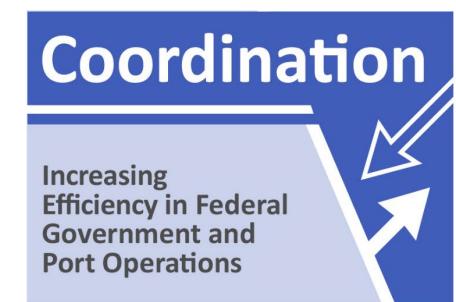


EPA's Ports Initiative and the new Clean Ports Program in the Inflation Reduction Act

Sarah Froman, Team Lead, EPA's Ports Initiative
EPA Office of Transportation and Air Quality

Draft for June 7, 2023



Promoting best practices to reduce diesel emissions at ports



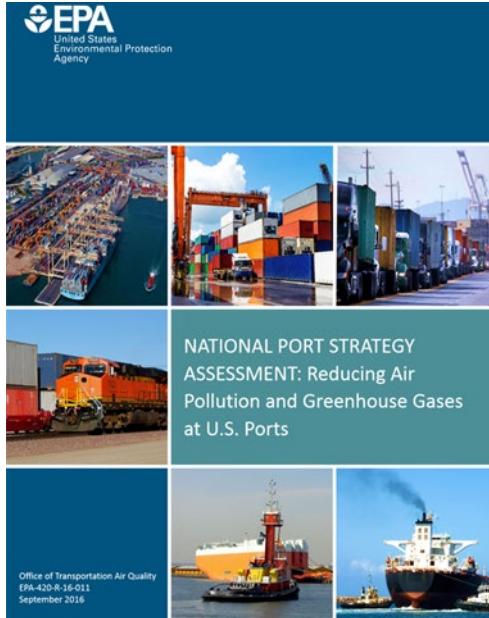
Through EPA tools and assistance in the five program areas, we aim to accelerate adoption of:

- **Cleaner technologies and other strategies**
- **Clean air planning practices** (emissions inventories, clean air plans, community engagement) that inform strategic clean air investments

Providing tools to help identify smart infrastructure investments

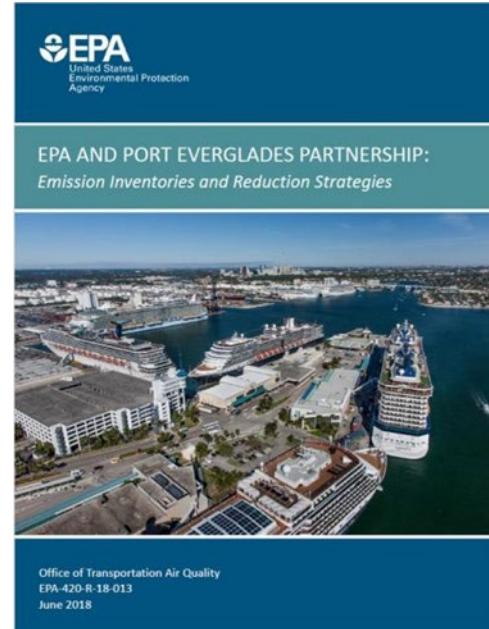


Technical Resources



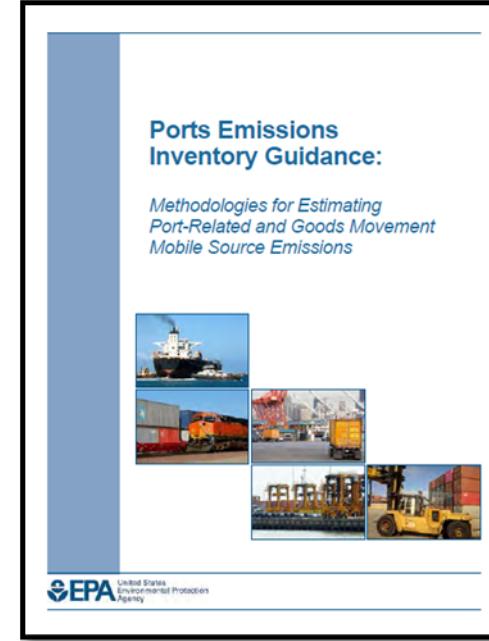
National Port Strategy Assessment: Reducing Air Pollution and Greenhouse Gases at U.S. Ports
September 2016

www.epa.gov/ports-initiative/national-port-strategy-assessment-reducing-air-pollution-and-greenhouse-gases-us



