

2020 Climate Action Update

Committee of the Whole
Nov 19, 2020



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Purpose

To provide an update on the City's Climate Action Program.

Continually evolving - guided by the goals, targets and actions in:

- Climate Leadership Plan
- Council's declaration of a Climate Emergency.

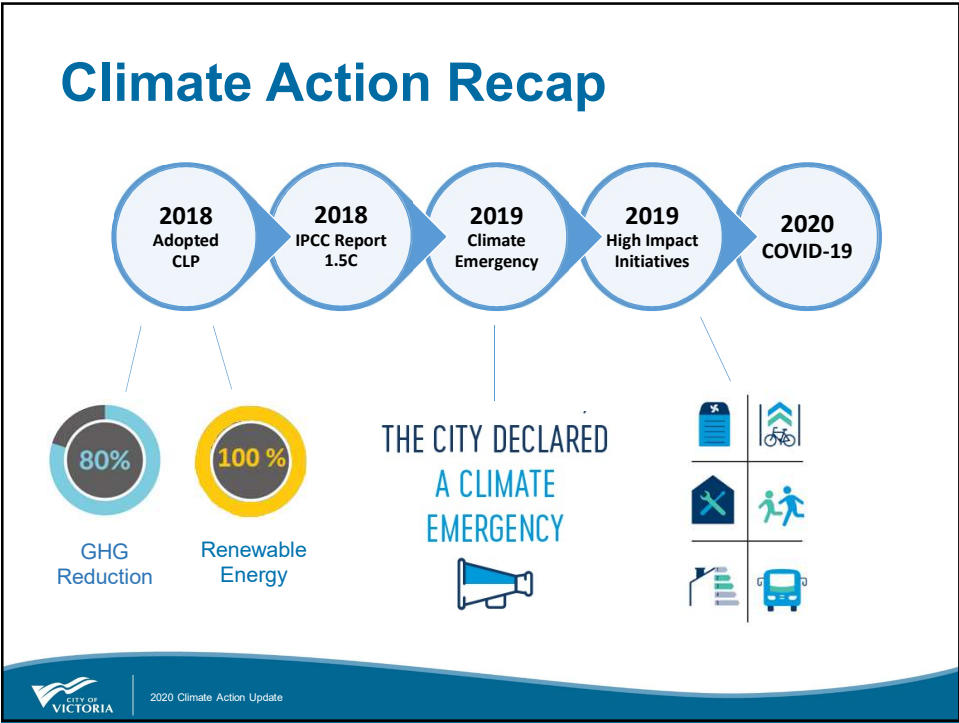
This update will:

- Highlight some of the program's successes and achievements to date
- Discuss what progress has been made on implementation of the City's Climate Leadership Plan
- Describe the municipal and community emissions picture and identify areas for continued, additional focus
- Provide a recommended approach for how to continue the Climate Action Program's efforts through 2021.

