



EPA's Ports Initiative, Funding & Resources

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U.S. Environmental Protection Agency (EPA)

Region 9

Association of Pacific Ports Conference

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Presentation Overview



- Clean Ports Program grant funding
- The EPA Ports Initiative
 - o Tools, resources & best practices
 - o Other ports-related funding opportunities
- Diesel Emission Reduction Act (DERA) funding programs
- Other grant resources

Clean Ports Program Grants



- **53 grants total** currently being implemented across 24 states, Puerto Rico, and Guam
- **Technology Deployment Project Grants**
 - o 25 awarded grants
 - o \$2.8 billion EPA funding
- **Planning Project Grants**
 - o 28 awarded grants
 - o \$58 million EPA funding

Promoting Clean Air Best Practices at Ports



Funding

Helping Ports Capitalize on Funding for Clean Technologies



Technical Resources

Providing Tools to Help Identify Smart Infrastructure Investments



Collaboration

Promoting Port Community Collaboration for Effective Planning



Coordination

Increasing Efficiency in Federal Government and Port Operations



Communications

Creating a Knowledge Clearinghouse

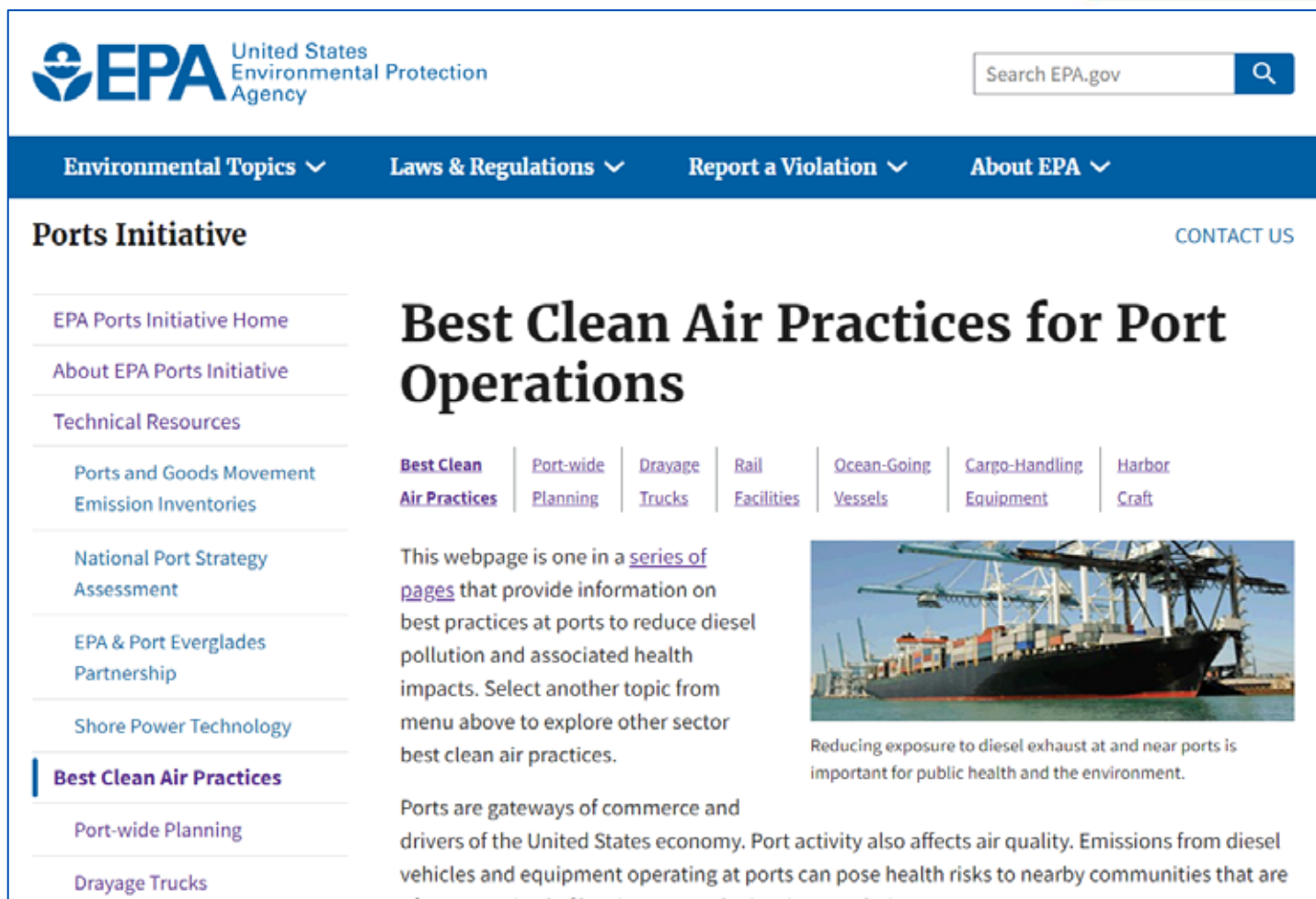


Through tools and assistance in the five program areas, EPA aims to accelerate the adoption of:

