

Green Port Long Beach

Green Port Policy UpdateMay 2010

Presented by

Richard Cameron

Director of Environmental Planning

Green Port Policy



- Protect the community from negative Port impacts
- Distinguish Port as environmental leader
- Promote sustainability
- Employ best available technology
- Engage and educate the community

Green Port Policy Elements



- **Wildlife** Protect, maintain or restore aquatic ecosystems and marine habitats.
- Air Reduce harmful air emissions from Port activities.
- Water Improve the quality of Long Beach Harbor waters.
- Soils/Sediments Remove, treat, or render suitable for beneficial reuse contaminated soils and sediments in the Harbor District.
- Community Engagement Interact with and educate the community regarding Port operations and environmental programs.
- Sustainability Implement sustainable practices in design and construction, operations, and administrative practices throughout the Port.

Clean Air Action Plan (CAAP)

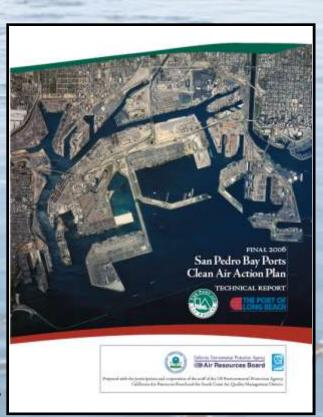


- Minimize health risk from port operations
- Build upon ports & tenants existing programs
- Set consistent project-specific
 & source-specific standards
- Enable port development

Clean Air Action Plan (CAAP)



- 5-year joint port (POLB/POLA) plan
 - minimize health risk, and
 - reduce emissions from port operations
- Prepared in cooperation with EPA, CARB and AQMD
- Sets standards for San Pedro Bay, individual projects, and individual sources (i.e trucks, vessels, rail, harbor craft, cargo handling equipment)
- Expected to reduce 47% DPM, 45% NOx, and 52% SOx by 2011, when compared to no plan



2009 CAAP Success



- Green Flag Program 95% compliance!
 - Expanded program out to 40nm
- Vessel Main Engine Fuel Incentive Program
- Shoreside power infrastructure BP Berth 121 and ITS Pier G
- Clean Trucks Program
 - 80% 2007 or better Trucks
- PHL Tier 2 fleet replacement
- Technology Advancement Program (TAP)
 - AMECS Pilot Test Pier Bulk Terminal
 - Foss hybrid tug



CTP Progressive Ban



Ban schedule:

- Ban pre-1989 trucks from Port service by 10/1/2008
- Ban 1989-1993 trucks from Port service by 1/1/2010
- Ban un-retrofitted 1994-2003 trucks from Port service by 1/1/2010
- Ban pre-2007 trucks from Port service by 1/1/2012







Clean Truck Program Tariff







Tariff requirements:

- A progressive truck ban
- Registration Agreement for drayage trucks accessing
 Port terminals
- RFID tags on all drayage trucks
- Installation of RFID readers at all Ports' terminals

Current Status



8,000 old, polluting trucks were banned on Jan. 1, 2010

Currently, more than 7,000 clean trucks in service

Another ~1,000 clean trucks on order

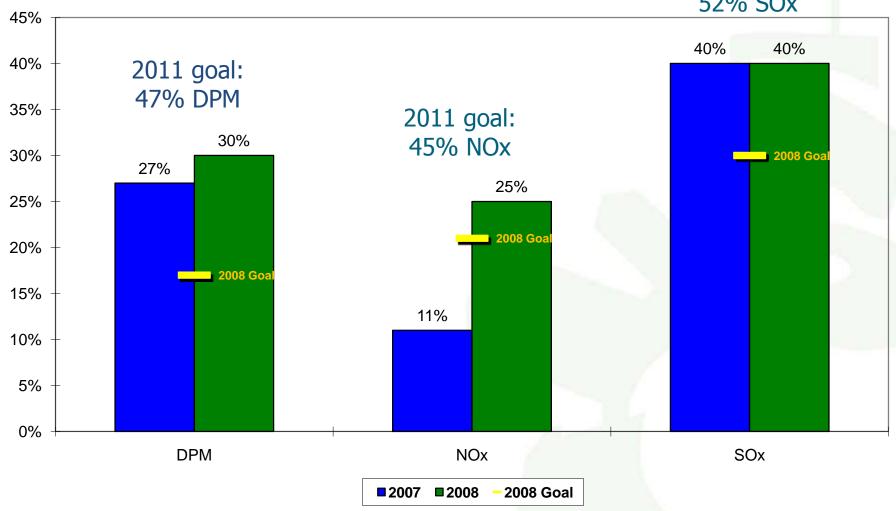
Truck pollution cut nearly 80% -- two years ahead of schedule



