2012 Air Emissions Inventory

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Strategies Working
2014 and 2023 Goals - exceeded or on track
Clean Air Action Plan
Resulted in greatly reduced port-related air pollution
Strategies Working
Port programs augmented by state regulation
Port Activity: 2012 vs. 2005

- Container cargo volume down 10%
- Total ship calls declined 24%
- Container ship calls down 28%
- Cargo containers (TEU) per ship up 26%
Clean Air Goals for 2014 and 2023

- Diesel Particulate Matter: Down 72% in 2014, 77% in 2023
- Nitrogen Oxides: Down 22% in 2014, 50% in 2023
- Sulfur Oxides: Down 93% in 2014, 93% in 2023
2012 Emissions Inventory

- Diesel Particulate Matter: Down 81%
- Nitrogen Oxides: Down 54%
- Sulfur Oxides: Down 88%
- Green House Gases: Down 24%
- TEUs*: Down 10%

Port of LONG BEACH
Ocean-Going Vessels

- Green Flag Program
- Low-Sulfur Fuel Regulations
- Cleaner Ships
- Shore Power
Trains

• Cleaner Locomotives
• 28% of cargo shipped by on-dock rail
• In 2005, 16% of cargo shipments moved by on-dock rail
Heavy-Duty Trucks

- Clean Trucks Program - all 2007 trucks or newer,
- Average age of trucks 3 years
- Lower overall idling times
- Less total vehicle miles traveled
Cargo Handling Equipment

- State regulation
- Newer equipment or retrofits
- More equipment with cleaner on-road engines
Harbor Craft

- State regulation
- Newer and cleaner engines
- Better data collection
Looking Forward

• Clean Air Action Plan
• State Regulatory Programs
• Technology Advancement
• Continued improvement of inventory methods
Acknowledgements

- Port of Long Beach Tenants and Operators
- U.S. Environmental Protection Agency
- California Air Resources Board
- South Coast Air Quality Management District
- Starcrest Consulting Group, LLC
www.polb.com/emissions
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