



Clean Ports Program Selections

The U.S. Environmental Protection Agency announced 55 selected applications <<https://epa.gov/newsreleases/biden-harris-administration-announces-selections-nearly-3-billion-investments-clean>> for nearly \$3 billion in Clean Ports Program <<https://epa.gov/ports-initiative/cleanports>> grants funded through the Inflation Reduction Act. The selected applications will fund zero-emission port equipment and infrastructure as well as climate and air quality planning at U.S. ports located in 27 states and territories.

This new funding program was built on EPA's Ports Initiative, which helps our nation's ports, a critical part of our infrastructure and supply chain, address public health and environmental impacts on surrounding communities.

The goals of the Clean Ports Program are to:

- Build a foundation for the port sector to transition over time to fully zero-emissions operations, positioning ports to serve as a catalyst for transformational change across the freight sector.
- Reduce diesel pollution (including criteria pollutants, GHGs, and air toxics) in near-port communities, especially those with environmental justice concerns.
- Help ensure that meaningful community engagement and emissions reduction planning become a part of port industry standard practices.

EPA anticipates making awards once all legal and administrative requirements are satisfied. Selectees will work with EPA over the coming months to finalize project plans before receiving final awards and moving into the implementation phase. Project implementation will occur over the next three to four years depending on the scope of each project.

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Key Things to Know

- The Clean Ports Program selected applications fall under two funding opportunities:
 - The **Climate and Air Quality Planning (CAQP) Competition** funds climate and air quality planning activities at U.S. ports to build the capacity of port stakeholders to continue to reduce pollution and transition to zero-emissions operations over time.
 - The **Zero-Emission Technology Deployment (ZE Tech) Competition** funds zero-emission port equipment and infrastructure to reduce mobile source emissions (criteria pollutants, air toxics, and/or greenhouse gases) at U.S. ports, delivering cleaner air for communities across the country.
- Funds will support **climate and air quality planning** and the purchase of battery-electric and hydrogen-powered **port equipment**. The proposed projects include over 1,500 units of cargo handling equipment, 1,000 drayage trucks, 10 locomotives, and 20 vessels, as well as shore power systems and solar power generation.
- The program builds on efforts to **advance clean technologies** and planning practices to **improve air quality** at ports through EPA's Ports Initiative and Diesel Emissions Reduction Act programs, which previously invested over \$196 million to implement 207 diesel emissions reduction projects at ports and an additional \$88 million to multi-sector projects that involve ports .
- Through the innovation, installation, and maintenance of zero-emissions equipment and infrastructure, the Clean Ports Program will create **new, high-quality and good-paying jobs** in the domestic clean energy sector and enhance the U.S.' economic competitiveness.
- The selected projects will implement **advanced technologies to modernize port infrastructure** in order to reduce emissions while also providing safe and efficient movement of goods and passengers.
- 43 of the selected Clean Ports Program projects (21 CAQP and 22 ZE Tech) are located at hubs designated by the **National Zero-Emission Freight Corridor Strategy** [🔗 <https://driveelectric.gov/files/zef-corridor-strategy.pdf>](https://driveelectric.gov/files/zef-corridor-strategy.pdf). Many of the selected Clean Ports projects complement the charging and hydrogen fueling infrastructure deployment priorities outlined in the Strategy, including supporting an all-of-government approach to catalyze public and private investment, accelerate industry activity, and signal electricity and hydrogen markets to plan and deploy necessary generation, transmission, and distribution projects.

Total

55

applications selected

\$2.9B

total estimated funding

CAQP

30

applications selected

\$60M

total estimated funding

ZE Tech

25

applications selected

\$2.8B

total estimated funding

Environmental Justice

Awards made for this program will improve air quality in near-port communities where people live, work, and play. Over half of the selected projects have a primary place of performance in disadvantaged communities experiencing poor air quality.

EPA ensured that near-port meaningful community engagement and equity considerations are core components of the Clean Ports Program, including by evaluating applications on the extent and quality of community engagement efforts. All recipients of Clean Ports Program funding will be required to engage with near-port communities about the project during the performance period.

