

DRIVING A SEA CHANGE

2024 Environment & Sustainability Annual Report

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A woman in a teal jacket is kneeling in a forest, holding a soil core. She is smiling and looking towards the camera. In the background, other people are visible, some wearing high-visibility jackets. The ground is covered in fallen leaves. A grey bucket is on the ground to her left.

**Port of Seattle
Environment
and Sustainability**

**BOLD
PROGRESS
PARTNERSHIPS
EQUITY
STEWARDSHIP
OPPORTUNITY**

Building a Sustainable and Resilient Port

1. Build Port's influence in state, national and international environmental policy.
2. Reduce emissions, waste and other environmental effects from Port operations.
3. Establish Port as a premier regional agency to attract clean fuels for maritime and aviation.
4. Continue leading edge programs to steward our land and water resources, remediate contaminated properties and manage stormwater systems and runoff to protect water quality.
5. Deliver permitting and regulatory compliance to ensure sustainable and resilient port operations and infrastructure.
6. Engage communities and increase partnerships with stakeholders.

2024 Accomplishments

REMOVED
PFAS

SHORE POWER
INSTALLATION AND NEW REQUIREMENT

**COMPOSTABLES &
REUSABLES AT SEA**

SEA LAND STEWARDSHIP PLAN

40 TON DEBRIS REMOVED

PNW2AK GREEN CORRIDOR
GREEN METHANOL STUDY

LAUNCHED
PART 150
STUDY

SAMP

**VERIFIED
EMISSIONS**

EWV RECORD OF DECISION

SOUND INSULATION
REPAIR & REPLACE
PILOT PROGRAM

ADAPTSEA

SALMON-SAFE

**MITIGATION BANKING
HABITAT CREDITS SALE**

\$3M IN EPA GRANTS



Reporting Categories

1. Healthy Lands and Habitat
2. Cleaning Up Contaminated Sites
3. Protecting Water Quality
4. Reducing Waste
5. Charting the Course to Zero
6. Building Resilient and Sustainable Infrastructure
7. Environmental Permitting and Planning
8. Lessening the Impact of Aircraft Noise
9. Practicing Equity, Diversity, and Inclusion
10. Engaging the Community

HEALTHY LANDS AND HABITATS

- Work to restore 40 acres along → the Duwamish (CA Objective 12)



- **Adopted the SEA Land Stewardship Plan and Tree Replacement Standards**
- **Landmark agreement for sell of 500 mitigation banking credits**
- 2,444 trees and shrubs planted
- Research in habitats, kelp, and mussels



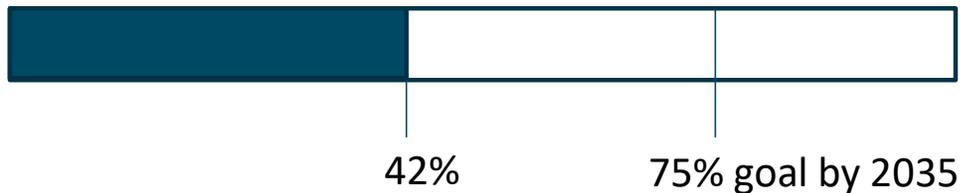
CLEANING UP CONTAMINATED LANDS

- **First U.S. airport to use cleaning technology to remove PFAS-containing foam from firetrucks; 3,795 gallons removed**
- **\$33M** in cost recovery
- Sustainable soil treatment research at T25
- **Nine** clean up sites in progress



PROTECTING WATER QUALITY

- **Met maritime stormwater permit requirements**
- **Met over 99% of airport stormwater permit conditions**
- **Salmon-safe certification renewed**
- **Maritime stormwater system rehabilitation progress**
- **10 derelict vessels removed or resolved**
- **30-ton, 60-foot pile cap obstruction removed at T46**



REDUCING WASTE

Municipal Solid Waste Diversion (60% goal)

49% (4,481 tons) of waste from SEA terminals diverted

58.6% (1,792 tons) of waste from maritime facilities diverted

Construction Waste Diversion (90% goal)

99.8% from SEA Airport capital projects diverted

75.9% maritime capital projects diverted (*incomplete data*)

- **New SEA tenant requirements mandating reusable or compostable service ware**
- **1,587 tons** of waste collected for composting; **14% increase** from 2023
- **26,384 meals** donated to local food banks
- **138 tons (35,816 gallons!)** of cooking oil recycled into renewable diesel and SAF

RESILIENT AND SUSTAINABLE INFRASTRUCTURE



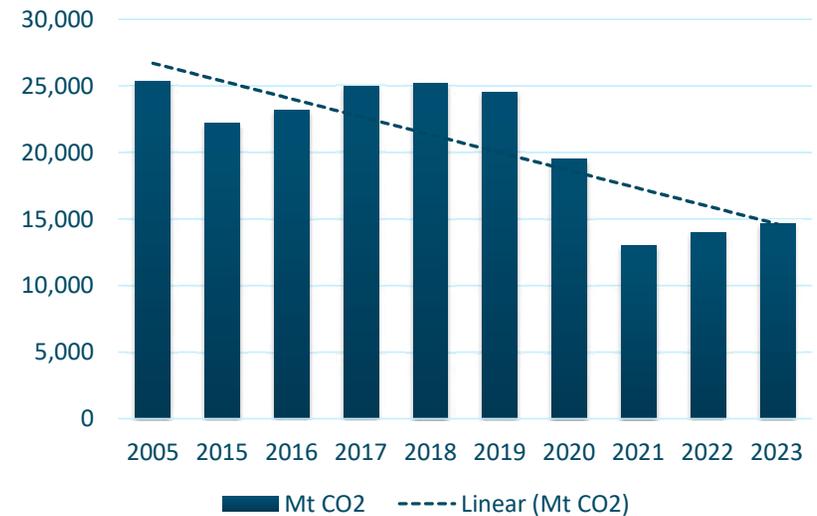
- **137 capital projects** started the sustainable evaluation process
- 10 Sustainable Design Strategies in progress; **2 completed**
- **8 projects** targeting environmental certifications

