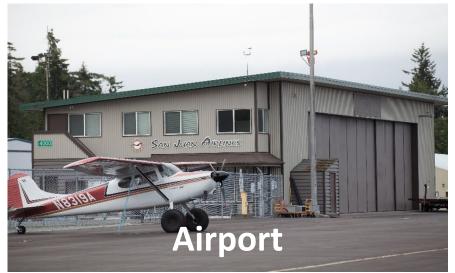


Operating Areas

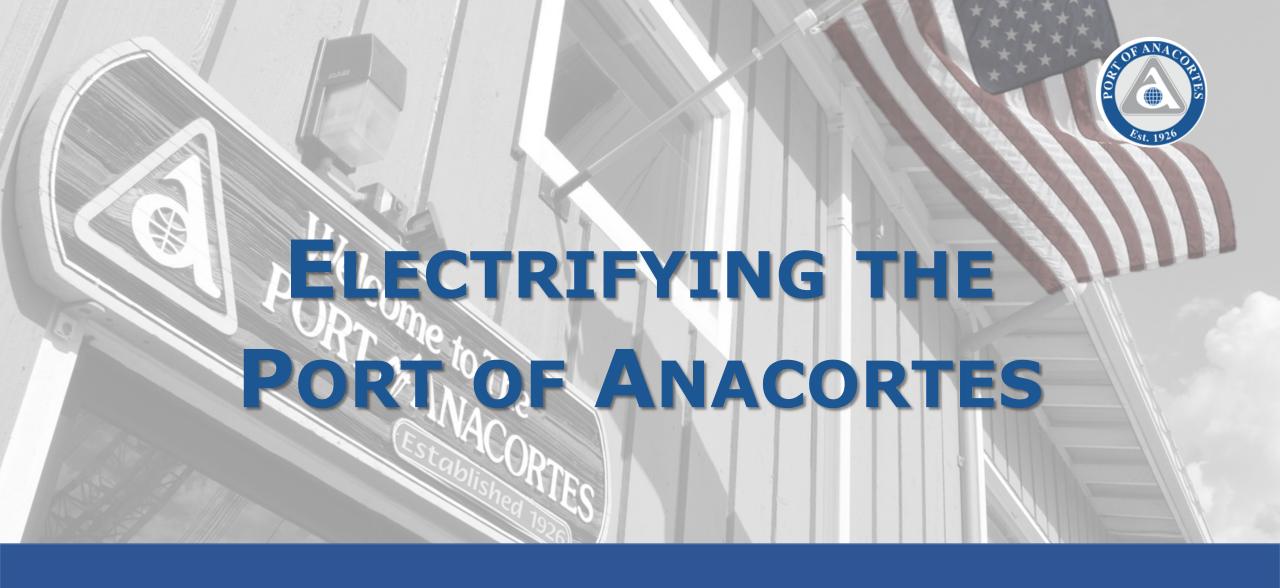








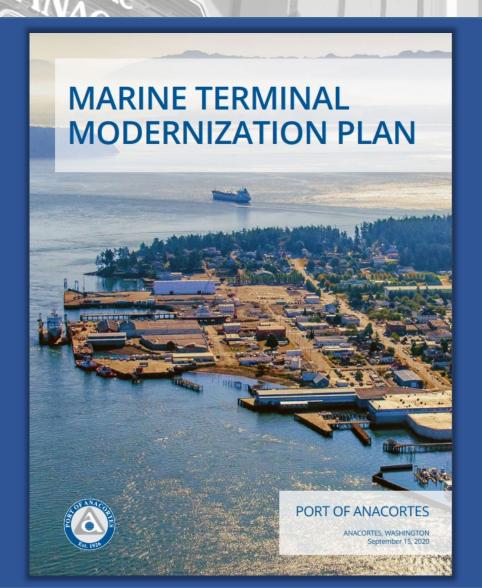




DECEMBER 11, 2024

MARINE TERMINAL MODERNIZATION PLAN





CURTIS WHARF ELECTRIFICATION: SHORE POWER



Legislative Appropriation through WSDOT

Scope: (2) 200A 480V mobile skids to power harbor craft at berth

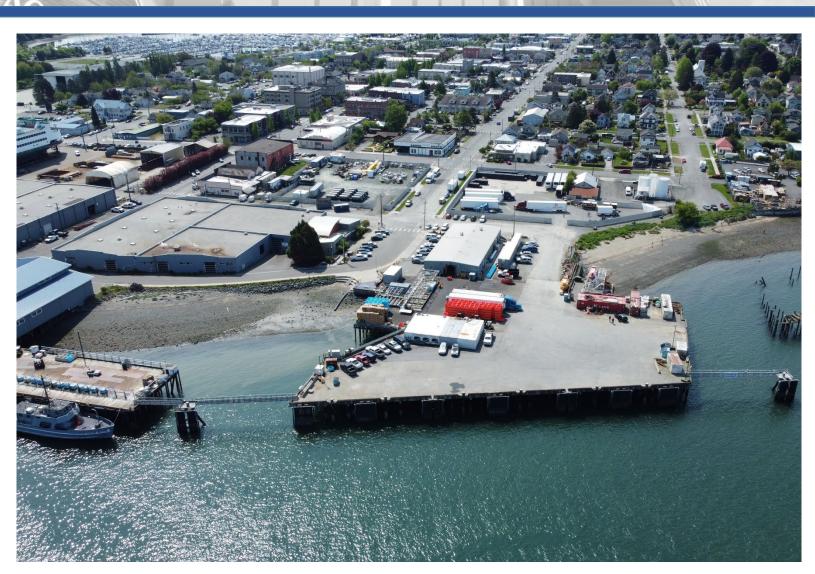
Cost: \$2.2 million

State Funding:

