Update on EPA's Ports Initiative

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Office of Transportation and Air Quality

MARAMA Ports Partnership Webinar
September 15, 2021

Promoting clean air best practices at ports

EPA PORTS INITIATIVE

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

External Stakeholders

- Port industry
- Local/state/federal agencies
- Community groups
- Environmental NGOs
- And more!

Funding

Technical Resources

Collaboration

Coordination

Communications

EPA

EPA Regional Offices
(R1 – R10)

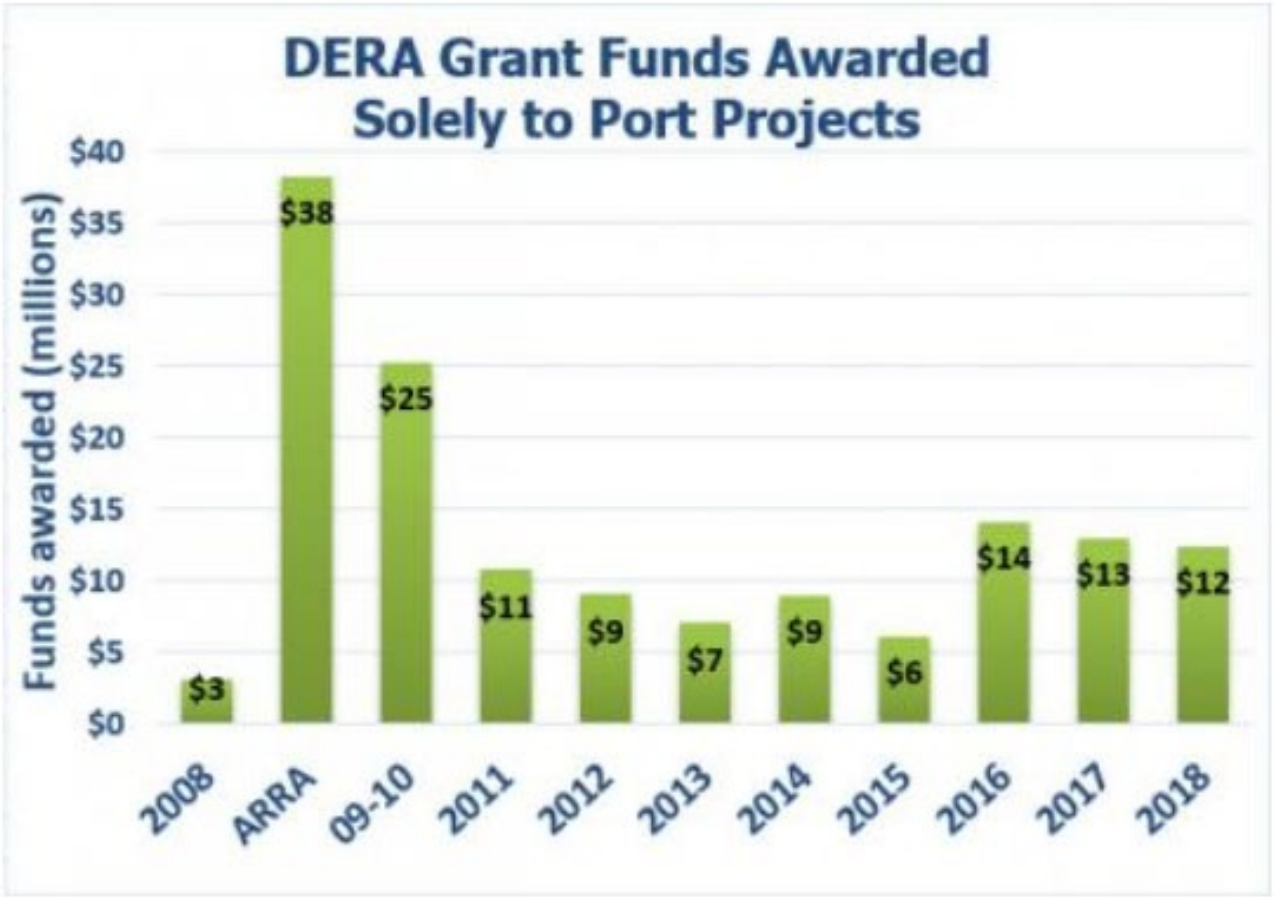
Office of Transportation and Air Quality
(OTAQ)