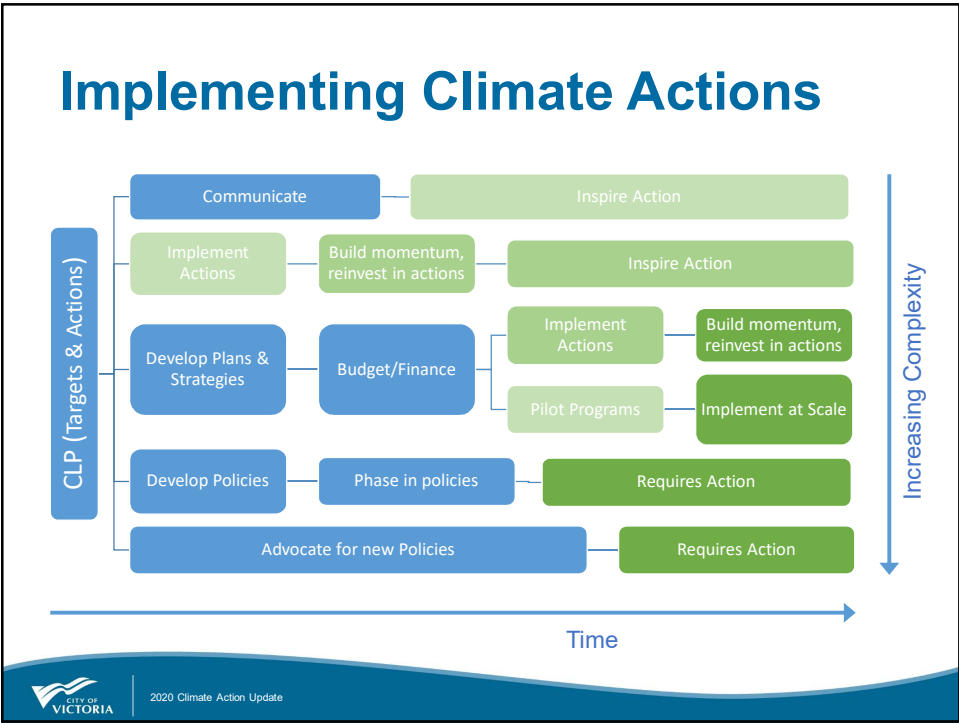


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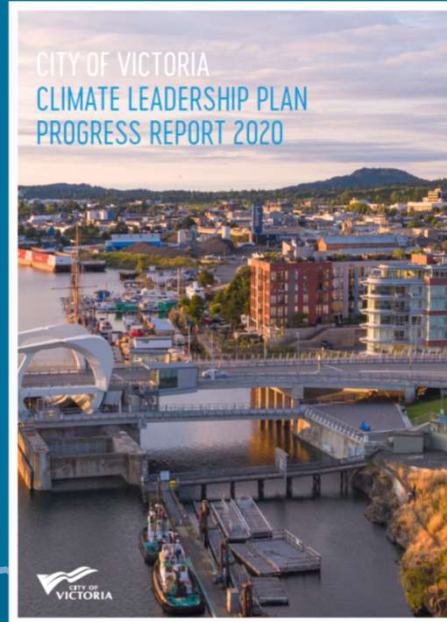


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Climate Action Progress Update



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CLP Progress Update

TARGETS

ON TRACK: work is progressing and the target is anticipated to be met in the designated time frame

EARLY STAGES: work has progressed, but the pace of effort will need to increase before it can be considered on track to meet the target in the designated time frame

FALLING BEHIND: the work is not progressing fast enough to meet the target

MISSED: the target was not met in the planned time frame

ACTIONS

FUTURE ACTION: the action has not yet been started and is slated for development in the future


EARLY STAGES: the action has been initiated, early work has begun, but requires additional work and resources to develop and implement

UNDERWAY: the action has been developed beyond early stages and work is actively underway

COMPLETE: the action has been implemented

Additionally, priority actions have been identified where the City will concentrate efforts over the next two years based on:

- The potential of the action to result in a significant GHG reductions
- The potential of the action to contribute to the achievement of a sector target
- The current feasibility of the action

Each identified priority action is further explained at the end of each sector section. To identify Priority Actions, look for the  symbol, in the sector tables below.

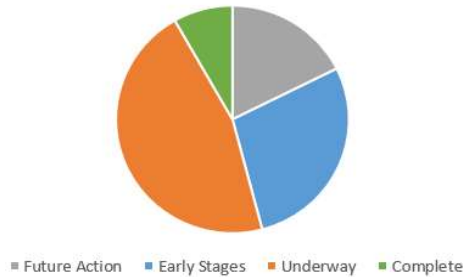


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CLP Progress Update

Snapshot of the Progress of all CLP Actions



ACTIONS

PROGRESS



Develop the 'business case for adaptation' to demonstrate benefits of taking early action.

(Combined with action: Study how the direct and indirect climate change will affect the local economy.)

EARLY STAGES

Community-wide climate vulnerability and risk

EARLY STAGES

Existing City plans incorporate climate risk and identify ways to align with ongoing and future City business.

COMPLETE/ONGOING

Investment, and partnership opportunities to speed and quality of adaptation initiatives.

UNDERWAY

Identify risks through natural and engineered infrastructure

UNDERWAY

Economic, social, and environmental implications of the Construction Level.

UNDERWAY

Direct and indirect impacts of climate change will economy.

UNDERWAY

Engage community members in refreshing the 'Climate Adaptation Plan' and include actions for sectors beyond the municipal corporation (e.g. residents).

UNDERWAY

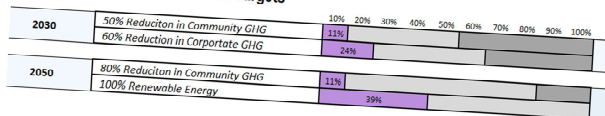


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CLP Progress Update

Climate Leadership Plan Overall Targets



GOAL Vehicles in Victoria are powered by renewable energy



TARGETS

By 2030, renewable energy powers 30 percent of passenger vehicles registered in Victoria, and 100 percent of passenger vehicles are renewably powered by 2050.

