



Improving Air Quality Through Effective Strategies

Similar to the approaches identified in the case studies, you can develop your own Clean Air Program that will help address diesel emissions at your own port. The following is an overview of effective strategies that can be taken to address diesel emissions for each maritime operation.

Ocean Going Vessels

- Vessel Speed Reduction
- Operational Improvements
- Clean Fuels
- Emission Control Technologies
- Shore Power

Harbor Craft

- Engine Replacement with Engines Meeting Cleaner Standards
- Clean Fuels
- Emission Control Technologies
- Electrification (including Shore Power and Hybridization)

Cargo Handling Equipment

- Equipment Replacement with Engines Meeting Cleaner Standards
- Operational Improvements
- Clean Fuels
- Emission Control Technologies

Heavy Duty Vehicles – Trucks

- Equipment Replacement
- Operational Improvements
- Clean Fuels
- Emission Control Technologies
- Idle-Reduction Technologies

Light Duty Vehicles

- Equipment Replacement
- Operational Improvements
- Clean Fuels
- Emission Control Technologies
- Idle-Reduction Technologies



IAPH Tool Box for Port Clean Air Programs

Locomotives and Rail

- Equipment Replacement
- Operational Improvements
- Clean Fuels
- Emission Control Technologies
- Idle-Reduction Technologies

Construction Equipment

- Equipment Replacement
- Operational Improvements
- Clean Fuels
- Emission Control Technologies
- Idle-Reduction Technologies

Now, take a look at a more detailed approach to reduce diesel emissions from each maritime operation. It should be recognized that the order of operations and/or strategies does not in any way imply weight or preference.