



Climate Change Action Plan

May 11, 2017

Presentation Overview

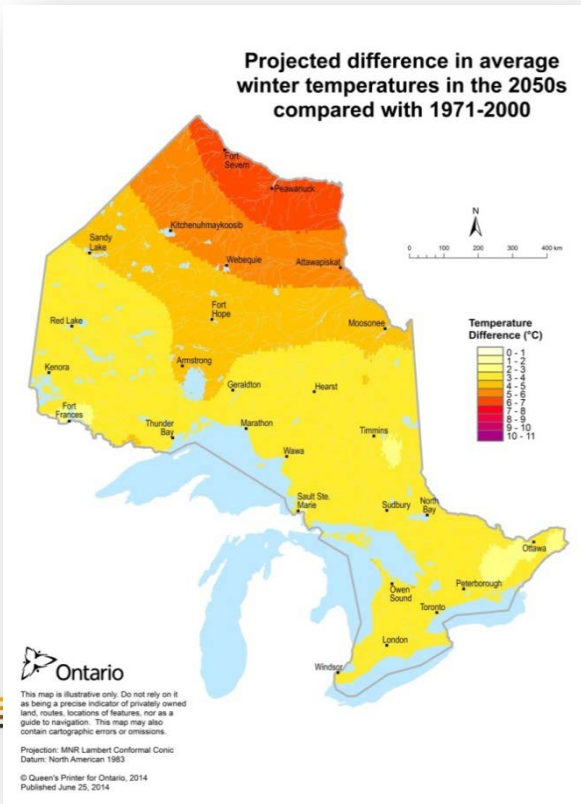


- Ontario's Climate Change Context and Initiatives
- Climate Change Action Plan
- Action Areas Affecting Municipalities
- Next Steps for CCAP
- Additional Resources

Types of Climate Change Action

- Climate change **mitigation**: efforts to lower or prevent the release of greenhouse gas (GHG) emissions into the atmosphere
 - actions that reduce sources of these emissions
 - measures that enhance the storage or sequestration of GHG emissions (such as through forests, lands and soils)
- Climate change **adaptation**: modifying practices and behaviours to reduce the vulnerabilities and risks associated with a changing climate

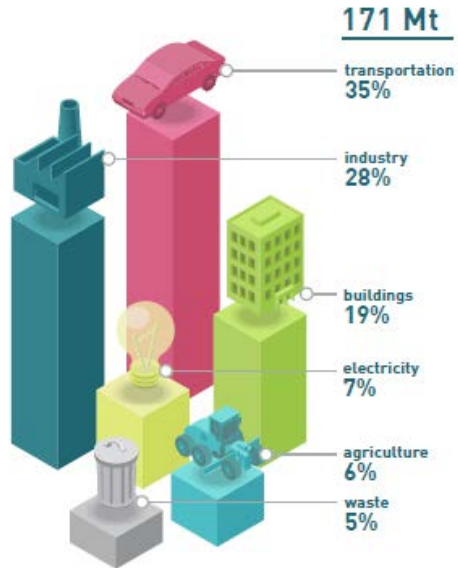
Ontario's Climate Change Challenge



- Science demonstrates that climate change is profoundly affecting the planet and that it is caused by human behaviours
- Without action, dramatic impacts to rural, remote and urban communities across Ontario are expected by 2050.
 - For example, winter temperatures in the north could increase by up to 7 degrees
- Global action to reduce emissions can significantly reduce risks, but adaptation action is also critical to ensuring Ontario is resilient to impacts from climate change
- Municipalities are a key partner in both mitigation and adaptation action

Ontario's Emissions by Sector

Emissions by Sector, 2013



Ontario's largest sources of greenhouse gas emissions come from:

- Transportation – 35%
- Industry – 28%
- Buildings and Homes – 19%
- Electricity – 7%
- Agriculture – 6%
- Waste – 5%

Impacts Already Felt in Ontario

Examples of Climate Change Impacts already being felt in Ontario include:

- More ice events and floods
- More / larger wildfires, longer fire season
- Melting permafrost affecting infrastructure
- More extreme events having a real impact on infrastructure
- Changes in forest species composition
- Seasonal variability impacts on agriculture
- Increase in tick-borne illnesses