Office of Environmental Justice

Helping ports capitalize on funding for clean technologies

Funding

- DERA
  - Priority for port and other goods movement projects.
  - Extra points for inventories, clean air plans, community engagement.
    - DOT funding programs now includes similar criteria
- EPA Regional staff helping to make connections to other funding sources.

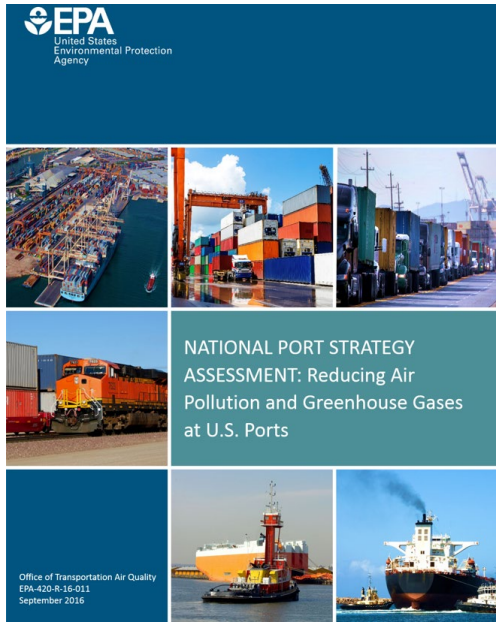


- Searchable table of local, state, federal, and other funding opportunities on our website:

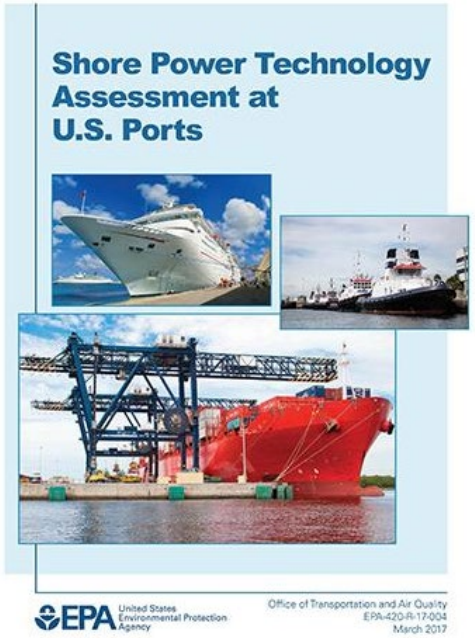
www.epa.gov/ports-initiative/funding-opportunities-ports-and-near-port-communities

Providing tools to help identify smart infrastructure investments

Technical Resources

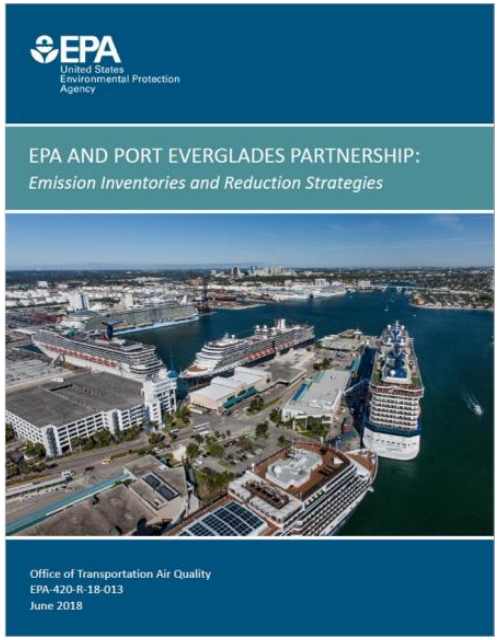


National Port Strategy Assessment: Reducing Air Pollution and Greenhouse Gases at U.S. Ports
September 2016
www.epa.gov/ports-initiative/national-port-strategy-assessment-reducing-air-pollution-and-greenhouse-gases-us

