Shower Power Assessment and other EPA Ports Initiative Resources

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U.S. EPA - Office of Transportation & Air Quality

AAPA Cruise Seminar
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Vision for EPA Ports Initiative

People living and working near ports across the country will breathe cleaner air and live better lives as a result of bold steps taken through a collaboration of industry, government, and communities to improve environmental performance and increase economic prosperity.
EPA Ports Initiative Elements

- **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
Technical Resources
Providing Tools to Help Identify Smart Infrastructure Investments

National Port Strategy Assessment: Reducing Air Pollution and Greenhouse Gases at U.S. Ports
• Released September 22, 2016
• Available at: www.epa.gov/ports-initiative/national-port-strategy-assessment

Shore Power Technology Assessment at U.S. Ports
• Released April 4, 2017
• Available at: www.epa.gov/ports-initiative/shore-power-technology-assessment-us-ports

EPA, Port Everglades Report Shines Light on New Methods for Analyzing Potential Air Pollution Reductions
• Released June 1, 2018
• Available at: https://www.epa.gov/ports-initiative/epa-and-port-everglades-partnership-emission-inventories-and-reduction-strategies
### National Port Strategy Assessment

**OGV Strategies**

<table>
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<th>Strategy:</th>
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<tbody>
<tr>
<td>Fuel Changes (lower sulfur levels, LNG)</td>
<td>Propulsion &amp; Auxiliary Engines</td>
</tr>
<tr>
<td>Shore Power</td>
<td>Frequent Callers Only</td>
</tr>
<tr>
<td>At-Berth Alternative Control Technology</td>
<td>Non-frequent Callers Only (container &amp; tanker)</td>
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<tr>
<td>Reduced Hoteling</td>
<td>Container Ships Only</td>
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National Port Strategy Assessment

Effective strategies are available for every type and size of port

Auxiliary Fuel Change

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Shore Power

<table>
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<tr>
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Shore Power Assessment

Overview

• Characterizes shore power systems at U.S. ports
• Includes a new methodology for calculating emission reduction of shore power systems
• Released April 4, 2017
• Available at: www.epa.gov/ports-initiative/shore-power-technology-assessment-us-ports
Funding

Helping Ports Capitalize on Funding for Clean Technologies

- EPA Diesel Emission Reduction Act (DERA) grants.
  - 2019 DERA RFA closes on March 6.

- VW beneficiaries demonstrating interest in local port projects.

- EPA Regional staff helping to make connections to other funding sources.

- Searchable table of funding opportunities on Ports Initiative website:
  www.epa.gov/ports-initiative/funding-opportunities-ports-and-near-port-communities
Stay Tuned…!

Additional Resources Coming This Year

• Update to port inventory guidance including methods for estimating marine vessel emissions.
• Factsheets on operational strategies that can reduce emissions and increase efficiency such as vessel speed reduction.
• Additional case studies.
• Updates to searchable table of funding opportunities.

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

Keep in touch: talkaboutports@epa.gov

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