



Goods Movement on the International Front

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Port of Los Angeles

Faster Freight Cleaner Air Conference – 4:00 pm Goods Movement on Int'l Front
Long Beach Convention Center
27 February 2007



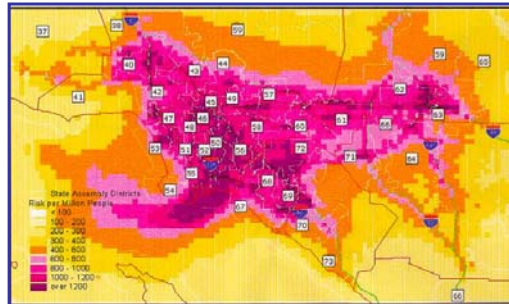
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Need for Green Ports

Health & Environmental Impacts

- Identified as Air Toxic by the California Air Resources Board (CARB)
- SCAQMD's MATES II Study
- CARB Diesel Particulate Matter Exposure Assessment Port of Los Angeles & Port of Long Beach
- Green House Gases & Ultra Fines



Pollution, traffic are linked to illness

ENVIRONMENT: German study finds heart attacks are three times more likely in congestion. Bad air is blamed.

Latino areas are hit hard by environmental health threats

REPORT: Group suffers more from pollution than the rest of the population, study finds.

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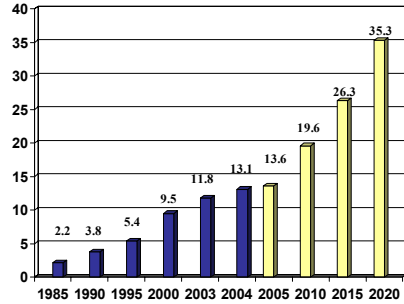
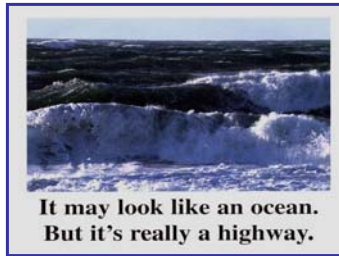


Need for Green Ports

Ports Are On Front Line Of GM Environmental Issues

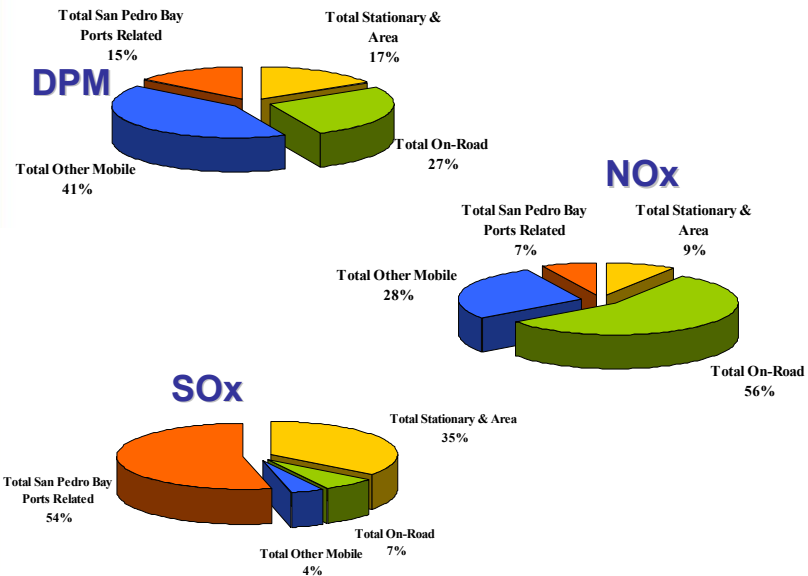
- 2005 San Pedro Bay Ports had 2,800+ Containership Calls
- San Pedro Bay Ports Move ~40% of All US Containerized Cargo

Anticipated TEU
Throughput
Growth
(million TEUs)



