

*Joint West Coast Port  
Technical Committee:  
for Development of  
Sustainable Design and  
Construction Guidelines*

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# Presentation Overview

- Background
  - What is the Joint West Coast Port Technical Committee?
  - Who are the members?
  - Why was it formed/purpose?
- Approach/Methodology
- Milestones to Date
- Path forward and Launch Date for Guidelines

# What is the West Coast Ports TC?

- ❑ An innovative, collaborative effort of seaports varying in size, mission and location along the West Coast of US
- ❑ Composition is senior environmental planning and engineering staff
- ❑ Active, engaged participation

# Cont'd

- Facilitated by the International Institute for Sustainable Seaports (I2S2)
  - Neutral, not for profit partnership between American Association of Port Authorities (AAPA) and the Global Environment & Technology Foundation (GETF)
- Structure based upon previous, successful collaborative AAPA/GETF approach
  - Builds off an economy of scale of a larger group where:
    - each member contributes a small amount of funding to offset costs of facilitation and development of product
    - meetings are hosted on a rotating basis

# Mission

*To work collaboratively to develop a set of Sustainable Design and Construction Guidelines:*

To better serve the industrial objectives of West Coast ports, and the greater, world-wide port community

# Members:

- Port of Long Beach
- Port of Los Angeles
- Port of Portland
- Port of San Diego
- Port of Seattle
- Port of Tacoma
- Port of Vancouver

\*\*International Institute for Sustainable Seaports (as facilitator)

# Why focus on: Sustainable Design & Construction Guidelines?

- Increased growth and expansion at ports
- Impacts on surrounding communities
- Need to maximize economic, social and environmental benefits

## Cont'd

- Minimizing impacts to the environment and communities
- New development at ports must require sustainable development practices for “license to operate”
- Currently, no other comprehensive guidance available:

“Necessity is the Mother of Invention”



# Prior Progress

- Leaders have made policy declarations
- Some procedures and plans in place
- Isolated but not consistent project results
- Organizational challenges defining roles, responsibilities

# Committee Objectives:

- *Define sustainable marine industrial development at the project level;*
- *Allow for flexibility and adaptability by individual ports;*
- *Build upon the sharing of best practices, keys to success, and lessons learned for implementation;*
- *Identify options and opportunities to implement sustainable attributes;*

# Objectives (con't)

- *Establish objective guidance and measurement of port sustainability;*
- *Provide a consistent approach to sustainable maritime industrial development across the enterprise;*
- *Establish a common language that is understood by internal and external port stakeholders; and*
- *Enhance the overall efficiency, productivity, and environmental performance of each port without disadvantage to the other ports*

# Approach/Methodology

- Mandatory participation by all members
- Quarterly in-person day-long working sessions
- Monthly update conference calls
- Phased product development
- Clearly defined deliverables
- Identified target deliverable dates and milestones

# Guideline Components:

- Air
- Public Outreach
- Water
- Natural resources
- Economic Considerations
- Transport
- Safety/Security
- Waste Energy
- Materials
- Maintenance, Monitoring, Reporting

# Guideline Components:

- Dredging/Disposal and Landfill
- Wharf Construction
- Roadways, Rails & Bridges
- Stormwater
- Landscaping
- Utilities Systems
- Demolition
- Revetment
- Terminal Construction
- Remediation Projects
- Habitat
- Geotechnical Soil Improvements
- Traffic Management
- Technology Projects
- Marina Development
- Dike construction
- Land/Industrial Development
- Renewable Energy Installation
- Bulk Storage
- Oil and Gas Facilities



# Example Worksheet

Project Area: **Land Development**

Focus Area: **Safety & Security**

Add New Strategy

Go to Start Page

Summary Reports

Focus Area	Strategy	Implemented ?	Why Not Implemented/ Why Not Applicable?	Supporting Details	Resources for Additional Information	Strategy Weight	Ec
<b>Strategies Required by Regulation</b>							
<i>Ports, please enter sustainability strategies here which are required by Port or local regulations.</i>							
<b>Strategies Under Consideration</b>							
<i>Project Managers, please select additional sustainability strategies that you have considered for your project.</i>							
Air	Consider using harbor craft with Tier 3 engines or cleaner.						
Air	Consider reducing the speed of ships and barges delivering construction-related materials (12 knots for ocean-going vessels).						
Air	Consider requiring construction-related ships, barges, and marine equipment to use low sulfur or ultra low sulfur fuels where appropriate.	Yes				3	X
Air	Trucks hauling material such as debris or fill material should be fully covered while operating off Port	Yes				4	
Air	Minimize idling of construction equipment and on-road trucks used during construction .	Yes				5	
Air	Consider using on-road trucks with a gross vehicle weight rating (GVWR) of at least 19,500 lbs that comply with USEPA 2007 on-road engine standards for PM10 and NOx.	No					
Air	Consider using earth movers and import haulers with a gross vehicle weight rating (GVWR) of at least 19,500 lbs that comply with USEPA 2004 on-road emission standards for PM10 and NOx.	Not Applicable					

Please choose Yes, No, or Not Applicable from dropdown menu.





