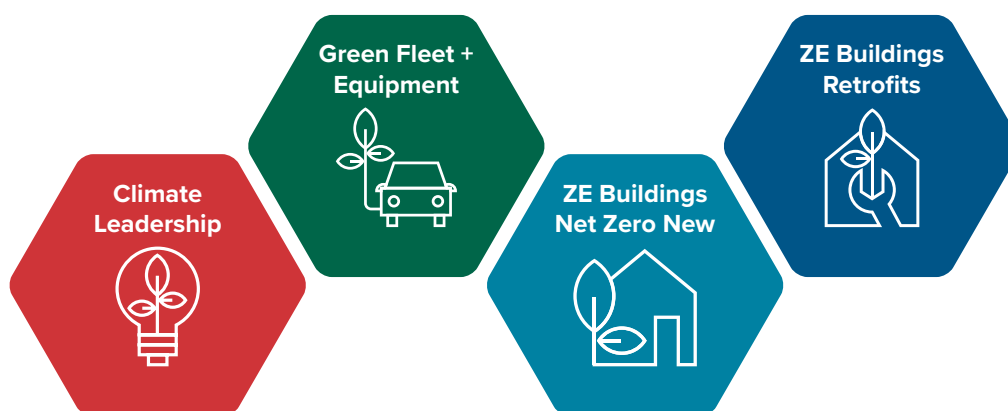


BURNABY CITY ENERGY STRATEGY

Progress Report 2024

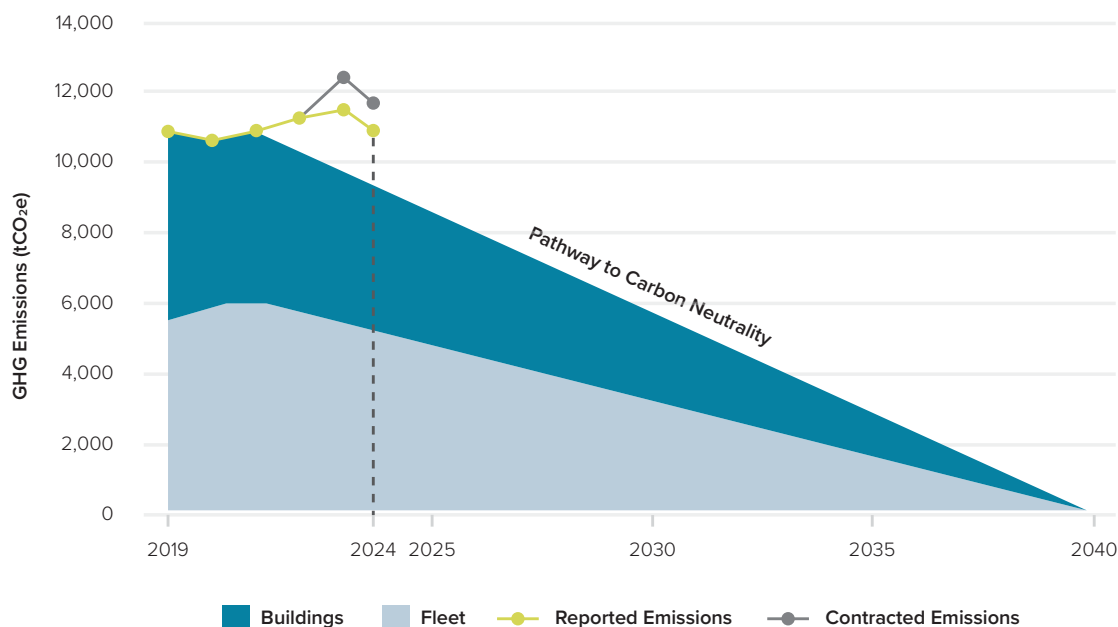
In 2020, Council adopted the City Energy Strategy, committing the City to reaching carbon neutrality for greenhouse gas (GHG) emissions from traditional services¹ by 2040.

The City Energy Strategy revolves around four primary areas of transition that are referred to as “Big Moves,” targeting two main sources of GHG emissions: buildings and fleet. Each Big Move is supported by “Quick Start” actions.



Each year, the City tracks emissions from the delivery of traditional services, which include emissions from City-owned buildings, vehicles and emissions from contractors hired by the City to deliver traditional services. This report summarizes the efforts and progress made towards the City’s pathway to carbon neutrality in 2024.

