



Exploring a Green Corridor for Cruise from the Pacific Northwest to Alaska

WPPA Environmental Seminar
September 22, 2023

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Alaska

- Home Port
- Port of Call



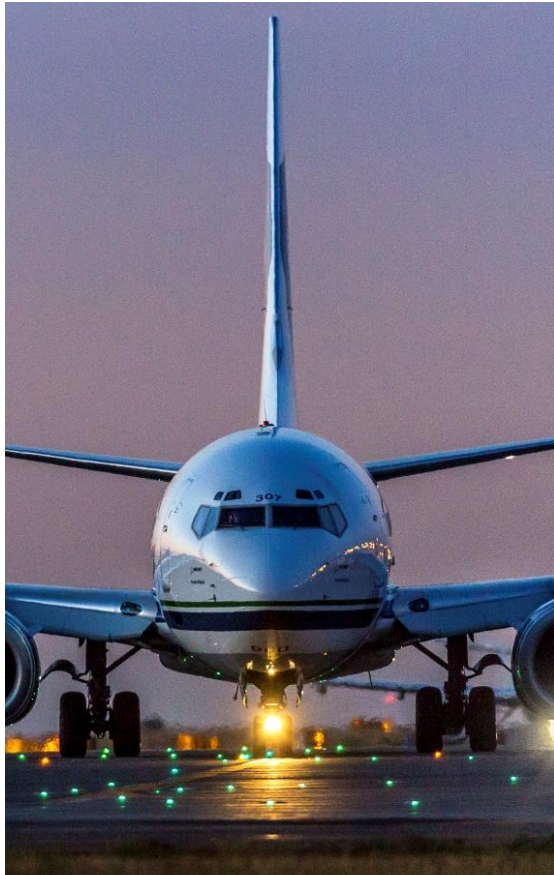
Canada

VANCOUVER

SEATTLE

USA

PORT OF SEATTLE | Key Part of Regional Economy



**SEA INTERNATIONAL
AIRPORT**

*11th Busiest Airport
in North America*



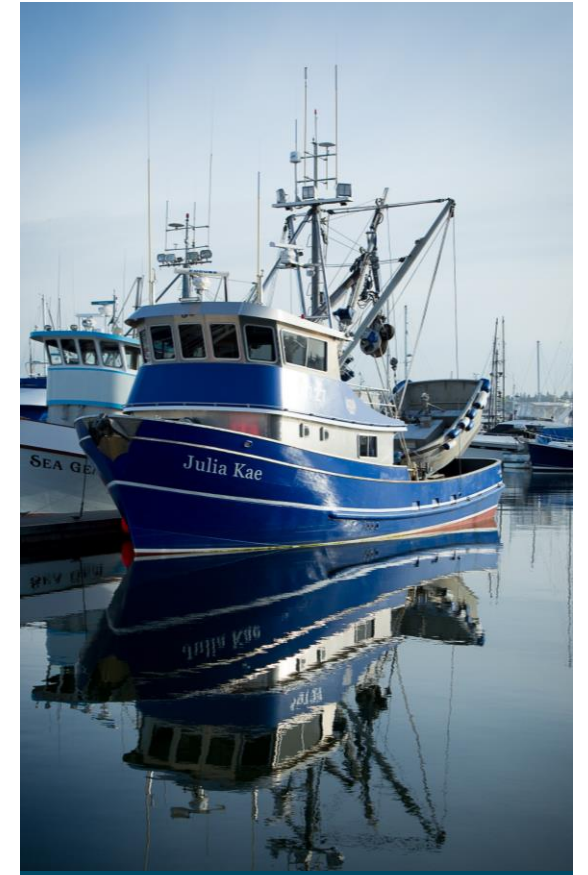
**INTERNATIONAL
CRUISE**

*Largest Cruise Port on
the U.S. West Coast*



**MARITIME CARGO,
CONTAINER, AND BULK**

*7th Largest Cargo Gateway
in North America*



**FISHING, BOATING, AND
REAL ESTATE**

*Home of the U.S. North Pacific
Fishing Fleet*



↑
**BELL STREET
CRUISE TERMINAL**
Pier 66

↙
**SMITH COVE
CRUISE TERMINAL**
Terminal 91

Charting our Course to Zero

Toward the Greenest Port in North America



- *Shore power*
- *Vessel performance*
- *Explore a Green Corridor, clean fuels and clean energy*