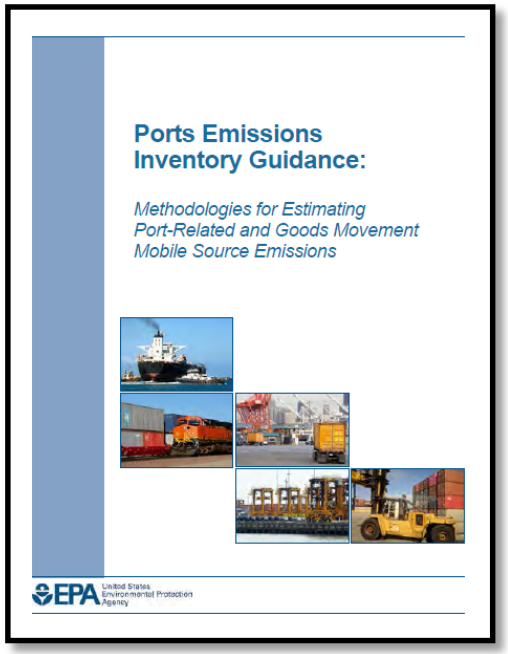


Shore Power Technology Assessment at U.S. Ports*
April 2017
www.epa.gov/ports-initiative/shore-power-technology-assessment-us-ports

***Update planned for later this year**



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

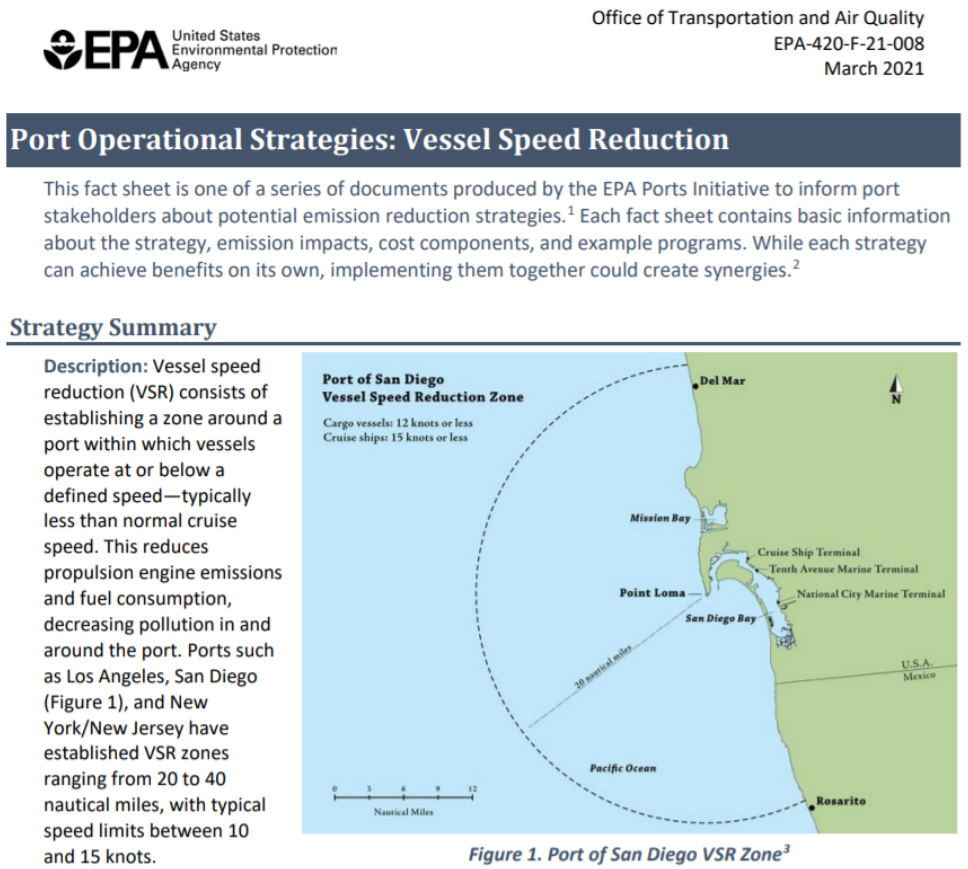


Port Emissions Inventory Guidance: Methodologies for Estimating Port-Related and Goods Movement Mobile Source Emissions, September 2020
https://www.epa.gov/ports-initiative/port-and-goods-movement-emission-inventories

