

CLIMATE LEADERSHIP



CLIMATE IMPERATIVE

- Human activity has produced CO₂ at an intensity beyond what the earth's natural systems can absorb
- In 2017 atmospheric carbon dioxide (CO₂) exceeded 400 ppm
- UN IPCC states atmospheric GHGs must stay below 445 to 490 ppm to ensure mean global temperature rise stays below 2.0 °C
- Unmitigated temperature rise will result in catastrophic climate impacts
 - weather changes, sea level rise, increased storm severity and frequency, and severe global ecosystem decline
- **Bold and urgent action must be taken to reduce the risks of climate change and to prepare for the unavoidable impacts**



BACKGROUND

- Council passed motion on August 18, 2016:

“Establish a long-term Green House Gas (GHG) Reduction target for both corporate and community emissions consistent with global reduction goals of 80% GHG reduction and by 2050, including a corresponding target of 100% renewable energy.”

- Directed staff to take several steps, including:
 - Development of an action plan based on our existing work done to date, in support of meeting reduction targets



Title: Ice skaters, Beacon Hill Park, Victoria.

CLIMATE LEADERSHIP PLAN

Vision and Targets

Vision

Low Carbon Prosperity

2050 Victoria is “a vibrant, healthy, and prosperous community, fueled by renewable low-carbon energy systems, designed and integrated in such a way to promote the highest quality of life for all Victorians.”

Mission

To **lead our transition** to a low-carbon, prosperous future. To inspire our community's shift to sustainable, renewable transportation, waste and building systems.

City of Victoria's Climate Action targets:

- 80% GHG reduction from a fixed baseline 2007 by 2050
- 100% renewable energy by 2050

KEY PRINCIPLES

1. Lead and inspire
2. Harmonize climate and other co-benefits
3. Energy is visible
4. All Victorians are accountable
5. Renewable energy for all
6. Smarter energy choices are easier
7. Climate resilience is developed early
8. Think globally, change locally, partner regionally



GOALS, TARGETS, STRATEGIES AND ACTIONS

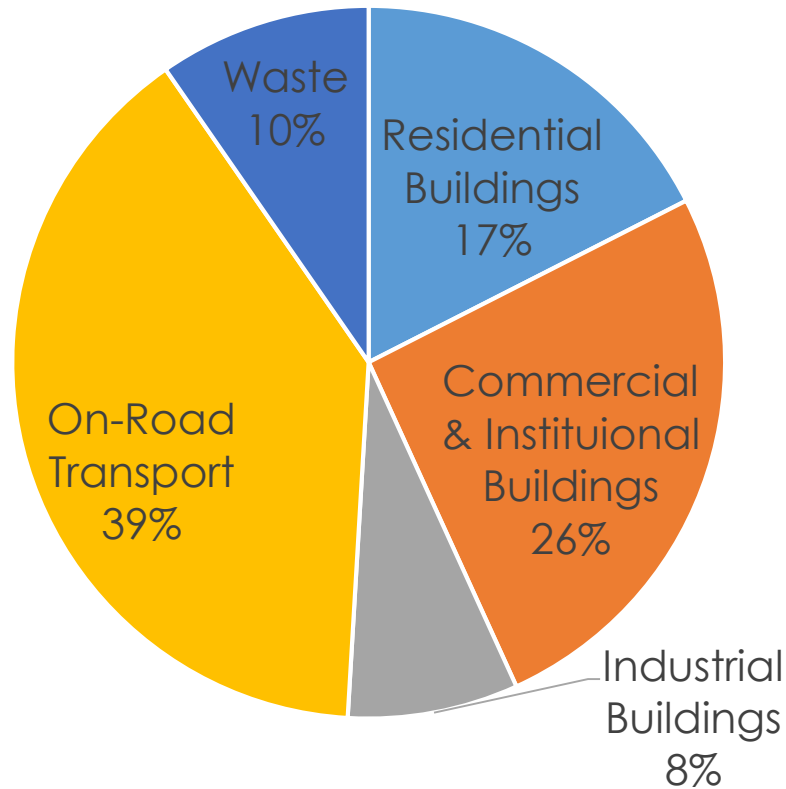
- **Goals** for buildings, transportation, waste, adaptation and municipal leadership/operations
- **Targets** for each sector that are time based / quantifiable
- All targets and actions act to (4 Climate Rs):
 - **Reduce** energy,
 - **Replace** fossil fuels with renewable fuel,
 - **Redesign** systems to be more sustainable,
 - or add **Resiliency** to systems to protect against a changing climate
- **Strategies and Actions:**
 - Key strategies, actions and initiatives are contained in the CLP, and we are beginning to progress them in 2018



City Climate Goals

Sector	City Climate Goals
Low Carbon, High Performance Buildings	<ul style="list-style-type: none"> Buildings are highly energy efficient, using only a small fraction of their 2017 operational energy needs Buildings are powered by renewable energy
Low Carbon Mobility	<ul style="list-style-type: none"> Vehicles are powered by renewable energy Victorians enjoy a high-performing, affordable, sustainable, and fully integrated multi-modal transportation system Transportation emissions are minimized through smart land-use planning that optimises urban mobility and quality of life
Low Carbon Waste Systems	<ul style="list-style-type: none"> All residual organic materials are reduced, recovered, and reused Systems are in place to optimise the continual use and reuse of materials, to eliminate landfill waste and their related greenhouse gases
Adaptation	<ul style="list-style-type: none"> All climate-related risks are minimized through early and wise planning and action Local, natural habitats flourish in a changing climate Victorians are prepared for all climate related events and emergencies
Low Carbon Municipal (City) Operations Leadership	<ul style="list-style-type: none"> The City is a recognized leader in climate mitigation and adaptation City climate action is informed by a full understanding of through-life social, environmental, and economic costs, risks and benefits Victorians have access to timely and accurate data to support strong climate mitigation and adaptation actions Climate action is integrated across City programs

