

Pier 66 Shore Power Capacity and Connection

An early action of the Seattle Waterfront Clean Energy Strategic Plan



Seattle Waterfront Clean Energy Strategic Plan

Vision: Modernize the electricity grid to provide clean energy for maritime industry

- Build partnerships between electric utility, Port, industry
- Take a holistic approach to planning for an electric future
- Co-develop resilient, reliable, clean, affordable, maritime energy systems
- Enable and support the transition away from fossil fuels



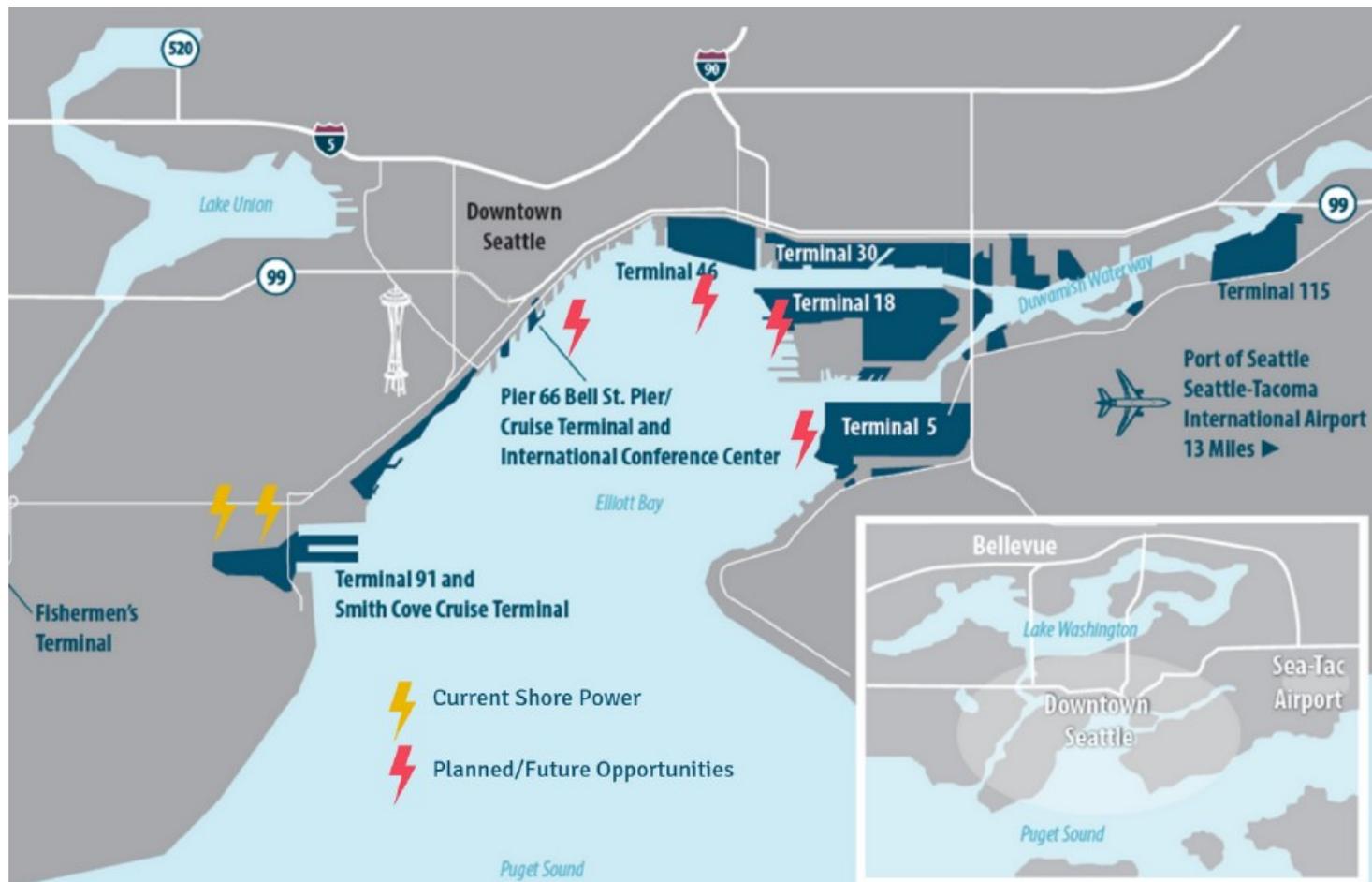
The Impact of Shore Power

- 93 percent of electricity in Seattle comes from low carbon, low cost sources, like hydroelectricity
- All ships that use Seattle's clean electricity instead of fossil fuels at berth reduce CO₂—which causes climate change—and harmful air pollutants like SO_x, NO_x and Diesel Particulate Matter



Pier 66 Shore Power – Early Action

- Pier 66 is an early action of the Seattle Waterfront Clean Energy Strategic Plan
- Implement electrification actions with high impact GHG reduction results
- Future expansion of shore power to other terminals as well as other harbor activities



Pier 66 Bell Street Cruise Terminal

- Commissioned in 1999
- Single berth facility and home port to Norwegian and Oceania vessels
- Recent upgrades to accommodate newest NCL vessels
- Currently, shore power is not available: challenging location in downtown grid



**PIER 66 BELL STREET
CRUISE TERMINAL**

**SUBMARINE CABLE FROM
TERMINAL 46 TO PIER 66**

TERMINAL 46

**EQUIPMENT AND DUCT
BANK ON TERMINAL 46**

**OFFSITE 26kV SERVICE
FROM CITY LIGHT**



Next Steps

- Design Funding Authorization (today)
- Design Development and Permitting: Early 2021
- Construction Funding Authorization Request: Early 2021
- Pier 66 Shore Power Ready for the 2022 Cruise Season