

Design & Construction Authorization Request:

Phase 1 Waterfront Fleet EV Charging (C801248)

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Action Requested

Request Commission Authorization from the Executive Director to:

1. Authorize funding to complete design and permitting;
2. Advertise, award, and execute owner-furnished equipment contract;
3. Authorize use of Port of Seattle crews and small works contracts to support the design development and construction execution.

This request is for \$5,000,000 of a total estimated cost of \$5,300,000.

Project Drivers

- Northwest Ports Clean Air Strategy:
 - By 2030: Adopt zero-emission vehicles or use renewable fuels for passenger fleets
 - By 2050: adopt zero-emissions vehicles, equipment, and vessel fleets
- Achieve Port Scope 1&2 GHG Reduction targets: 50% below 2005 by 2030; Net Zero by 2040
 - Near-term action within Maritime Climate and Action Plan (MCAAP) & recommendation of 2021 Sustainable Fleet Plan
- RCW 70a.30.010 New Zero Emission Vehicle Requirements



Project Background

Current State of Maritime Fleet

- 200 vehicle and equipment assets in the maritime fleet
- Current fuel use (2023):
 - Gasoline: 54,535 gallons
 - Renewable diesel: 18,140 gallons
 - Regular Diesel: 1,342 gallons (only use when fuel purchased offsite)
 - 9 EVs in fleet

Assets planned for electrification:

- **By 2030:** 106 light-duty assets (class 1-4, e.g. sedans, SUVs, vans, light trucks); 16 heavy-duty assets (forklifts, boats, hoists, personnel lifts)
- **By 2040:** Additional 15 equipment assets
- Excluded assets without known EV replacement and smaller equipment



Project Scope

- Scope of Work: Design, permitting, construction (demolition, trenching, conduit run, paving, wiring), equipment procurement (Up to 20 Level 2 and 2 Level 3 chargers)
- Project locations:
 1. N10372 Marine Maintenance South
 2. N10371 Marine Maintenance North
 3. N10373 Shilshole Bay Marina
 4. N10375 P66 apron
 5. N10376 P69 apron
 6. N10374 P66 garage
 7. N10377 Maritime Industrial Center

Project Cost

Cost Breakdown	This Request	Total Project
Design	\$300,000	\$600,000
EV Charging equipment procurement	\$1,200,000	\$1,200,000
Construction	\$3,500,000	\$3,500,000
Total	\$5,000,000	\$5,300,000

Project Timeline

Activity	Date
Design start	2023 Quarter 4
Design & Construction Authorization	6/25/2024
Equipment contract advertisement	2024 Quarter 3
Design complete	2024 Quarter 4
Construction start	2025 Quarter 1
In-use date	2026 Quarter 2

Questions?