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

Best Clean Air Practices for Port Operations

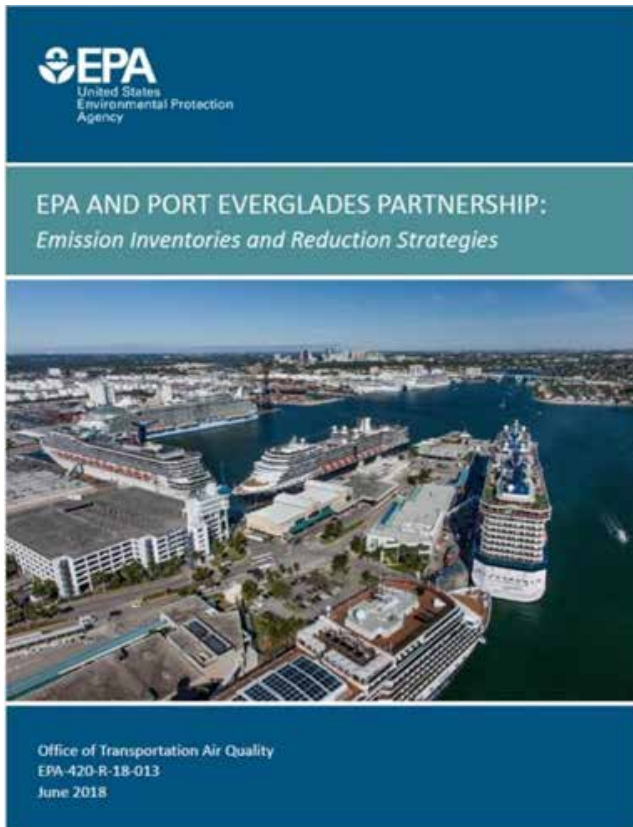
- General and mobile source sector-specific best clean air practices:
 - o Port-wide planning
 - o Drayage trucks
 - o Rail facilities
 - o Ocean going vessels
 - o Cargo-handling equipment
 - o Harbor craft
- Other information:
 - o Overview of best practices
 - o Technical resources
 - o Tips on performance targets and data collection
 - o Real world examples



The screenshot shows the EPA website's 'Ports Initiative' section. The header includes the EPA logo and navigation links: 'Environmental Topics', 'Laws & Regulations', 'Report a Violation', and 'About EPA'. A search bar is located in the top right. The main content area is titled 'Ports Initiative' and features a sidebar with links to 'EPA Ports Initiative Home', 'About EPA Ports Initiative', 'Technical Resources', 'Ports and Goods Movement Emission Inventories', 'National Port Strategy Assessment', 'EPA & Port Everglades Partnership', 'Shore Power Technology', 'Best Clean Air Practices' (highlighted), 'Port-wide Planning', and 'Drayage Trucks'. The main content area displays the title 'Best Clean Air Practices for Port Operations' and a table of links for different port sectors: 'Best Clean Air Practices', 'Port-wide Planning', 'Drayage Trucks', 'Rail Facilities', 'Ocean-Going Vessels', 'Cargo-Handling Equipment', and 'Harbor Craft'. Below the table, a paragraph states: '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.' To the right of this text is an image of a large cargo ship at a port. Below the image, a caption reads: 'Reducing exposure to diesel exhaust at and near ports is important for public health and the environment.'

