

G-121: Electric Vehicle Infrastructure

Attachment D

Category: High Quality Built & Natural Environment

Status: New

Department: Finance & Asset Management

Location: City Hall, Bellevue Service Center (BSC)

Programmed Expenditures

<u>Programmed Expenditures</u>	<u>Appropriated To Date</u>	<u>FY 2023 Budget</u>	<u>FY 2024 Budget</u>	<u>FY 2025 Budget</u>	<u>FY 2026 Budget</u>	<u>FY 2027 Budget</u>	<u>FY 2028 Budget</u>	<u>FY 2029 Budget</u>
3,479,211	-	-	1,506,898	1,972,313	-	-	-	-

Description and Scope

- Upgrade electrical service equipment related to charging stations at both City Hall and BSC.
- City Hall - Install 46 shared charging stations across employee garage and police garage, and to install 6 fast charging stations.
- BSC - Install 56 dedicated charging stations and 4 fast charging stations.

Rationale

Fleet electrification has the largest performance delta in the Environmental Stewardship Plan. Only 3% of the fleet vehicles are electric, which means that 47% of light-duty vehicles need to be electrified by 2030 to meet sustainability targets. The Bellevue Green Fleet Strategy evaluated building infrastructure and light-duty fleet composition to formalize recommendations for meeting the city's light-duty fleet electrification targets. The electrical panels at City Hall and BSC have reached the maximum amount of electrical load and cannot support additional EV charging stations, which prevents the city from purchasing EVs to meet the city's light-duty fleet electrification targets. This proposal will provide the funding necessary for the city to get on track to achieve Council's goals and reduce our reliance on fluctuating costs associated with fossil fuels.

Environmental Impacts

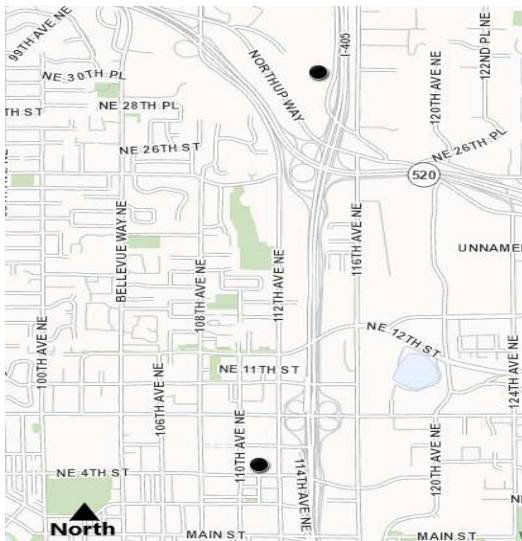
Fleet vehicles are responsible for 23% of greenhouse gas emissions in the municipal inventory and fossil fuel use is increasing by an average of 54 metric tons of CO2e per year. This is the only metric in the Environmental Stewardship Plan that has continuously increased since 2011. This proposal will help the city achieve Council's goals to reduce emissions by 50% by 2030. Installing electric vehicle service equipment is essential to achieving light-duty fleet electrification targets and mitigating greenhouse gas emissions.

Operating Budget Impacts

This proposal includes staff time needed to develop a fleet charging program and general management of electric vehicle charging stations. The Bellevue Green Fleet Strategy estimates that electric vehicles require 50% less maintenance than gas-powered vehicles, so it is expected that costs will eventually go down as we transition to an electric vehicle economy.

The Washington State Clean Fuel Standard for Bellevue is estimated at \$20,500 - \$104,000 per year, which will help to offset the cost of electricity. It will go into effect by January 2023, which will enable owners of EV charging infrastructure to claim and receive credits as revenue by supplying electricity as a clean fuel in place of gas and/or diesel.

Project Map



Schedule of Activities

<u>Project Activities</u>	<u>From - To</u>	<u>Amount</u>
Project Costs	Ongoing	3,479,211

Total Budgetary Cost Estimate: 3,479,211

Means of Financing

<u>Funding Source</u>	<u>Amount</u>
Misc revenue	3,479,211

Total Programmed Funding: 3,479,211

Future Funding Requirements: -

FY2023-2029

Comments