Funding recipients can use **Community Port Collaboration** <<https://epa.gov/community-port-collaboration>> resources developed by EPA's Ports Initiative to help them advance environmental justice and support effective communication and engagement between the port industry, communities, and other port stakeholders. Tools include the Environmental Justice Primer for Ports <<https://epa.gov/community-port-collaboration/environmental-justice-primer-ports>>, Ports Primer for Communities <<https://epa.gov/community-port-collaboration/ports-primer-communities>>, Community Action Roadmap <<https://epa.gov/community-port-collaboration/community-action-roadmap-empowering-near-port-communities>>, case studies on pilot projects <<https://epa.gov/community-port-collaboration/community-port-collaboration-pilot-projects>>, and more.

Number of Selected Applications with ZE Technology Type



Cargo Handling Equipment (CHE)

21

Selected Applications



Dray Trucks/Onroad Vehicles

9

Selected Applications



Rail

9

Selected Applications



Vessels

8

Selected Applications



Shore Power

15

Selected Applications

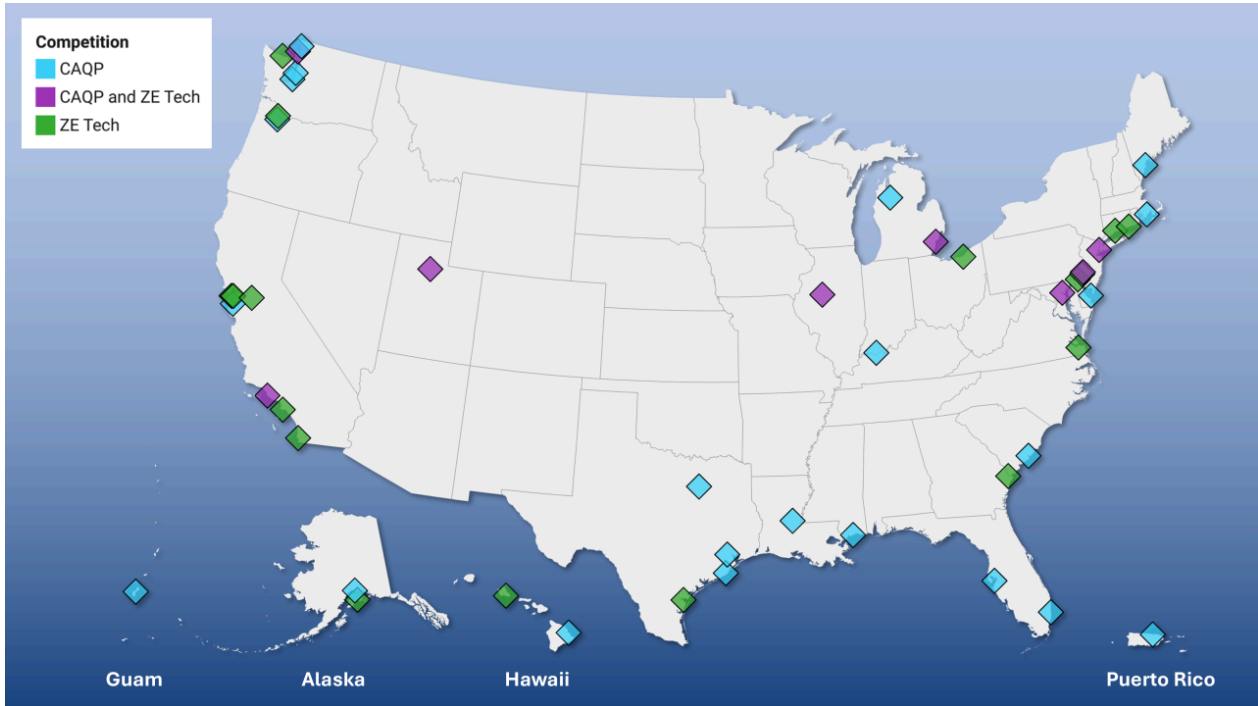


Solar Power Generation

9

Selected Applications

Project Locations



Locations of selected CAQP and ZE Tech applications.

Selected Applications

Note: Though not listed in this table, the majority of ZE Tech selected projects also include community engagement and workforce development activities.

