

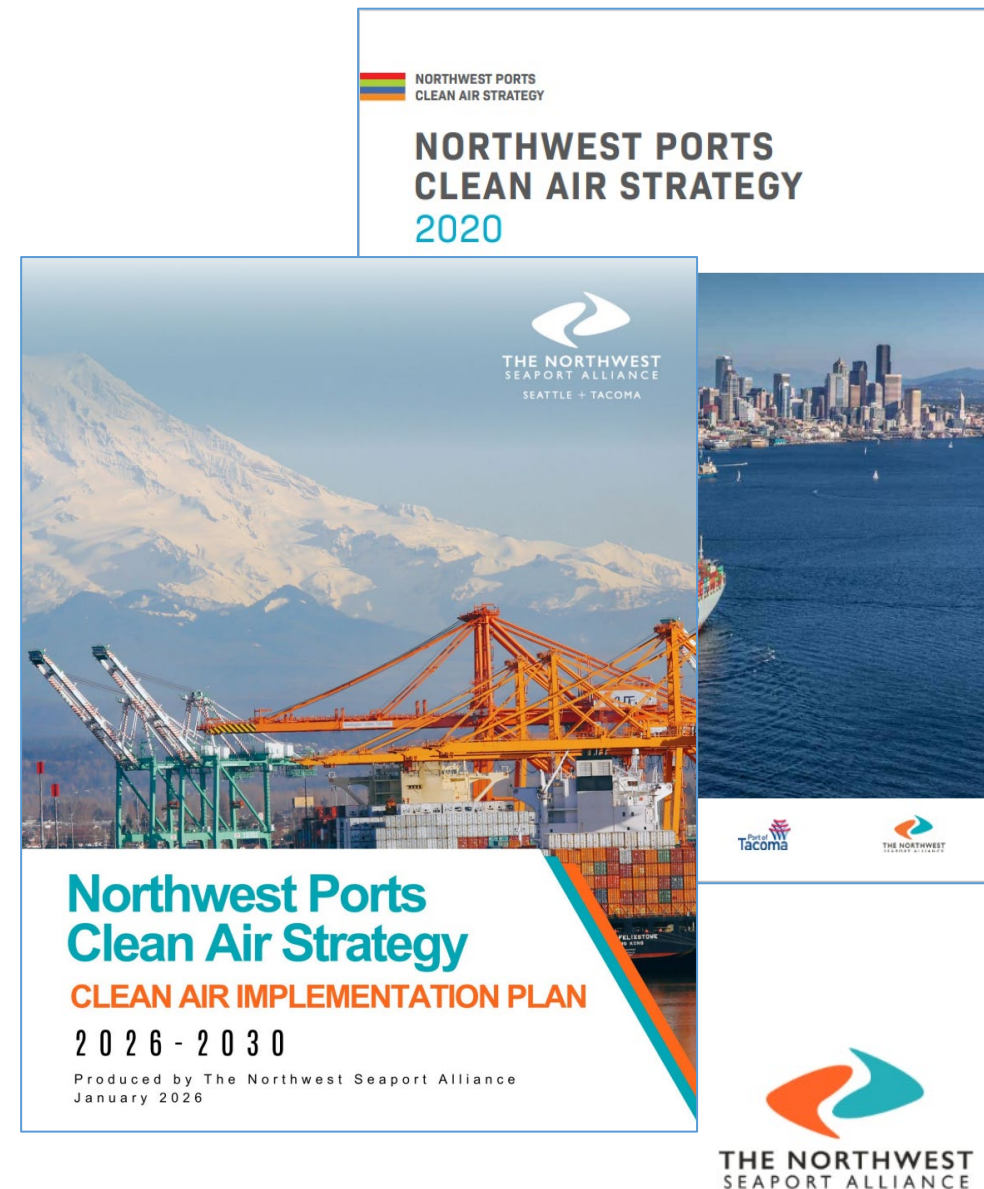
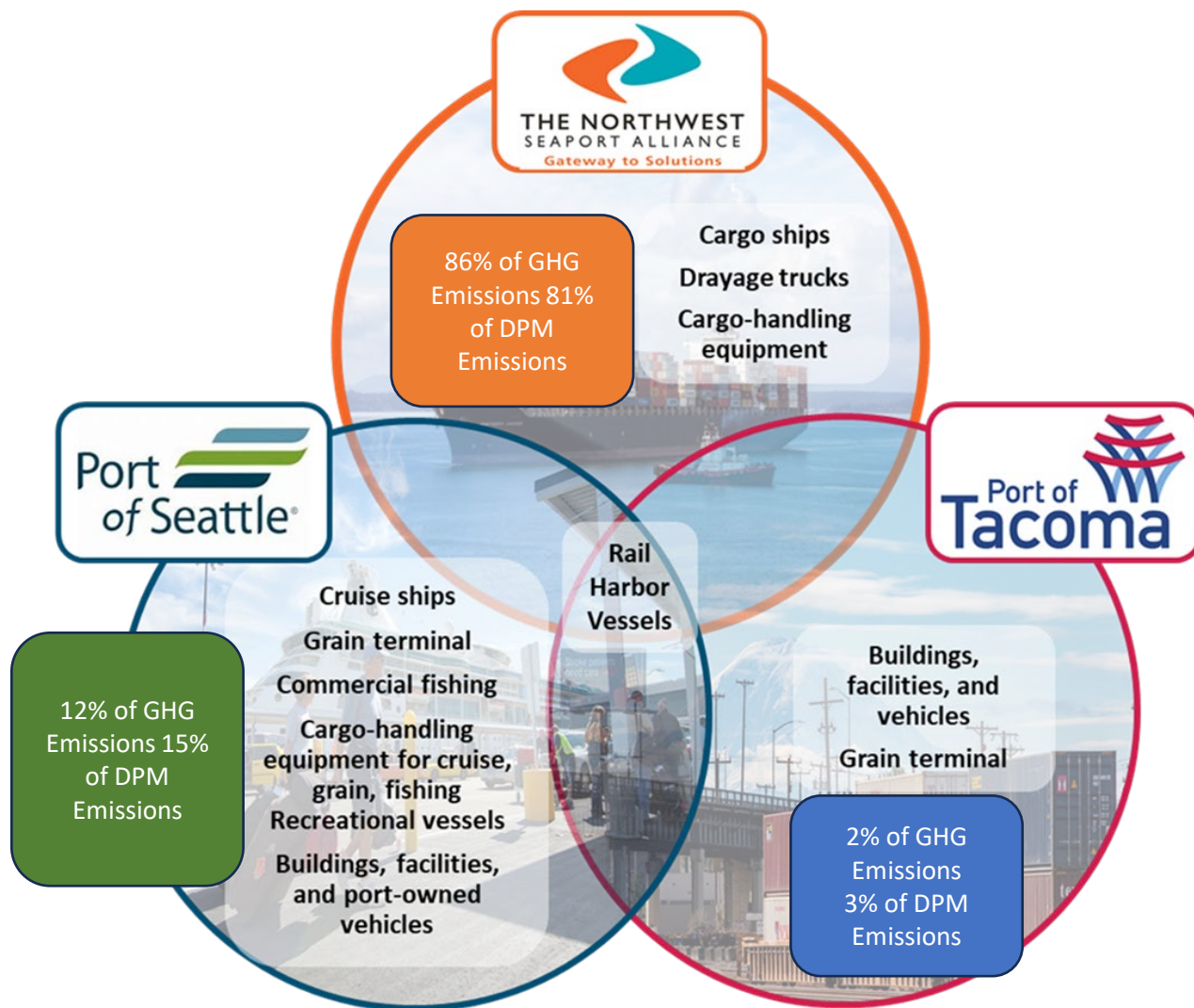
Northwest Seaport Alliance Air Quality and Sustainability Program

