

Charting the Course to Zero: Port of Seattle's Maritime Climate and Air Action Plan

Maritime Environment & Sustainability

November 16, 2021



Action Requested

Request a second reading of Resolution No. 3792 and Commission adoption of *Charting the Course to Zero: Port of Seattle's Maritime Climate and Air Action Plan*.

- A first reading of resolution 3792 occurred on October 26, 2021.
- Resolution 3792 justifies the Port's role in taking ambitious action to address the climate crisis and reduce local air emissions;
- Centers the work on the Port's commitments to equity, environmental justice, and a just transition
- Reflects engagement in plan development

A comprehensive approach to maritime clean air and climate action



Sets vision to be zero-emission by 2050 with objectives shared by 4 Northwest Ports of Seattle, Tacoma, the NWSA and Vancouver B.C.



CHARTING THE COURSE TO ZERO

Port of Seattle's Maritime Climate and Air Action Plan

The MCAAP is Port of Seattle's Implementation Plan through 2030 with interim milestones

Seattle Waterfront Clean Energy Strategy (2022)



Early implementation action for Port of Seattle focused on the maritime infrastructure needed for decarbonization in Seattle

Projects and programs to support the zero-emission transition



TBD from energy planning, ongoing community, industry engagement

The Need: A maritime plan to help address the climate crisis and disproportionate health impacts in Seattle

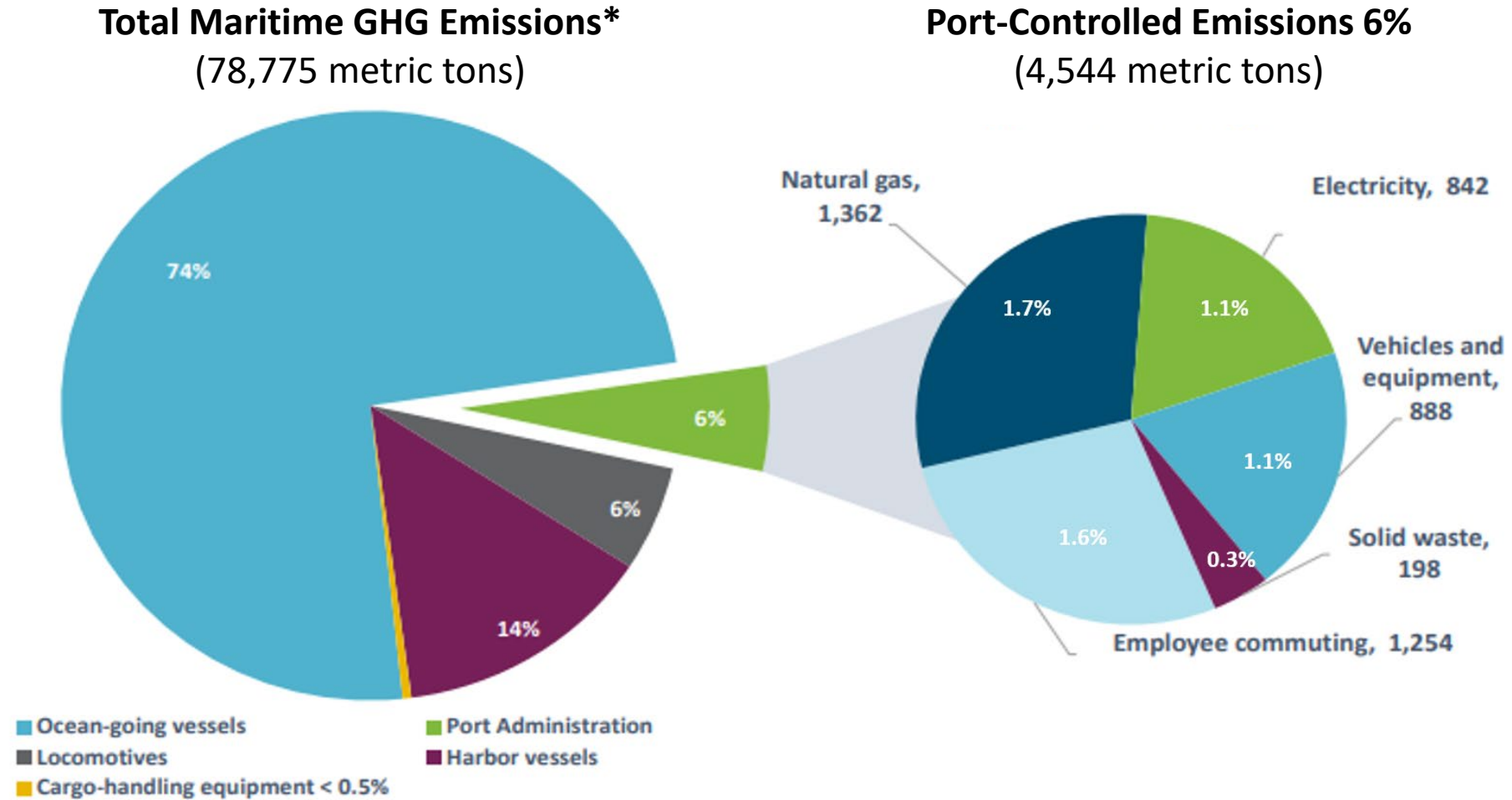
- Implement the 2020 Northwest Ports Clean Air Strategy vision in Seattle:
Phase out emissions from seaport-related activities by 2050, supporting cleaner air for our local communities and fulfilling our responsibility to help limit global temperature rise to 1.5°C.
- Advance the Century Agenda climate and equity goals
- Eliminate air pollution from Port maritime sources and help dismantle environmental injustices in Seattle's near-port communities
- Advance the Port's commitments to healthy environment and communities, and ongoing community-port collaboration as detailed in the Port's Community Benefits Commitment (Resolution No. 3767)