**More
Frequent and
More
Extreme
Events**



**Increased
Infrastructure
Vulnerability**



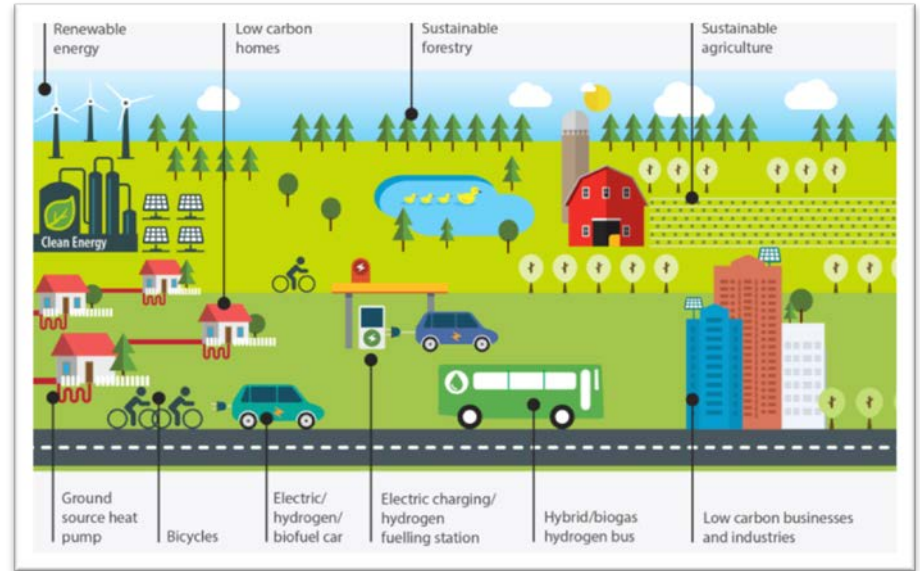
**Impacts on
Agriculture**



**Increase in
Vector-Borne
Illness**

Ontario's Climate Change Initiatives

- Ontario's Climate Change Strategy
- Green Investment Fund
- *Climate Change Mitigation and Low-carbon Economy Act, 2016*
 - Cap and Trade Program
 - Climate Change Action Plan
- Progress Report and Climate Change Adaptation Action Plan



Greenhouse Gas Emission Reduction Targets

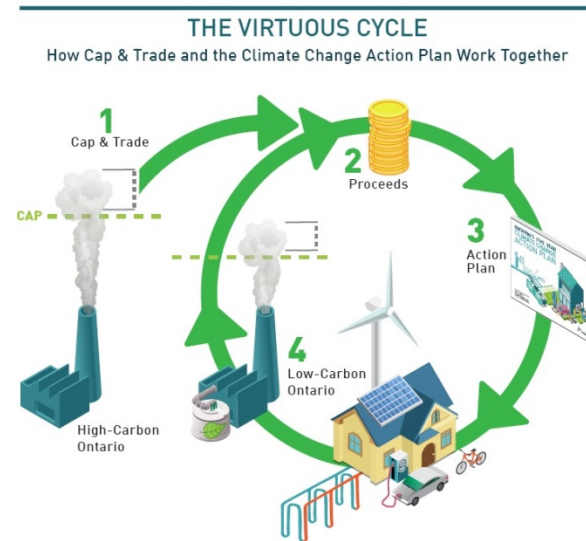
The *Climate Change Mitigation and Low-Carbon Economy Act, 2016* has legislatively enshrined provincial GHG targets as follows:

- 2020 target: 15 per cent below 1990 level
- 2030 target: 37 per cent below 1990 level
- 2050 target: 80 per cent below 1990 level



Climate Change Action Plan (2016 – 2020)

- Cap and Trade proceeds are reinvested back into projects that reduce GHG emissions and support transition to a low carbon economy, as described in the Climate Change Action Plan
- Reduce emissions to help meet the 2020 and 2030 targets
- Lay a foundation for achieving long-term emission reductions
- Accelerate the transition to a low-carbon economy
- Partially fund actions from cap and trade proceeds



Municipal Impact

- Municipalities oversee a number of climate-critical policy areas
- The Climate Change Action Plan recognizes the significant role municipalities play in the fight against climate change and will facilitate municipal leadership on climate change mitigation
- Some of the proceeds from the cap and trade program will assist municipalities in mitigating the impacts of carbon pricing and the impacts of climate change
- Ontario is developing guidance material to support the implementation of municipal climate change policies and will provide information on how to consider climate change in municipal programs and policies

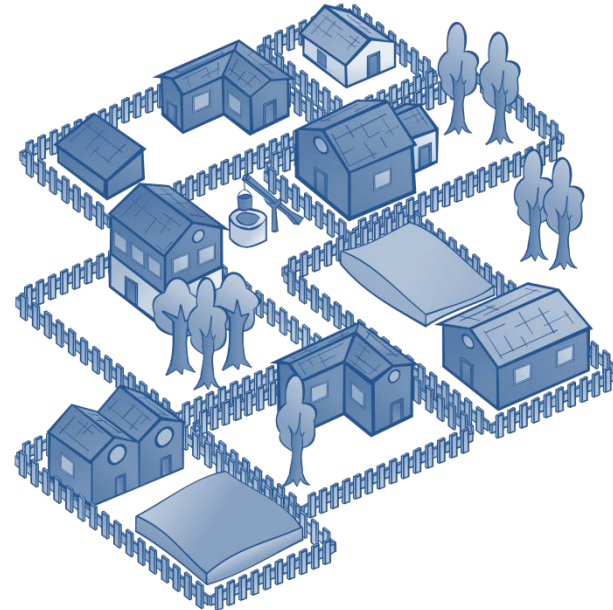
Proposed Land Use Planning Actions

Amendments to the Planning Act

- Bill 68, the *Modernizing Ontario's Legislation Act*, would, if passed, amend Ontario's *Planning Act* to make climate change a provincial interest.
- to consult on and propose amendments to the *Planning Act* that would require climate change mitigation and adaptation policies in municipal official plans
- to consult on and propose amendments to the *Planning Act* that would eliminate minimum parking requirements for municipal zoning bylaws where appropriate (i.e. in transit corridors and high-density, walkable communities)