Freight Advisory Board
May 19, 2025



Northwest Ports Clean Air Strategy

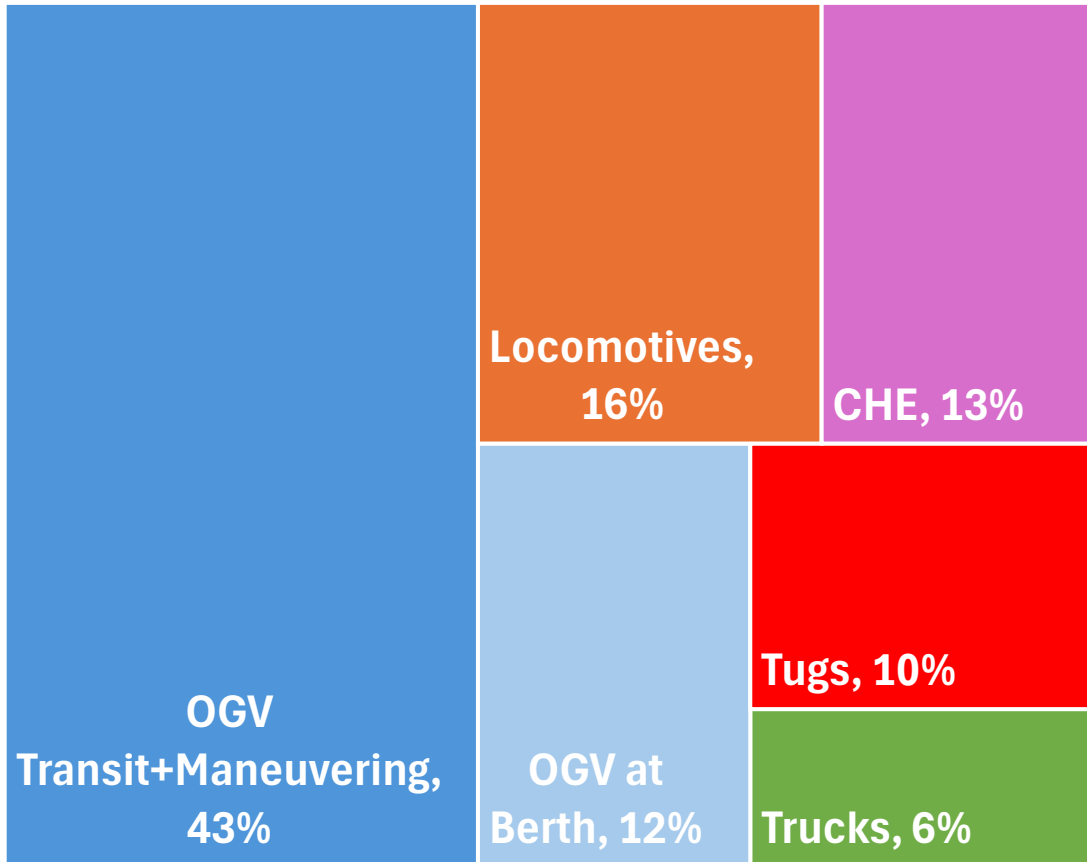
“Phase out emissions from seaport activities by 2050”