Baseline – Emissions by Sector



TARGETS - Buildings

- By 2030, all new buildings are “net zero energy ready”
- Before 2050, all existing buildings are retrofitted to new energy efficiency standards (TBD)
- By 2030, oil heating is phased-out
- Before 2050, all buildings will use only renewable energy



Jawl Properties and D'Ambrosio Architecture + Urbanism



Bernhardt Contracting

TARGETS – Transportation and Mobility



Victoria News



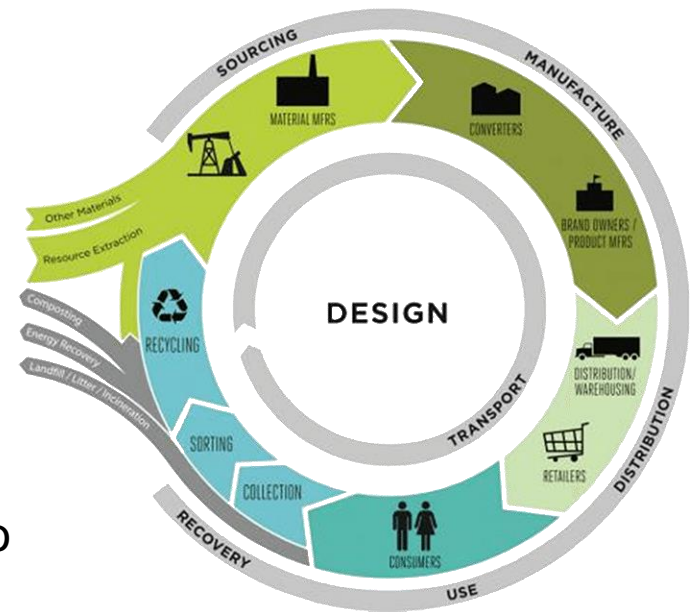
Chateau Victoria Hotel & Suites



- By 2050, 100% of personal vehicles are renewably powered
- By 2030, 30% of commercial vehicles are renewably powered
- By 2050, 25% of all trips in Victoria are taken by renewably powered public transit
- By 2041, 55% of all trips are taken by walking and cycling
- By 2041, 100% of neighbourhoods are complete by design

TARGETS – Waste Management

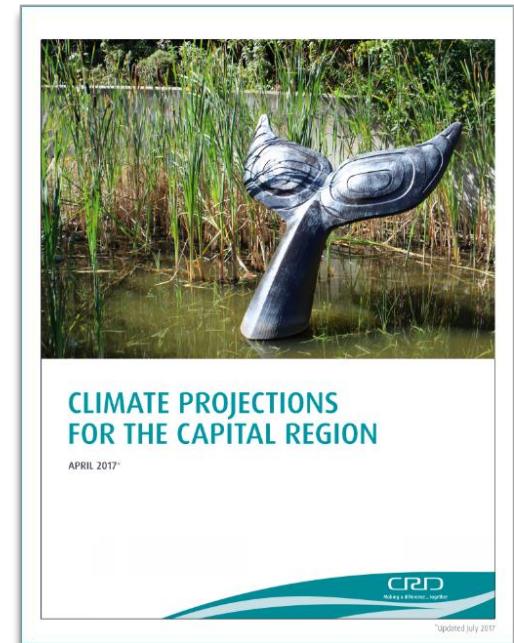
- Achieve 100% residential organic waste (food and yard) diversion by 2022
- Partner with local business to divert 90% of commercial organic food waste by 2025
- Partner with the CRD to deliver a regional, industrial composting facility for City organic waste by 2025
- 100% of the GHGs from collected organic food and garden waste collection is transformed into renewable natural gas, by 2025
- Ensure less than 5% of local residual materials reach the landfill by 2050



Source: ecorglobal.com

TARGETS – Adaptation

- The City's assets and services are ready to protect and respond to the risks associated with a changing climate
- Risks, vulnerabilities, and resiliency are measured, monitored, and reported
- Natural habitats flourish in a changing climate.
- The community is knowledgeable and prepared to address the impacts from a changing climate
- Adaptation efforts are shared across the economy and support overall sustainability



TARGETS – City Leadership & Municipal Operations

- All City's facilities are renewably powered by 2040
- All new facilities are renewably powered
- 80% of Fleet is electrified or renewably powered by 2040
- All power tools and small equipment is electrified or renewably powered by 2025
- By 2020, the City uses a triple bottom line accounting system for all business planning
- By 2022, all relevant City plans and policies address GHG emissions reductions and climate risks
- By 2030, City has completed Genuine Progress Indicator Assessment and uses this information to set a GPI goal for 2050



NEXT STEPS

- Rigorous and comprehensive **review process**
- Community **engagement**
- Staff will **present final plan** to Council in **June**



What you can do!

- Check out the **full Climate Leadership Plan** at www.victoria.ca/climateaction
- **Send feedback** on the draft CLP to engage@victoria.ca
- **Share** this draft with your community

THANK YOU

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