

ENVIRONMENT COMMITTEE

TO: *MAYOR AND COUNCILLORS*

SUBJECT: **CITY ENERGY STRATEGY PROGRESS REPORT 2023**

RECOMMENDATION:

THAT the report titled “City Energy Strategy Progress Report 2023” dated June 19, 2024, be received for information.

REPORT

The Environment Committee, at its meeting held on June 19, 2024 received and adopted the *attached* report providing a summary of the progress made in 2023 to advance the Burnaby City Energy Strategy.

On behalf of the Environment
Committee,

Councillor J. Keithley
Chair

Councillor M. Santiago
Vice Chair

TO: ENVIRONMENT COMMITTEE (EC)
FROM: GENERAL MANAGER PLANNING AND DEVELOPMENT
SUBJECT: **CITY ENERGY STRATEGY PROGRESS REPORT 2023**
PURPOSE: To inform Environment Committee and Council of the progress made in 2023 to advance the Burnaby City Energy Strategy.

RECOMMENDATION

THAT the report titled “City Energy Strategy Progress Report 2023” dated June 19, 2024, be received for information.

1.0 POLICY SECTION

The City Energy Strategy Progress Report (2023) builds upon and aligns with the following policies:

- City Energy Strategy (2020)¹;
- Climate Action Framework (2020);
- Environmental Sustainability Strategy (2016);
- Community Energy and Emissions Plan (2016);
- Corporate Strategic Plan (2022); and,
- Official Community Plan (1998).

2.0 BACKGROUND

On 2023 February 15, Environment Committee received the first City Energy Strategy Progress Report highlighting the work completed to reduce emissions from traditional services² (formerly called corporate emissions) between 2020 and 2022.

The purpose of this report is to provide Environment Committee an update on the progress made by the City to advance the Big Moves and Quick Starts identified in the city operations-oriented City Energy Strategy. The City Energy Strategy Progress Report 2023 is enclosed as Appendix A.

¹ <https://pub-burnaby.escribemeetings.com/filestream.ashx?DocumentId=47478>

² Emissions for traditional services were formerly called *corporate emissions*. This terminology change by the Province of BC is 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.

3.0 GENERAL INFORMATION

The City of Burnaby's City Energy Strategy guides the energy transition within City operations and paves the path to achieve carbon neutrality for the delivery of traditional municipal services by 2040. The Strategy places emphasis on building and fleet as these two sectors present the most significant emissions reduction opportunities.

Since the declaration of a climate emergency in 2019 and the subsequent adoption of the City Energy Strategy in 2020, the City's emissions from traditional services have experienced a gradual increase. In 2023, the City recorded a 1.7% increase in emissions from the previous year, which set the City further from the modelled pathway to carbon neutrality by 2040. This emissions increase can be attributed to an increase in diesel and propane use in city buildings and the fleet. At the same time, the proposed improvements to green the fleet and retrofit City buildings have not been implemented yet.

Natural gas use from buildings and diesel use from heavy-duty fleet vehicles continue to be the two largest sources of the City's operational GHG emissions. As the City continues to expand services for our growing and changing population, more cross-departmental collaboration will be needed to ensure we continue to improve efficiency and decarbonize our buildings and fleet.

The recently completed Green Fleet Action Plan maps out the incremental replacement of the City's vehicle fleet from internal combustion engines to lower-emission vehicles (EV for light-duty vehicles and Compressed Natural Gas or other sources for heavy-duty vehicles) between now and 2040. In 2023, the addition of new light duty EVs, electrification of small to medium equipment, together with pilot projects on electric and CNG garbage trucks marks a significant advancement that will result in reducing fleet-related emissions in coming years.

The continued implementation of high-efficiency and/or low-carbon heating and cooling system upgrades through the existing building portfolio will contribute to future decreases in operational GHG emissions. At the same time, new City facilities are being designed to be high-efficiency and, where possible, low- or zero-carbon to reduce operational emissions from facilities they are replacing, and to keep operational emissions low while growing City services. Quick Starts in each of the Big Move will be reviewed to ensure our path to carbon neutrality is continuous and adaptive.

4.0 COMMUNICATION AND COMMUNITY ENGAGEMENT

Highlights contained in this report will be updated on the City Energy Strategy web pages.

5.0 FINANCIAL CONSIDERATIONS

The financial considerations associated with the delivery of the City Energy Strategy are addressed through the budget process and individual project approval processes.

Respectfully submitted,
E.W. Kozak, General Manager Planning and Development

ATTACHMENTS

Attachment 1 – City Energy Strategy Progress Report 2023

REPORT CONTRIBUTORS

This report was prepared by Joanna Cheng and Christine Ensing, Climate Action and Energy Officers, and reviewed by Erica Lay, Manager Climate Action and Energy; Johannes Schumann, Director Community Planning; May Phang, General Manager Engineering; Carmen Gonzalez, Deputy General Manager Parks Recreation and Culture; James Lota, General Manager Lands and Facilities; and Lee-Ann Garnett, Deputy General Manager Planning and Development.