2023 \$ 500,000

<u>\$1,500,000</u>

Total \$2,000,000





ELECTRIFICATION: KEY TO A MORE SUSTAINABLE FUTURE



WSDOT Port Electrification Grant

Funding Mechanisms

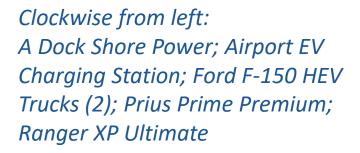
WSDOT Funded \$1,030,599

Port Funded \$ 257,650

Total Project Cost \$1,288,248









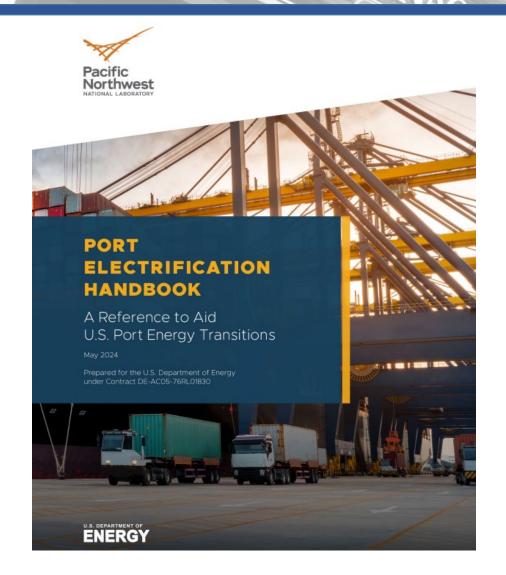


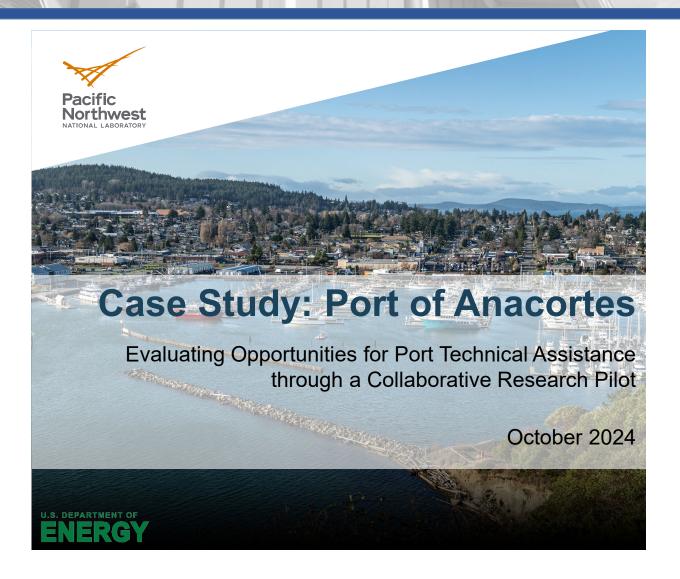




PNNL: PORT ELECTRIFICATION







PNNL: CASE STUDY FOR PORT TECHNICAL ASSISTANCE



Purpose: Determine what types of technical assistance would Ports need to better understand the most effective course of action to reduce emissions.

- Renewable Energy Assessments:
 Solar Energy
 Wind Energy
 Marine Energy
- Micorgrid Analysis
- Decarbonization Life-Cycle Analysis

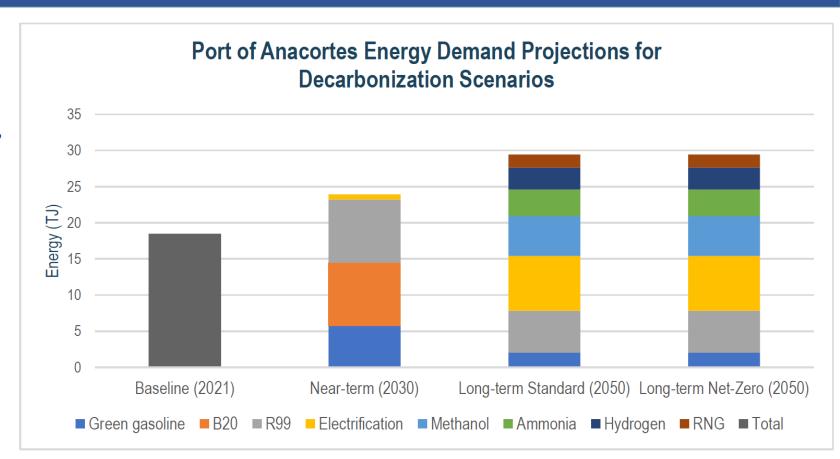