Show entries

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| Program | State | Selected Application | Project Details | Anticipated EPA Funding |
|----------------------------------|----------------------------------|---|---|-------------------------|
| <input type="button" value="v"/> | <input type="button" value="v"/> | <i>Use the search box to filter these columns</i> | | |
| CAQP | Alaska | Municipality of Anchorage - Don Young Port of Alaska Primary Port Location: Port of Alaska | <ul style="list-style-type: none"> Emissions inventory Assess clean energy alternatives, develop energy transition plan, evaluate technology deployment scenarios, safety analysis for hydrogen equipment Stakeholder engagement and workforce planning analysis | \$1,934,206 |

| Program | State | Selected Application | Project Details | Anticipated EPA Funding |
|----------------|--------------|--|--|--------------------------------|
| CAQP | California | Oxnard Harbor District Port of Hueneme Primary Port Location: Port of Hueneme | <ul style="list-style-type: none"> • Emissions inventory • Develop resiliency plan • Workforce impact analysis • Emissions reduction strategy and community air monitoring (funded separately) | \$1,211,600 |
| CAQP | California | Port of Redwood City Primary Port Location: Port of Redwood City | <ul style="list-style-type: none"> • Emissions inventory • Emissions reductions strategy with targets and actions through 2050 • Resilience assessment and improvement plan • Comprehensive public participation plan to engage stakeholders at each phase and strategy for collaborative workforce development | \$1,966,545 |
| CAQP | Florida | Broward County Primary Port Location: Port Everglades | <ul style="list-style-type: none"> • Update 2015 emissions inventory with new data/methodology and analyze reductions from 2015-2024 • Plan air emissions reduction strategies among sources identified in inventory • Conduct stakeholder engagement with communities and workforce | \$300,000 |
| CAQP | Florida | Tampa Port Authority Primary Port Location: Port Tampa Bay | <ul style="list-style-type: none"> • Emissions inventory • Emissions reduction strategy focused on feasibility, energy needs, and infrastructure upgrades needed to transition to ZE equipment and infrastructure • Stakeholder engagement plan to gather input on emissions reduction strategies and engage port workforce | \$1,800,000 |

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|----------------|--------------|--|--|--------------------------------|
| CAQP | Guam | Port Authority of Guam Primary Port Location: Port of Guam | <ul style="list-style-type: none"> • Emissions inventory • Develop emissions reduction strategy and implementation plan • Workforce development impact analysis and community engagement • Climate change vulnerability assessment | \$2,410,415 |
| CAQP | Hawaii | Hawaii Department of Transportation Primary Port Location: Multiple ports in Hawaii | <ul style="list-style-type: none"> • Emissions inventory across 9 Hawai'i ports • Recommendations and strategies for emissions reductions • Engagement with near-port communities | \$2,500,000 |
| CAQP | Illinois | Illinois Environmental Protection Agency Primary Port Location: Illinois Waterway Ports and Terminals Port Statistical Area, IL | <ul style="list-style-type: none"> • Emissions inventory • Set emissions reductions goals for thousands of vehicles in operation • Strategies for resiliency and community development • Guidance on workforce development opportunities | \$2,997,998 |
| CAQP | Indiana | Ports of Indiana Primary Port Location: Southern Indiana Ports District | <ul style="list-style-type: none"> • Emissions inventory across 2 Ohio River ports • Emissions reduction target settings and strategy analysis • Ports plan to conduct resiliency planning, community engagement, and workforce development separate from grant funding | \$500,000 |

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|----------------|---------------|--|---|--------------------------------|
| CAQP | Louisiana | Louisiana Department of Transportation and Development Primary Port Location: Multiple ports in Louisiana | <ul style="list-style-type: none"> • Develop power use and carbon footprint baseline for 32 Louisiana ports • Develop plans to move towards carbon neutrality • Integrate communities into port decision making • Develop plans to enhance resiliency of ports during severe weather events • Workforce development activities | \$2,999,889 |
| CAQP | Maine | MaineDOT Primary Port Location: Port of Portland | <ul style="list-style-type: none"> • Emissions inventory and projected emissions inventory with shore power options • Evaluate feasibility of electrification and shore power implementation throughout Maine including grid capacity analysis • Community collaboration | \$1,000,000 |
| CAQP | Maryland | Maryland Port Administration / MD Dept of Transportation Primary Port Location: Port of Baltimore | <ul style="list-style-type: none"> • Update and expand emissions inventory • Alternative energy analysis with emissions reduction strategy plan • Workforce analysis and community engagement plan | \$1,974,660 |
| CAQP | Massachusetts | Massachusetts Clean Energy Center Primary Port Location: Port of New Bedford | <ul style="list-style-type: none"> • Emissions inventory • Develop emissions reduction strategy including feasibility study for ZE technologies • Workforce impact analysis and stakeholder engagement throughout the project | \$528,740 |