Progress Toward Achieving Original CAAP Goals







Updates to the CAAP



- CAAP is a "living" document:
 - Review existing measures
 - Evaluate new measures and technologies
 - Incorporate new regulations
 - Incorporate new information
- Development of San Pedro Bay Standards
 - Emissions Reduction Standards
 - Health Risk Reduction Standard
- Update measure implementation

Proposed San Pedro Bay Standards



- Emissions Reduction Standards
 - By 2014, reduce emissions by:
 - 72% DPM
 - 22% NOx
 - 93% SOx
 - By 2023, reduce emissions by:
 - 77% DPM
 - 59% NOx
 - 92% SOx

Proposed San Pedro Bay Standards

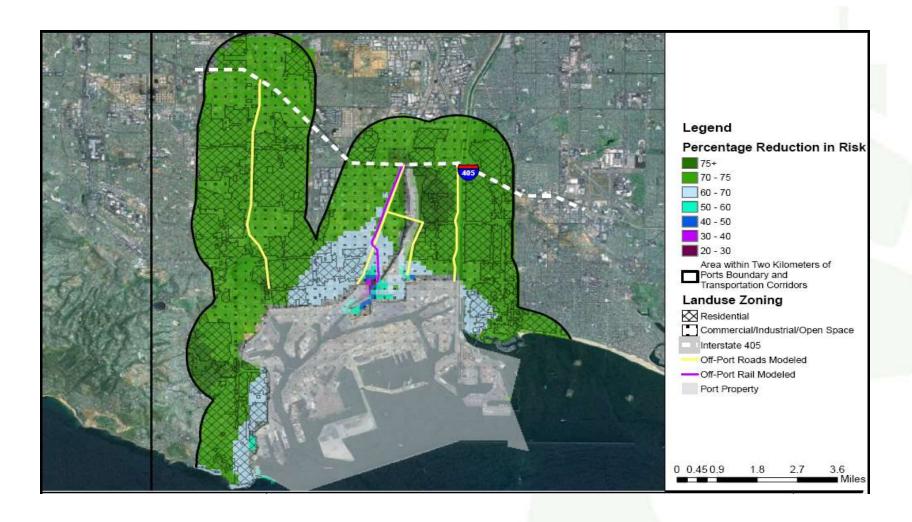


- Health Risk Reduction Standard
 - By 2020, reduce the population-weighted residential cancer risk of port-related DPM emissions by 85%, in highly-impacted communities located proximate to port sources and throughout the residential areas in the port region



Health Risk Assessment Results





Tracking, Monitoring, and Reporting Port of LONG BEACH

- Expand Port-Area Real Time Air Monitoring Network
- Emissions Inventory-Regular Updates
- Monitor Progress on Clean Air Action Plan
- Report Progress on Clean Air Action Plan

Renewable Energy/GHG Program



- Multi-divisional working group—evaluates and implements renewable energy projects
- Completed "Solar Energy Technology and Siting Study"
- Developed framework for renewable projects
 - Capital projects
 - Development projects
 - Tenant incentive projects
- Tracks other types of renewable energy, such as wind, for eventual cost-effectiveness
- Development of a comprehensive GHG Emissions Reduction Program

Water Resources Action Plan



 Joint efforts with both the Port of Long Beach and Port of Los Angeles with U.S. EPA Regional Water Quality Control Board and other stakeholders



Water Resources Action Plan



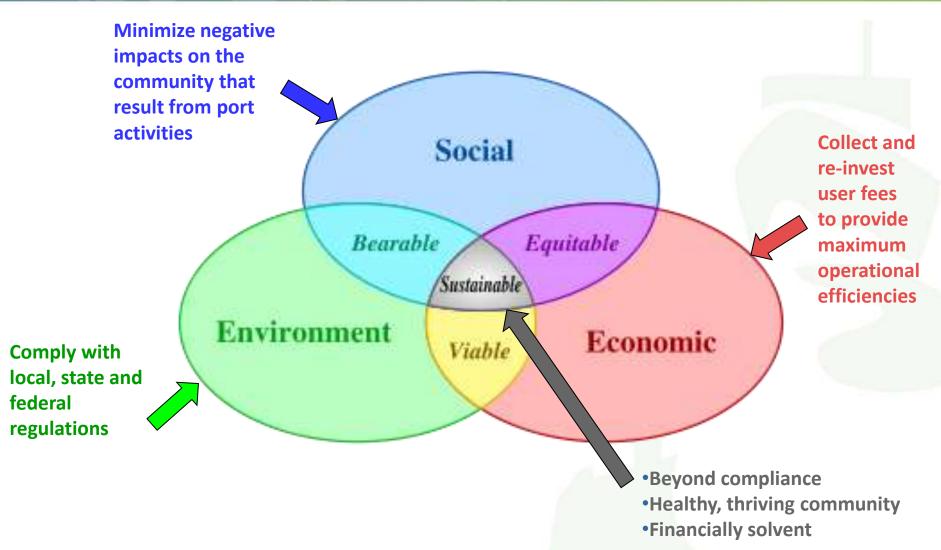
- WRAP will improve water quality by:
 - Building upon existing port programs
 - Identifying innovative and proactive methods to meet current and upcoming regulatory requirements
 - Identifying pollution control measures to improve

water quality

- Total Maximum Daily Loads (TMDLs)
- New Vessel Discharge Permit
- Sediment Management Plan