EPA, Port Everglades Report Shines Light on New Methods for Analyzing Potential Air Pollution Reductions
June 2018

www.epa.gov/ports-initiative/epa-and-port-everglades-partnership-emission-inventories-and-reduction-strategies



Port Emissions Inventory Guidance: Methodologies for Estimating Port-Related and Goods Movement Mobile Source Emissions
April 2022

<https://www.epa.gov/ports-initiative/port-and-goods-movement-emission-inventories>



Office of Transportation and Air Quality
EPA-420-R-22-037
December 2022

Shorepower report characterizes the technical and operational aspects of shore power systems, December 2022
<https://www.epa.gov/ports-initiative/shore-power-technology-assessment-us-ports>

Assessment of Fuel Cell Technologies at Ports (July 2022)



Technical
Resources

This report characterizes fuel cell systems, their history, and their potential utilization at ports and compares their emissions, cost, maintenance, and other features to traditional diesel applications.

The report describes:

- 1) Fuel cell background information
- 2) Current hydrogen fuel cell applications at ports
- 3) Emission analysis of hydrogen fuel cell technologies
- 4) Costs of using hydrogen fuel cell technologies



<https://www.epa.gov/ports-initiative/technical-resources-ports#Assessment>

Best Practices Web Area

- Best clean air practices generally and for each mobile source sector:
 - Port-wide planning
 - Drayage Trucks
 - Rail Facilities
 - Ocean Going Vessels
 - Cargo Handling Equipment
 - Harbor Craft
- Information:
 - Overview of practice
 - Technical resources
 - Tips on performance targets and data collection
 - Real world examples



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Best Clean Air Practices for Port Operations

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This webpage is one in a series of pages that provide information on best practices at ports to reduce diesel pollution and associated health impacts. Select another topic from menu above to explore other sector best clean air practices.



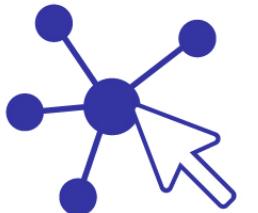
Reducing exposure to diesel exhaust at and near ports is important for public health and the environment.

Ports are gateways of commerce and drivers of the United States economy. Port activity also affects air quality. Emissions from diesel vehicles and equipment operating at ports can pose health risks to nearby communities that are

www.epa.gov/ports-initiative/best-clean-air-practices-port-operations



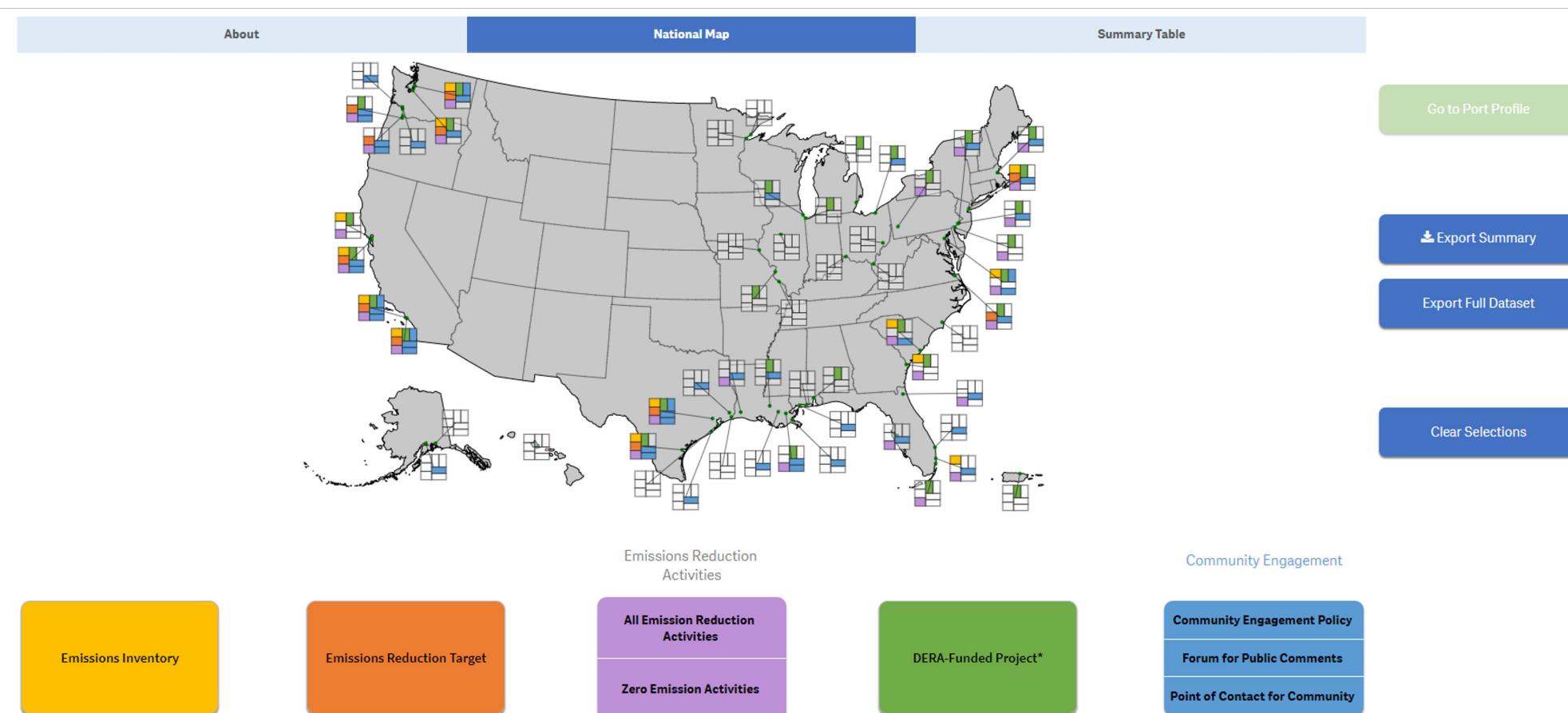
Interactive Map Highlighting Clean Air Practices at Ports