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|---------|-------------------------|--|---|-------------------------|
| CAQP | Michigan | Detroit/Wayne County Port Authority Primary Port Location: Port of Detroit | <ul style="list-style-type: none"> • Develop a roadmap for emissions reductions with shore power, ZE medium- and heavy-duty vehicles and port equipment, EV and hydrogen fueling infrastructure • Develop a plan for ensuring local workers and small businesses are included in the transition to ZE • Community and stakeholder engagement with multiple pathways for engagement | \$3,000,000 |
| CAQP | Michigan | Michigan Department of Environment, Great Lakes, and Energy Primary Port Location: Multiple ports in Michigan | <ul style="list-style-type: none"> • Create a competitive grant program for Michigan water ports to fund eligible activities (resiliency planning, stakeholder engagement, workforce planning, emissions inventories, analyses and accounting practices, development of emissions reductions goals) • Capacity building, workforce development, and engagement with near-port communities | \$3,000,000 |
| CAQP | Mississippi | Mississippi State Port Authority Primary Port Location: Port of Gulfport | <ul style="list-style-type: none"> • Complete updated emissions inventory • Emissions reduction strategy including development of ZE technology implementation roadmap • Community engagement via public forum and workforce development program informed by a skills gap analysis | \$1,854,783 |
| CAQP | New Jersey; Delaware | Delaware River and Bay Authority Primary Port Location: Cape May - Lewes Ferry Terminals | <ul style="list-style-type: none"> • Emissions inventory covering all aspects of ferry operations • Emissions reduction strategy analysis, including goal-setting and stakeholder outreach with communities and workforce • Resilience planning and evaluation | \$540,000 |

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|---------|----------------------|---|---|-------------------------|
| CAQP | New York; New Jersey | Port Authority of New York and New Jersey Primary Port Location: Port of New York and New Jersey | <ul style="list-style-type: none"> • Emissions inventory and community-centric air monitoring project • Formal community and independent truck owner engagement • Emissions reduction strategy analysis creating a plan to reduce future port emissions, including determining optimal locations for future drayage truck alternative fueling infrastructure | \$3,000,000 |
| CAQP | Oregon | Port of Portland Primary Port Location: Port of Portland | <ul style="list-style-type: none"> • Emissions inventory including alternative energy/fuels analysis • Emissions reductions strategy analysis including future emissions projections • Community engagement and creation of workforce impact analysis • Update port resilience plan to include applications of ZE technology to increase resilience | \$2,772,684 |
| CAQP | Pennsylvania | Philadelphia Regional Port Authority Primary Port Location: Port of Philadelphia | <ul style="list-style-type: none"> • Baseline of emissions generated by terminal operations • Identify availability of terminal and near-terminal space and outline a strategy to power and deploy zero-emission equipment • Community engagement and workforce development | \$2,000,000 |
| CAQP | Puerto Rico | Puerto Rico Ports Authority Primary Port Location: Port of San Juan | <ul style="list-style-type: none"> • Emissions inventory and projected "business as usual" emissions inventories for 2030/2050 • Develop emissions reductions strategies focused on vehicles • Engage with stakeholders • Develop a resiliency plan to protect infrastructure | \$1,800,000 |

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|----------------|----------------|---|---|--------------------------------|
| CAQP | South Carolina | South Carolina State Ports Authority Primary Port Location: Port of Charleston | <ul style="list-style-type: none"> • Update 2021 emissions inventory • Analyze emissions reductions strategies including state-wide hydrogen equipment/fueling feasibility • Consider community input and workforce development | \$1,325,000 |
| CAQP | Texas | City of Wilmer Primary Port Location: Dallas Intermodal Terminal | <ul style="list-style-type: none"> • Emissions inventory • Emissions reduction strategy, including development of specific emissions reduction targets for heavy-duty vehicles • Community engagement meetings and door to door canvassing to provide updates and receive input | \$2,999,649 |
| CAQP | Texas | Houston Authority, Port of Primary Port Location: Port Houston | <ul style="list-style-type: none"> • Emissions inventory • Emissions reduction strategy analysis including truck route analysis, infrastructure cost assessment, climate action planning, and developing a performance measurement framework • Stakeholder collaboration with communities, trucking industry, and workforce • Resiliency planning | \$2,983,457 |
| CAQP | Texas | Port Freeport Primary Port Location: Port Freeport | <ul style="list-style-type: none"> • Emissions inventory • Port resiliency and implementation plan and electrical feasibility analysis • Comprehensive near-port community benefits and workforce plan | \$1,487,000 |