Figure 5. A breakdown of the historical and projected energy demand by energy type for mobile emissions sources at the Port of Anacortes. The Baseline (2021) scenario includes primarily fossil fuel energy sources—gasoline, MDO, ULSD—and some hybrid technologies.



Building Towards a Cleaner Community by Planning for the Future

EPA Clean Ports Program: Climate & Air Quality Planning Competition

PLANNING FOR THE FUTURE

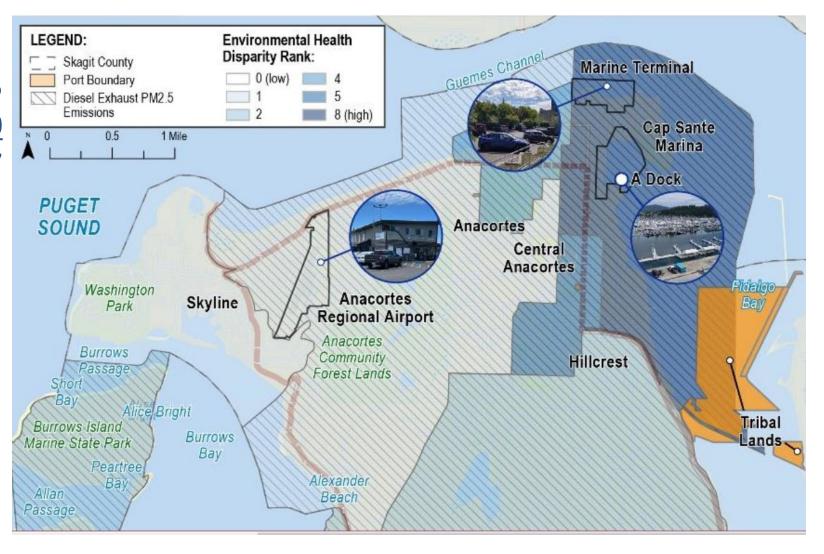
Within the Port of Anacortes



Funding

EPA Funding Request
Port Funded
Total Project Cost

\$1,355,955 \$150,6620 \$1,506,617



PLANNING FOR THE FUTURE



Within the Port of Anacortes

EPA Planning: Work Plan Project Summary

- Emissions Inventory & Accounting Exercise Port-wide Equipment Inventory List, Traffic Emissions Baseline & Model, and Emissions Inventory of Port
- Emissions Reduction Strategy & Goal-Setting