# Example Summary Sheet

Select Project Area

Select Focus Area(s)

Go To List of Criteria Implemented

Print Selected Criteria

Project Area  
and Development

[Link to Chart Descriptions](#)

Chart 1: Strategy Selection & Weight by Focus Area

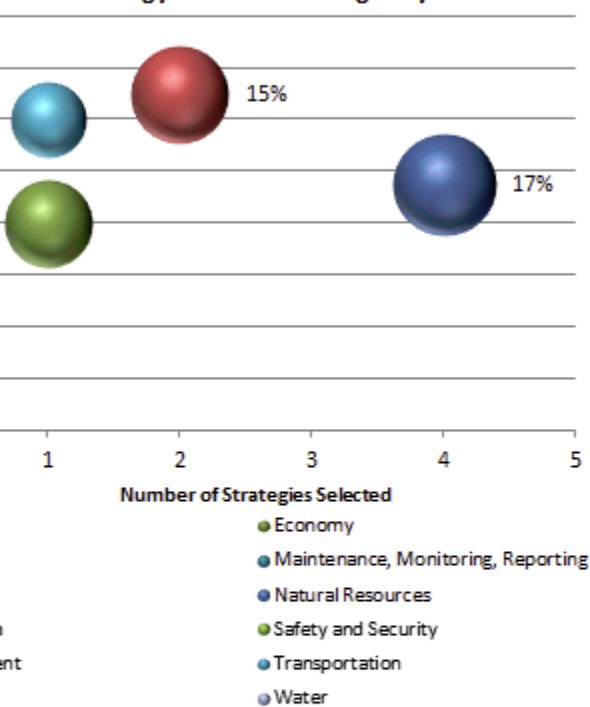


Chart 2: Summary of Strategy Selection by Focus Area

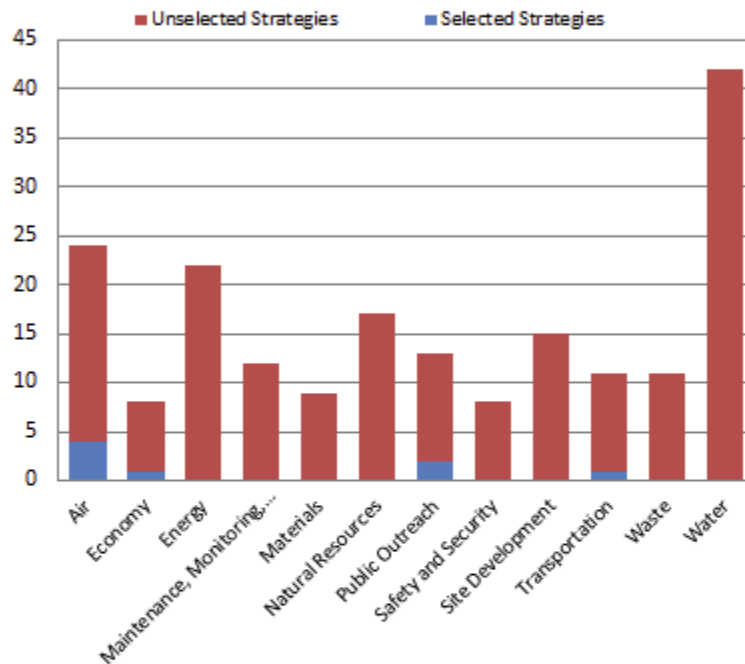
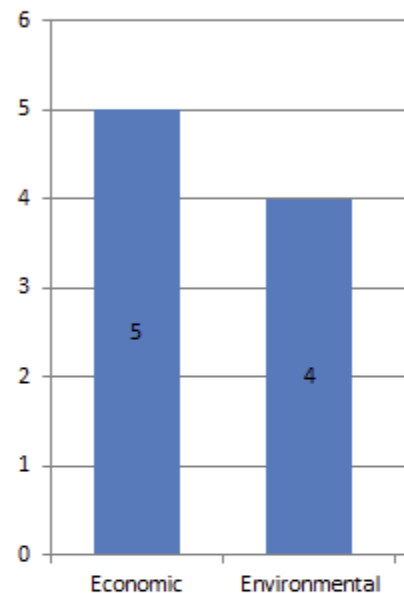


Chart 3: Summary of Economic, Environmental, Social Contributions



Focus Area	Summary of Selected Strategies	Percent Selected	Total Weighted Score	Economic	Environmental
Air	4 out of 24 (17%)	17%	19	2	3
Economy	1 out of 8 (13%)	13%	4	1	1
Energy	0 out of 22 (0%)	0%	0	0	1
Maintenance, Monitoring, Reporting	0 out of 12 (0%)	0%	0	0	1
Materials	0 out of 9 (0%)	0%	0	0	1
Natural Resources	0 out of 17 (0%)	0%	0	0	1
Public Outreach	2 out of 13 (15%)	15%	13	1	1
Safety and Security	0 out of 8 (0%)	0%	0	0	1
Site Development	0 out of 15 (0%)	0%	0	0	1

# Path Forward

- Complete coding of technology tool (excel platform)
- Pilot use of draft Guidelines for several member port projects
- “Crowd-Source” use of draft Guidelines among port community through multiple outlets
- Refine, update and publish

Release Date: August 2013



# Thank You

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