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|----------------|--------------|---|--|--------------------------------|
| CAQP | Utah | Utah Inland Port Authority Primary Port Location: Salt Lake City Intermodal Terminal | <ul style="list-style-type: none"> • Emissions inventory • Emissions reduction strategy and scenario analysis • Workforce impact analysis and stakeholder engagement | \$2,398,790 |
| CAQP | Washington | Northwest Seaport Alliance Primary Port Location: Port of Tacoma | <ul style="list-style-type: none"> • Emissions inventory • Terminal-specific feasibility analysis of ZE technology with planning to transition 40 pieces of CHE and light-duty vehicles to zero-emissions, and engineering and design for shore power • Consider workforce development and community needs in planning process • Consider climate resilience needs in planning process | \$3,000,000 |
| CAQP | Washington | Port of Anacortes Primary Port Location: Port of Anacortes | <ul style="list-style-type: none"> • Emissions inventory • Development of emissions reductions plan including port-wide air quality and climate targets • Workforce planning and community collaboration via stakeholder engagement plan, EJ outreach plan and community benefits plan • Resiliency assessment | \$1,355,955 |
| CAQP | Washington | Port of Bellingham Primary Port Location: Port of Bellingham | <ul style="list-style-type: none"> • Build on significant emissions inventories and planning work • Develop a port-wide energy transition action plan with focus on resiliency and long-term emissions reductions • Community engagement framework and workforce development assessment | \$1,525,892 |

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|----------------|--------------|---|---|--------------------------------|
| CAQP | Washington | Port of Seattle Primary Port Location: Port of Seattle | <ul style="list-style-type: none"> • Vessel activity and maritime fuel inventory • Harbor vessel decarbonization feasibility study and sustainable maritime fuels transition analysis • Engagement with industry, workforce, and near-port communities | \$2,997,248 |
| ZE Tech | Alaska | City of Seward Primary Port Location: Port of Seward | <ul style="list-style-type: none"> • Vessel shore power • Battery energy storage system and electrical infrastructure upgrades | \$45,732,040 |
| ZE Tech | California | City of Los Angeles Harbor Department Primary Port Location: Port of Los Angeles | <ul style="list-style-type: none"> • Electric cargo handling equipment and drayage trucks • Charging infrastructure, solar generation, and battery energy storage system • Vessel shore power | \$411,688,296 |
| ZE Tech | California | Oxnard Harbor District Port of Hueneme Primary Port Location: Port of Hueneme | <ul style="list-style-type: none"> • Electric cargo handling equipment and zero-emission drayage trucks • Charging infrastructure and battery energy storage system | \$41,076,293 |
| ZE Tech | California | Port Department of the City of Oakland Primary Port Location: Port of Oakland | <ul style="list-style-type: none"> • Electric and hydrogen cargo handling equipment and drayage trucks • Charging infrastructure, solar generation, and battery energy storage system | \$322,167,584 |
| ZE Tech | California | Port of San Francisco Primary Port Location: Port of San Francisco | <ul style="list-style-type: none"> • Electric vessels • Vessel shore power | \$55,386,000 |

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|----------------|--------------|---|---|--------------------------------|
| ZE Tech | California | San Diego Unified Port District Primary Port Location: Port of San Diego | <ul style="list-style-type: none"> • Electric cargo handling equipment and onroad medium- and heavy-duty vehicles • Charging infrastructure • Vessel shore power | \$58,600,279 |
| ZE Tech | California | Stockton Port District Primary Port Location: Port of Stockton | <ul style="list-style-type: none"> • Electric cargo handling equipment • Charging infrastructure, solar generation, and battery energy storage system • Vessel shore power | \$110,469,349 |
| ZE Tech | Connecticut | Connecticut Port Authority Primary Port Location: Port of New London | <ul style="list-style-type: none"> • Vessel shore power | \$5,357,103 |
| ZE Tech | Connecticut | Enstructure New Haven Holdings LLC, d/b/a Gateway Terminals Primary Port Location: Port of New Haven | <ul style="list-style-type: none"> • Electric cargo handling equipment • Charging infrastructure, solar generation, and battery energy storage system | \$34,032,340 |
| ZE Tech | Delaware | Diamond State Port Corporation Primary Port Location: Port of Wilmington | <ul style="list-style-type: none"> • Electric cargo handling equipment • Charging infrastructure | \$127,510,094 |
| ZE Tech | Georgia | Georgia Ports Authority Primary Port Location: Port of Savannah | <ul style="list-style-type: none"> • Electric cargo handling equipment • Charging infrastructure • Vessel shore power | \$48,763,746 |
| ZE Tech | Hawaii | Hawaii Department of Transportation Primary Port Location: Honolulu Harbor | <ul style="list-style-type: none"> • Hydrogen cargo handling equipment • Hydrogen storage and fueling infrastructure | \$56,732,500 |

