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HOME SEA AIRPORT □ MARITIME □ BUSINESS □
COMMUNITY □ ABOUT □



Home / Environment Overview / Climate and Air Quality

Climate and Air Quality



NEWS

New Environmental Legacy Fund Builds Rese Future Cleanups



Exploring
World's First
Green Corridor
for Cruise

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Port Commissioners Join Governor Inslee and Legislative Leaders for Climate Bill Signing

Fast Facts about Clean Fuels

SEA Steps on the (Renewable) Gas to Halve Carbon Emissions

Solar Power at the Port

Energy Efficiency

Airport Community and Environment

Water Quality and Water Conservation

Duwamish Valley Community Equity Program

How we reduce emissions

SEA Airport collaborates with our tenant airlines, service providers, and

our community to reduce emissions. While a majority of pollution-causing emissions occur from sources not under our control, through these partnerships and the environmental goals of our organization, we can move people and goods more efficiently while improving our region's air quality and strengthening the businesses that operate at SEA Airport.

Renewable Natural Gas

SEA is the first airport in the country to purchase thermal renewable natural gas (RNG), a low-carbon natural



gas alternative produced from landfill waste, to heat the airport terminal and power our bus fleet. This decision to switch from higher carbon fossil fuel to renewable waste-derived fuel will enable the Port to reduce its carbon emissions by 50 percent in 2021, a goal that was initially targeted for 2030.

Benefits of RNG: RNG produces no new carbon emissions because it replaces fossil fuels and recycles existing carbon in the atmosphere. Natural gas accounts for 75 percent of the Port's annual climate-warming greenhouse gas emissions. This 10-year contract will result in the reduction of approximately 11,000 tons of emissions the Port directly produces from its own operations (scope 1) and those from the electricity it purchases (scope 2). Using RNG at SEA Airport in the next decade will remove the emissions equivalent of:

- Heating 40,000 Seattle homes
- Taking 24,000 passenger vehicles off the road

Electric ground support equipment

SEA Airport has installed nearly 300 electric ground support equipment charging locations throughout the passenger terminal ramps, to

[Sea-Tac Airport Working To Be First Airport To Use Sustainable Aviation Fuel](#)

[Sustainable Century Awards](#)

Other Documents

- [North SeaTac Park 55-Acre Parcel Inventory](#)
- [Case Study: Renewable Diesel](#)
- [Case Study: Renewable Natural Gas](#)
- [North SeaTac Parking Lot letter 06152021](#)
- [Port of Seattle Maritime Scope 3 GHG Results 2021](#)

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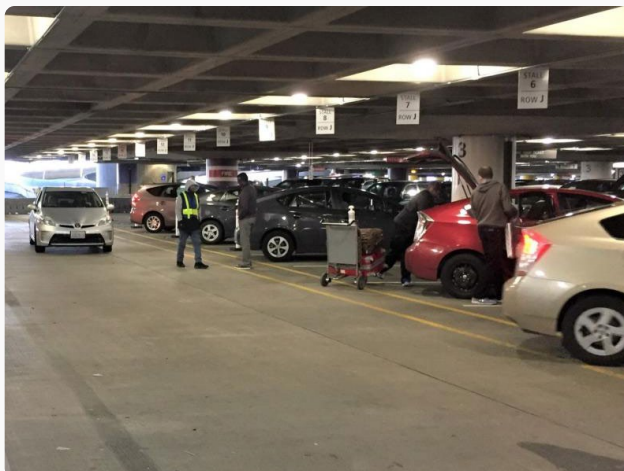
have them available at every gate by 2021 (561 in total). Each site or chargepoint typically provides charging for one piece of eGSE.

Benefits of eGSE: SEA's eGSE charging stations allow airlines to use electrically-powered GSE rather than petroleum-fueled GSE. By using these types of electric vehicles, this project (when complete) will reduce:

- » Nearly 1 million gallons of petroleum per year
- » Approximately \$2.8M in fuel expenditures per year
- » 10,000 metric tons of GHGs per year, the pollution that causes global warming

Greener transportation options

SEA Airport has partnered with many of our ground transportation providers to offer greener choices such as high MPG taxis and rideshare options, or alternative fuel shuttles and door-to-door vans. These include initiatives such as:



- » Partnered with Clean Energy to build the state's first large compressed natural gas (CNG) fueling station open to the public

- » In response to airport contracts, taxis picking up at SEA must be high MPG or alternative fueled
- » In response to airport contracts, rideshare services such as Uber and Lyft must meet the same environmental performance standards of the taxi fleet but may do so through several options including ride pooling and deadhead reduction.
- » Many of our shuttle and door-to-door van services use alternative fuels like propane and natural gas and use high mileage vans in their fleets