By 2030, 30 percent of commercial vehicles operating in Victoria are renewably powered.

PROGRESS

ON TRACK: On track to meet target by 2030. Must be sustained support meeting policy strategy to get in line with that requires all to be zero emit.

EARLY STAGE: Early stage progress towards the target.

Climate Leadership Plan Sector Targets*

	Buildings	Mobility	Waste	Municipal Operations	Adaptation
2020-25			W3 On Track	MO3 On Track MO5 Missed MO6 Falling Behind MO7 Falling Behind	
2030	B1 On Track B3 On Track	M1 Early Stages M2 Early Stages M3 Early Stages M4 On Track M5 Early Stages M6 On Track M7 Early Stages	W1 Early Stages W2 Early Stages		
2040				MO1 On Track MO2 On Track MO4 Early Stages	A1 On Track A2 Early Stages A3 Early Stages A4 On Track A5 On Track A7 Early Stages
2050	B2 Early Stages B4 Early Stages	M4 On Track			

*Sector targets are numbered based on the order that they appear in the CLP Progress Report



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Climate Action Achievements



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Climate Action Achievements

- ✓ Completed the City's Sustainable Mobility Strategy: "Go Victoria"
- ✓ Continued to deliver the accelerated expansion of the AAA cycling network and increase investment in crosswalks, sidewalks and pathways
- ✓ Launched the Youth Bus Pass Program encouraging car-free and car-lite lifestyles
- ✓ Expanded the City's EV charging network and updated parking bylaws
- ✓ Implemented the new 'EV Readiness Bylaws' requiring all new residential and commercial developments to be EV ready



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Climate Action Achievements

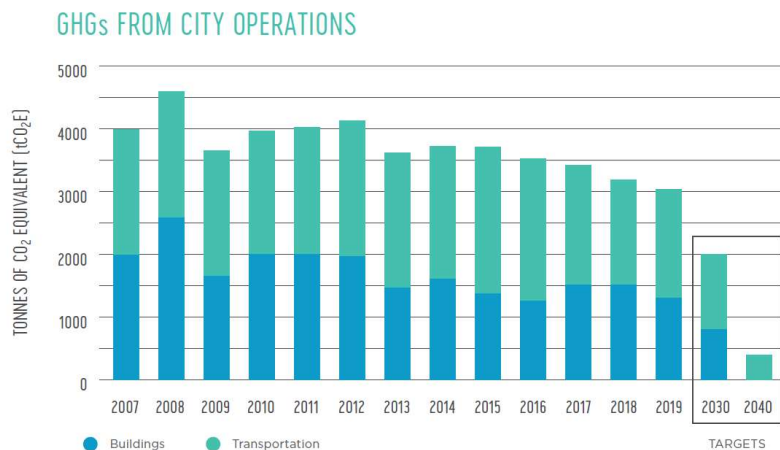
- ✓ Corporate Energy Specialist term position with funding from BC Hydro - completed facility energy audits, and implemented multiple energy saving building retrofits for City-owned buildings.
- ✓ Procurement of hybrid and electric vehicles and equipment for City fleet and operations where economically and technically feasible. The City now has 11 EVs, 17 hybrid vehicles and 20% of small equipment, such as chainsaws and leaf blowers, are now battery powered
- ✓ Received \$15.3 million in grant funding for Seismic and Coastal Flooding Underground Infrastructure Upgrades
- ✓ Further development of plans and strategies



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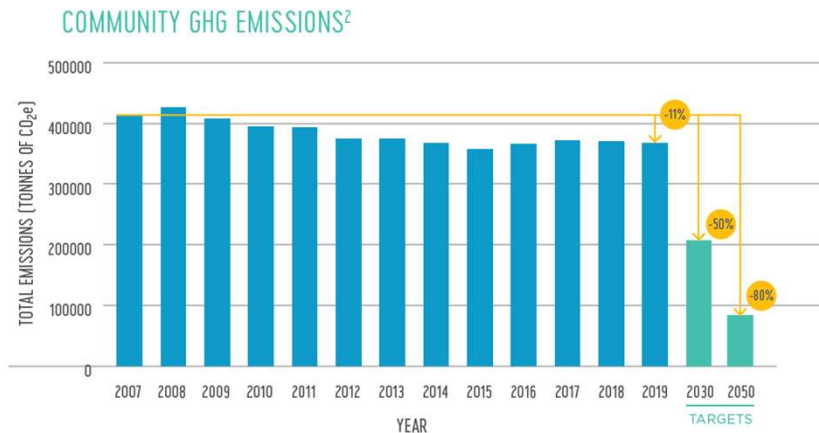
Corporate GHG Emissions



