

ENVIRONMENTAL RECOGNITION PROGRAM FOR PORTS

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The International Council on Clean Transportation

The International Council on Clean Transportation is an independent, nonprofit organization founded to provide first-rate, unbiased research and technical and scientific analysis.

Part of the mission of the Marine Program is work towards measures to increase energy efficiency and reduce air pollution from oceangoing ships.



2012 Summit: Brazil, China, Europe, India, Korea, Mexico, Russia, US

Outline

- Background
 - A global perspective
 - Environmental and economic performance in ports in the U.S.
- Project Process
 - Project introduction
 - Stakeholder engagement
 - Recommendations
- Conclusion

BACKGROUND

Global Shipping Traffic

- Containership traffic in the US
 - Captured by Satellite-based Automatic Identification System

Existing Recognition Programs



Ongoing Port Initiatives and Recognition Programs



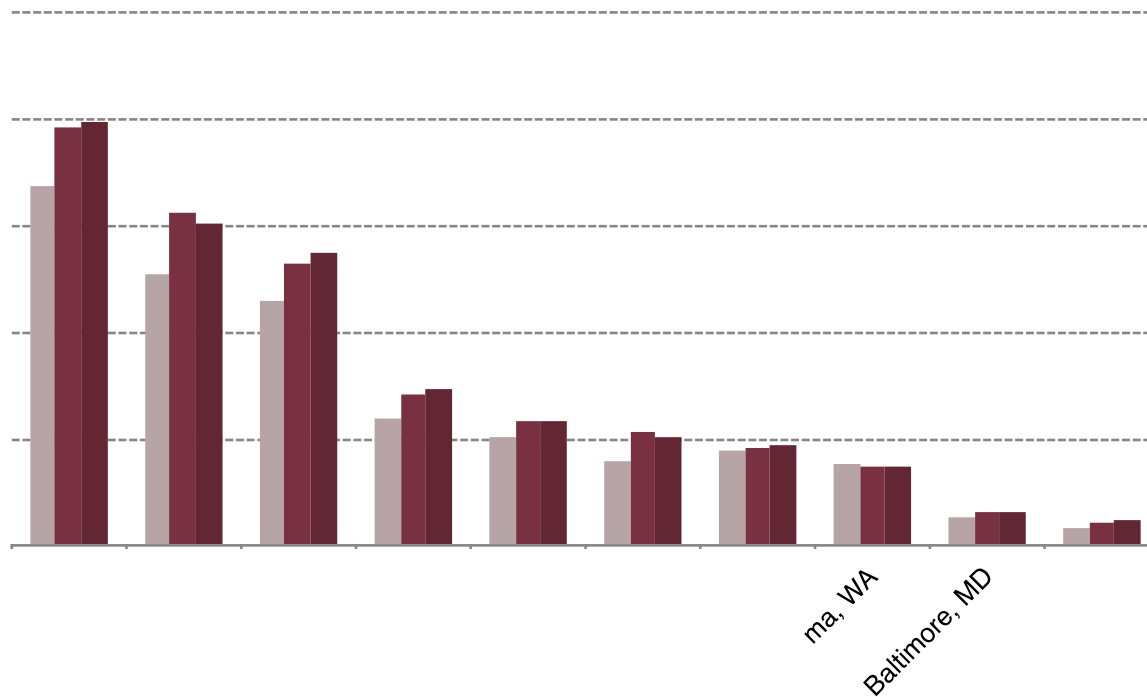
■ Port Initiative in China

- Beijing
- Tianjin
- Qingdao
- Jiangsu
- Chongqing
- Shanghai
- Guangdong
- Hong Kong