New: Port Operational Strategy Fact Sheets

Technical Resources

- Port Gate Management Strategies
- Management Information Systems
- Marine Vessel Speed Reduction
- Virtual Vessel Arrival Systems



EPA United States Environmental Protection Agency

Office of Transportation and Air Quality
EPA-420-F-21-008
March 2021

Port Operational Strategies: Vessel Speed Reduction

This fact sheet is one of a series of documents produced by the EPA Ports Initiative to inform port stakeholders about potential emission reduction strategies.[1] Each fact sheet contains basic information about the strategy, emission impacts, cost components, and example programs. While each strategy can achieve benefits on its own, implementing them together could create synergies.[2]

Strategy Summary

Description: Vessel speed reduction (VSR) consists of establishing a zone around a port within which vessels operate at or below a defined speed—typically less than normal cruise speed. This reduces propulsion engine emissions and fuel consumption, decreasing pollution in and around the port. Ports such as Los Angeles, San Diego (Figure 1), and New York/New Jersey have established VSR zones ranging from 20 to 40 nautical miles, with typical speed limits between 10 and 15 knots.

Figure 1. Port of San Diego VSR Zone[3]

https://www.epa.gov/ports-initiative/technical-resources-ports#operational

Promoting community-port collaboration for effective planning

Collaboration

Port of Savannah Tour

Collaboration Training

- Tools and training:
  - ***Ports Primer for Communities***
  - ***Community Action Roadmap***
  - ***EJ Primer for Ports***, including Good Neighbor Roadmap
- Case studies on pilot projects in Providence (R1), Savannah (R4), New Orleans (R6), Seattle (R10)
- Regional staff convening stakeholders, supporting use of above EPA resources at ports and railyards across the country.
- ***New***: FY21 EJ Small Grants RFA emphasis on Ports Initiative projects

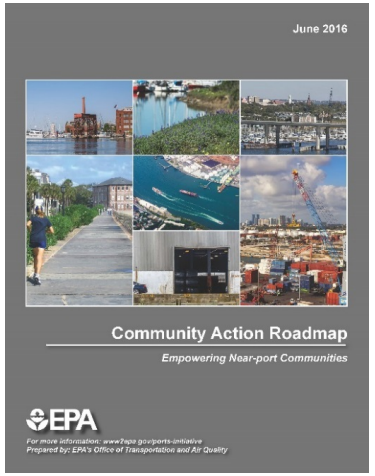
www.epa.gov/community-port-collaboration

Ports Initiative Emphasis for FY21
EPA Environmental Justice Small Grants

Collaboration

- EJ Small Grants Program
  FY21 RFA closed June 1 – awards to be announced next month
  - Funding for projects to engage, educate, empower communities with environmental justice concerns
  - Non-profit and tribal organizations that work directly in local community and U.S. territories are eligible.
  - **$75k** 1-year projects focused on initial steps of understanding and addressing local environmental issues

- Ports Initiative projects
  - Special focus this year on projects in up to six Regions to help prepare community groups for collaborative efforts with coastal and inland port and railyard operators to address diesel emissions
  - Demonstrated use of Ports Initiative Community Action Roadmap is strongly encouraged (Steps 1-3):
    - prioritizing goals and concerns
    - identifying levers of change
    - identifying influencers and other stakeholders with whom to build relations



www.epa.gov/community-port-collaboration/2021-environmental-justice-small-grants-opportunity-communities-living