50% reduction in all Port-related emissions

- *100% shore power*
- *Install clean energy infrastructure*
- *Pilot novel propulsion*
- *Clean maritime fuels*

Net zero Port-controlled GHG emissions

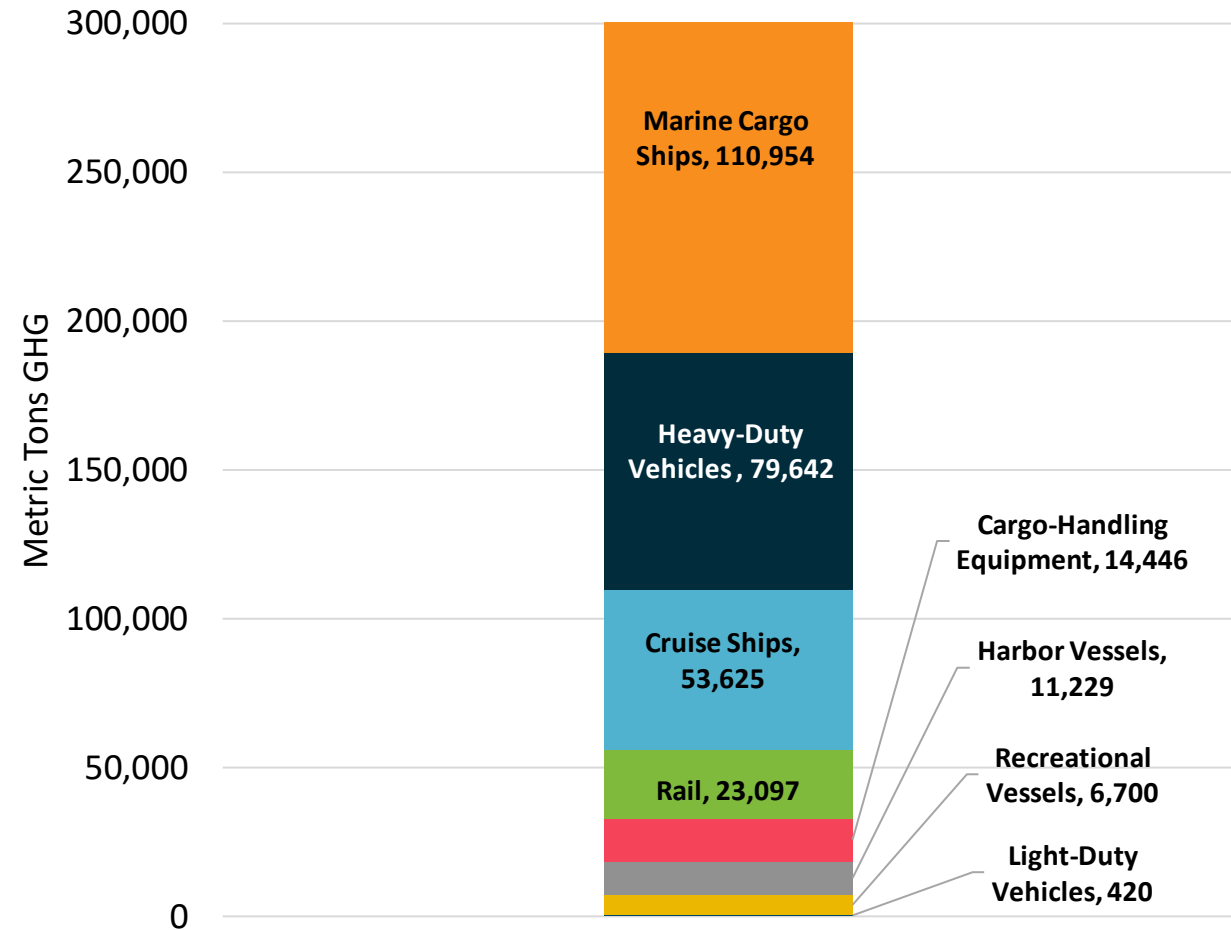
Carbon neutral for industries operating at Port of Seattle