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Community GHG Emissions

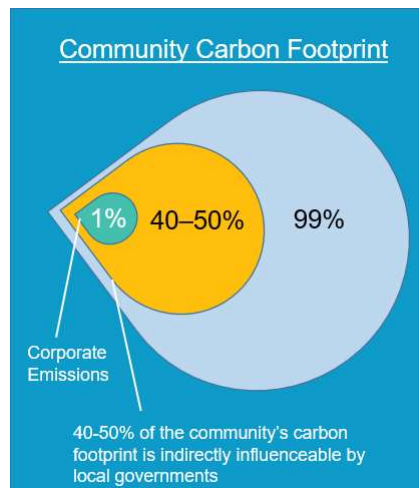


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Climate Action – areas of focus

- Accelerating climate action through priority initiatives and HIIIs
- Exploring further tools of influence:
 - Regulations/bylaws
 - Land development
 - Grants and subsidies
 - Access to, management and operation of streets
- Identifying funding requirements
- Continuing advocacy and collaboration



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Climate Action Priority Initiatives

Broad Criteria for identifying priority initiatives:

- The Climate Emergency (**six High Impact Initiatives**)
- The potential of the action to result in significant community GHG reductions
- The potential of the action to contribute to achievement of a sector target
- The current feasibility of the action



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Priority Initiatives Low Carbon High Performance Buildings:

- **Accelerate BC Energy Step Code & Low Carbon Pathway**
 - New FTE within SPCD included in the draft 2021 Financial plan
- **Oil to Heat Pump Program**
 - Contingent on receiving funds (\$300,000 deferred in 2020)
- **Development of a regional home energy retrofit service**



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Priority Initiatives

Low Carbon Buildings (cont.)

- Oil to Heat Pump Program – Launched April 2020
 - Ramped up outreach in anticipation of renewed uptake in 2021
 - Evolve along with Provincial Incentives
- Regional retrofit service
 - Collaborating with regional partners
 - Completed homeowner and industry engagement
 - Identified key retrofit strategies
 - Implemented a new pilot program “Bring it Home for the Climate”
 - Applied for grant funding for regional program design



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Priority Initiatives

Low Carbon Mobility:

- Continue implementation of Go Victoria:
 - Expand walking, rolling and cycling infrastructure
 - Expand EV infrastructure, policies and incentives
 - Advance bus rapid transit
 - Expand shared mobility options
- Promote and incentivize (TDM) and modernize parking regulations for new development
 - New FTE within SPCD included in the draft 2021 Financial plan



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Priority Initiatives

Low Carbon Mobility (cont.):

- AAA network completion
 - 6+km of bike lanes, 4km of sidewalks, 38 new crosswalks installed
 - Continuing to apply for grants to support delivery
 - Strategic investments will maximize benefits
 - Requires ongoing assessment of risks and opportunities
- Rapid Bus Implementation
 - Requires municipal leadership across the CRD with investments by senior levels of government
 - City of Victoria is planning for Douglas Street and beyond
 - Involves changes to land use density and diversity along approved transit corridors



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Priority Initiatives

Low Carbon Mobility (cont.):

- Expanding Shared Mobility Options
 - Will test curb management principles
 - Responsive regulations needed to support first/last KM options
- Expanding the City's EV Charging Infrastructure
 - EV Strategy is currently under development
 - Leveraging Federal and Provincial funding
 - Neighborhood charging projects
- Parking modernization
 - Comprehensive TDM program followed by zoning bylaw reform



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Priority Initiatives

Low Carbon Waste Management:

- Implement Zero Waste Victoria priority actions:
 - Identify opportunities to improve organics diversion
 - Develop policies/programs to divert wood from construction waste
- Engage with CRD to evaluate anaerobic digestion options for organic waste



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Priority Initiatives

Municipal Operations:

- Implement the Corporate Energy and Emissions Management Plan (CEEMP)
- Initiate the Fleet Master Plan process
- Develop the Climate Lens Framework
 - update OCP to align with CLP



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Priority Initiatives

Municipal Operations (cont.):

- Developing the Corporate Energy & Emissions Management Plan:
 - Will identify departmental GHG reduction targets and actions
 - Anticipated roll-out in early 2021 in advance of 2022 budget
- Advancing the decarbonization of facilities:
 - Hired Corporate Energy Specialist
 - Implemented lighting retrofits and other energy improvements
- Advancing the decarbonization of fleet:
 - Pivoting to utilize consultant support to initiate Fleet Master Planning
 - Establishing a new procurement approach for electric vehicles
 - Gearing up for first Electric trucks in 2021



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Priority Initiatives

Adapting Early:

- Implement Corporate Adaptation Plan
 - Develop the business case for adaptation
 - Support implementation of a Flood Construction Level
- Develop a community chapter of the Corporate Adaptation Plan



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Priority Initiatives

Adapting Early (cont.):

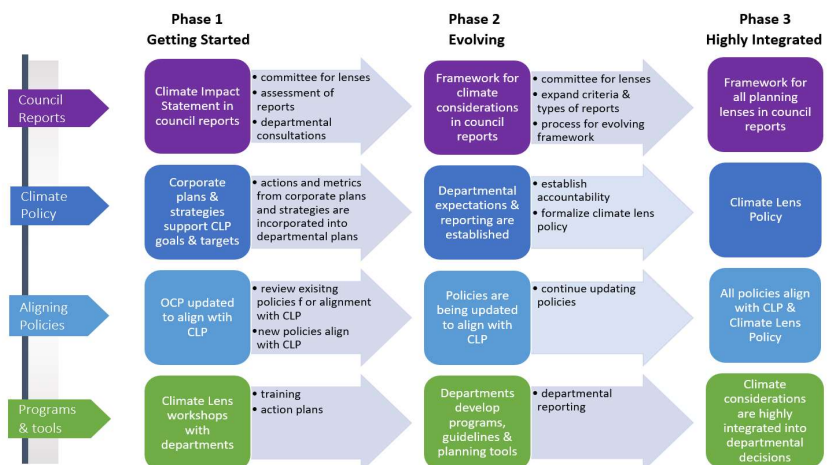
- Developing the Corporate Climate Change Adaptation Plan:
 - Will identify departmental adaptation actions
 - Anticipated roll-out in early 2021 in advance of 2022 budget
- Community Chapter of the Adaptation Plan
 - Planning to engage a working group of community stakeholders in 2021 to complete a community risk assessment and facilitate community lead adaptation initiatives
 - Ongoing support from ICLEI Canada (1/2 FTE)



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Climate Lens



CLIMATE LENS IMPLEMENTATION ROADMAP



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Financial Plan Impacts

- The Climate Action Program budget for 2021 has been submitted as part of the 2021 base Financial Plan
 - Oil to heat pump program funds (\$300,000 deferred) will be brought back to council for consideration
- Leveraging Provincial and Federal funding
 - Climate Action Grant Writer and Project Coordinator hired in 2020 to support the CAP in pursuing external funding and leverage the City's investments in climate action
- Additional financial planning/strategy development underway to define the long-term Climate Action funding levels needed to support the overall Climate Leadership Program.



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Future Council Updates

Late 2020	Zero Waste Victoria
Early 2021	Corporate Energy & Emissions Management Plan Corporate Climate Change Adaptation Plan City of Victoria EV Strategy Climate Lens (interim update)
Mid 2021	Climate Action Long-term Funding Considerations Community Adaptation Town Hall Step Code Low Carbon Pathway
Late 2021	Revised edition of the CLP Climate Action Strategy Recommendations for 2022



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Recommendations

That Council:

1. Receive the 2020 CLP Progress Report for information and direct staff to provide Progress Reports every 2 year
2. Direct staff to continue implementing climate action initiatives with an emphasis on priority actions
3. Support the CleanBC Communities grant application and commit the City's share of \$63,500 for the project
4. For any grants identified within the report, authorize the City entering into a shared cost agreement



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Recommendations

And that Council continue to advocate :

5. the Province, CRD, BC Hydro, and other key stakeholders to designate Building Energy and Efficiency Retrofits as a regional infrastructure priority
6. the Province to amend the Community Charter to give BC municipalities independent authority to manage issues of climate change



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