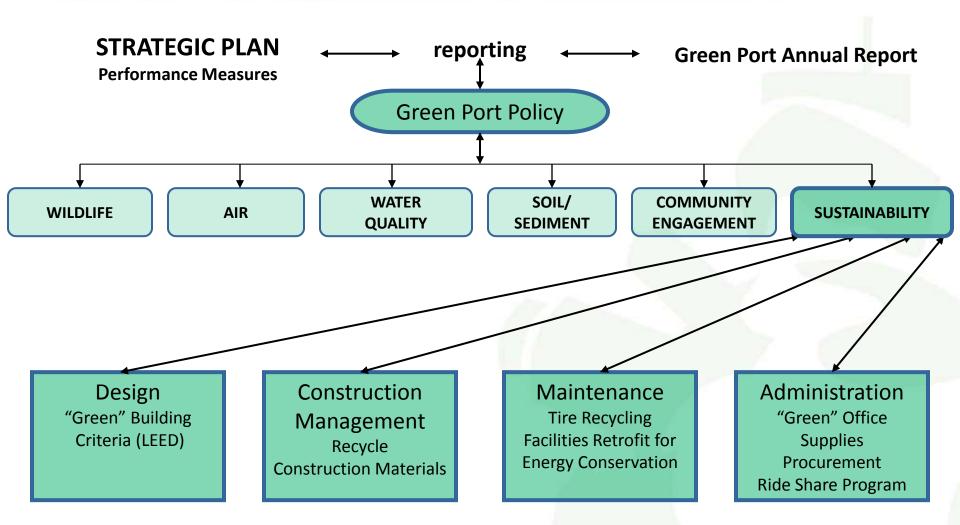
Sustainability at POLB





Integration of Sustainable Practices





CAAP Triple Bottom Line Features (TBL)



Social Responsibility

- Human health risk reductions
- Includes stakeholders in decision making
- Creates jobs
- Process is transparent
- Protects integrity of workers

Economic Responsibility

- Equitable distribution of financial burden
- Helps ports maintain "license to operate"

Environmental Responsibility

- Air quality improvements
- Energy/fuel efficiency improvements
- Advances new technologies
- Creates model for regulators and politicians
- Ecological health side benefits



Middle Harbor Redevelopment



- Modernize Piers D,E & F
- Cut pollution by 50%
- Create 14,000 jobs
- 1000 trucks off the road
- LEED Certified Bldgs.
- "Green" terminal



Middle Harbor Mitigation Funds



- \$15 million to start
 - \$5 million for Schools and Related Sites
 - \$5 million for Health Care and Senior Facilities
 - \$5 million for Greenhouse Gas Emission Reductions

What are the goals?



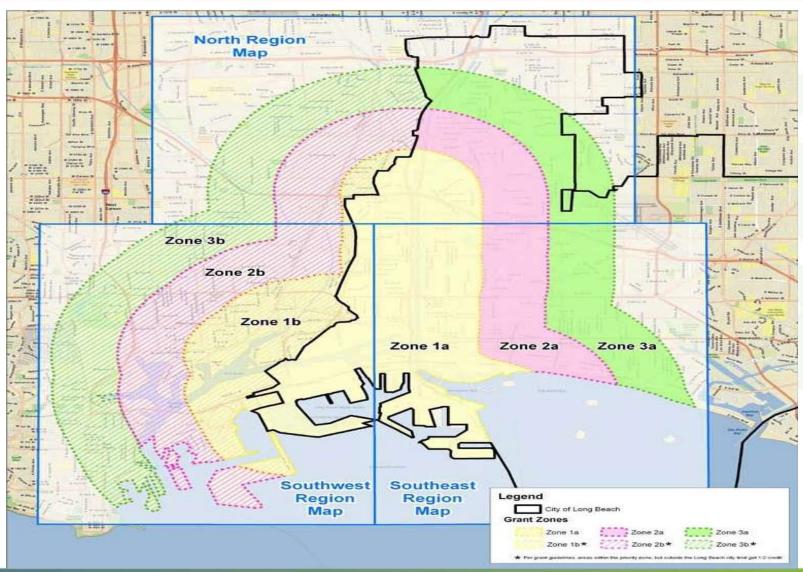


Offset impacts of port-related pollution to the community

Fund projects that provide the greatest benefits to the largest number of sensitive receptors

Impact Zones







Thank You!

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