



# Corporate Energy & Emissions Management Plan

Committee of the Whole  
Sept 02, 2021



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## Purpose

The purpose of this report is to request Council adopt the directions outlined in the Corporate Energy and Emissions Management Plan.

This presentation will provide an overview of:

- City's climate leadership goals
- Emissions reductions modelling
- Key measures
- Energy and emissions management



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# Climate Leadership Plan

## Municipal Operations

### Targets



#### GOAL 1:

The City is a recognized leader in climate mitigation and adaptation action.

#### TARGETS:

By 2040, all City facilities are powered 100 percent by renewable energy.

All new City facilities are renewably powered.

By 2025, all City power tools and small engine-driven equipment are renewably powered.

By 2040, 80 percent of the City fleet is electrified or renewably powered.

**Interim Target:**  
Cut City of Victoria's corporate emissions by 60% by 2030

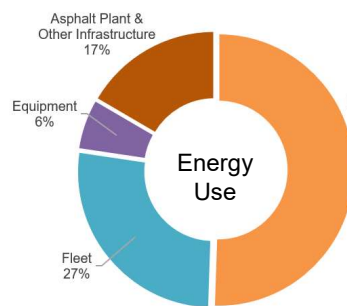


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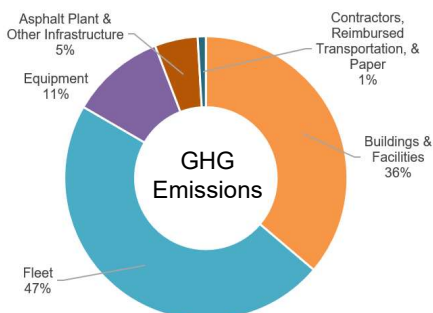
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# Municipal Operations

## City of Victoria Energy and GHG Breakdowns by Sector



Buildings & Facilities  
50%



Contractors, Reimbursed Transportation, & Paper  
1%

Buildings & Facilities  
36%

Asphalt Plant & Other Infrastructure  
5%

Equipment  
11%

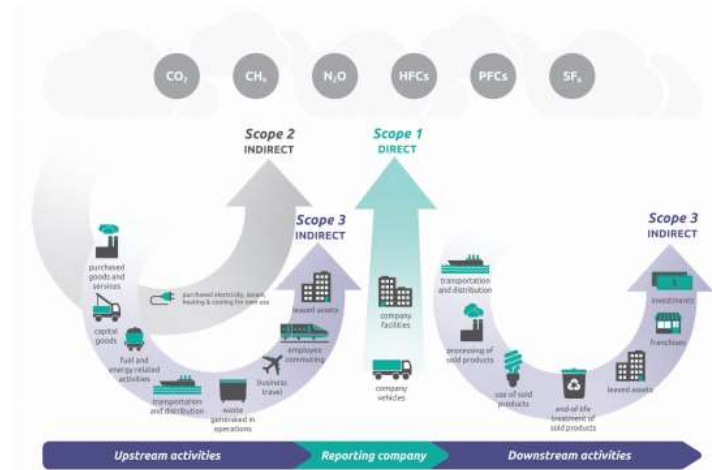
Fleet  
47%



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# Municipal Operations



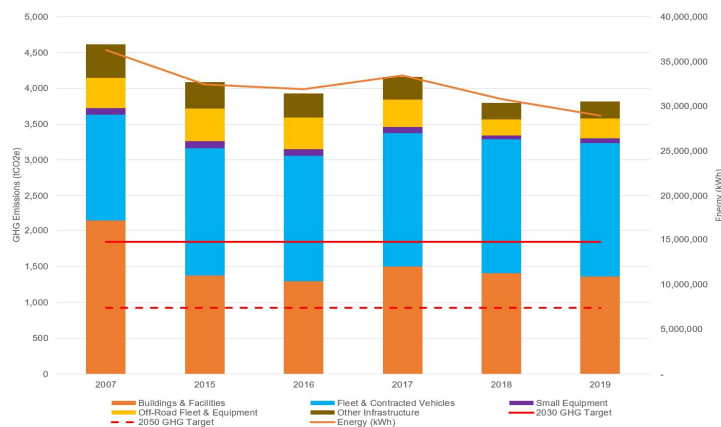
Source: World Resources Institute (2011).<sup>11</sup>



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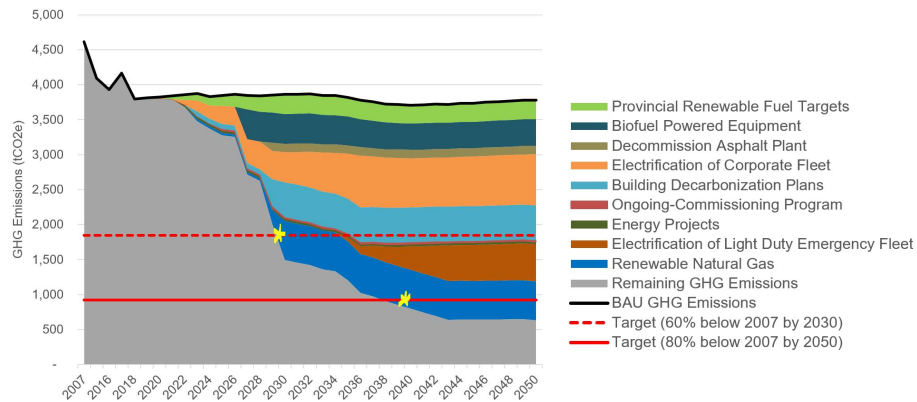
# Municipal Operations