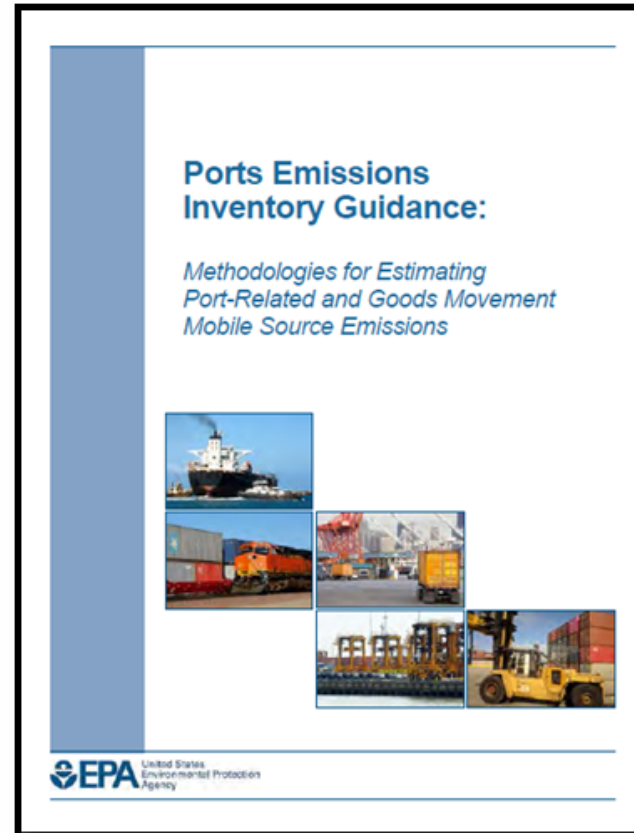
www.epa.gov/ports-initiative/best-clean-air-practices-port-operations

Tools to Help Identify Smart Infrastructure Investments at Ports

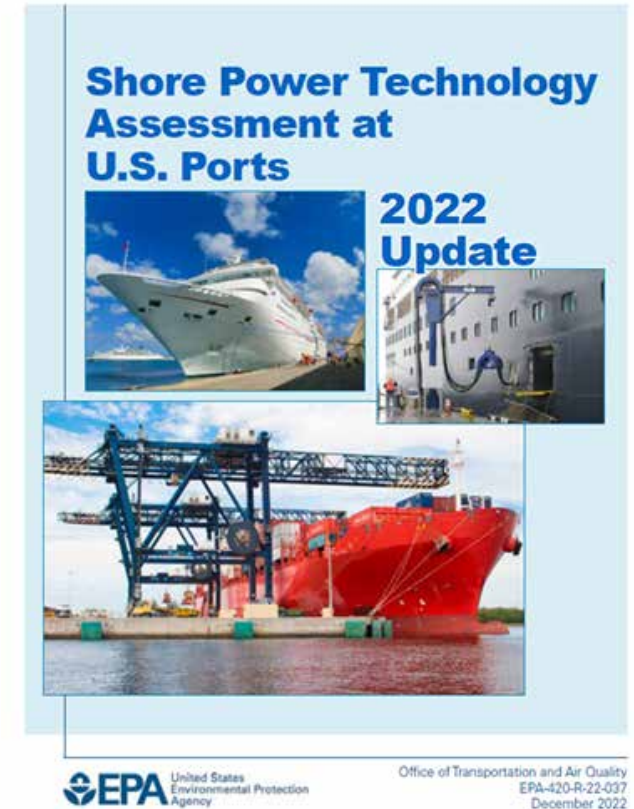


**EPA & Port Everglades Report:
Methods for Analyzing Potential Air
Pollution Reductions,** June 2018

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



**Port Emissions Inventory Guidance:
Methodologies for Estimating Port & Goods
Movement Mobile Source Emissions,**
April 2022 <https://www.epa.gov/ports-initiative/port-and-goods-movement-emission-inventories>