Clean Air Practices at Ports

This [EPA Ports Initiative](#) Clean Air Practices at Ports tool brings together real-world examples of emissions reduction activities as well as key practices highlighted in the [Best Port-Wide Planning Practices to Improve Air Quality](#) webpage. These data were gathered from a review of public websites and EPA's [Diesel Emissions Reduction Act \(DERA\) grant funding](#) for the ports featured in the Bureau of Transportation Statistics' Port Performance Freight Statistics: Annual Report to Congress from [2018](#), [2019](#) and [2020](#). To see examples of where each practice is in place, select a button below the map. To learn details about a specific port's practices, select a port on the map and then click on the "Go to Port Profile" button.

Questions or comments? Contact us at talkaboutports@epa.gov.

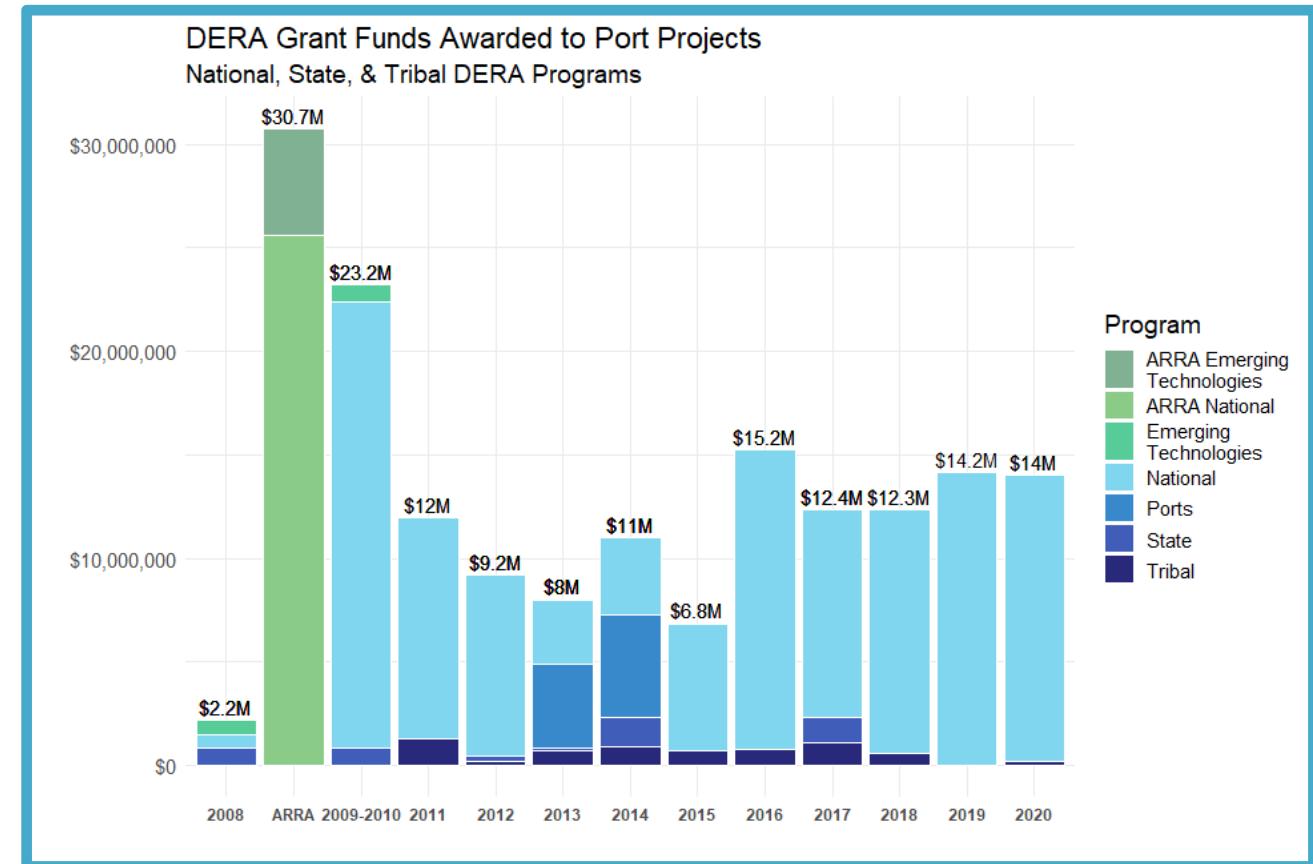


Helping ports capitalize on funding for clean technologies



Funding

- Diesel Emission Reduction Act Grant program (DERA) - ***funding opportunity opening soon!***
 - Priority for port and other goods movement projects.
 - Extra points for inventories, clean air plans, community engagement.
- Significant new resources in the Bipartisan Infrastructure Law and Inflation Reduction Act to support port emissions reduction efforts



Overview

Sec. 60102 Grants to Reduce Air Pollution at Ports

- New \$3B EPA program to fund grants and rebates to:
 - purchase or install zero-emission port equipment or technology;
 - conduct any relevant planning or permitting in connection with the purchase or installation of such zero-emission port equipment or technology; and
 - to develop qualified climate action plans.
- \$750M of total funding to be spent in nonattainment areas
- Up to 2% for administrative costs (\$60M)
- Funding available through September 30, 2027

Eligible Recipients

- Port authority
- State, regional, local, or Tribal agency that has jurisdiction over a port authority or port
- Air pollution control agency
- Private entity that:
 - i. Applies in partnership with an eligible entity above, and
 - ii. Owns, operates, or uses facilities, cargo-handling equipment, transportation equipment, or related technology of a port.

