

Seattle Waterfront & Maritime Electrification

Lizzy Kay, Sr. Project Manager, Seattle City Light

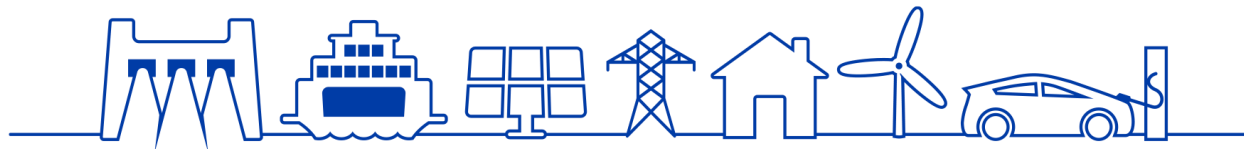
May 19, 2026



Seattle City Light

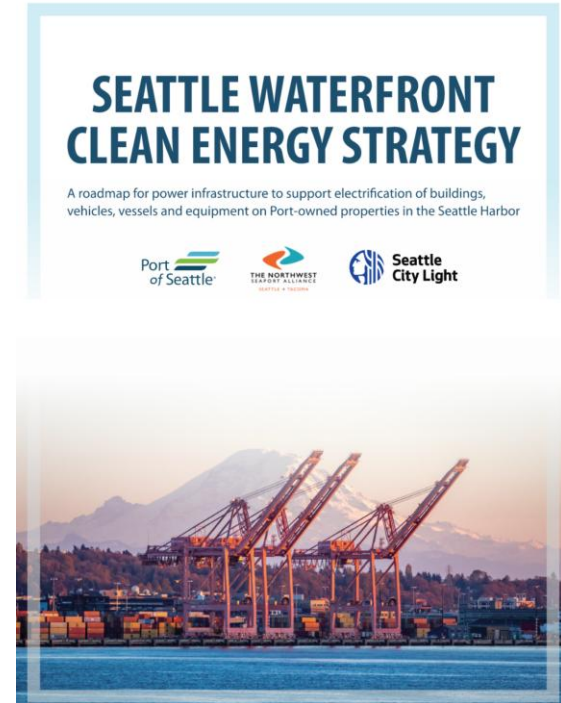
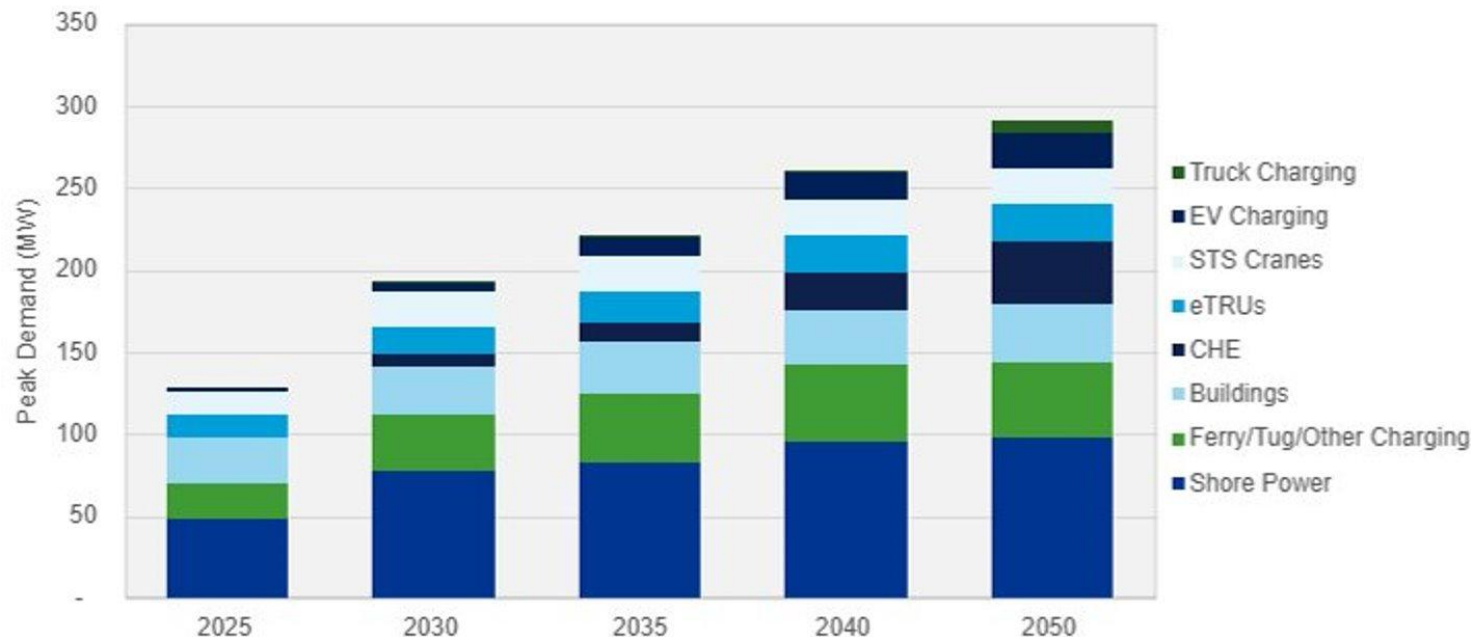
Agenda