The Challenge: Seaport GHG Emissions



*GHG from Port of Seattle and Northwest Seaport Alliance
North Harbor Operations, 2016*



The Opportunity

Royal Caribbean Sets 'Destination Net Zero,' Green Goals For Ships

Norwegian Cruise Line Holdings Commits to Pursue Net Zero Greenhouse Gas Emissions by 2050

April 21, 2022 9:40am EDT

[Download](#)

Carnival Corporation Sets 2050 Net-Zero Emissions Target

CLIA NEWS | APRIL 26, 2022

Cruise Industry is Sailing Toward a Better Future

[Commentary](#) [Environment & Sustainability](#) [Features](#) [Port of Seattle](#) [Transportation](#)

Are Cruise Ships Crushing Seattle's Climate Goals?

By Andrew Engelson - May 5, 2023

IMO Under Pressure to Tackle CO2 Emissions

Posted by Joseph Keefe April 9, 2018

US Environmental Protection Agency (EPA) Announces \$4 Billion For Clean Port Upgrades

By MI News Network | May 8, 2023 | Shipping News

CRUISE · DECARBONIZATION



Norway challenges the cruise industry to operate emission free

Environmental regulations are tightening up everywhere, but nowhere faster or firmer than in Norway's World Heritage Fjords. The Norwegian parliament has decreed that the country's UNESCO-protected fjords shall be free from cruise and ferry emissions no later than 2026.

