

Item No.: 10e_Supp

Meeting Date: December 14, 2021



Pier 66 Shore Power Project Long-Lead Items

Authorization Request

- Procurement of a specialized submarine cable
- Procurement of a proprietary shore power system
- Execute a service agreement with Seattle City Light to supply shore power
- Total amount of this request: \$7,600,000

Pier 66 Bell Street Cruise Terminal

- Commissioned in 1999
- Single berth facility and home port to Norwegian and Oceania vessels
- Upgraded to accommodate newest NCL vessels in 2018
- Recently completed P66 Interior Modernization Project further enhanced areas jointly used by Cruise and the International Conference Center
- Contributes to significant jobs and economic impacts to the region: 5,500 jobs and nearly \$900M in total business revenue each typical cruise season



Shore Power is a Key Environmental Strategy

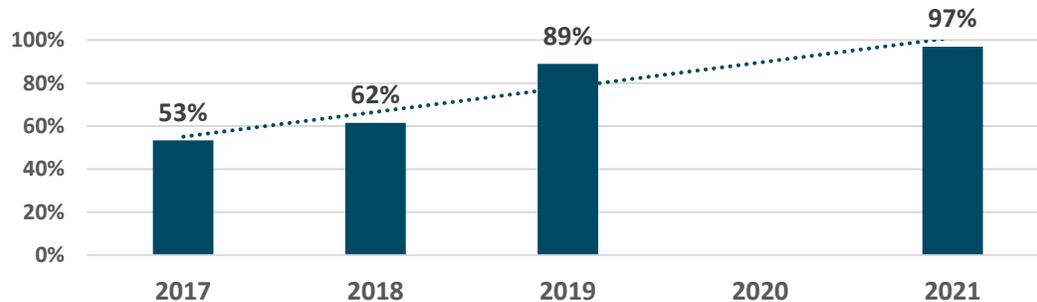
Maritime Climate and Air Action Plan:

- Complete the Seattle Waterfront Clean Energy Strategy
- Install cruise shore power at Pier 66 by 2023, 7 years ahead of the NWPCAS goal
- Work with cruise lines to make 100% of homeport calls shore power-capable and plug in by 2030
- Incorporate sustainability best practices into leases and agreements
- Address infrastructure constraints by 2030 to support transition to zero-emission maritime industry



Shore Power Environmental Benefits and Successes

- 93 percent of electricity in Seattle comes from low carbon, low-cost sources, like hydroelectricity
- Ships that use Seattle's clean electricity instead of fossil fuels at berth reduce CO₂ and air pollutants
 - In 2019 shore power use reduced about 2,900 metric tons of CO₂
 - In 2021, shore power use reduced about 1,700 metric tons of CO₂
- Cruise lines are demonstrating commitment to use shore power at Terminal 91 and connection rates by equipped calls increase year-over-year:



- At Pier 66, many ships are also shore power-equipped and expected to connect once a connection is available



Pier 66 Shore Power Project Components

Four key segments

- **Segments 1 & 2:** Landside infrastructure at Terminal 46. Cost sharing with Seattle City Light on Segment 1.
- **Segment 3:** Approximately 1-mile submersible cable in Elliott Bay
- **Segment 4:** Shore power equipment and infrastructure on Pier 66. Two shore power connection points with cable management system to offer connection flexibilities



Project Status

- Worked with Seattle City Light on challenges resulted from alternate feeder source
- Completed SEPA and Permit Reviews are Ongoing - Received Hydraulic Project Approval and Concurrence Letter from National Marine Fisheries
- Continuing collaboration with our partners on design development:
 - Northwest Seaport Alliance
 - Washington State Ferries
 - Tribal Governments
 - Army Corps of Engineers
 - National Marine Fisheries
 - Seattle City Light
 - Seattle Dept. of Construction and Inspection / Dept. of Transportation
 - Department of Natural Resources
 - Washington State Fish and Wildlife
 - US Coast Guard
 - Puget Sound Pilots

Long-Lead Items

Acquisition / Procurement Critical to Project Delivery Schedule:

- Shore Power Submarine Cable
- Shore Power Equipment (Transformer, Switchgear, Safety Interlock, Monitoring, Cable Position Device and Connectors)

Next Steps

- Long-Lead Items Authorization (today)
- Memorandum of Agreement with Seattle City Light on Roles and Responsibilities and Cost Sharing: Q1, 2022
- Design Development and Permitting: Through Q3/2022
- Shore Power Funding Agreement and Possible Lease Amendment with Norwegian Cruise Line Holdings: Q2, 2022
- Construction Funding Authorization Request: Q2, 2022
- Onsite Construction (Multiple Construction Packages) and Testing & Commissioning: Q4, 2022 – Q2, 2023

Thank you!

Questions?