

*Proactive Ports:
Keys to Sustainability*

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Imagine your sustainable port in 20 years...



- What would be your vision of success in the future?



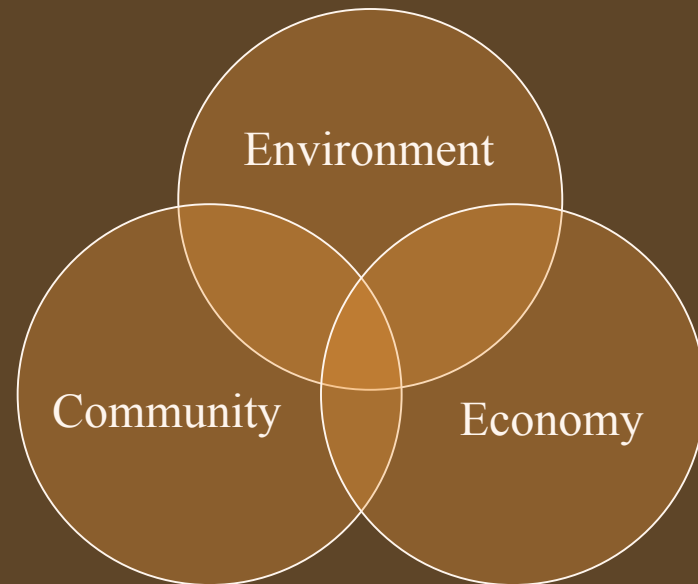
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What is sustainability?

“Meets the needs of the present without compromising the ability of future generations to meet their own needs.”

United Nations-General Assembly Resolution
December 1987

a.k.a Triple-Bottom Line



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What does it mean to be a sustainable port?

Sustainable ports proactively manage their risks and opportunities through a holistic, coordinated, long-term vision that improves the triple-bottom line.



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Consider this...

How does any decision, action, investment or policy that my Port makes effect its ability to...

- / sustain and grow its economic stability?
- / be protective of the environment and the natural capital assets it influences and relies on?
- / creates a marked enhancement of its community?



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Sustainability is unique...

- to each community's **competitive advantage**, business conditions, values, and environmental characteristics,
- will vary from port to port,
- But should always be a consideration in **planning, building, and operating** your port.



Practical sustainability strategies for...

BUILD

- Asset Management
- Green Infrastructure
- Smart Growth
- Low Impact Development

OPERATE

- Community Partners & Public Outreach
- Tenant Relations
- Facility Condition Assessment
- Environmental Compliance

PLAN

- Effective use of limited resources
- Incorporate TBL

Planning: Traditional Components

- Mission and Vision
- Organizational Information
- SWOT Analysis
- Financial and Economic Assessment
- Long-term Goals and Strategies



Planning: Sustainable Components

- Good opportunity for holistic thinking; practice using your **TBL-lens**

- Consider
 - / Smart Growth
 - / Green jobs, green industry clusters
 - / Green infrastructure



Planning: Sustainable Components

- Funding
 - / Infill or brownfield redevelopment
 - / Public-private partnerships
 - / Link to statewide/regional economic plans
 - / Show broad public benefits
 - / Green infrastructure

- Assistance
 - / Governmental-templates and technical resources
 - / Look at other port programs



Planning: Sustainable Components

- Include community goals (environmental, economic, social service)
- Articulate your environmental and community efforts
- Borrow from Corporate Sustainability Reports—innovative approach and techniques (corporateregister.com)



Sustainable Building Practices

- Facility Condition Assessment & Asset Management
 - / Current conditions
 - / Life expectancy
 - / Management Considerations
 - Replacement costs
 - Decision tools (repair or replace)
 - / Maintenance Schedules
 - / Funding



Sustainable Building Practices

- ✓ Assess the 'greenness' of your facilities
 - Include in RFP scope
- ✓ Identify metrics to track and communicate progress
 - Align with existing accounting and maintenance tracking tools
- ✓ Consider green building certifications
 - If market analysis supports, ROI is good, or will be attractive to an anchor tenant



Sustainable Building Practices

- Green Infrastructure and Site Development
 - / Green Building
 - / Brownfield Redevelopment
 - / Smart Growth
 - / Low Impact Development
 - / Reuse of Existing Infrastructure
 - / Efficient systems and/or equipment



What Is Green Building?



Sustainable Operations

- Tenant & Operational Strategies
 - / Infrastructure Needs
 - / Supply Chain and Consumer Pressure
 - / Tenant workshops
 - Great examples from around the region
 - / Green lease
 - Ensures both tenant and port managers are operating/managing infrastructure as it was intended
 - / Compliance tracking



Sustainable Operations

- Community Partners & Public Outreach
 - / Outreach in Planning Process
 - / Leverage investment
 - / Broad community support
 - / Transparency in sustainability messaging



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Relevant Industry Sustainability Initiatives



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Port-Related Sustainability Programs

- Clean Marina
- AAPA Sustainability Initiative
- EPA Sustainable Ports Strategy
- Green Ports-Puget Sound Partnership
- National Clean Diesel Campaign
- HUD Sustainable Communities
- Northwest Ports Clean Air Strategy
- At-Berth Clean Fuels
- Fast Freight



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Clean Marina

- Provides transparency, credibility, BMPs and potential for funding

<http://coastalmanagement.noaa.gov/initiatives/funding.html>



EPA Strategy for Sustainable Ports

- One of many EPA programs
- Environmental and partnership strategies
- Useful metrics

Goods Movement Actions

1.A	Develop a transportation supply chain approach to reducing air pollution from freight movement that recognizes the critical role the ports play in goods movement and allows shippers to choose cleaner methods to move goods.
1.B	Utilize existing EPA programs, such as the National Clean Diesel Campaign, Regional Diesel Retrofit Collaboratives & SmartWay Transport, to promote emission reductions in the supply chain.
1.C	Develop a supply chain model to help shippers & carriers quantify the environmental footprint of goods movement & establish corporate improvement goals for emissions performance by December 2008.
1.D	Develop a tiered set of emissions reductions goals for major ports responsible for a significant percentage of U.S. international trade, focusing on port operations/expansion, intermodal fleet modernization & key maritime sources.
1.E	Work with ports to encourage their business partners to establish meaningful (LEED-like) agreements with SmartWay Transport Partners (e.g., freight owners) to reduce the impacts of shipping goods by using cleaner fuels and more efficient routes, operations & technologies.

Green Ports—Puget Sound Partnership

- Support and funding for clean marina and green port initiatives, may include:
 - / Habitat
 - / Tenant practices
 - / Stormwater
 - / In-water and upland materials management
 - / Air quality
 - / Accountability



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Green Remediation of Brownfields

- Federal- and State-level initiative
- EPA voluntary certification program
- Prepare properties for sustainable development or green building
- May reduce cost of remedial actions



HUD Sustainable Communities Program

- Partnership EPA, HUD, DOT
- Align funding and programs; infrastructure, transportation, housing
- Leverage investment
- Promote Smart Growth and sustainability
- Grant funding for planning and projects—coming soon!!



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Industry Initiatives



What's next?



Thank you!

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