

# Final Northwest Ports Clean Air Strategy 2013 Update

Stephanie Jones Stebbins

Director, Seaport Environmental & Planning

Janice Gedlund


Seaport Air Quality Program Manager

# Northwest Ports Clean Air Strategy 2013 Update

- Background
- Public review process
- Modifications made in final document
- Summary of strategy



# Background

- 2008 Northwest Ports Clean Air Strategy
  - 2005 & 2011 Puget Sound Maritime Air Emissions Inventories
  - Partners:
    - Port of Seattle
    - Port of Tacoma
    - Port Metro Vancouver (BC)
    - US Environmental Protection Agency
    - Washington Department of Ecology
    - Puget Sound Clean Air Agency
    - Environment Canada
    - Metro Vancouver, BC (City)
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# Milestones

- Jan. 2012 – May 2013: draft developed
- Sept. 2012 – May 2013: stakeholder outreach
- June - July 2013: public comment, open houses
- Aug. 2013 – Nov. 2013: final version developed
- Dec. 2013: Commission consider for adoption



# Public Comments

- use absolute reduction goals rather than per ton of cargo
- need mandatory approach to emission reduction
- increase focus on alternative fuels
- more financial support needed to meet targets
- support aligning targets with regulations and established third party certification programs
- overall positive support of strategy goals



# Public Comments – truck-related

- truck owners' inability to afford newer trucks
- truck scrapping program good but current plan for 160 trucks won't meet the needs and doesn't provide high enough level of assistance
- keep truck parking out of neighborhoods



# Revisions in Final Version

## Trucks

- eliminated 2015 interim target for 80% of trucks to meet 2007 emission standards (retained 2017 target for 100% of trucks to meet model year 2007 standards)

## Port Administration

- clarified actions and targets for clean construction standards for engines used on port-led construction projects



# Revisions in Final Version (cont'd)

- clarified that target dates refer to end of each year (e.g. 2015 target means 12/31/15)
- noted that reduction in DPM also reduces emissions of black carbon which contributes to climate change
- added summary of public review process and comments





# Emission-Reduction Goals (from 2005 Baseline)

Targeted Emissions	2015 Goals	2020 Goals	Measurement
Diesel particulate matter	75% reduction	80% reduction	Emissions per ton of cargo
Greenhouse gases	10% reduction	15% reduction	Emissions per ton of cargo



# Targets for Ocean-Going Vessels

Actions	2015 Targets	2020 Targets	Reduces	
			DPM	GHG
<b>Vessels surpass Emission Control Area (ECA) requirements</b>	<b>Early compliance with 2015 ECA 0.1% fuel-sulfur level (or equivalent) while hoteling before Jan 1, 2015</b>	<b>Ports track number of vessels with Tier 3 marine engines, cleaner fuel, shorepower, &amp; other emission-reduction technologies</b>	✓	✓
<b>Ports &amp; carriers join port-designed or 3rd-party certification programs promoting continuous improvement (e.g., Env. Ship Index)</b>	<b>Ports and 10% of vessel calls</b>	<b>Ports and 40% of vessel calls</b>	✓	✓

# Targets for Harbor Vessels

Actions	2015 Targets	2020 Targets	Reduces	
			DPM	GHG
<p><b>Strategy partners conduct annual outreach</b> to port-related harbor vessel companies &amp; <b>recognize best practices &amp; engine upgrades</b></p>	<p><b>Partners conduct outreach &amp; 50% of harbor vessel companies</b> report best practices &amp; engine upgrades</p>	<p><b>Partners conduct outreach and 90% of harbor vessel companies</b> report best practices and engine upgrades</p>	✓	✓
<p><b>Ports &amp; harbor vessels join port-designed or 3rd-party certification</b> programs that promote continuous improvement (e.g., Env Ship Index)</p>	<p><b>Ports and 10% of harbor vessels</b></p>	<p><b>Ports and 40% of harbor vessels</b></p>	✓	✓

# Targets for Cargo-Handling Equipment

Actions	2015 Targets	2020 Targets	Reduces	
			DPM	GHG
<b>CHE meets Tier 4 interim (T4i) emission standards or equivalent</b>	<b>50% of equipment</b>	<b>80% of equipment</b>	✓	✓
<b>Ports &amp; terminals have fuel-efficiency plans in place that promote continuous improvement</b>	<b>Ports and 50% of terminals</b>	<b>Ports and 100% of terminals</b>	✓	✓

# Targets for Trucks

Actions	2015 Targets	2020 Targets	Reduces	
			DPM	GHG
Trucks meet or surpass EPA emission standards for model year 2007	100% of trucks by the end of 2017		✓	✓
Ports, terminals, and trucks have fuel-efficiency plans in place that promote continuous improvement	Ports	Ports, terminals, and 50% of trucks	✓	✓



# Targets for Locomotives

Actions	2015 Targets	2020 Targets	Reduces	
			DPM	GHG
<b>Switcher locomotive owners/operators participate in a fuel-efficiency program</b>	<b>100% owners/operators</b> institute a program	<b>100% owners/operators</b> achieve performance objectives of chosen program	✓	✓
<b>Switcher locomotive operators upgrade or replace unregulated engines</b> (engine replacements Tier 2 or better)	<b>10%</b> of unregulated locomotive engines	<b>20%</b> of unregulated locomotive engines	✓	✓

# Targets for Port Administration

Actions	2015 Targets	2020 Targets	Reduces	
			DPM	GHG
Ports own & operate cleaner vehicles/ equipment & have fuel-use reduction plans promoting continuous improvement	Ports report use of cleaner vehicles & equipment and other relevant information	Ports increase use of cleaner vehicles and equipment	✓	✓
Ports apply clean construction standards to engines used on port-led construction projects	Ports adopt clean construction practices for port-led projects, & enact a plan for Tier 2 engine emission reqts.	Ports continue to apply clean construct. practices for port-led projects, & enact a plan for Tier 4 engine emission reqts.	✓	✓
Ports facilitate energy studies & conservation projects at port-owned and/or tenant facilities	Each port conducts 3 energy studies	Each port completes 3 energy conservation projects	✓	✓

# Pilot Projects

- each port will evaluate or engage in at least 1 pilot study or demonstration project per year
- Port currently partnering with Puget Sound Clean Air Agency on CNG-conversion pilot for dray trucks





# Performance Measurement

## Annually

- progress report on status of meeting actions & targets

## Every 5 years

- emissions inventory to track status of meeting emission reduction goals



# Northwest Ports Clean Air Strategy 2013 Update

December 10, 2013:

- Request Port of Seattle Commission adoption of the Strategy Update

