionals.</p> <p>Environment and Climate Change Canada Federal Government department - funding, policy, resources, and education.</p> <p>Federation of Canadian Municipalities Advocacy, resources, tools, funding (Green Municipal Fund), and awards for Canadian municipalities.</p> <p>FireSmart Canada Resources, funding, and programs to increase resilience to wildfire.</p> <p>Global Covenant of Mayors for Climate & Energy Global network of mayors committed to local climate action.</p> <p>ICLEI - Local Governments for Sustainability Connects, funds, and advocates for local, regional, national, and global sustainable urban development.</p> <p>Insurance Bureau of Canada Studies, reports, and resources on the economic impacts of climate change.</p> <p>Intact Centre on Climate Adaptation Research, resources, and initiatives to identify and reduce the impacts of climate change in Canada.</p> <p>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.</p> <p>International Panel on Climate Change United Nations body for assessing the science related to climate change - reports, information, working groups, task forces.</p> <p>Miistakis Institute (Canada) Research, analysis, tools, and resources to engage communities in conservation efforts.</p> <p>MIT Energy Initiative Hub for low and no carbon energy research, education, and outreach.</p> <p>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.</p> <p>The Narwhal (Canada) Independent investigative journalism focused on stories about Canada's natural world.</p> <p>Partners for Climate Protection Program (ICLEI & FCM) Network, support, and milestone framework to help Canadian municipalities take action on climate change.</p> <p>Prairie Climate Centre (Canada) Data, reports, maps, videos & other resources to inspire citizen participation in climate action.</p> <p>Project Drawdown Research, education, and action guides focusing on the most viable global climate solutions.</p> <p>Smart Prosperity Institute National research network and policy think-tank for practical policies and market solutions for a stronger, cleaner economy.</p> <p>University of Alberta - Future Energy Systems Cross-faculty research, resources, and events focused on helping Canada transition to a low net-carbon energy economy.</p> <p>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.</p>



Municipal Climate Change Action Centre

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FUNDING

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<p>Banff Residential Environmental Rebates Town of Banff residential rebates for energy efficiency and renewable energy.</p> <p>EcoCity Edmonton Residential and business rebates to become an energy sustainable and climate resilient city.</p> <p>EQUS Rebates and financing for EQUS Members installing solar PV.</p> <p>HAT Smart City of Medicine Hat residential rebates for energy efficiency and renewable energy.</p> <p>Change Homes For Climate City of Edmonton education, resources, and residential rebates for installing solar PV and energy efficiency upgrades.</p>	<p>Alberta Ecotrust Foundation Grants for work on protecting Alberta's natural environment; water, land use, & climate change. Centre for LC³ in Alberta.</p> <p>Alberta Emerald Foundation Funding and awards for environmental excellence.</p> <p>Alberta Innovates Funding, technical expertise, and research to grow innovation.</p> <p>Clean Energy Improvement Program Affordable residential and commercial financing for clean energy upgrades.</p>	<p>Community Conserve Funding for municipal environmental concerns.</p> <p>Emissions Reduction Alberta Funding for innovative technology solutions that reduce GHG emissions and home of the Energy Savings for Business funding program.</p> <p>Municipal Climate Change Action Centre Funding for Alberta municipalities working to save money by reducing their GHG emissions.</p> <p>Canadian Foundation for Climate and Atmospheric Sciences Funding for university-based research on climate, atmospheric, and oceanic work in Canada.</p> <p>Environment and Natural Resources Canada Funding for Climate Action, Green Infrastructure, Public Transit, Clean Technology, Carbon Pollution Pricing.</p> <p>Federal Gas Tax Fund Funding for capital costs on public infrastructure.</p> <p>Federation of Canadian Municipalities Green Municipal Fund and awards for Canadian municipalities.</p> <p>Tree Canada Grants for carbon offsetting opportunities related to tree planting.</p>