 Emissions simulations and reduction analysis, feasibility assessment, Port-wide Air Quality and Climate target setting, Port Emissions Reduction Implementation Plan
- Stakeholder Collaboration & Communication
 Stakeholder Engagement Plan, Environmental Justice Outreach Plan, Community Benefits Plan,
 Workforce planning and development
- Resilience Planning

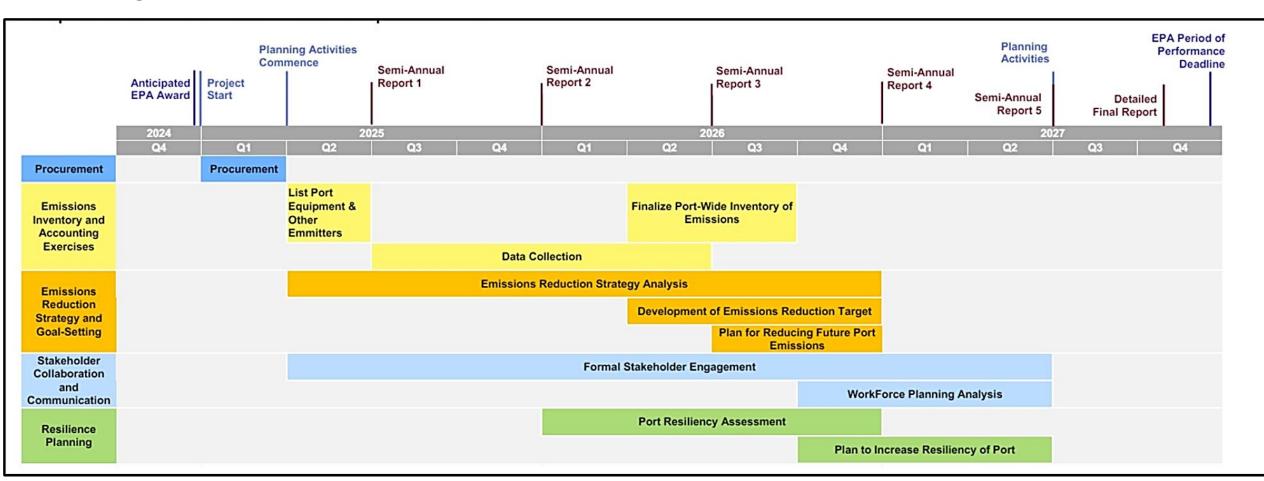
 Overall infrastructure and operational assessment of the Port Resiliency, and Implementation Plan

PLANNING FOR THE FUTURE





Planning Grant Timeline





Building a Cleaner Future by Implementing Zero-Emission Equipment

Clean Ports Program: Zero-Emission Technology Deployment Competition



Within the Port of Anacortes

Lead Applicant

Port of Anacortes

Collaborators/Sub-awardees

Stabbert Marine & Industrial
Arrow Launch Service
Culbertson Marine Construction
Island Express Charters
Skyline Marine Center
Washington State Ferries

EPA Funding Request Port/Private Match Total Project Cost \$63,803,293 \$10,312,006 \$74,115,299



Within the Port of Anacortes

Port of Anacortes

- ZE Equipment
- Shore Power at Cap Sante Marina

A Dock – (3) 200A/480V T Dock – (2) 200A/480V

Staff Training

Total: \$2.7 Million

EPA Funding	Non-Federal Cost Share			
Equipment				
\$65,830	\$7,315			
\$84,537	\$9,393			
\$132,684	\$14,742			
\$148,939	\$16,549			
\$164,062	\$18,229			
\$135,000	\$15,000			
\$731,052	\$81,228			
¢00,000	¢11 000			
\$99,000	\$11,000			
\$81,900 \$9,100				
		\$180,900	\$20,100	
Construction				
\$648,000	\$72,000			
\$495,900	\$55,100			
\$112,500	\$12,500			
\$112,500	\$12,500			
\$1,368,900	\$152,100			
	\$65,830 \$84,537 \$132,684 \$148,939 \$164,062 \$135,000 \$731,052 \$99,000 \$81,900 \$180,900 \$495,900 \$112,500 \$112,500			