The Pacific Northwest to Alaska Green Corridor Project

- Home Port
- Port of Call



Alaska

Haines
Juneau
Skagway
Sitka

Canada

VANCOUVER

SEATTLE

USA

Victoria

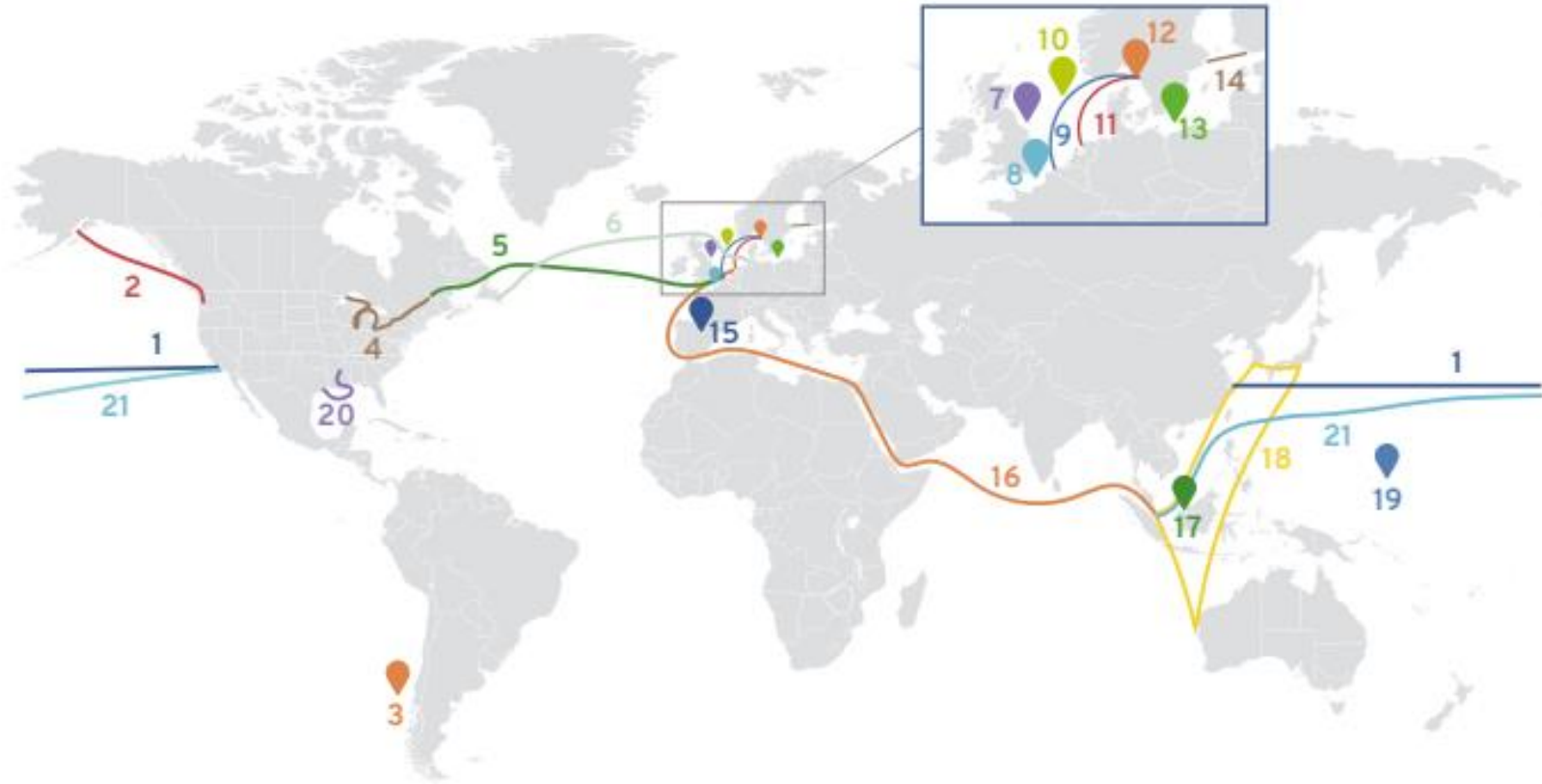


Vancouver Fraser Port Authority



What is a Green Corridor?

A shipping route where low and zero greenhouse gas emission solutions are demonstrated and supported through collaboration across sectors to accelerate maritime decarbonization



1. Shanghai- LA
2. Alaska, British Columbia, Washington
3. Chilean Green Corridor Network
4. Great Lakes- St. Lawrence
5. Antwerp-Montreal
6. Halifax-Hamburg
7. Clean Tyne Corridor

8. Dover-Calais/Dunkirk
9. Gothenburg-North Sea Port
10. H2 powered North Sea Crossing
11. Gothenburg-Rotterdam
12. European Green Corridor Network
13. Nordic Regional Corridors
14. Decatrip

15. Green Corridors Spain
16. Rotterdam- Singapore
17. SILK Alliance
18. Aus-Asia Iron Ore
19. QUAD Shipping Taskforce
20. Gulf of Mexico
21. Los Angeles-Long Beach-Singapore

Indicative – ports and routing not necessarily representative

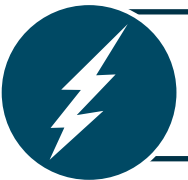
Considerations for a Green Cruise Corridor



