



Date of Meeting December 7, 2010

Northwest Ports Clean Air Strategy 2009 Implementation Report



Briefing Overview

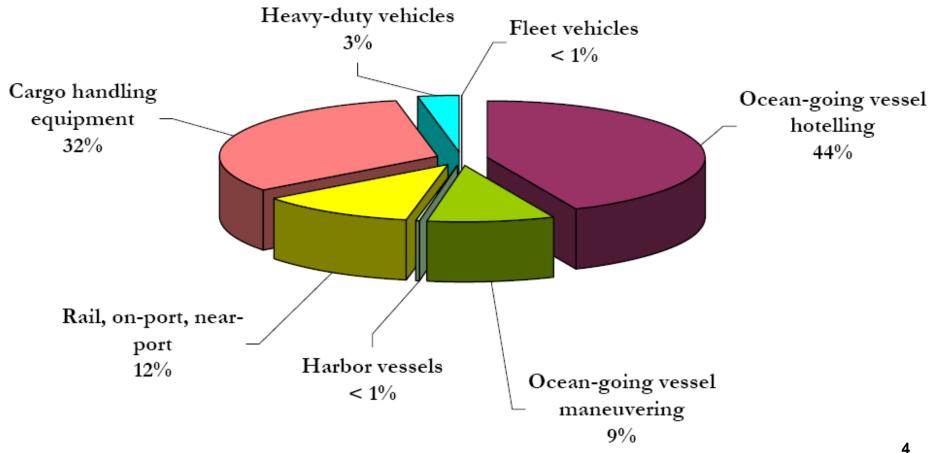
- Northwest Ports Clean Air Strategy approach and performance measures
- 2009-2010 Implementation Status



Strategy Approach

- Focused on diesel particulate matter and greenhouse gases
- Clear, measurable performance measures
 - Ocean-going vessels (OGV)
 - Cargo handling equipment (CHE)
 - Trucks
 - Rail
 - Harbor vessels
- Encourage ongoing innovation and efficiencies
- Short Term (2010) and Long Term (2015) targets

Diesel Particulate Matter Port of Seattle Seaport



4



Strategy Performance Measures

	2010	2015
Ocean-Going Vessels	≤ 0.5% fuels in auxiliary engines while at berth	Meet IMO standards
Cargo-Handling Equipment	Use of ULSD, meet Tier 2 or 3 PM standards	Best available emission control devices
Rail	Expedite EPA SmartWay standards	Comply with U.S. EPA 2007 locomotive rules
Trucks	100% trucks must have 1994 or newer engines	80% of trucks must meet 2007 U.S. EPA PM emission standards, 100% by 2017
Harbor Vessels	Low-sulfur fuels, new technologies	Advanced technology pilot projects



Implementation Status

Ocean-Going Vessels

- 2009 Success Towards 2010 Goal: 63.5% of frequent callers
 - Container vessels: 40% of frequent callers used ≤ 0.5% sulfur fuel in auxiliary engines while at berth (236 calls)
 - Cruise Vessels: 100% of frequent callers (218 calls)
 - 23% used shore power (50 calls)
 - 38.5% used ≤ 0.5% sulfur fuel (84 calls)
 - 38.5% used 1.5% sulfur fuel (84 calls)

Port 2010 Implementation Status of Seattle Ocean-Going Vessels

- At-Berth Clean Fuels Vessel Incentive Program
 - \$2,250 per call incentive to use ≤ 0.5% sulfur fuel in auxiliary engines while at berth
 - Audits
 - 11 participating lines
 - YTD (as of 11/10): 347 participating calls
 - Reduced over 200 metric tons of SO2
- IMO approved North American Emission Control Area designation (3/2010)



Implementation Status Cargo-Handling Equipment

2009 Success Towards 2010 Goal:

- 68% of all CHE at Port of Seattle met the 2010 performance measure
- 100% of CHE used ultra low sulfur diesel fuel and/or biodiesel blends

• 2010 Efforts:

 Grants awarded by U.S. EPA, PSCAA, and WA Dept. of Ecology to retrofit or replace CHE



Implementation Status Rail

2009 Success Towards 2010 Goal:

- BNSF North Seattle International Gateway electrification
- Port continues to support commitments made by UP and BNSF Railway to the U.S. EPA SmartWay Transport Partnership
- Louis Dreyfus switched to ULSD/B20 fuel for locomotive and facility operations at T-86

• 2010 Efforts:

 Q1 2010: PSCAA and Louis Dreyfus installed antiidling equipment on switcher locomotives at T-86, reducing fuel consumption by 50%



Implementation Status Harbor Vessels

2009 Success Towards 2010 Goal

Port continues to support PSCAA in reducing emissions from harbor tug operations

PSCAA projects:

- Partnered with Caterpillar and a Seattle-based fishing vessel, Fierce Allegiance, to develop engine rebuild/upgrade kit
- \$700k grant from U.S. EPA to retrofit two Foss tugs with diesel oxidation catalysts
- Partnered with WA Dept. of Ecology and Kitsap Transit to install diesel particulate filters on the new passenger ferry
- Received \$2.1 million federal grant to retrofit Washington
 State Ferry engines



Implementation Status Clean Truck Program

- Mandatory
 - Negotiated lease amendments with marine terminal operators (MTOs)
 - 1/1/2011: all trucks must have MY 1994 engines and be in the Port's Drayage Truck Registry (DTR)
- Scrappage and Retrofits for Air in Puget Sound
- Terminal 25 South truck parking facility
- Communications and outreach



SCRAPS



- Puget Sound Clean Air Agency program
 - Administered by non-profit Cascade Sierra Solutions
- \$5 million program
 - Port of Seattle provided \$1.7 million
- Provides \$5k (or blue book value) to scrap pre-1994 drayage trucks
 - Must prove truck operates at the Port of Seattle
 - Owner can use the incentive as they wish
- Scrapped 244 trucks (as of 11/29)
 - \$1,220,000 paid to drivers in incentives



Drayage Truck Registry

- All trucks must be registered by 1/2011
- www.portseattledtr.org
- Currently have 3,450+ trucks registered
- Investigating RFID options with the MTOs





Communications and Outreach

- Trucker Liaison in the Port's Office of Social Responsibility
 - Hotline: 206-787-6888
 - Email: <u>cleantruck@portseattle.org</u>
- Trucker Resource Fairs
- Partnerships:
 - African Chamber of Commerce
 - Port Jobs Employment Assistance



Implementation Status

Port Administration

- Continued use of B20 biodiesel at Marine Maintenance
- Joined the Evergreen Fleets program
- Reduced Pier 69 electricity consumption by 44.5%
- Submitted first Port-wide greenhouse gas report to The Climate Registry (for year 2008)



2010 Implementation and Next Steps

- Complete implementation of programs to meet 2010 performance measures
- Continue to refine data collection, verification, and reporting processes
- Development of projects/programs to meet the long-term 2015 performance measures
- 2011 Emissions Inventory update