

AVIATION AND MARITIME 2022 ENVIRONMENTAL YEAR IN REVIEW



We are proud to be at the forefront of environmental investments that will transform seaport and airport industries and create the port of the future.



Every year the Port of Seattle makes remarkable progress in protecting our environment and the health of our local communities. 2022 was no exception. We achieved significant milestones in habitat restoration, greenhouse gas reductions, operational efficiencies, and continued to set a clear course for how we will decarbonize our transportation industry, meet our Century Agenda goals, and continue to engage and invest in our local communities. Our progress requires constant visioning, evaluation, collaboration, and innovation. I am continually heartened by the skill and commitment of our employees and our partners to make a difference and create a clean future for people and our planet.

– Sandra Kilroy, Sr. Director Environment, Sustainability and Engineering



Celebrating the largest habitat restoration in the Lower Duwamish River

Since the late 1930s the Port's T-117 property in the South Park neighborhood was used for asphalt shingle manufacturing, which left behind considerable contamination. The Port acquired the site in 2000 and committed to removing the contamination and turning it into an asset for both people and fish.

The over 20-year cleanup and restoration resulted in 14 acres of shoreline habitat valuable for Chinook salmon and an amazing public access park for the local community. Thousands of hours of employee and community member time achieved the largest habitat restoration site along the Duwamish River in a generation.



SEA Airport achieves 50% GHG reduction for Port-owned emissions

With eight years to spare, the Port met its first major emissions reduction goal at SEA Airport, decreasing greenhouse gas emissions by 50.23% — a goal originally set for 2030. This reduction of scope 1 and 2 greenhouse gas emissions includes emissions from airport-operated facilities such as the main terminal heating. The Port met this goal by purchasing renewable natural gas for its boilers — the first U.S. airport to do this. Achieving this 50% reduction considers the Port's growth since 2005, which makes this achievement even more extraordinary. In anticipation of this milestone, the Port has now accelerated the goal to achieve 100% reduction in its scope 1 and 2 emissions by 2040.



First green corridor for cruise ships will catalyze maritime decarbonization

The Port of Seattle, in collaboration with 14 industry partners, announced the world's first ever effort to develop a green corridor for cruise ships between Washington, British Columbia, and Alaska. The Port established partnerships and garnered signed commitments from critical partners, including international cruise lines, Alaska and British Columbia ports, and NGO partners. This collaborative effort will explore the development of zero GHG emission ships and operations. The working group, known as "First Movers," is currently scoping a feasibility study for 2023.

REDUCING GREENHOUSE GAS EMISSIONS

- » Launched research into converting municipal solid waste to sustainable aviation fuel
- » Secured funding for a sustainable aviation fuel pilot program to reduce community air pollution
- » Advocated for clean fuel policies and climate actions at state, national, and international level
- » Began implementing the Maritime Climate and Air Action Plan and made progress on 35 key strategies in the first year to reduce emissions
- » Reached a renewable natural gas purchasing agreement for maritime to start in 2023



CREATING MORE SUSTAINABLE FACILITIES

- » The North Satellite at SEA Airport achieved LEED silver certification for sustainable buildings
- » Fully staffed our sustainable building team to guide sustainability features in all airport and seaport development projects
- » Completed study on substitute products to reduce single-use plastics at SEA Airport



RESTORING AND PROTECTING HABITATS

- » Partnering with Seattle Aquarium to research critical kelp beds in Elliott Bay
- » Evaluating impacts of exhaust gas cleaning systems from cruise ships operating in Puget Sound
- » Developed the Port Sustainable Shorelines program
- » Installed fish passage culvert and restoration on Miller Creek at SEA Airport
- » Hosted volunteer tree planting and restoration events in the Duwamish Valley and SEA Airport
- » Completed 30% design of a section of the Lower Duwamish Waterway cleanup
- » Launched the cleanup and design work for restoration of Terminal 25 on the East Waterway
- » Completed a 55-acre ecological inventory for North SeaTac Park



REDUCING UNDERWATER NOISE IMPACTS

- » Delivered the Port's first Underwater Noise Mitigation and Management Plan
- » Supported and staffed Quiet Sound which launched its first vessel slowdown pilot and achieved a 61% voluntary participation in vessel slowdowns in its first two months



MITIGATING AND MONITORING AIRPORT NOISE

- » Completed sound insulation for 13 single-family homes and 17 condominium units in SEA's Noise Remedy Boundary
- » Completed acoustic testing and architectural designs for new eligible applicants including apartment complexes and places of worship
- » Awarded Sprint Airlines, Frontier Airlines, and EVA Airways with the Fly Quiet Awards for their noise abatement efforts
- » Conducted ground noise study and continue to look at potential remedies, such as adoption of reverse thrust language



IMPROVING WATER TREATMENT SYSTEMS

- » Launched innovative stormwater treatment technologies at both Terminal 25 and Pier 91 as part of ongoing efforts to minimize the impact of stormwater runoff on local waters and aquatic habitats
- » Installed a new bioretention swale in the cell phone lot at SEA Airport to capture and infiltrate stormwater runoff



WORKING WITH THE COMMUNITY

The Port is committed to leading equitable outcomes for all communities, through policies and practices that ensure racial, social, economic, and environmental justice.

- » Worked with local fishing community to post fish advisory signs at all public Port facilities and parks on the Lower Duwamish
- » Hosted volunteer tree planting and restoration activities in the Duwamish Valley and near SEA airport
- » Coordinated closely with community groups along the Duwamish River on habitat restoration and remediation activities



MANY THANKS TO THE COMMUNITY, OUR PARTNERS, GOVERNMENT AGENCIES, AND EMPLOYEES FOR YOUR DEDICATION AND SUPPORT FOR THIS YEAR OF PROGRESS.

Port
of Seattle®