

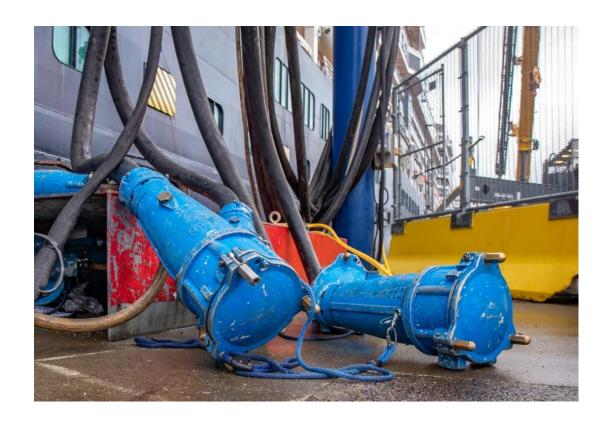
# Agenda

- 1. Shore Power Overview
- Pier 66 Project Goals & Overview
- 3. MOA with Port of Seattle & City Light
- 4. Purpose of Ordinance



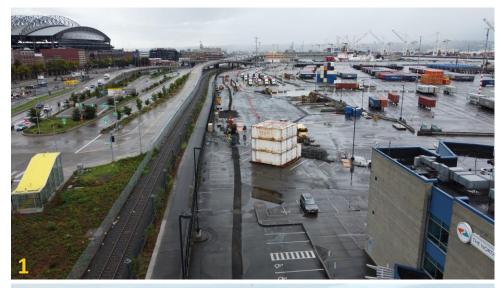
#### What is Shore Power?

- A shore power connection allows cruise ships to plug into cleaner, electrical power on land and turn off diesel powered engines.
- Each 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 91 for two cruise ships (installed in 2009).
- Shore power under construction at Terminal 5 (cargo).
- Planning for Terminals 48 & 18 (cargo).



### **Project Goals**

- 1. Reduce Carbon Emissions. Shore power enables cruise ships to turn off auxiliary diesel engines while at berth, resulting in overall reduction of annual emissions.
- 2. Promote Environmental Justice. Active reduction of emissions minimizes impacts to socially disadvantaged communities historically affected by poor environmental conditions.





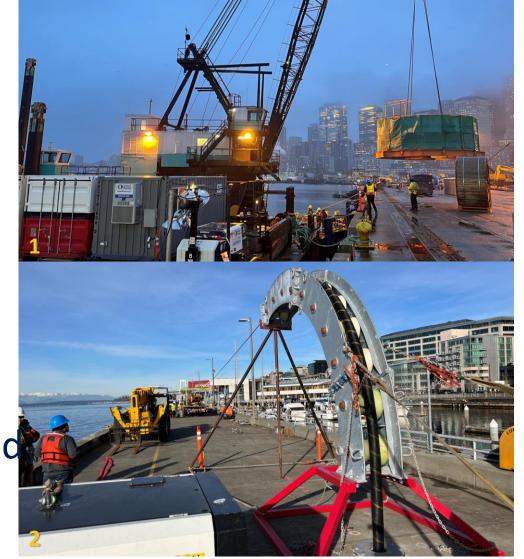
Sep 26, 2023: Ductbank alignment, looking south on Terminal 46
 Sep 13, 2023: Ductbank alignment looking west on Terminal 46
 Photos courtesy of Mark Longridge, Port of Seattle

References: PortofSeattle Pier66-ShorePower 2021 UpdatedMar2023.pdf (portseattle.org)



## **Project Goals**

- 3. Implement City Light's **Clean Energy Future Strategic Priority** 
  - Transportation Electrification Strategic Investment Plan
- 4. Support the Seattle Waterfront Clean Energy Strategy (SWCES), a partnership between City Light, the Port of Seattle, and Northwest Seaport Alliance (NWSA).



Jan 8, 2024: Submarine Cable Reel load onto barge at Terminal 46.
 Jan 15, 2024: Submarine Cable pull on Pier 66.
 Photos courtesy of Mark Longridge, Port of Seattle

References: PortofSeattle Pier66-ShorePower 2021 UpdatedMar2023.pdf (portseattle.org)



### Pier 66 Shore Power Project Overview

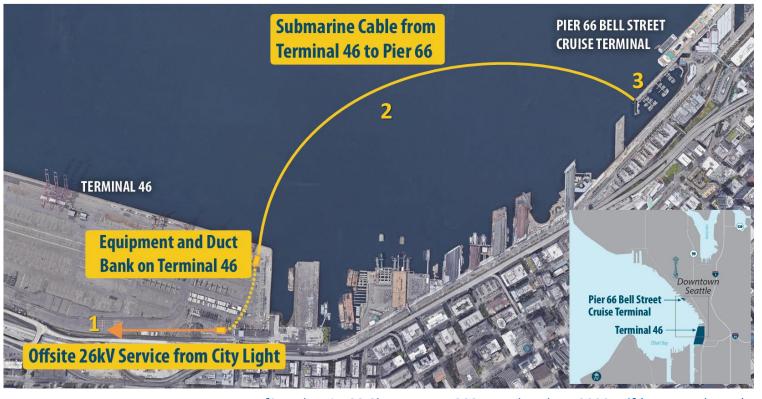
Part of City Light's Maritime
Transportation Electrification Program
(MARTEP)

#### **Segments:**

- Underground Ductbank on Terminal 46 for Service and System Extension
- 2. Submersible Cable from Terminal 46 to Pier 66
- 3. Pier 66 Shore Power Infrastructure

**Design:** 2019 – 2023

Construction: Aug 2023 to Q3 2024



From: PortofSeattle Pier66-ShorePower 2021 UpdatedMar2023.pdf (portseattle.org)



Memorandum of Agreement (MOA)

Total Port Budget is \$44M,

City Light's Cost Share is \$3.6M,
including:

- Over 2,600 linear feet of ductbank for system expansion
- Funded by City Light Maritime Transportation Electrification Program (MARTEP)
- Ductbank capacity for future MARTEP services for Washington State Ferries, King County Marine Division, Kitsap Transit, and the Port of Seattle



#### **Ordinance Authorizes City Light to:**

- Execute and deliver two (2) year MOA with the Port of Seattle
- Execute a thirty (30)
   year Operations
   Agreement between
   City Light and the
   Port of Seattle
   (forthcoming)



1. Jan 15, 2024: Submarine Cable pulling rig on Pier 66 2 and 3. Jan 15, 2024: Submarine Cable lay at Pier 66

Photos courtesy of Mark Longridge, Port of Seattle

