

Charting a Course to Sustainability

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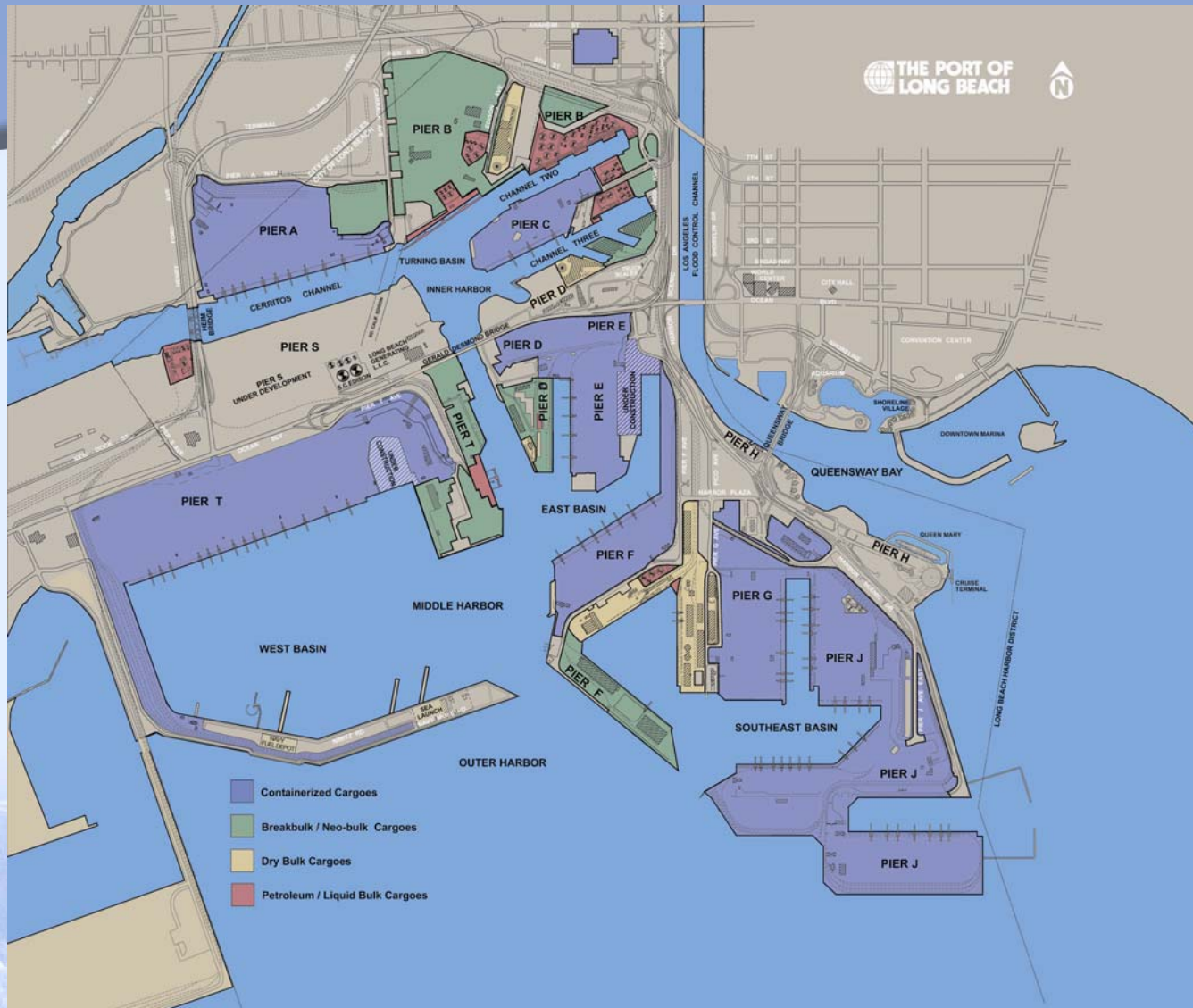


*American Association of Port Authorities
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Introduction

- Overview of the Port of Long Beach
- Drivers of Sustainability at the Port
- Green Port Policy Overview
- Application of Sustainability at the Port
- How is it working?