CHARTING THE COURSE TO ZERO | SCOPE 1 & 2

2024 Highlights:

- **Verified Scope 1 and 2 GHG inventory through The Climate Registry; Level 3 Airport Carbon Accreditation**
- **53 electric fleet vehicles** (8% AV fleet, 9% Maritime fleet) & progress on EV charging infrastructure
- Evaluation of SEA's central mechanical plant
- **7 seaport upgrade projects** for LED and lighting controls
- Building Energy: 58% renewable natural gas, 6% increase from 2023

Port-wide Scope 1 & 2 Emissions (2023)



42% reduction from baseline

CHARTING THE COURSE TO ZERO | SCOPE 3



2024 Highlights:

- **APU emissions totaled 102,454 tonnes of CO₂ — 15% decrease from 2023 and lowest since 2018 (excluding 2020)**
- **61% of aircraft operations connected to preconditioned air; Alaska and Delta achieved their highest connection rate**
- Washington State Alternative Jet Fuel Working Group
- Completed research on Ground Transportation Emission Reduction Strategy

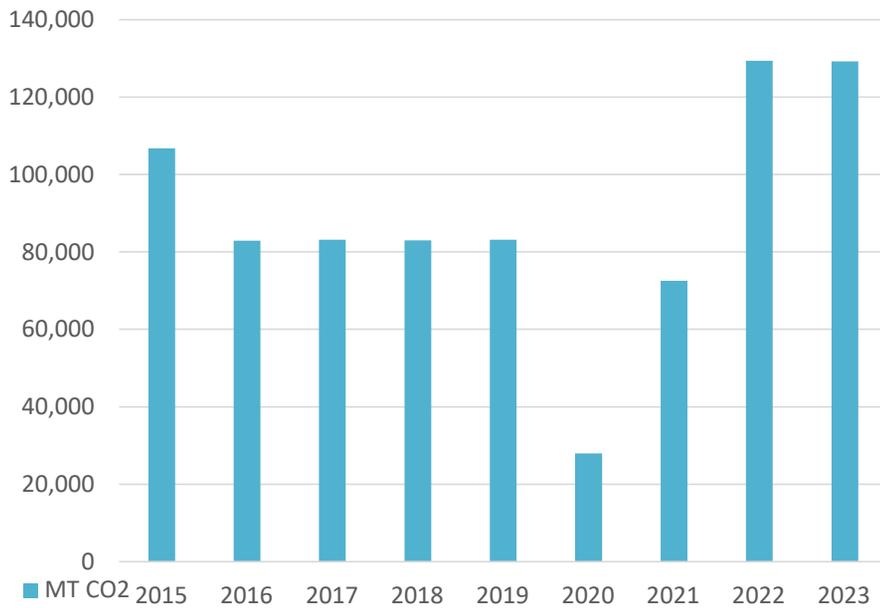
SEA Airport GHG Emissions (2023)



10% increase from baseline

CHARTING THE COURSE TO ZERO | SCOPE 3

Seaport and Economic Development GHG Emissions (2023)



31% increase from baseline

2024 Highlights:

- All three cruise berths equipped with shore power; Pier 66 completed in 2024
- First port to require shore power usage by homeported cruise vessels in 2027
- 130 connections **avoided 3,964 metric tons CO2e** and 1.1 metrics tons of diesel particulate matter
 - **7% connections increase from 2023**
 - **47% of homeport calls** (new metric)
- PNW2AK Cruise Green Corridor green feasibility methanol study
- Sustainable maritime fuels

ENVIRONMENTAL PLANNING AND PERMITTING

- **SAMP NTP NEPA review and community engagement**
- **166** active capital aviation projects
- **114** active maritime projects
- AdaptSea Waterfront Resilience Partnership & Duwamish River Sea Level Rise MOU



LESSENING THE IMPACT OF AIRCRAFT NOISE

- **Part 150 initiated; 3 public workshops**
- **Sound Insulation Repair and Replace Pilot Program – Assessment completed**
- **3 single family homes completed**
- **Construction contract awarded for 9 apartment buildings**
- **3 places of worship underway**



PRACTICING EQUITY, DIVERSITY, AND INCLUSION

- Utilized Port's Equity Index in capital projects, SEA noise programs, and other planning efforts
- Duwamish Green Jobs Program
- Coalition of Climate Careers (C3) Green Jobs, Green Futures Summit – 400 attendees



ENGAGING THE COMMUNITY



- **Over 75 community events**
- 50 events and tours at DRPP and other habitat sites
- 18 tours showcasing PFAS transition
- **\$226,631 to six organizations around SEA**

AWARDS AND RECOGNITION



- Sustainable Century Awards
- District 2030 Leadership Award
- AIVP Antoine Rufenacht Prize Finalist
- Green Marine Certified

Looking Ahead



Sustainability

- Waterfront Clean Energy Strategy
- Sustainable Maritime Fuels Collaborative
- Green Corridor Green Methanol Study
- Carnival Corp BioFuel Pilot
- SEA Ground Transportation
- Capital Projects



Land and Water

- SAMP NTP SEPA
- Stormwater and Wastewater Infrastructure
- PFAS Clean Up
- Terminal 25
- Sustainable Shorelines
- Tribal Partnerships



Noise Management

- Part 150
- Repair and Replace Pilot
- Sound Insulation Program
- Community Outreach and Engagement



Port of Seattle®

Thank you.