- Seattle Waterfront Clean Energy Strategy
- Shore Power
- SCL's Maritime Transportation Electrification Program (MARTEP)
 - MARTEP Projects
- Questions and Comments



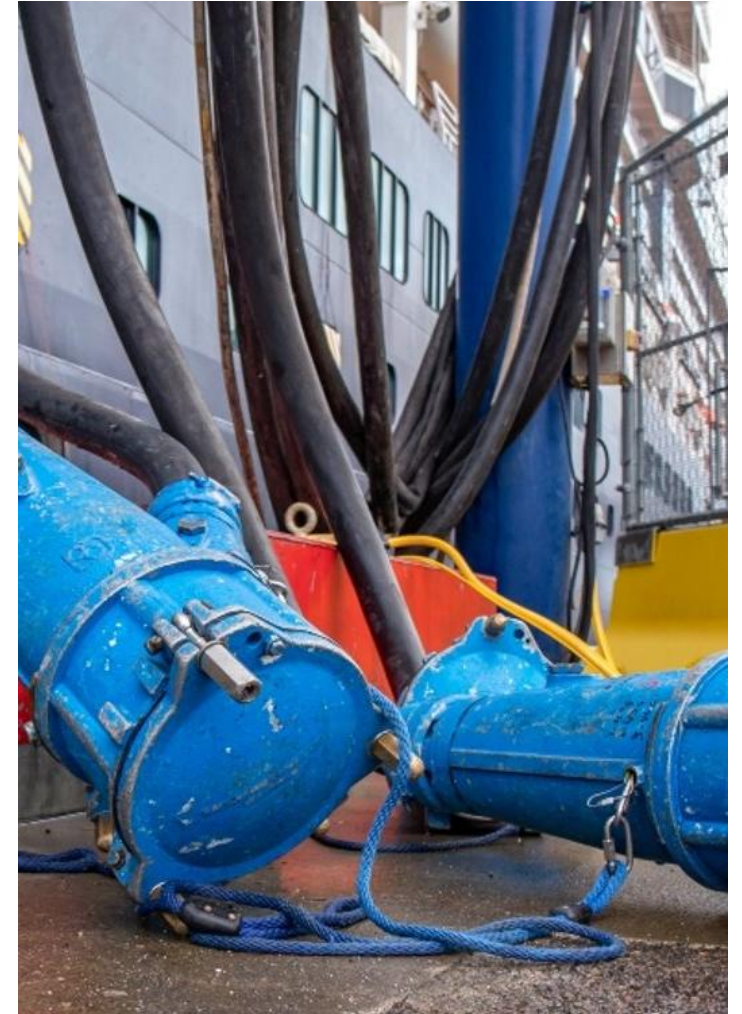
Clean Energy Strategy

- Port of Seattle, NW Seaport Alliance, City Light
- Joint infrastructure planning to support Electrification including shore power and the Port's growing power demand