POLB Overview



- 3230 Acres
- 10 Piers
- 80 Berths
- 35 miles waterfront
- 71 post-panamax cranes
- 2005 Cargo
 - 6.7M TEU
 - 80M metric tons

Trade Growth

San Pedro Bay Cargo Forecasts - Actual Vs. Forecasted TEUs*
(Loaded and Empties)



*Twenty-foot equivalent units

Challenges to Growth

- Infrastructure Limitations and Deterioration
- Congestion
- Emissions and Air Quality
- Limited Land Area for Expansion
- Constrained Capacity
- “License to Operate”

Port's Response to Growth

- Efficiency Improvements
- Capital Improvements
- Revised EIR Processes and Mitigations
- Green Port Policy





Environmental Policies

- Protect the community from harmful side effects of Port operations
- Distinguish Port as leader in environmental stewardship and compliance
- Promote sustainability
- Employ best available technology to minimize environmental impacts
- Engage and educate the community

AIR



WATER



WILDLIFE



SOIL/ SEDIMENT



SUSTAINABILITY



COMMUNITY ENGAGEMENT



Sustainability – Definition

"...Development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

U.N.'s World Commission
On Environment and Development
(Brundtland Commission), 1983



The Triple Bottom Line

- Economic benefit
- Social Responsibility and
- Environmental Accountability



What Is Sustainability to the Port of Long Beach?

“Sustainability is an understanding and appreciation that long-term economic vitality is fundamentally tied to community integrity and to our ability to protect and preserve the earth – for now and for future generations.”

POLB Sustainability Task Force



The business case for \$ustainability

- Do more with less –
 - More capacity
 - Less Impact
- More efficient port operations contribute to sustainability
- Sustainability helps ensure
“license to operate”



Sustainability Task Force

- Develops sustainability projects, training, tools and materials
- Members provide leadership within Port Community as “Ambassadors”
- Structure
 - Cross-divisional team
 - Governed by a steering committee
 - Monthly meetings (started March '05)
 - BHC-approved annual operating budget
 - No full-time staff

Focus Areas for STF

- Training
 - Training Video
 - Staff Training
 - Commissioners & Executive Staff Training
 - Speakers Bureau
- Purchasing and Procurement EMS
- Green Port Action Plan
- Greening of the Administration Building
- LEED® Buildings Program



External Collaborations

- Port Tenant Relationships
 - Supply Chain
- Community Relationships
 - Green Port Open House
 - Community Reforestation Programs
- Strategic Relationships
 - Government Agencies
 - Academic Institutions
 - Selected NGO's



Is It Working?

“The Triple Bottom Line means that every project at the Port , every action is assessed by its contributions to the economy, the environment and the community at large. All of these elements must make a positive contribution for us to achieve a successful Triple Bottom Line.”

***Doris Topsy-Elvord
President, Board of Harbor Commissioners***

THE *triple* BOTTOM LINE
ECONOMIC VITALITY | ENVIRONMENTAL HEALTH | COMMUNITY INTEGRITY

THE PORT OF LONG BEACH | 2005 ANNUAL REPORT & FACILITIES GUIDE



Absolutely!

- Green Flag Vessel Speed Reduction Incentive Program
- Green Leases
- GreenPort Reforestation Program
- Construction Waste Management
- Green Fleet Replacement Policy
- Pier Pass
- Cold Ironing
- Clean Cargo Handling Equipment
- Truck Fleet Modernization
- Locomotive Replacement Program

Green Flag Program

Trade & Maritime Services



- Green Flag Vessel Speed Reduction Incentive Program
 - BHC approved in 2005
 - 12-knot speed limit within 20 miles of the Port
 - Special “Green Flag” Recognition
 - \$2.2 million/yr discounted dockage rates
- Compliance
 - 65% in 2005
 - 78.1% during first quarter 2006
- 100% compliance reduces NOx by 550 tons/yr

Green Leases

Properties Division



- SSA/Matson Pier C
 - Vessel emission reduction
 - Cold ironing, low sulfur fuel or alternate technology
 - Terminal Equipment
 - CARB fuels & EPA off-road diesel standards
 - Appointment System & Virtual Container Yard
 - LEED® new building standard
- ITS Pier G
 - Vessel emission reduction
 - Cold ironing, low sulfur fuel or alternate technology
 - Terminal Equipment
 - CARB fuels & EPA off-road diesel standards
 - Appointment system & extended gate hours

Construction Waste Management Engineering

- Construction specs require recycling of asphalt, concrete and crushed base
- Pier T Dry Dock Fill
 - Recycling 63,000 cubic yards of surcharge to Terminal Island Freeway project
 - Reduced 20,000 truck trips
 - Instigated by staff engineers thinking “Sustainability”



GreenPort Tree Program

Community Outreach

- Urban Reforestation
- 36 community sites selected
 - Cooperative program with City, schools, community associations
- First 2 projects
 - Coolidge Park
 - Hudson Elementary



Charting a Course to Sustainability at the Port of Long Beach