Within the Port of Anacortes

T Dock Electric Upgrades

Provide 2 Opportunity Charging Pedestals of 200A 480V 3P service



A Dock Electric Upgrades

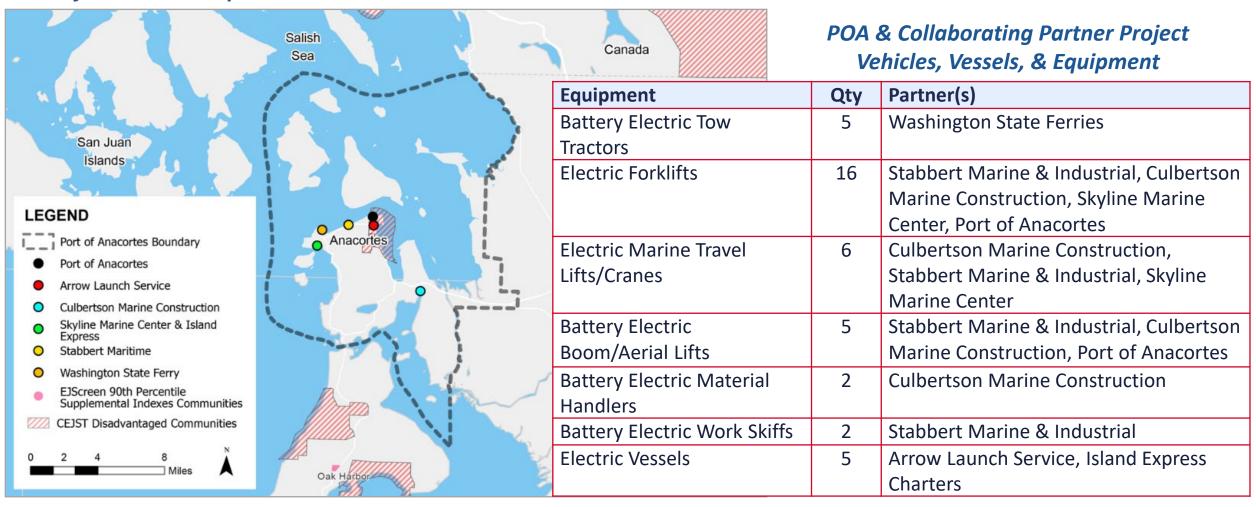
Provide 3 Slip-based Charging Pedestals of 200A 480V 3P service





Within the Port of Anacortes

Port of Anacortes Map





Within the Port of Anacortes

Project Timeline & Milestones

Task	Start	Completion	Milestones/Deliverables
Task 1 Project Management &	December	November	Project Kick-off; PMP; Project Meetings
Administration	2024	2028	
Task 2 Community Outreach &	December	November	Education and Outreach Materials, Community
Engagement	2024	2028	Workshops and Forums, School Visits,
			Newsletters, and E-mail
Task 3 Preconstruction Activities	December	March	100% Design Documents, Bid Documents, Bid
	2024	2027	Documents Release(s), Permits, Contractor
			Awards
Task 4 Vehicle, Vessel, & Equipment	December	November	Purchase Orders, Vehicle, Vessel, and
Procurement	2024	2026	Equipment Delivery
Task 5 Infrastructure Construction	March	December	Infrastructure Construction, Charging
&/or Installation	2025	2027	Equipment Installation
Task 6 Commissioning & Training	January	November	Testing, Training Materials, Training Sessions
	2025	2028	
Task 7 Grant Reporting	June	November	Semiannual Progress Reports, Final Report
	2025	2028	



PORT OF ANACORTES