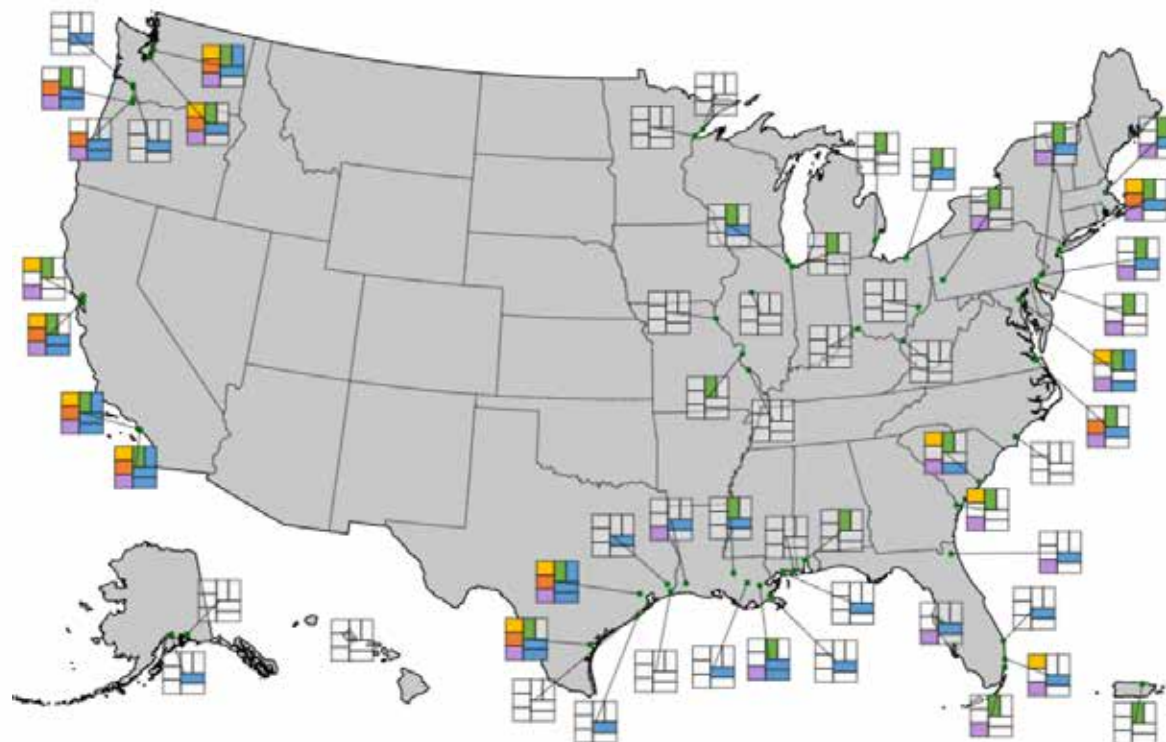


**Updated report characterizes technical
& operational aspects of shore power
systems,** December 2022

<https://www.epa.gov/ports-initiative/shore-power-technology-assessment-us-ports>

Interactive Map Highlighting Clean Air Practices at Ports

Port-wide real-world practices to improve air quality at major ports:
www.epa.gov/ports-initiative/best-port-wide-planning-practices-improve-air-quality



Go to Port Profile

Export Summary

Export Full Dataset

Clear Selections

Emissions
Reduction Activities

Community
Engagement

Emissions Inventory

Emissions
Reduction Target

All Emission Reduction
Activities

Zero Emission Activities

DERA-Funded
Project*

Community Engagement
Policy

Forum for Public
Comments

Point of Contact for
Community

Diesel Emissions Reduction Act (DERA) Funding Programs



- Diesel engines emit nitrogen dioxide (NO_x), fine particulate matter (PM_{2.5}), and other air pollutants
- The DERA grant programs:
 - o Accelerate the upgrade and turnover of older diesel fleets
 - o Reduce diesel air emissions from medium- and heavy-duty vehicles and nonroad engines
 - o Require scrappage of an existing, currently operating diesel vehicle, equipment, or engine and replacement with a cleaner similar vehicle type
 - o Support various types of vehicles and equipment eligible for funding, including idle reduction technologies
- See an [Overview of DERA Grants Awarded for Port Projects](#)