Pre-Conditioned air and ground power for aircraft



Seattle-Tacoma International Airport has installed Pre-Conditioned Air or "PC Air" and ground power at each of our gates to reduce energy costs for airlines, improve air

quality, and increase energy efficiency throughout the airport. PC Air provides cooled and heated air to an airplane cabin while parked at SEA gates, while ground power supplies other electrical needs in the cabin. Pre-conditioned air allows the pilot to turn off the airplane's auxiliary engines that would typically provide air and electricity to the cabin, thereby reducing fuel and air emissions.

Benefits of PC Air: PC Air provides both environmental and financial benefits to our airline's partners, our passengers, and our surrounding communities. Each year, PC Air reduces:

- » 5 million gallons of fossil fuel use
- » \$15 M in fuel expenditures by the airlines
- » 73 tons of nitrogen oxides (NO_x), a nationally regulated air pollutant
- » 40,000 metric tons of greenhouse gases



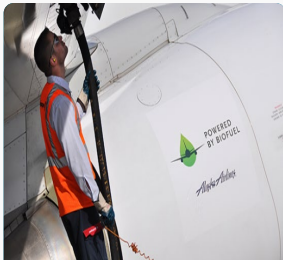
Exploring the World's First Green Corridor for Cruise



Northwest Ports Clean Air Strategy



Puget Sound Maritime Air Emissions Inventory



Sustainable Aviation Fuels



Sustainable Marine Fuels

General Information



Green Hydrogen

Hydrogen, the most abundant element in the universe, is emerging as a promising source of energy for transportation in the maritime industry. Its key advantage lies in its flexibility – as a zero-emis...

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Measuring Greenhouse Gas Emissions at Port of Seattle

About the Port's Greenhouse Gas Emissions Inventories The Port conducts two separate greenhouse gas (GHG) emissions inventories: one for GHG emissions associated with the Seattle-Tacoma

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Programs

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Commitment to Air Quality and Energy Efficiency

The Port of Seattle's air quality program is part of an aggressive and systematic effort to make our facilities as ...

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Projects

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Clean Fuel Forum: 2021 Industry and Policy Forecast for Washington State

The Port of Seattle was joined by industry leaders, state policy makers and researchers from Washington State Unive...

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Documents [See All](#)

- [01222021 Letter from the Port of Seattle regarding HB 1091](#)
- [10222020 Commissioner Fred Felleman Clean Fuel Forum remarks](#)
- [2022 Aviation Scope 1&2 GHG Inventory](#)
- [2022 Maritime Scope 1&2 GHG Inventory](#)
- [2022 Maritime Scope 3 GHG Inventory](#)



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[Back to Top](#)

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- [Ground Transportation](#)
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- [Customer Services & Amenities](#)
- [International Travel](#)
- [Accessibility at SEA](#)

MARITIME

- [Maritime Home](#)
- [Cruise](#)
- [Marinas](#)
- [Fishing & Commercial Moorage](#)
- [Maritime Environmental](#)
- [Moorage Rates & Info](#)
- [Maritime Events](#)
- [Superyachts](#)
- [Maritime Tariffs](#)

BUSINESS

- [Growing the Economy](#)
- [Bid Opportunities](#)
- [Economic Development](#)
- [Contracting Activity](#)
- [Real Estate](#)
- [Tourism](#)
- [Conference Facilities](#)
- [Cargo & Logistics](#)

COMMUNITY

- [Supporting the Community](#)
- [Community Engagement](#)
- [Workforce Development](#)
- [Environment & Sustainability](#)
- [Community Grants](#)
- [Events at the Port](#)
- [Waterfront Parks](#)

ABOUT

- [Our Mission](#)
- [Commission](#)
- [Leadership](#)
- [Orders, Resolutions, & Policies](#)
- [Finance](#)
- [Public Records](#)
- [Port Police](#)
- [Port Fire Department](#)
- [Port Programs & Projects](#)

Maps
SEA Airport
Employees

Leasing & Tenant
Resources

Air Cargo

The Conference
Center at SEA

First Amendment
Activities

SEA Airport
Community &
Environment

Northwest Seaport
Alliance

Global Connections

Regional
Transportation

Labor Partners

Places

Labor Relations

Contacts

Internal Audit

Equity, Diversity, &
Inclusion



[NEWSROOM](#) | [EMPLOYEE SERVICES](#) | [CAREERS](#) | [PAY YOUR BILL](#)

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