■ New port recognition program under APEC

Port growth in the US

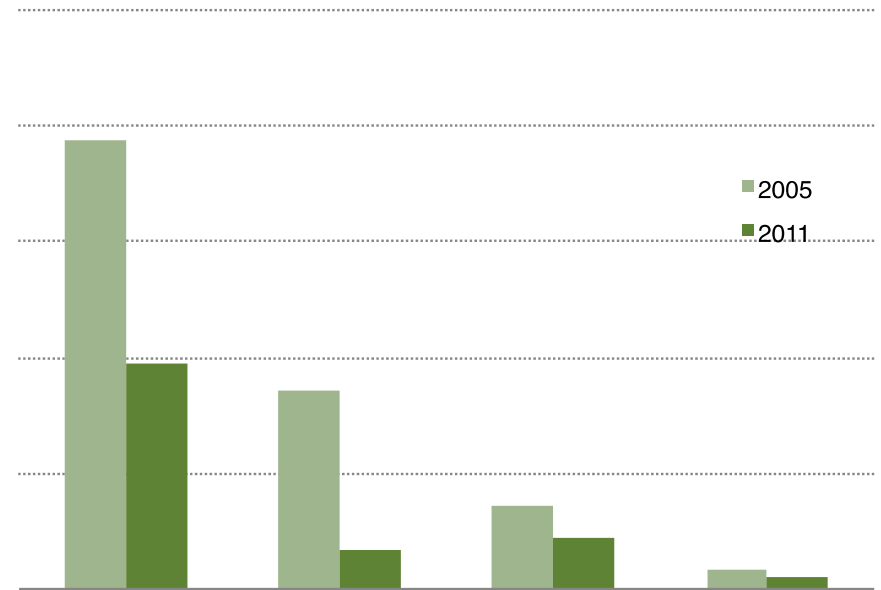
- Ports in the US collectively handled more than 40 million TEUs per year



Data Source: Port Authority of Hamburg

Substantial reductions in air emissions at ports is possible

- Ports with detailed inventory
 - POLA
 - POLB
 - Port of Oakland
 - PANYNJ
 - Port of Tacoma
 - Port of Houston
 - Port of Virginia
 - ...



Data source: POLB "Port of Long Beach 2011 Air Emission Inventory Report"

PROJECT PROCESS

Scope and Goal of the Project

- This project examines environmental performance metrics for ports with annual throughput larger or near 500,000 TEU
- The overarching goal of this program is to reduce emissions and improve air quality through instituting a recognition program that rewards participants who make progressive emission reduction efforts

The Project Team

Name	Affiliation	Title	Project Role
Haifeng Wang	ICCT	Senior Policy Analyst	Project Manager, technical lead
Alyson Azzara	ICCT	Researcher	Analyst
Sebastian Galarza	ICCT	Policy Analyst	Structured survey design and analysis
Dan Rutherford	ICCT	Program Director	Senior Technical Review
Alice Lovegrove, Jolene Hayes	Parsons Brinckerhoff	Sr. Supervisor Supervisor	Technical expert on port operations
Thomas Jelenic			Independent advisor

Stakeholder engagement

- In-person meetings
- Phone interviews
- Advisory committee meetings
- Structured surveys

In-Person Meetings

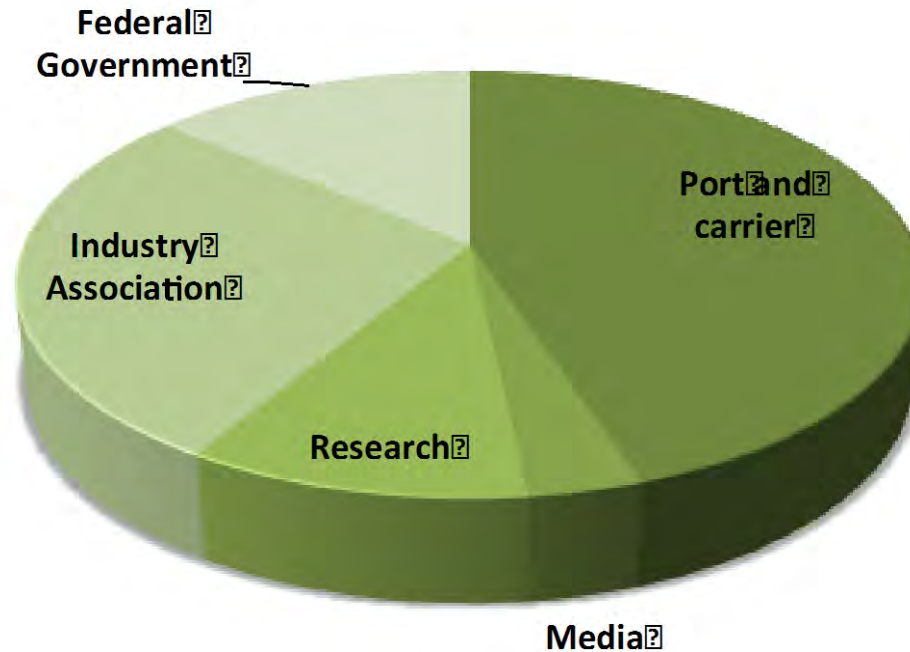
- Kick-off meeting in Jacksonville
 - AAPA Environment Committee meeting
- Stakeholder meeting in Austin
 - Organized by EDF
 - Attended by some members of the advisory committee and EPA