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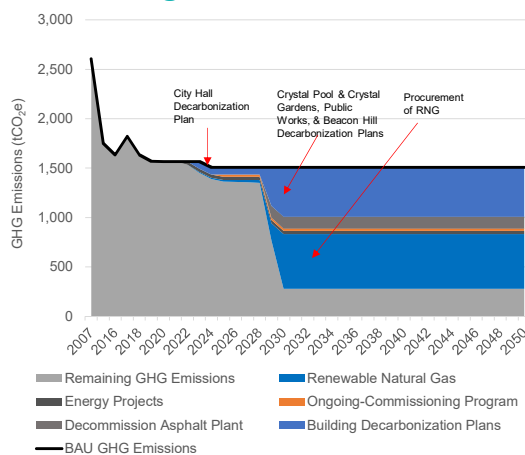
## Forecasted GHG Reductions



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## Forecasted GHG Reductions

### Buildings & Facilities



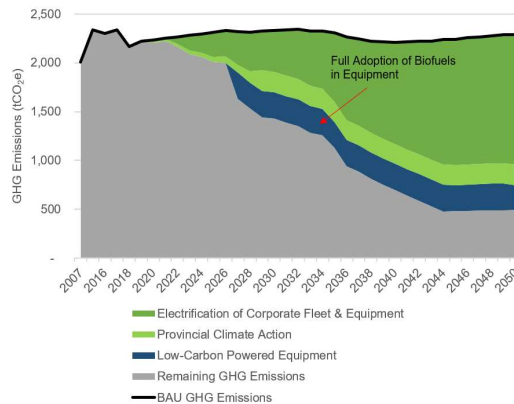
### Key Measures:

- Decarbonize:
  - Centennial Arcade
  - City Hall
  - Crystal Garden
  - Public Works Buildings
  - Beacon Hill
- Replace Crystal Pool with low carbon facility
- Implement energy conservation projects and ongoing building commissioning program
- Offset remainder of natural gas emissions through purchase of renewable natural gas (RNG)

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# Forecasted GHG Reductions

## Fleet & Equipment



### Key Measures:

- Develop Green Fleet Plan:
  - Reduce fleet size by 10% by eliminating under-utilized vehicles
  - Accelerate the adoption of electric vehicles
  - Establish programs to facilitate more accountability of fuel consumption within individual fleet user groups
- Convert all equipment to biofuels

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# Corporate Leadership

CEEMP recommends additional Corporate Leadership Initiatives such as:

- Incorporating departmental carbon allocations into the annual budgeting process
- Implementing an internal shadow price on carbon

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## Risks

**Technology** – Not all the technology required is yet available to purchase and/or capable of meeting the City's operational requirements.

**Cost** – While operational cost savings can be achieved, some strategies can be capital or resource intensive, requiring additional infrastructure planning and management.

**Competing Priorities** – GHG emission reduction targets are set at a corporate level, while financial planning is department based. Without a strong connection between financial planning and GHG targets, there is a risk of investments being made that mean a target is missed or is more costly to reach.



## Energy & Emissions Management

### CEEMP Accountability – Key Groups

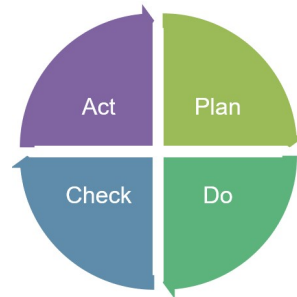
	Members	Roles and Responsibilities
Council		Receives CEEMP annual reports and approves CEEMP budget items as part of annual Financial Plan
CEEMP Steering Committee	Includes Senior Leadership from Finance, Parks & Facilities, Fire, Police and Engineering/PW Depts.	Based on CEEMP, sets annual departmental carbon allocations, reviews annual reports and approves CEEMP budget requests for insertion into draft Financial Plan.
CEEMP Advisory Group	Environmental Sustainability Coordinator and SMEs from Fleet, Facilities, Finance and Procurement	Generates annual departmental carbon emissions reports. Supports the Steering Committee and Departmental CEEMP teams implement carbon allocations. Supports CEEMP project prioritization.
Departmental CEEMP Teams	Departmental Managers and ADs, and their Finance team supports	Receives annual carbon budget, allocates carbon budget across departmental BUs for Parks & Facilities, Fire, Police and Engineering/PW. Generates and implements annual CEEMP project list in alignment with carbon budget.



# Energy & Emissions Management

Energy and emissions management is an ongoing process:

- GHG emissions updated with any new/changing information
- Targets continue to evolve with any new/changing information
- CEEMP steering committee and advisory group to work with departments to achieve emissions reduction targets



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## Next Steps

- Complete Green Fleet Plan (2021) and proposed Facilities Investment Plan (2022) and identify resource implications of reaching 2030 corporate GHG reduction target
- Initiate CEEMP Steering Committee and CEEMP Advisory Group
- CEEMP Steering Committee leads the implementation of the key measures identified within CEEMP including:
  - Trialing the new GHG allocation process in 2022 financial planning
- CEEMP Advisory Group annually tracks corporate GHG emissions and together with the department teams, implements measures to reduce corporate GHG emissions.



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## Recommendations

That Council:

- a) Adopt the directions as outlined in the *City of Victoria Corporate Energy and Emissions Management Plan (Appendix A)* to support implementation of the Climate Leadership Plan.
- b) Request that the Police Board endorse the targets and actions identified in the Municipal Operations section of the City's Climate Leadership Plan.
- c) Request that the Police Board adopt the directions outlined in the *City of Victoria Corporate Energy and Emissions Management Plan (Appendix A)* to support implementation of the Climate Leadership Plan.



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