Shore Power

- A shore power connection allows vessels to plug into electrical power on land and turn off diesel powered engines.
- Key driver of near-term power demand at the Port.
- Each cruise ship that plugs in can reduce diesel emissions by 80% and CO₂ emissions at berth by 66% on average.
- 25% of cruise ships total emissions in Puget Sound can be avoided by plugging into shore power at berth.
- Currently shore power available at Pier 66 and 90/91 for three cruise ships.
- Also used for cargo and other marine vessels



What is MARTEP?

Maritime Transportation Electrification Program (MARTEP)

- Initiated in 2021
- Builds large City Light Capital Improvement Projects
- Delivers infrastructure required to meet regulatory requirements, aspirational goals, and customer demand associated with electrifying Maritime Transportation
- Part of City Light's commitment to enabling transition from emission-based energy sources to clean energy for our customers



Pier 66 Shore Power

Total Port Budget is \$44M

City Light's Cost Share was \$3.6M for civil infrastructure on Terminal 46 for system and future MARTEP services

Service Agreement: 17 MVA, Intermittent

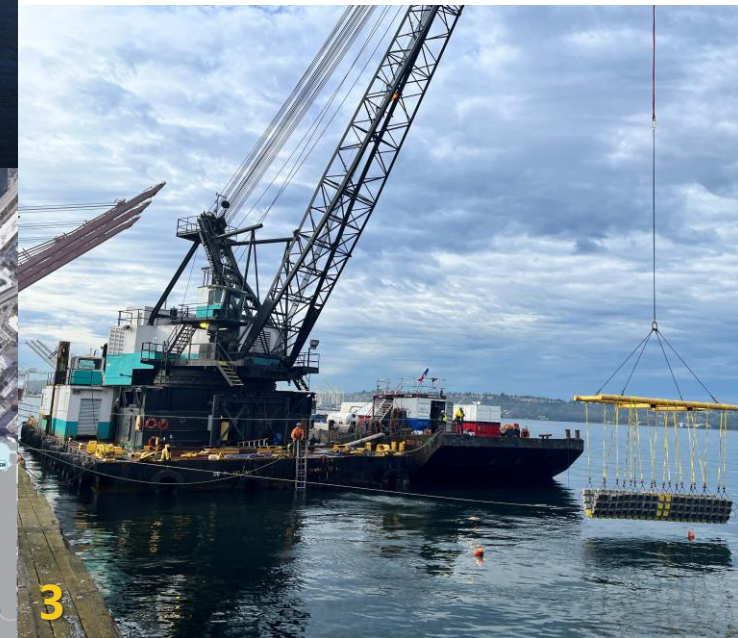
Two-year MOA with the Port for Design / Construction (Ordinance)

Operations Agreement with the Port for Life of Service



1. Jan 15, 2024: Submarine Cable lay
2. Overall Project Map
3. Jan 28, 2024: Articulated Concrete Mat placement near Terminal 46

Photos courtesy of Mark Longridge, Port of Seattle



WSF Seattle Terminal Electrification

- Washington State Ferries (WSF) will transition to **Hybrid Electric Ferries**
- Some civil infrastructure completed through P66 project.
- WSF will electrify **2 slips** at Seattle Terminal/Colman Dock for routes to Bainbridge and Bremerton
- Electrify slips 1 & 3 with **two new 15 MVA** services
 - Permanent service
- Five-year MOA, future operations agreement
- Timeline:
 - May 2029: In-service date Slip 3
 - April 2030: In-service date Slip 1
- Future: Fauntleroy to Vashon / Southworth



Future MARTEP Work

U.S. Coast Guard Base
Seattle Upgrades – Shore
Power for Polar Cutters

Kitsap Transit Fast Ferry

King County Marine
Division Water Taxi



Seattle City Light



Questions



Seattle City Light