Context

- Seaport-related emission trends in Seattle, 2005-2016:
 - 83% reduction in Diesel Particulate Matter (DPM)
 - 27% reduction in GHG
- The MCAAP covers Port of Seattle's operations and sources of emissions
- NWSA and Port of Tacoma developing separate implementation plans



The Challenge: 94% of Port of Seattle's maritime climate emissions are outside of the Port's direct control



*does not include marine cargo terminals operated by the Northwest Seaport Alliance

About the Maritime Climate and Air Action Plan

- **Focus:**

- Port of Seattle's Maritime and Economic Development Divisions' administration and activities
- Includes actions starting now, by 2025 and by 2030
- Charts a course to achieve 50% GHG reduction by 2030

- **2 Sections:**

- **Port Maritime Administration:** fleet, buildings, solid waste, employee commuting, habitat restoration
 - 24 strategies to reduce 2,000 metric tons of GHG emissions by 2030
- **Port Maritime Activity:** cruise, commercial fishing, bulk cargo, recreational marinas, rail
 - 19 strategies to reduce 37,000 metric tons of CO2 by 2030

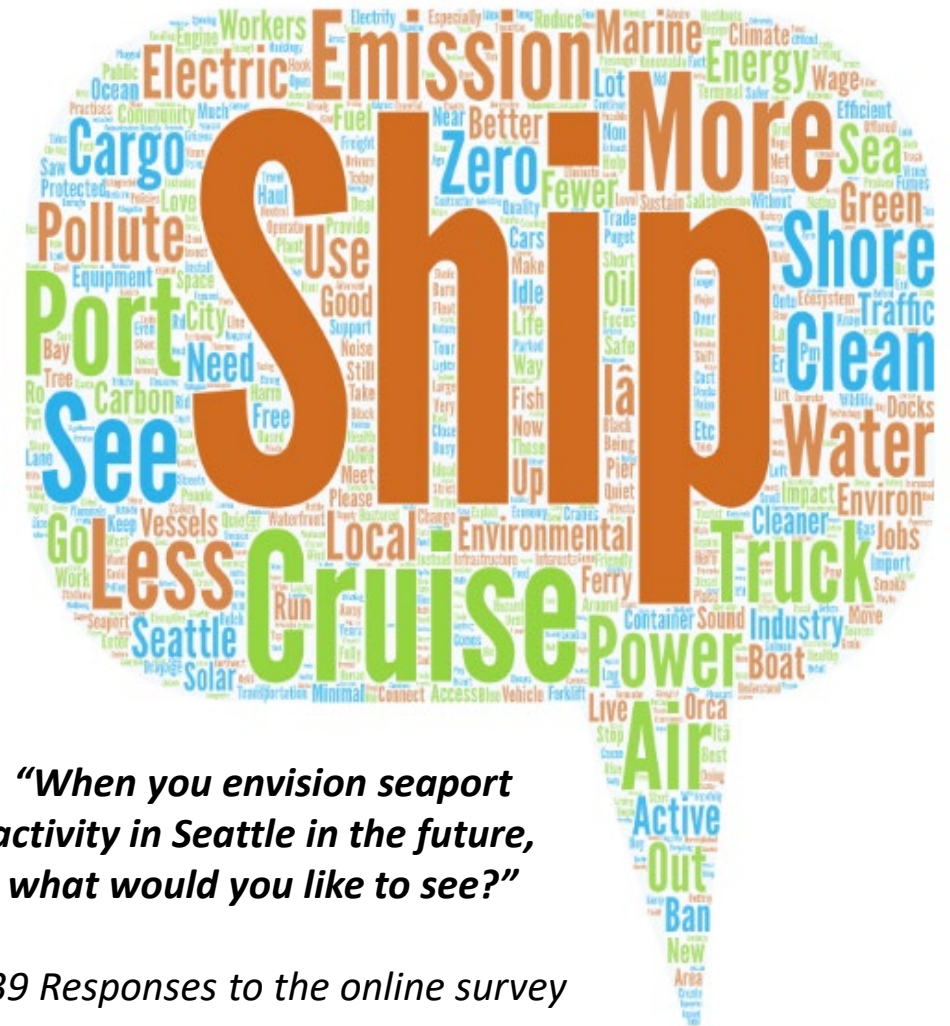
Engagement informed MCAAP development

- **2019-2020:** Northwest Ports Clean Air Strategy developed with industry, community, government, non-government representatives
- **Spring 2021:** Northwest Ports Clean Air Strategy adopted, first draft MCAAP published online
- **Summer 2021:**
 - MCAAP engagement website
 - Three neighborhood association presentations
 - Online survey in 6 languages – 139 responses
 - Community webinar
 - Participated in Duwamish Valley Clean Air Program
 - Seattle & Tacoma Community workshops
 - Non-governmental organization workshop
 - Five Comment letters, individual meetings
 - Report-out webinar and engagement summary document posted online



What We Heard: Engagement Themes

- Strong consensus on zero emission operations by 2050 and clean energy transition
- Feedback on interim emission reduction targets
- Desire for the ports to lead by example and prioritize climate/clean air investments to address health disparities
- Desire for more accountability, communication, and transparency by ports
- Consensus on reducing emissions from trucks, concerns about cost, feasibility, equity (NWSA)
- Concern about ocean-going vessel emissions and impacts on marine life



What Changed After Engagement

Stronger focus on environmental justice and community priorities

- The MCAAP acknowledges the goals of Port Resolution 3767: The Duwamish Valley Community Benefits Commitment
- Acknowledges priorities identified in the new Duwamish Valley Clean Air Program Action Plan
- Actions support youth engagement and professional development