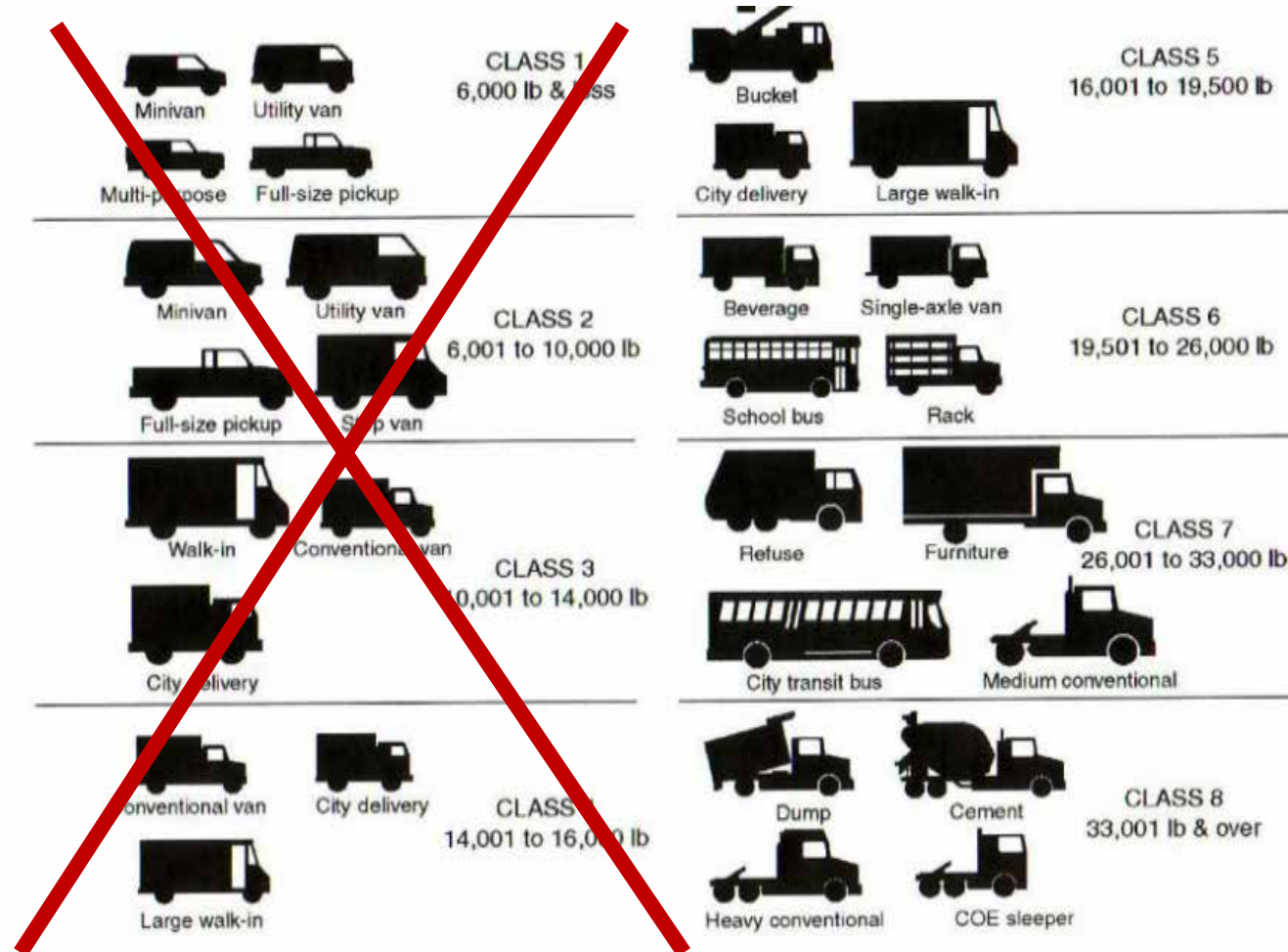
Some DERA Eligible Vehicles, Engines & Equipment



Some DERA Eligible Vehicles, Engines & Equipment



- Class 5-8 medium & heavy-duty highway
 - Trucks: drayage, delivery, long- & short-haul, refuse, fire, water, rescue, dump, utility
 - Buses: transit, school, shuttle, airport
- Marine engines
- Locomotive engines
- Nonroad engines & equipment
 - Cargo handling- at seaports, airports or warehouses
 - Construction
 - Agriculture
 - Mining
 - Energy production- stationary generators & pumps



Port-Related DERA Grant Examples

- **DERA National Program**
 - o Rubber-tired gantry crane replacements, Port of Long Beach
 - o Drayage short-haul truck repower and replacements, Columbia Corridor Association
 - o Low NO_x Class 8 truck replacements, South Coast Air Quality Management District
 - o Tugboat auxiliary engines and sweeper replacement, Port of Los Angeles
 - o Switcher locomotive replacement, Port of Los Angeles
 - o Marine shore power connection systems, Northwest Seaport Alliance
- **DERA Tribal & Territory Program**
 - o Container yard tractor replacements, Port Authority of Guam

Resources to Apply for EPA Grant Funding Opportunities



- [EPA Grants Website](#)
 - o How to Apply
 - o Trainings
 - o Rules and Policies
 - o Find Grant Opportunities

Keep in Touch!

- **More information about:**
 - o Ports Initiative & Clean Ports Programs: www.epa.gov/ports-initiative
 - o Diesel Emission Reduction Act Funding: www.epa.gov/dera
- **Sign-up for EPA's newsletters:**
 - o Ports Initiative: www.epa.gov/ports-initiative/epa-ports-initiative-newsletter
 - o West Coast Collaborative: www.epa.gov/wcc

The West Coast Collaborative: EPA Regions 9 & 10



Keep in Touch & Thank You!

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