INDUSTRY ASSOCIATIONS

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<p>Women in Renewable Energy Local chapters offering capacity building, networking, events, and awards for women in the renewable energy sector.</p> <p>Young Professionals in Energy Forums for networking and career development in Calgary and Edmonton.</p>	<p>Alberta Clean Technology Industry Alliance Supporting Albertans developing Clean Technology.</p> <p>Alberta Environmental Network Network for Albertans and organizations protecting Alberta's environment.</p> <p>Alberta Energy Efficiency Alliance Resources, networking, & events to reduce barriers to energy efficiency adoption.</p> <p>Association of Energy Engineers - Alberta Chapter Networking, resources, certifications, technical journals for energy industry professionals.</p> <p>Electric Vehicle Association of Alberta Non-profit, citizen-lead group to promote adoption of EVs in Alberta.</p> <p>Environmental Services Association of Alberta Networking, member directory, and conferences for the environment industry.</p> <p>Recycling Council of Alberta Promoting, facilitating, and advocating for waste reduction and resource conservation.</p> <p>Solar Alberta Education, advocacy, events, and resources for the solar industry in Alberta.</p> <p>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.</p>	<p>Association of Energy Services Professionals Professional development, networking, and support for members working in energy efficiency, demand-side management and response programs.</p> <p>Canada Green Building Council Advocacy for green building industry. License holder for LEED green building rating system in Canada.</p> <p>Canadian Association of Consulting Energy Advisors Registered EnerGuide Energy Advisors by Natural Resources Canada.</p> <p>Canadian Biogas Association Advocacy for the biogas industry in Canada.</p> <p>Canadian Geothermal Energy Association Research, policy work, events, and the voice of the geothermal energy industry in Canada.</p> <p>Canadian Institute for Energy Training Energy management and energy efficiency training and certification programs.</p> <p>Canadian Renewable Energy Association Education, networking, research, advocacy, and public engagement in support of the wind energy, solar energy, and energy storage industries.</p> <p>Canadian Urban Sustainability Practitioners Connects and provides capacity support to sustainability practitioners from Canada's large and leading cities.</p> <p>Climate Action Network / Réseau Action Climat Advocacy, resources, workshops, and a coalition of Canadian climate, energy, and environmental organizations working on climate solutions.</p> <p>Climate Caucus A non-partisan network of 250+ elected local leaders working collectively to create and implement climate action policy.</p> <p>Decentralized Energy Canada Industry association dedicated to the appropriate development of decentralized energy, through the delivery of programs, networking opportunities, training, and information.</p> <p>Efficiency Canada Advocate for energy efficiency policy, technology, and jobs. Home to Provincial Energy Efficiency Scorecard.</p> <p>Energy Services Association of Canada Membership-based advocacy association encouraging policy, regulations, and programs that enhance the role of guaranteed performance-based solutions to implement energy efficiency, renewable energy, and infrastructure renewal initiatives.</p> <p>Passive House Canada Advocacy, training, resources, for Passive House performance building standard.</p> <p>Women in Renewable Energy Capacity building, networking, events, and awards for women in the renewable energy sector.</p>

TOOLS

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<p>Edmonton's Home Energy Map Interactive map of Edmonton, showing EnerGuide ratings of homes.</p> <p>MyHeat – Solar Edmonton Interactive map of Edmonton, showing solar potential of buildings.</p> <p>Solar Potential Map – Calgary Interactive map of Calgary, showing solar potential of buildings</p>	<p>Alberta Climate Records Historical climate data, indexes, and projections of change.</p> <p>Alberta Energy Policy Simulator (Pembina Institute) Free tool to visualize the effect of policies on Alberta's carbon pollution and energy trajectory.</p> <p>The Alberta Narratives Project How to have bridge-building conversations about climate change and energy.</p> <p>Alberta Solar Calculator Evaluate cost implications of grid connected solar PV projects.</p> <p>Climate Resilience Express How to prepare a municipal climate action plan.</p> <p>Design Our Climate Simulation (King's University) Interactive tool to explore ways to reduce GHG emissions.</p> <p>Electric Vehicles Savings Calculator Compare costs and emissions of gasoline-powered passenger vehicles with electric vehicles.</p> <p>Energy Efficiency Building Codes (Alberta) Requirements for energy efficiency in buildings and housing.</p> <p>GoA Carbon Offset Emissions Factors Handbook List of emissions factors used for GHG reduction quantifications.</p> <p>MyHeat Interactive maps of Alberta cities, showing actual heat loss from homes, to encourage energy efficiency.</p> <p>Solar Friendly Municipalities Toolkit Learn about installing solar PV on municipal facilities, solar PV investment, and engagement techniques.</p>	<p>BC Climate Action Toolkit Tools, best practices, and more for BC local governments.</p> <p>Energy Star Certification for energy efficiency in products, homes, buildings, and industrial operations.</p> <p>Energy Star Portfolio Manager (NRCan) Monitor, rate, and optimize a building's energy use.</p> <p>Federation of Canadian Municipalities Climate Change Toolkits Integrate climate considerations in municipal governance and operations to adapt to climate change.</p> <p>GoodWork.ca Job board for environmental professionals, job seekers, and volunteers.</p> <p>Greenhouse Gas Equivalencies Calculator (NRCan) Translate abstract GHG or energy measurements into relatable metrics.</p> <p>Green Globes Online green building rating and certification tool for new construction and retrofits.</p> <p>PVWatts Calculator Online tool to estimate the energy production and cost of grid-tied solar PV.</p> <p>RETScreen Software for energy efficiency, renewable energy, and cogeneration project feasibility and performance analysis.</p> <p>System Advisor Model (SAM) Free techno-economic modelling for renewable energy projects.</p> <p>Working with Nature Toolkit (Miistakis Institute) Toolkit to catalogue natural infrastructure and develop land use plans for mitigating flood & drought.</p>

For more resources and to learn about the Action Centre visit www.mccac.ca