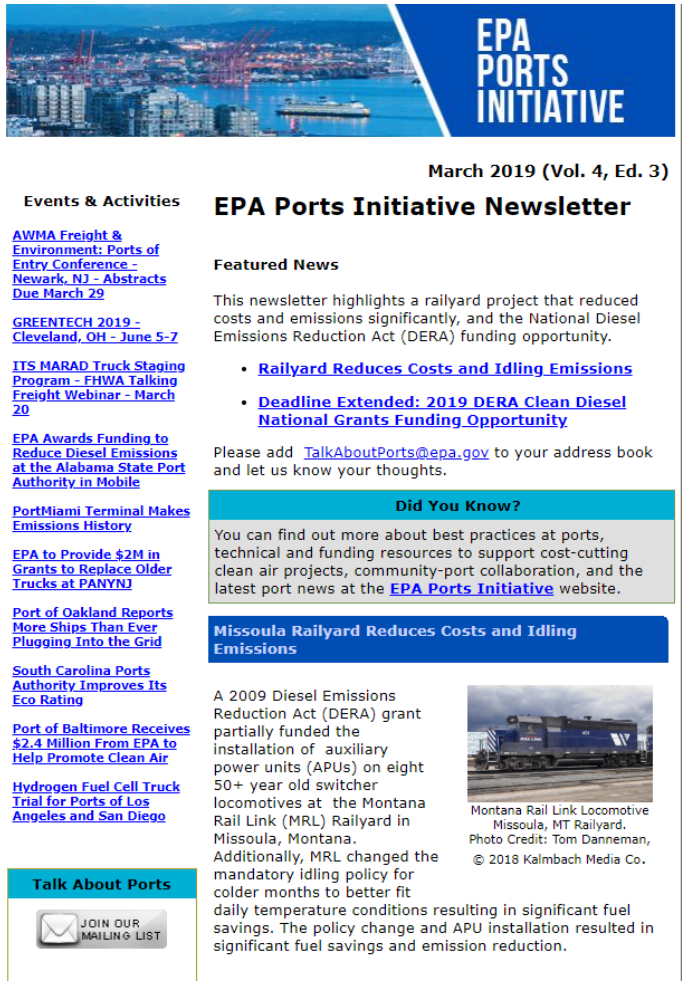
Creating a Knowledge Clearinghouse

Communications

Headquarters and Regions developing web resources, hosting public events, and engaging stakeholders to promote clean air projects.

Examples:

- Updated website, enhancements ongoing – ***new resources highlighted on following slides.***
- Real-world examples/snapshots.
- Regular e-newsletters.



EPA PORTS INITIATIVE

March 2019 (Vol. 4, Ed. 3)

Events & Activities

AWMA Freight & Environment: Ports of Entry Conference - Newark, NJ - Abstracts Due March 29

GREENTECH 2019 - Cleveland, OH - June 5-7

ITS MARAD Truck Staging Program - FHWA Talking Freight Webinar - March 20

EPA Awards Funding to Reduce Diesel Emissions at the Alabama State Port Authority in Mobile

PortMiami Terminal Makes Emissions History

EPA to Provide $2M in Grants to Replace Older Trucks at PANYNJ

Port of Oakland Reports More Ships Than Ever Plugging Into the Grid

South Carolina Ports Authority Improves Its Eco Rating

Port of Baltimore Receives $2.4 Million From EPA to Help Promote Clean Air

Hydrogen Fuel Cell Truck Trial for Ports of Los Angeles and San Diego

Talk About Ports

JOIN OUR MAILING LIST

EPA Ports Initiative Newsletter

Featured News

This newsletter highlights a railyard project that reduced costs and emissions significantly, and the National Diesel Emissions Reduction Act (DERA) funding opportunity.

- Railyard Reduces Costs and Idling Emissions
- Deadline Extended: 2019 DERA Clean Diesel National Grants Funding Opportunity

Please add TalkAboutPorts@epa.gov to your address book and let us know your thoughts.

Did You Know?

You can find out more about best practices at ports, technical and funding resources to support cost-cutting clean air projects, community-port collaboration, and the latest port news at the EPA Ports Initiative website.