Passenger safety and experience



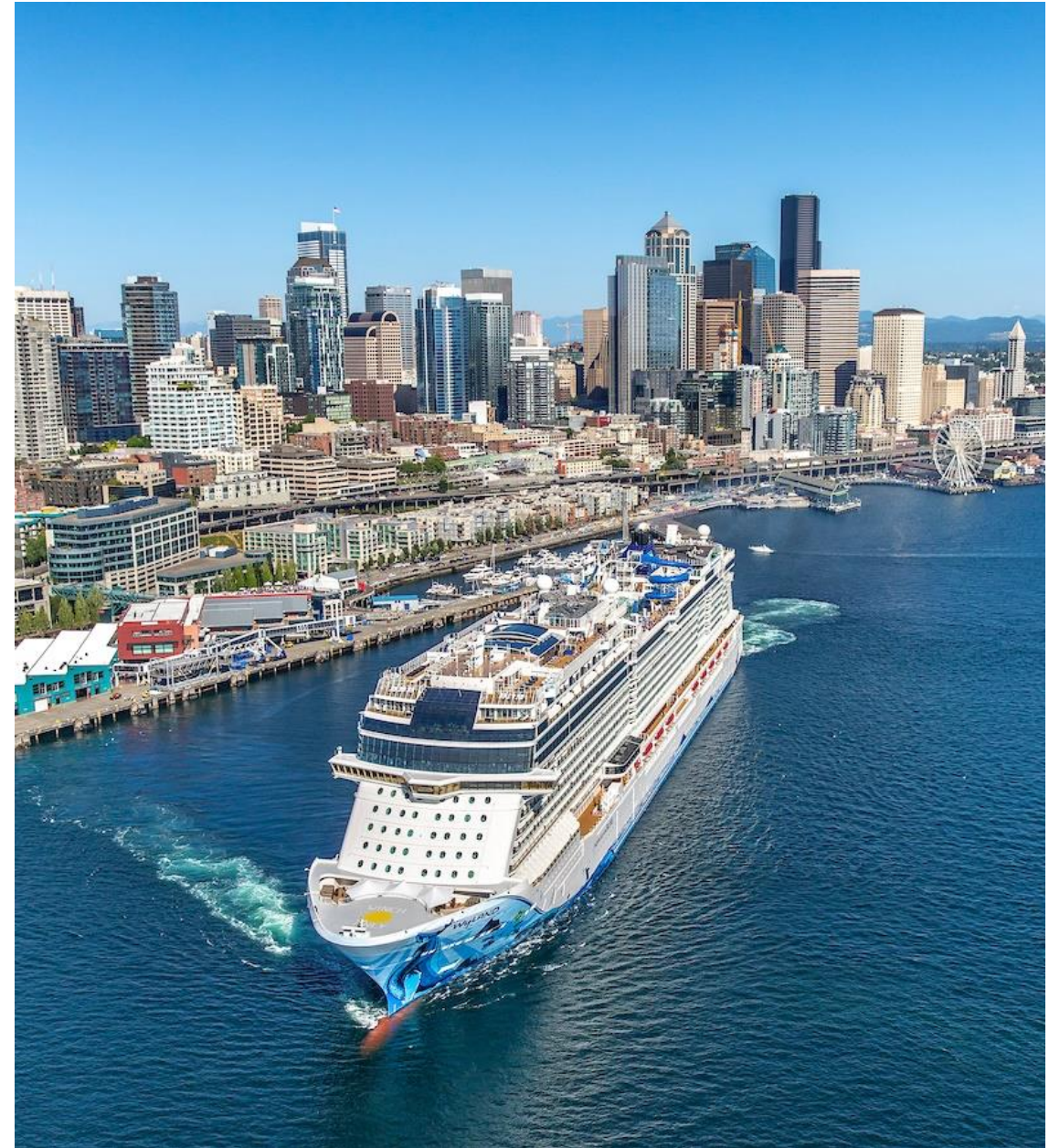
Different Port sizes and resources



High energy loads



Seasonality requires other fuel users



Progress and Next Steps



Roadmap for Clean Energy

Electrifying the Waterfront

- City Utility Partnership
- Load Forecasting
- Infrastructure Assessments
- Financing Projects

Maritime Clean Fuels

- Green Hydrogen Hub
- Maritime Fuels Collaborative
- Research
- Storage Feasibility
- Fuel Pathway Development
- Market Economics

Thank you!

Melissa Parks
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Port 
of Seattle®