Promote Walkable Communities – develop a consumer awareness campaign to promote the benefits of walkable communities

Land Use Carbon Inventory – develop a land use carbon inventory to assess the potential of agriculture, forestry, and other land uses, such as wetlands and grasslands, to emit, remove and store carbon



Proposed Transportation Actions

Lower-carbon fuel - including boosting renewable content, assisting fuel distributors and piloting waste and agricultural methane as a fuel source

Low-carbon trucks and buses – a low-carbon fuelling infrastructure initiative, a program to encourage the purchase of low-carbon commercial vehicles, and finding ways to increase the use of short-line railways.

Electric Vehicles – through rebates for EVs and home charging stations, HST relief, free overnight charging, older vehicle replacement program for low- and moderate-income households, significant investment in public charging stations, EV-ready homes and workplaces, showcase facility for EVs, and Electric and Hydrogen Vehicle Advancement Program.

Cycling and walking – through accelerating Ontario's Cycling Strategy, improved commuter cycling networks, increased cycling facilities and bike parking, and requiring cycling infrastructure be considered for all road and highway construction projects.

Transit and Transportation Demand Management – GO Regional Express Rail and funding for transportation demand management plans for municipalities and large employers.



Proposed Housing Actions

Improve energy efficiency – in social housing apartment buildings through a social housing retrofit program

Protect tenants – by considering options to lessen the impact on residential tenants of increased energy costs



Proposed Building Sector Actions

Existing Buildings – funding for energy retrofits for social housing, schools, hospitals, post-secondary institutions, heritage buildings, and in multi-tenant residential buildings, rebates for low-carbon technologies in homes, wood stove replacement program, and maximizing the degree to which new incentive programs will provide an increased benefit to low-income households.

New Buildings – changes to the Building Code to increase energy efficiency now, a trajectory for achieving net zero energy efficiency in small buildings by 2030, rebates for new homes built with zero or near zero emissions.

Energy Use – including prioritizing GHG reductions in the next Long-Term Energy Plan, establishing renewable natural gas requirements, expanded Green Button initiative, directing a portion of proceeds back to ratepayers, and developing options to reduce the impact on residential tenants of increased energy costs from cap and trade.

Market Readiness – Home Energy Rating and Disclosure requirements, support for labour training, and expanded curricula for training and credentialing in the low-carbon buildings sector.



Proposed Municipal Actions

- **Climate Change Policies and Practices** – including empowering municipalities, prioritizing climate change in planning decisions, requiring climate change considerations in municipal official plans, and eliminating minimum parking requirements.
- **Municipal and other stakeholder climate action** – including establishing a GHG reduction challenge fund, facilitating community energy planning and mapping.
- **Transportation Demand Management and improve economic productivity** – help municipalities with pilot congestion management plans, reduce single passenger vehicle trips by providing grants to implement transportation demand management plans.



Next Steps for the Climate Change Action Plan

- Detailed policy and program design is underway for initiatives in the Climate Change Action Plan
 - The public and stakeholders will be consulted and engaged on the details of initiatives
 - Programs likely to be announced later in 2017 – Stay tuned!
- The next cap and trade auction will take place on June 6, 2017
- The CCAP includes a commitment to the future release of the next adaptation plan in 2017.
 - Ontario will look to work with municipalities and the Federal government to enable support for adaptation actions.

Resources for Municipalities

Examples of Climate Change Action Planning Resources for Municipalities:

- **Partners for Climate Protection:** a “joint network of the Federation of Canadian Municipalities (FCM) and ICLEI Canada (Local Governments for Sustainability)”
www.fcm.ca/home/programs/partners-for-climate-protection.htm
- **Compact of Mayors:** “a global coalition of mayors and city officials committing to reduce local greenhouse gas emissions, enhance resilience to climate change and track their progress publicly.”
www.compactofmayors.org

Resources for Municipalities

Examples of Programs to Support Climate Change Mitigation and Adaptation:

- The **Municipal Energy Plan program** (MEP), administered by The Ministry of Energy: www.energy.gov.on.ca/en/municipal-energy
- The **Green Municipal Fund** and the **Municipalities for Climate Innovation Program** administered by the Federation of Canadian Municipalities: www.fcm.ca/home/programs.htm
- The **Green People** grant program from the Ontario Trillium Fund: www.otf.ca/what-we-fund/action-areas/green-people
- Future programs from the Climate Change Action Plan: GHG Municipal Challenge Fund and support for community energy planning

Thank You!



Climate Change Action Plan:

www.ontario.ca/page/climate-change-action-plan

Climate Change Strategy:

<https://www.ontario.ca/page/climate-change-strategy>