Missoula Railyard Reduces Costs and Idling Emissions

A 2009 Diesel Emissions Reduction Act (DERA) grant partially funded the installation of auxiliary power units (APUs) on eight 50+ year old switcher locomotives at the Montana Rail Link (MRL) Railyard in Missoula, Montana. Additionally, MRL changed the mandatory idling policy for colder months to better fit daily temperature conditions resulting in significant fuel savings. The policy change and APU installation resulted in significant fuel savings and emission reduction.

Montana Rail Link Locomotive Missoula, MT Railyard. Photo Credit: Tom Danneman, © 2018 Kalmbach Media Co.

www.epa.gov/ports-initiative

Best Practices Web Area Update

Communications

- Best clean air practices generally and for each mobile source sector:
  - Port-wide planning
    - Linking to interactive map
  - Drayage Trucks
  - Rail Facilities
  - Ocean Going Vessels
  - *Coming soon:*
    - *Cargo Handling Equipment*
    - *Harbor Craft*

- Information:
  - Overview of practice
  - Technical resources
  - Tips on performance targets and data collection
  - Real world examples

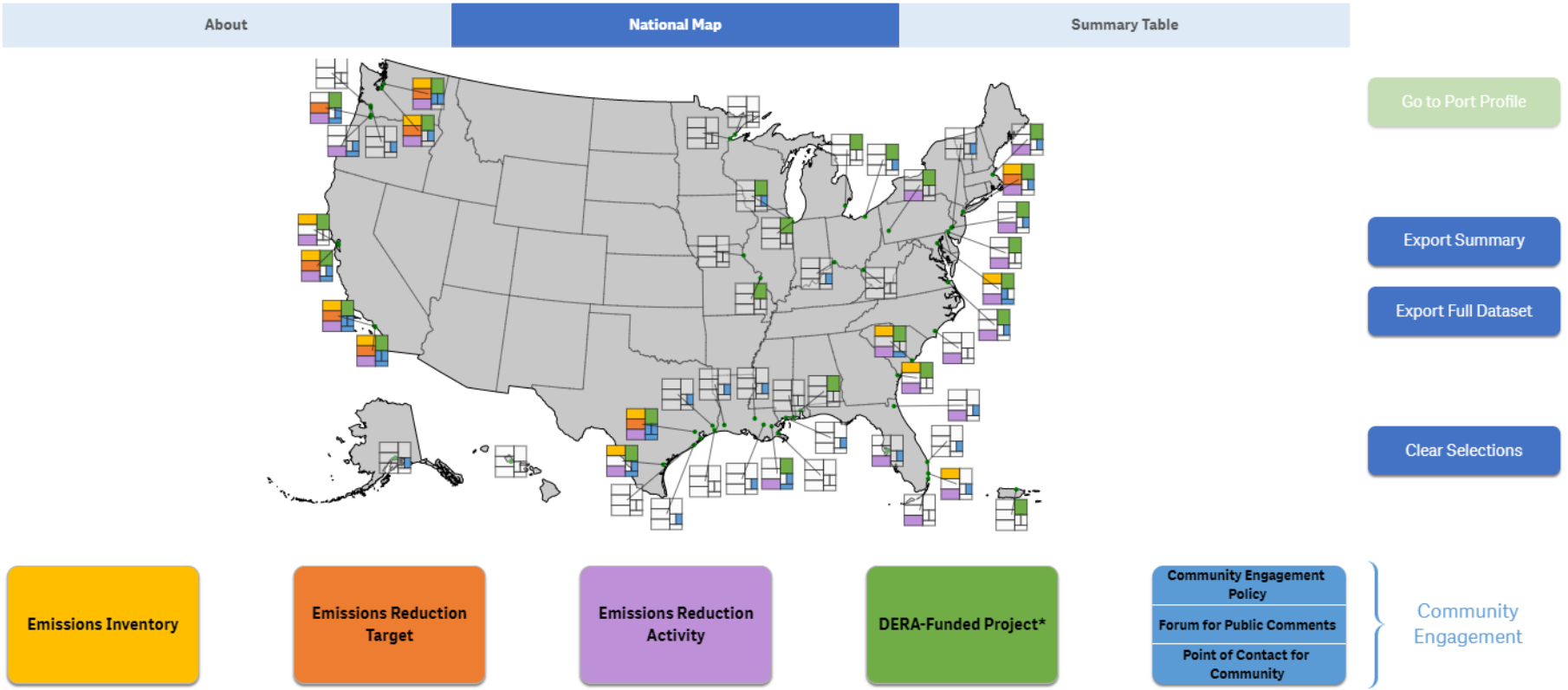
REAL-WORLD EXAMPLES

Interactive Map Highlighting Clean Air Practices at Ports

Communications

Clean Air Practices at Ports

This EPA Ports Initiative 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 and 2019. 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.



www.epa.gov/ports-initiative/best-port-wide-planning-practices-improve-air-quality

CASE STUDIES

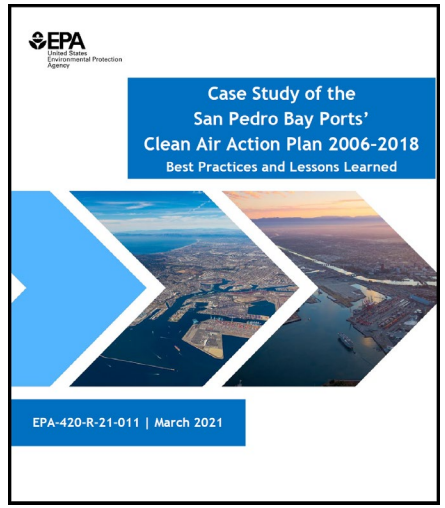
Case Study of San Pedro Bay Ports Clean Air Action Plan (CAAP)

Communications

- Highlighting aspects of the Ports of Los Angeles and Long Beach plan that can inform other port authorities and near-port communities across the country.

- Includes summary of 2006-2018 CAAP's background and history, and three focused discussions:
  - Environmental justice and levers of community influence
