

THE UNIFIED VOICE OF THE SEAPORT INDUSTRY

AAPA
www.aapa-ports.org

Vibrant Ports – Healthy Ports

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How and Why: The Present and Future of Port Sustainability Programs

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American Association of Port Authorities

AAPA was established in 1912

- Since that time, AAPA has been providing a space for collaboration and exchange of best practices, and
- Fostering collaboration among members and allied groups.

We do this through:

- Education and Training, PPM
- Networking and one on one interaction
- Legislative and policy support
- Outreach
- Environmental awards started 44 years ago



Seaport activity supports 26 percent of the U.S. economy

23 MILLION
AMERICAN JOBS
SUPPORTED BY SEAPORTS

\$6 BILLION+
VALUE OF GOODS HANDLED
BY SEAPORTS EACH WEEKDAY

\$321 BILLION
A YEAR IN TAX REVENUE
GENERATED BY PORT ACTIVITY

\$4.6 TRILLION
VALUE OF ECONOMIC ACTIVITY
RELATED TO SEAPORTS ANNUALLY

\$66 BILLION
NEEDED FOR PORT-RELATED
INFRASTRUCTURE
OVER THE NEXT 10 YEARS



American seaport activity supports 26 percent of the economy. Seaports serve a vital role in supporting U.S. jobs, economic prosperity, international competitiveness and tax revenue. Seaports are economic engines and vital freight gateways to the global marketplace for American farmers, manufacturers and consumers, and serve as critical infrastructure for the U.S. military.

As the unified voice of American seaports, the American Association of Port Authorities (AAPA) is working to make seaports a key priority for policymakers considering plans for investment in U.S. infrastructure.

To learn more about how ports keep America moving, scan the QR Code or visit: aapa-ports.org/movingamerica



Seaports seek \$66 billion in federal support for port-related infrastructure as part of the President's \$1 trillion plan

Building America's 21st Century Seaport Infrastructure
For job creation, economic growth and secure borders





BALTIMORE

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Seaports Deliver Prosperity



Infrastructure Vital for America's Trade Future

Landside and Waterside Connections Critical

An illustration showing a port scene with a city skyline in the background, a suspension bridge, a large cargo ship, a smaller ship, a crane, a truck, and a train car. The scene is divided into a water area and a land area.

Ports and partners investing billion a year in infrastructure improvements

Federal investment in seaport-related infrastructure is lagging far behind

All Types of Seaports and Cargo



ENVIRONMENTAL SUSTAINABILITY AT PORTS

- Compliance with federal and state and local laws
 - Air pollution and water discharge
- Voluntary programs
 - Air and water
 - Power use
 - Relamping
 - Electrification of equipment
 - Community outreach
 - Rainwater runoff
- Operational changes
 - On-dock rail
 - Short sea shipping
 - Appointment systems



Environmental Stewardship: now and in the future

- Seaport leaders share a commitment to sustainability, clean energy, and the health of coastal ecosystems
 - Create and protect wetlands and enhancing coastal habitats
 - Reduce emissions from equipment, trucks, vehicles and rail
 - Storm water management
 - Trash management – trucks, cruise and the local waterways
 - Energy use on-port and off
 - Wind energy equipment
 - Solar power
 - Re lamping
 - Shore power

Understanding Air Emission

- What are the communities environmental priorities?
- Is the port close to a neighborhood?
- Is the port in an non-attainment area?
 - Is there an air emission inventory
- Is the port a landlord or operating port?
- Is rail or barge service readily available?
- What is the port's contribution to the overall air emissions for the area?
- How far should the port's responsibility extend?
- Are there grants available to help?



Port Air Emissions Reduction Programs

Ship

- Incentives to slow down
- Shore power
- Alternative fuels - LNG
- Marpol Annex IV - ECA

Clean Truck Programs

- Incentives to retrofit or replace trucks
- Incentives for alternative fuels
- Ports ban on older trucks
- Crack down on idling
- Encouraging truck maintenance
- Port appointment systems



Yard Equipment

- Cranes and other yard equipment

Other Programs

- Air emissions inventories
- Investments in rail/barge
- Outreach to tenants
- Environmental Management Programs
 - Green Marine
 - ISO 1401 Environmental Management

Leveraging funds

- EPA Diesel Emissions Reduction Grants (DERA)
 - State and federal
 - Yard equipment, drayage trucks, shore power, rail locomotives
- CMAQ Funds
 - Container on Barge
 - Shore Power
- FAST Act – Freight funds
- Volkswagen Emissions Diesel Settlement Funds



DERA Grants

- National Grants
- State Allocations
- Verified Technologies
 - Drayage truck repower or replacement
 - Yard equipment including cranes
 - Marine propulsion engines for vehicles including tug boats
 - Refrigeration units
- MD Environmental Services
 - Drayage trucks
- Delaware River Port Authority
 - Marine vessels
- Mid-Atlantic Regional Air Management Association
 - Drayage trucks
- Delaware Clean Air Council
 - Trucks, tugboat, refrigeration
 - New Jersey Clean Cities – Tugs
- Virginia Port Authority
 - Yard Equipment

Protecting Our Waterways

- Regulatory – Compliance with State and Federal laws
 - Dredging
 - Discharge – land and vessel
 - Ballast water
 - NPDES permits
- Voluntary
 - Mr. Trash Wheel
 - Reuse of dredged material
 - Wetland restoration
 - Energy efficiency



Environmental Sustainability in the Future

- Outreach with communities
 - Education and understanding
 - Project planning
 - Partnering on broader community projects
- Operational changes
 - Use of energy
 - Automation
 - Compliance with environmental laws



Questions?

- www.aapa-ports.org