Advantages of Conducting Port Emissions Inventories

Webinar
June 7, 2021
Overview of EPA Ports Initiative

Sarah Froman, EPA Office of Transportation and Air Quality
Promoting clean air best practices 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

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

**Shore Power Technology Assessment at U.S. Ports**
April 2017

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

**Ports Emissions Inventory Guidance: Methodologies for Estimating Port-Related and Goods Movement Mobile Source Emissions**
September 2020
Interactive map highlighting clean air practices at ports

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 49 ports featured in the Bureau of Transportation Statistics’ Port Performance Freight Statistics in 2018: Annual Report to Congress. 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
EPA’s Views on Advantages of Conducting Emission Inventories

Daniel Birkett, EPA Region 2
Port Emissions Inventory Guidance

- Updated September 2020

- Describes the latest, state-of-the-science methodologies and models used to prepare a port-related emissions inventory

- Includes methods to quantify air emissions for:
  - Cargo handling equipment, onroad vehicles, rail, and vessels
  - Activity occurring at seaports, lake ports, river ports, rail yards, freight terminals, intermodal facilities, or freight corridors

- Applicable for regulatory, voluntary, or research purposes

Why port emission inventories?

Evaluation and planning tool

Federal funding

Stakeholder relationships
Evaluation and planning tool

Inventories are a starting point for understanding air quality impacts. They can help identifying specific port activities and equipment for action and benchmark progress towards clean air goals.
Diesel Emissions Reduction Act (DERA) Funding

Moving Toward Cleaner Air
Reducing emissions that impact our health

Federal funding

The evaluation criteria for EPA’s DERA grants include “a publicly available baseline mobile source emission inventory for PM2.5 and/or NOx that was completed after 2017 or [the applicant] commit[s] to completing one before the end of the project period.”
Publicly available inventories can provide transparency and help strengthen relationships with local communities and other stakeholders.