  - Technologies and practices for development and deployment
  - The 2017 Clean Truck Program

- Report and fact sheets: www.epa.gov/ports-initiative/san-pedro-bay-ports-clean-air-action-plan-best-practices-and-lessons-learned



Stay tuned!

Communications

- Case studies coming soon:
  - Marine vessel repower offsets for Army Corps NY/NJ harbor deepening project
  - Ports of Seattle practices to operationalize environmental justice

Federal Government Justice40 Initiative

- Executive Order 14008 created government-wide Justice40 Initiative with goal of delivering 40% of overall benefits from federal investments in climate and clean energy to disadvantaged communities.

- Interim Guidance directs federal agencies to:
  - Develop a plan to engage with communities and other stakeholders
  - Identify benefits of programs
  - Propose methods to calculate and report on reaching 40-percent goal

- DERA/Ports Initiative is one of six pilot programs at EPA.

- Additional background and link to Interim Guidance: https://www.whitehouse.gov/omb/briefing-room/2021/07/20/the-path-to-achieving-justice40/

Justice40 – We Want Your Input!

- EPA is seeking input on ways we can maximize benefits from the **DERA and Ports Initiative programs** in disadvantaged communities, including:
  - How should EPA determine benefits to a particular community for mobile source projects when vehicles travel between communities?
  - Are disadvantaged communities aware of DERA funding and its potential to help communities, and if not, how can EPA reach more communities and support them in partnering with eligible DERA applicants?
  - Are there additional ways EPA can help encourage meaningful community engagement and diesel emissions reductions in disadvantaged communities – both as part of DERA projects, and beyond the life of DERA projects (e.g. additional outreach, technical assistance, training, or other information resources)?

