

FASTER FREIGHT - CLEANER AIR PACIFIC NORTHWEST

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Hosted by:



A SUMMIT ON GOODS MOVEMENT AND AIR QUALITY IN THE PACIFIC NORTHWEST

Northwest Ports Clean Air Strategy

Port of Tacoma approach: ships

- Recognize customers currently meeting 2010 target
 - ✓ 70% of vessel calls from frequent callers
- Work with remaining customers
- Develop verification process



Focused on cleaner fuels

- 2010 – equivalent of distillate fuels at berth
- 2015 – standards of IMO proposal

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Northwest Ports Clean Air Strategy

Port of Tacoma approach:

Cargo-handling equipment

- Purchase new equipment with best available technology
 - ✓ Port's new straddle carriers
 - ✓ new terminals use new equipment
- Retrofit non-Tier 2 equipment to Tier 3 or 4 standard.
- Electrify yard equipment where appropriate



- 2010 –Tier 2 or 3 engines equivalent.
- 2015 – Port-wide equivalent of 80% Tier 4 .

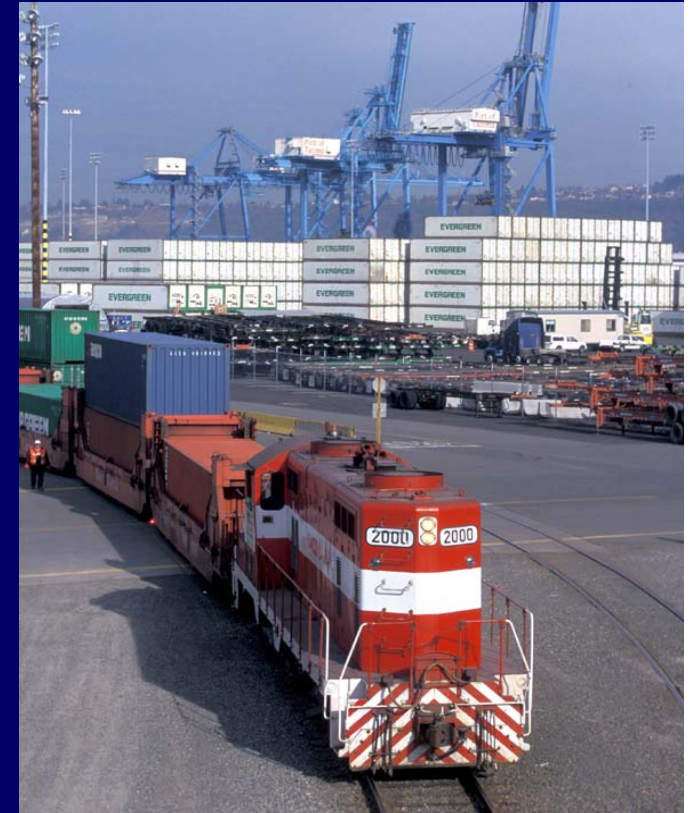


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Northwest Ports Clean Air Strategy

Port of Tacoma approach: Rail

- Promote early adoption of 2012 ULSD fuel requirement
 - ✓ Port's rail switching partners use ULSD
- Support installation of anti-idling devices
 - ✓ 4 installed; 2 planned for 2008-09
- Pilot test for Locomotive repower



- 2010 –U.S. EPA SmartWay Partner
- 2015 – support proposed U.S. EPA Locomotive Rule

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Northwest Ports Clean Air Strategy

Port of Tacoma approach: Trucks

- Encourage voluntary compliance
 - ✓ Two port partners participate in EPA's SmartWay Program
- Inventory drayage trucks and truck age distribution
- Include on-dock rail in future port marine terminals-reduce truck trips
- Provide efficient gate operations and congestion relief
- Evaluate feasibility of truck gate parking



- 2010 –EPA standards 1994 or better Equivalent
- 2015 – 80% meet equivalent emissions of 2007 EPA standards or better; 100% by 2017

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Northwest Ports Clean Air Strategy

Port of Tacoma approach

Greenhouse Gases



- Purchase fuel efficient and alternative fuel vehicles
 - ✓ Two electric vehicles purchased by Port Maintenance
- Support low-carbon emission energy sources
 - ✓ Participate in Tacoma Power's Evergreen Options program at 11% level
- Reuse, recycle and deconstruct buildings scheduled for removal, where possible
 - ✓ 65% diversion goal for recent demolition projects
- Adaptation: Account for sea-level rise in construction of new berths
- Implement provisions of NW Port's Clean Air Strategy

•No performance criteria; linked to diesel emission reductions



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Conclusion

Air Quality

- Committed to NW Ports Clean Air Strategy
- Early actions by the Port and our customers demonstrate performance-based approaches are effective and provide opportunities for leadership

Northwest Ports Clean Air Strategy

Challenges from a Systems Perspective

- Multiple interests
- Disruption of the goods movement system
- External factors
- Unintended economic consequences
- Statewide effects