Need for Green Ports

Ports Are Contributors to Regional Air Basins





Need for Green Ports Port Los Angeles Efforts

- We've tried from the local side

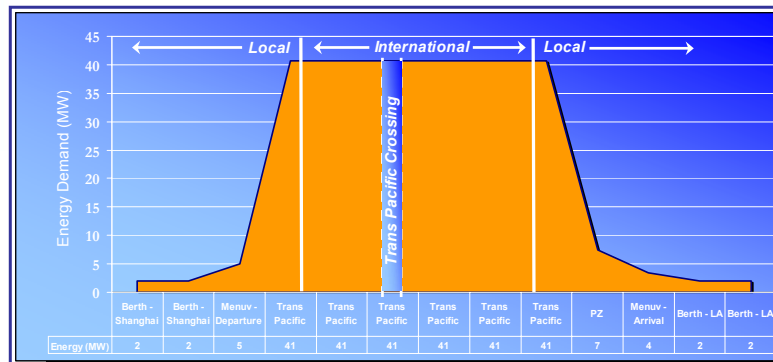


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Need for Green Ports Int'l Commerce Brings Local Air Pollution Issues

- Ship Trans-Pacific Energy Demand – Shanghai/Los Angeles



- Greater Energy Demand = Greater Pollution

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A BRIGHTER
FUTURE.



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Need for International Collaboration

Shared Environmental Problems



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Need for International Collaboration

Port's Collaboration Strategy

- Ports & Terminal Operators
- Fuel Providers
- Engine Manufacturers

- Vessel Manufacturers
- Standardization





Need for International Collaboration Shore-Side Power Standardization

- ISO Working Group Established (IAPH & ICS)
- Working Group Meeting (September 2006)
- Established Draft Committees
Cruise, Container/RoRo,
Tanker/LNG, Bulk, Ferry
- Preliminary Draft Committee document due end February
- Workgroup Meeting April 4 & 5 – Port of Gothenburg
- Publicly Available Specifications (PAS) in 2007 Key



Need for International Collaboration Vessel Manufacturers

- Meeting with Hyundai Heavy Industries
- Accommodations for AMP
- Accommodations for Main Engine after-treatment devices
- Accommodations for Additional Tankage flexibility
- Current & Future Engine Technologies





Need for International Collaboration Engine Manufacturers

- Meetings with MAN & Wartsila
- “Green Engines”
- Main & Auxiliary Engine Operations
- Fuels & Lube Oils
- Current & Future Engine Technologies
- Verification
- Collaboration Opportunities



Need for International Collaboration Ports & Terminals

- The Port of Los Angeles has signed environmental collaboration agreements to work together with the following Ports:
 - ✓ Shanghai
 - ✓ Nagoya
 - ✓ Tokyo
 - ✓ Guangzhou
 - ✓ Valparaiso
- EPA/MARAD grant to work with Shanghai
 - Emissions inventory & monitoring
 - Collaborative source testing
- Completed a staff exchange at the Port with:
 - ✓ Shanghai Municipal Port Administration Center
 - ✓ Shanghai Environmental Protection Department



(Thanks!)





Need for International Collaboration Pacific Ports Clean Air Collaborative

- Partnered with Shanghai to develop Pacific Ports Clean Air Collaborative & sought out other interested parties
- First Meeting in Dec 06
 - ✓ 18 Ports
 - ✓ Over 140 attendees
 - ✓ IAPH article
- Committed continue international dialogue on air quality issues – work through IMO



Pacific Ports Clean Air Collaborative Conference
Los Angeles, California
December 18 - 19, 2006



Need for International Collaboration Continuing Efforts

- Working w/Hong Kong to incorporate AMP into new cruise terminal
- Spring trip to Shanghai & Hong Kong to continue collaboration
- Shanghai Air Inventory Workshop, Emission Testing
- Looking forward to continued partnership w/EPA & MARAD!!



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Need for International Collaboration

The View Is The Same In Any Language

Korea



Netherlands



Los Angeles



China