Criteria for Technology/ Equipment

- Produces zero emissions; or captures 100% emissions that are produced by ocean-going vessels at berth
- Human-operated equipment or human-maintained technology
- Located at, or directly serve, one or more ports

Climate Action Planning

Qualified climate action plan:

- Establishes goals, implementation strategies, and accounting and inventory practices to reduce emissions of GHGs, criteria air pollutants, and hazardous air pollutants at one or more ports
- Includes stakeholder collaboration/communications strategy to address potential effects of plan on low-income and disadvantaged near-port communities and other stakeholders
- Describes measures to increase resilience of port

Stakeholder Engagement to Inform Design of Clean Ports Program

EPA has received valuable input from stakeholders on how to design the program

- November and December listening sessions
- General request for information (RFI) that closed on Jan 18
- Input shared with cleanports@epa.gov

To further inform program design, the Administrator announced a technical RFI open from May 8-June 5 on zero-emissions class 6 and 7 heavy-duty vehicles; zero-emissions port equipment; and associated charging and other fueling infrastructure. Topics of interest:

- ***Availability*** including manufacturer production capacity.
- ***Performance*** including durability and maintenance requirements.
- ***Pricing*** including payback period and lifecycle costs relative to those operating on conventional fuels.
- ***Practical considerations*** including project development best practices and workforce training needs
- ***Domestic sourcing*** including whether the equipment is produced or will be produced in the US in the near future

www.epa.gov/inflation-reduction-act/clean-ports-program

Keep in touch



Communications

EPA's Ports Initiative website and newsletter sign-up:

www.epa.gov/ports-initiative

For questions or input on the Clean Ports Program in the Inflation Reduction Act:

cleanports@epa.gov

EPA Regional Office contacts:

www.epa.gov/ports-initiative/regional-epa-ports-initiative-contacts

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Army Corps “Principal Ports” and EPA Regions