- EPA National EJ Community Stakeholder Call – **October 12 from 2 to 4 p.m. ET** – planned focus on Justice40 and DERA/Ports Initiative, among other topics.
  - Registration information forthcoming: www.epa.gov/environmentaljustice/national-environmental-justice-community-engagement-calls

Keep in touch

Communications

EPA's Ports Initiative website and newsletter sign-up:
www.epa.gov/ports-initiative

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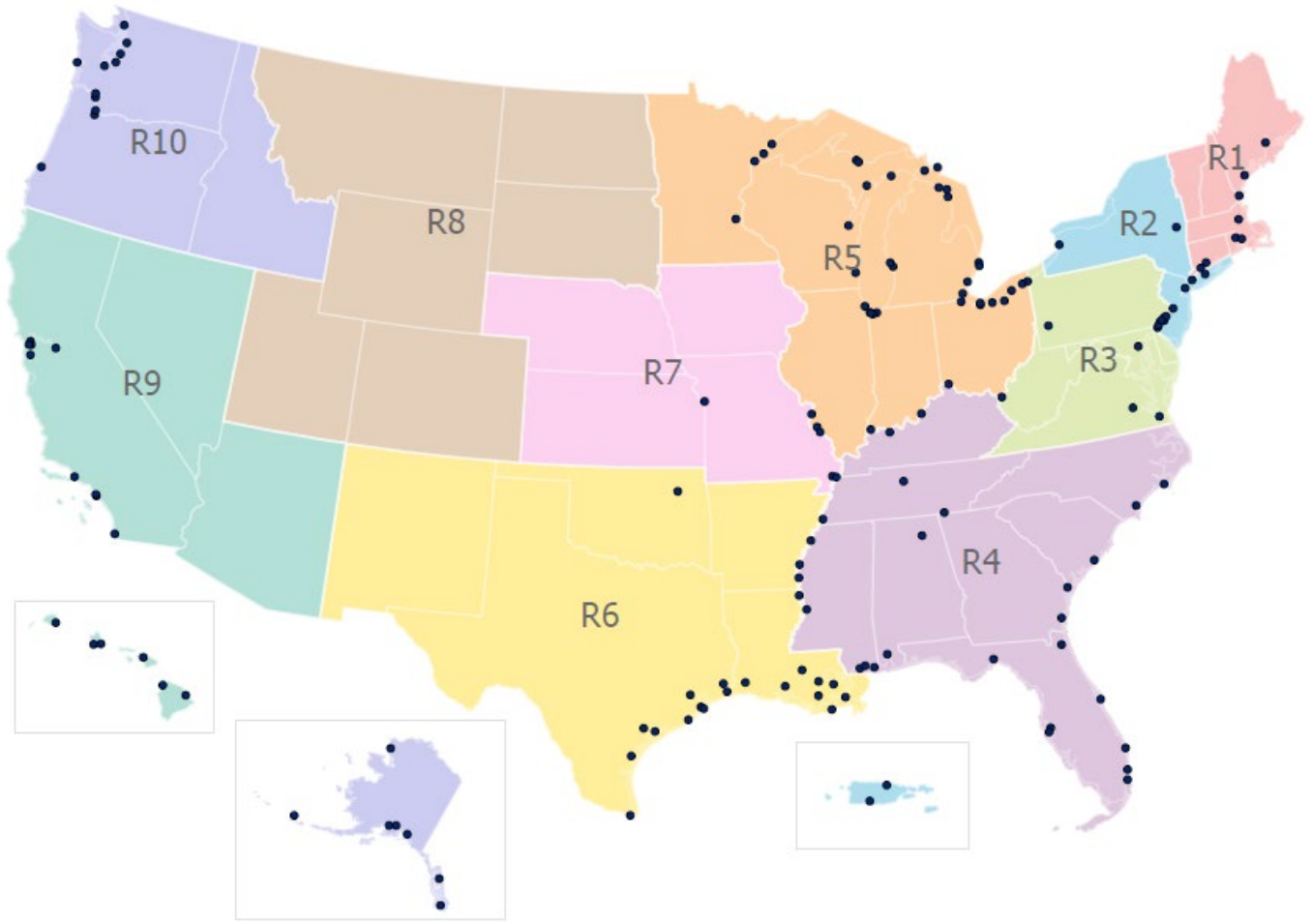
Army Corps "Principal Ports" and EPA Regions