- Commitment to prioritize local and women and minority-owned business enterprises (WMBE) throughout implementation

Greater Accountability

- Regular updates on clean air strategy implementation
- Collaborate with communities to launch an on-going engagement program
- Ports to develop a Clean Air and Climate Community Resource Guide
- Ports use a common accountability framework to more clearly report on progress

Emission Reduction Strategies by 2030 - Highlights



Cross-sector:

- Complete Seattle Waterfront Clean Energy Strategy
- Update lease terms to incorporate sustainability
- Advocate for policy, funding to support climate action
- Engage and collaborate with community, industry, and government



Maritime Administration:

- Eliminate fossil natural gas in Port buildings
- Upgrade to all high-efficiency lighting
- Transition to electric light-duty vehicles or use renewable fuel
- Encourage telework to reduce employee commuting emissions
- Maximize use of renewable energy, like solar power



Maritime Activity:

- Cruise shore power at Pier 66
- Work with cruise lines to reach 100% shore power-equipped homeport calls
- Require shore power use for equipped cruise ships
- Support domestic and international efforts to phase out emissions from ocean-going vessels
- Engage grain terminal, cruise, fishing companies to identify infrastructure and equipment needs

Implementation

- **5-Year Estimated Cost: \geq \$38,760,000 total**
 - Capital projects : \geq \$36,035,000
 - Planning level estimates from Port's 5-year Capital Improvement Plan
 - Includes Pier 66 cruise shore power, HVAC replacements, lighting upgrades, fleet replacements and EV charging and more
 - Programmatic: \$2,725,000
 - Includes the Seattle Waterfront Clean Energy Strategy, international engagement, sustainable maritime fuels program, and other programs
- 5-year estimate does not include full cost of staff time, external costs to industry, or cost saving/cost recovery opportunities

Transparency and Accountability in Implementation

- Annual reporting:
 - Performance metrics for each sector
 - Collaborate with Port of Tacoma, NWSA on regular public updates, progress reporting
 - Maritime GHG emissions inventory of Port Administration sources
 - Review implementation efforts and update actions, timeframes as needed
- Every 5 years:
 - Participate in Puget Sound Maritime Air Emissions Inventory
 - Review Northwest Ports Clean Air Strategy vision, objectives, metrics

We cannot achieve our vision alone

What it will take:

- Partnerships
- Supportive policy
- Funding and/or capital
- Zero-emission infrastructure
- Available, affordable technology
- Industry commitment
- Workforce training
- Community engagement and capacity building