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|----------------|----------------------|---|--|--------------------------------|
| ZE Tech | Illinois | Illinois Environmental Protection Agency Primary Port Location: Illinois International Port District | <ul style="list-style-type: none"> • Electric drayage trucks, cargo handling equipment, vessels, railcar mover and locomotives; hydrogen locomotives • Charging and hydrogen fueling infrastructure, solar generation, and battery energy storage system • Vessel shore power | \$92,058,008 |
| ZE Tech | Maryland | Maryland Port Administration / MD Dept of Transportation Primary Port Location: Port of Baltimore | <ul style="list-style-type: none"> • Electric cargo handling equipment and drayage trucks • Charging infrastructure, battery energy storage system, electrical infrastructure upgrades | \$145,658,479 |
| ZE Tech | Michigan | Detroit/Wayne County Port Authority Primary Port Location: Port of Detroit | <ul style="list-style-type: none"> • Electric cargo handling equipment, vessels, and railcar movers • Charging infrastructure and solar generation | \$21,905,782 |
| ZE Tech | New York; New Jersey | Port Authority of New York and New Jersey Primary Port Location: Port of New York and New Jersey | <ul style="list-style-type: none"> • Electric cargo handling equipment, drayage trucks, and vessel • Vessel shore power | \$344,138,135 |
| ZE Tech | New York; New Jersey | SeaStreak LLC Primary Port Location: Atlantic Highlands Municipal Harbor | <ul style="list-style-type: none"> • Electric vessels • Battery energy storage system • Vessel shore power | \$54,954,000 |
| ZE Tech | Ohio | Cleveland-Cuyahoga County Port Authority Primary Port Location: Port of Cleveland | <ul style="list-style-type: none"> • Electric cargo handling equipment and vessels • Charging infrastructure, solar generation, and battery energy storage system • Vessel shore power | \$94,261,128 |

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| ZE Tech | Pennsylvania | Philadelphia Regional Port Authority Primary Port Location: Port of Philadelphia | <ul style="list-style-type: none"> • Electric cargo handling equipment and railcar mover • Charging infrastructure and electrical infrastructure upgrades | \$77,650,965 |
| ZE Tech | Texas | Port of Corpus Christi Authority Primary Port Location: Port of Corpus Christi | <ul style="list-style-type: none"> • Electric cargo handling equipment, locomotives, and vessels • Charging infrastructure • Vessel shore power | \$105,000,000 |
| ZE Tech | Utah | Utah Department of Environmental Quality Primary Port Location: Salt Lake City Intermodal Terminal | <ul style="list-style-type: none"> • Electric drayage trucks, locomotives, and cargo handling equipment • Charging infrastructure and solar generation | \$110,000,000 |
| ZE Tech | Virginia | Virginia Port Authority Primary Port Location: Port of Virginia | <ul style="list-style-type: none"> • Electric cargo handling equipment • Charging infrastructure and battery energy storage system | \$380,000,000 |
| ZE Tech | Washington | Port of Anacortes Primary Port Location: Port of Anacortes | <ul style="list-style-type: none"> • Electric cargo handling equipment and vessels • Charging infrastructure • Vessel shore power | \$63,803,293 |
| ZE Tech | Washington | Port of Port Angeles Primary Port Location: Port of Port Angeles | <ul style="list-style-type: none"> • Electric cargo handling equipment • Vessel shore power | \$9,457,362 |
| ZE Tech | Washington | Port of Vancouver Primary Port Location: Port of Vancouver | <ul style="list-style-type: none"> • Electric cargo handling equipment • Charging infrastructure • Vessel shore power | \$22,570,847 |

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