Sources of NWSA's Emissions

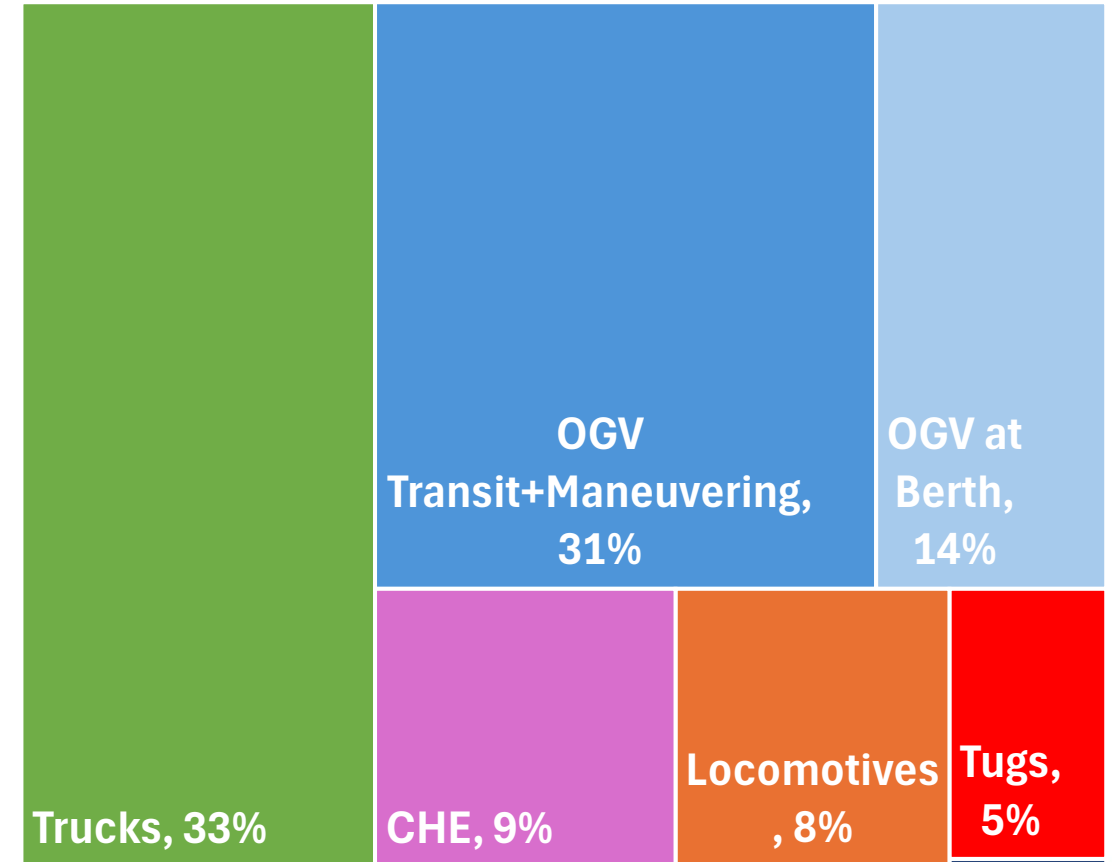
Diesel Particulate Matter

Total Emissions: 108 tons/yr



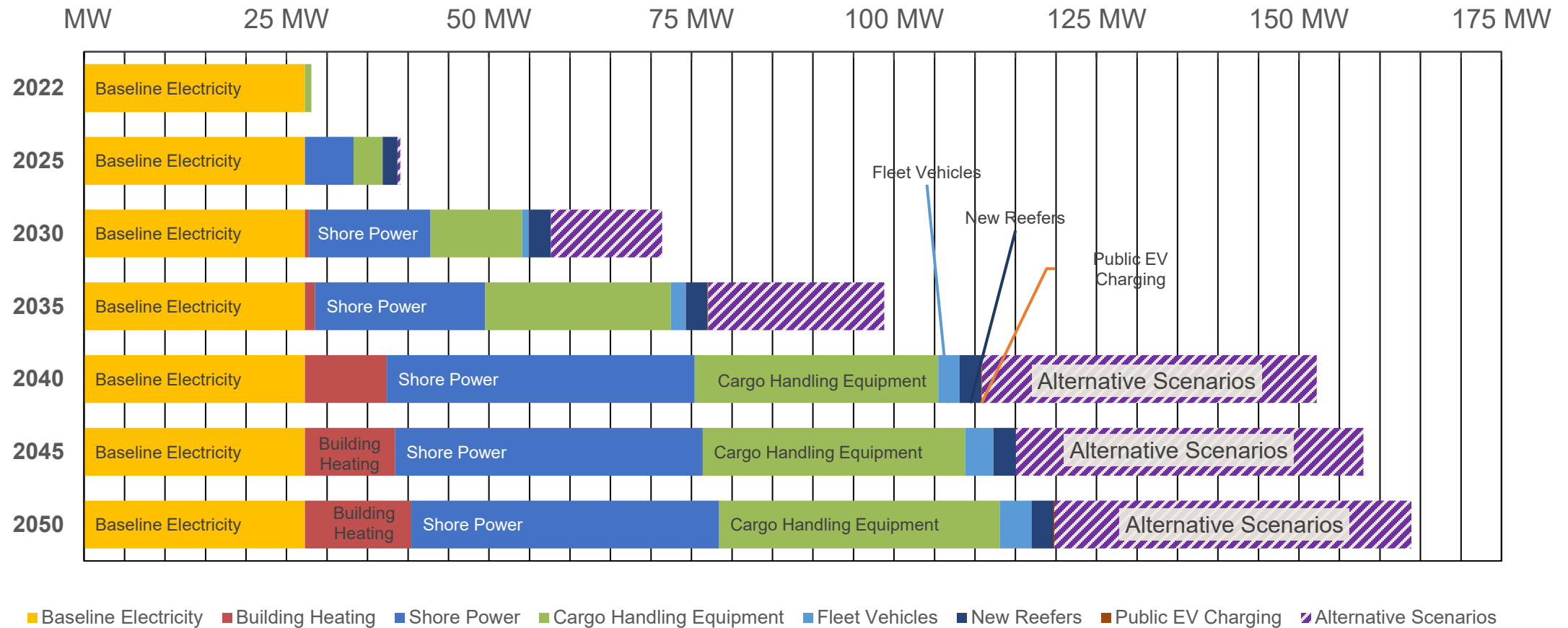
GHGs

Total Emissions: 586,928 tons/yr CO₂e



Electrification: The Challenge

Tacoma Projected Port-Wide Coincident Peak Electrical Demand by End Use



Shore Power Program

Goal: Install shore power at major international container terminals by 2030

Current Installations:

- TOTE Terminal
- Terminal 5
- Husky Terminal

Future Installations:

- Terminal 18 (construction)
- Washington United Terminal (design)
- Pierce County Terminal (planning)



Clean Truck Program

ZE Truck Program: Transition entire fleet of ~5000 trucks to zero-emission

- Puget Sound ZE Truck Collaborative
- ZE Truck Incentive Program
 - Zeem Solutions Project
- ZE Truck Charging Study
- Non-monetary Incentives Study

Clean Diesel Program:

- Requirement: 2007 engine or better
 - 90% less DPM emissions
- Renewable diesel
- Idling practices assessment



Puget Sound Zero-Emission
Truck Collaborative

Decarbonizing Drayage Roadmap

April 2025



Clean Cargo-Handling Equipment (CHE) Program

Goal: Transition fleet of 850 pieces of CHE to zero emission by 2050

- Renewable Diesel
- ZE Terminal Planning
- CHE-ZAP (Incentive) Program
- First Mover Projects
 - TAC-SIM BEV Yard Trucks
 - PoT Yard Truck and Forklifts



Sustainable Marine Fuels Program

Sustainable Marine Fuels Strategy

- Developing in collaboration with Port of Seattle

PNW-Korea Green Corridors

- Car Carrier
- Container Vessel

RNG Landscape Assessment

Pacific Rim SMF Landscape Assessment and Demand Analysis

Powering the Maritime Transition Study (PoS Lead)

- Fuel Acquisition Strategy (demand, supply, bunkering analyses) (RMI)
- Methanol Safety and Regulatory analysis (ABS)
- Harbor vessel modernization feasibility assessment (NLR)





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Thank You



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