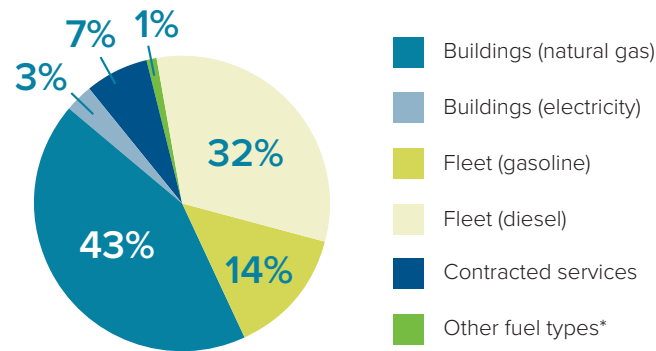
Inventory of traditional services emissions: Pathway to carbon neutrality



¹ Emissions for traditional services were formerly called corporate emissions. This terminology was changed by the Province of BC at the request of Modern Treaty Nations and local governments during engagement sessions. Traditional services include emissions for: fire protection, solid waste management, recreational and cultural services, road and traffic operations, water and wastewater management, and government administration.

In 2024, the City saw a 6% decrease in emissions from the services delivered directly by the City, amounting to 10,779 tCO₂e², compared to the previous year. As in previous years, emissions from buildings using natural gas and fleet fuel (gasoline and diesel) accounted for most of the City’s emissions. In 2023, the City began recording and reporting on contracted emissions, or emissions associated with the delivery of traditional services done by contractors hired by the City. These contracted emission are shown in the inventory above for 2023 and 2024.

Traditional services emissions by source (2024)



² tCO₂e is tonnes of carbon dioxide equivalent, the unit for counting GHG emissions—carbon or otherwise—standardized based on the equivalent global warming impact as 1 metric tonne of carbon dioxide.

* other fuel types include: propane, light fuel oil and renewable natural gas.

City Energy Strategy Implementation Highlights for 2024



Launching the City’s first electric garbage truck and 3 Compressed Natural Gas (CNG) garbage trucks to reduce fleet-related GHG emissions.



Launching a Climate Literacy Program with Learning Services to engage staff on climate action.



Purchasing 60 electric golf carts and 8 Electric Vehicles (EVs).



Organizing a series of watershed tours to engage elected officials and staff on watersheds and water supply in the face of climate change.



Installing more EV chargers for the City fleet, bringing the total EV chargers for City fleet charging to 269 stations.



Applying a climate resilience and adaptation lens to strategic plans and decision-making processes, including the update of the Official Community Plan and new infrastructure considerations.

Climate Leadership

ACTIONS	COMPLETION DATE	STATUS
1 Strengthen climate action administration	ONGOING	 ON TRACK
2 Support climate leadership projects	ONGOING	 ON TRACK
3 Provide EV charging at City facilities	ONGOING	 ON TRACK
4 Accelerate virtual technology development and innovation to facilitate remote work and collaboration opportunities.	ONGOING	 ON TRACK
5 Engage staff in climate commitments	ONGOING	 ON TRACK

Zero-Emission Vehicles: Green Fleet and Equipment

ACTIONS	COMPLETION DATE	STATUS
1 Upgrade fuelling infrastructure	2026	 ON TRACK
2 Transition vehicles and equipment	2040	 UNDERWAY*
3 Evaluate fleet decarbonization options for critical fleet infrastructure (e.g. emergency response vehicles)	2024	 UNDERWAY
4 Efficiently administer and operate Burnaby's fleet(s)	ONGOING	 ON TRACK

* Vehicle purchase approved by Council and on order. Delays are due to lack of suitable technology and availability of vehicles.

Zero-Emission Buildings–Net Zero New

ACTIONS	COMPLETION DATE	STATUS
1 Advance zero-emission new buildings as the default for new and replacement civic facilities	ONGOING	 UNDERWAY
2 Develop sustainable finance strategies to support zero-emission capital projects	ONGOING	 UNDERWAY
3 Minimize future demand for renewable natural gas (RNG) in new facilities, as the future supply is limited.	ONGOING	 UNDERWAY

Zero-Emission Buildings–Existing Facilities

ACTIONS	COMPLETION DATE	STATUS
1 Continue strategic energy management	ONGOING	 ON TRACK
2 Develop and implement an electrification strategy	ONGOING	 ON TRACK
3 Work with utilities and other levels of government to deliver zero-emission retrofits for existing facilities	ONGOING	 ON TRACK
4 Prioritize future demand for renewable natural gas for hard-to-retrofit facilities	ONGOING	 ON TRACK

The City will continue to include GHG emission reduction and climate resilience into the City's decision-making processes. Some actions underway include:

- » continuing to collect precipitation data across the city to track changes to patterns of precipitation and flow in the creeks
- » continuing to deliver energy efficiency upgrades and retrofits to civic buildings
- » continuing to implement a flood warning program in Still Creek in order to tackle more frequent flood issues in the area due to the changing climate
- » undertaking capacity analysis for stormwater infrastructure in selected neighbourhoods
- » applying climate-informed land-use planning policies in the Fraser River and Still Creek areas (e.g. requiring higher construction levels in flood-prone areas)