Stakeholder Interviews

- 30+ interviews with stakeholders
 - Ports, industry associations, consumer groups, consultants, existing recognition programs, community groups, and government agencies
 - Port interviews covers all target ports
 - Three port visits

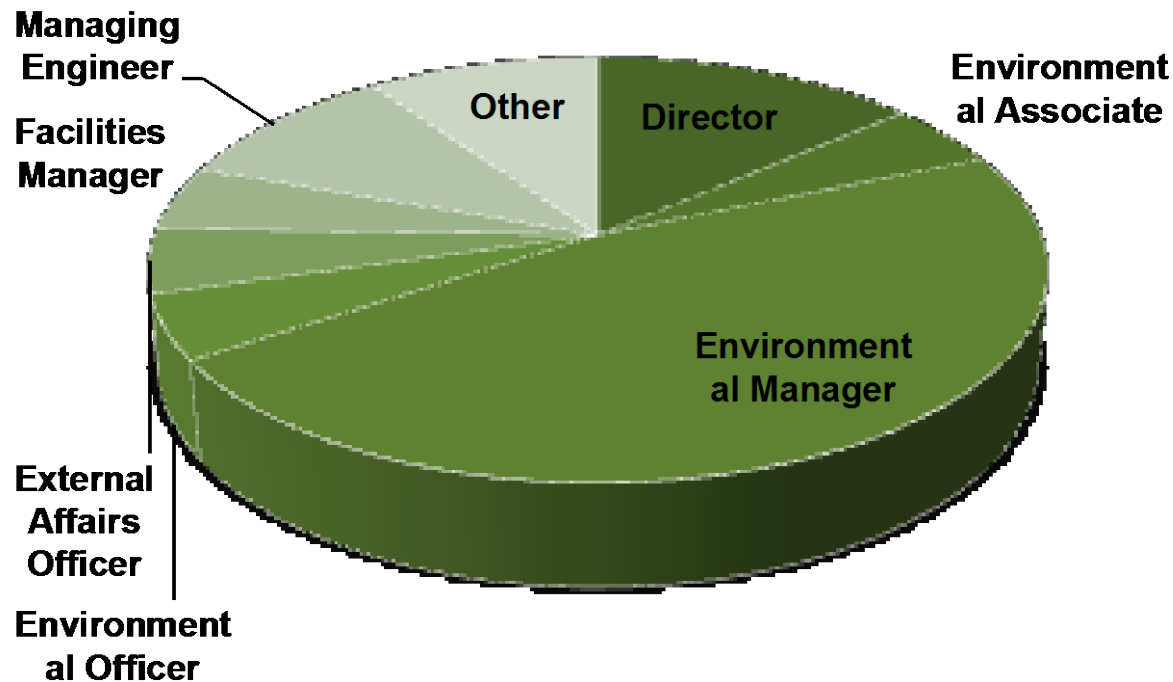
Advisory Committee

- 29 members representing a variety of background
- Monthly check-in calls



Structured Survey

- Survey was open between January 10 and January 24, 2014
- 21 survey responses from 14 ports and industry representatives



Key Recommendations

- Tiered approach
- Menu of best practices
- Flexibility

Conclusion

- Port initiatives and recognition programs have been a global trend in improving local air quality
- Stakeholder engagement plays a central role in this program
- Program results and recommendations are based on input from different stakeholders
- Input from the Advisory community ensure broad representation of stakeholder participation

Thank You

www.theicct.org/marine

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