

# Maryland Department of Transportation Port Administration



*Inform, Engage & Invest*



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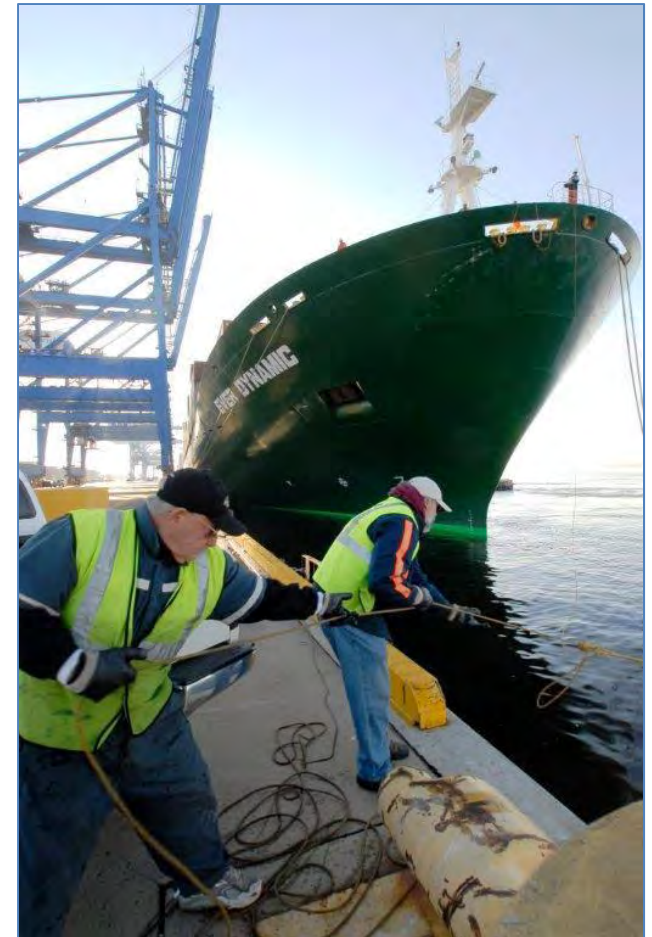


**Mission:**

“To stimulate the flow of waterborne commerce through the State of Maryland in a manner that provides economic benefit to the citizens of the State.”

**Environmental Policy:**

MPA believes that stewardship and sustainability of the environment and protection of human health are essential elements of its mission.



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The Port of Baltimore is a complex mix of Private and Public terminals...handling diverse cargoes.



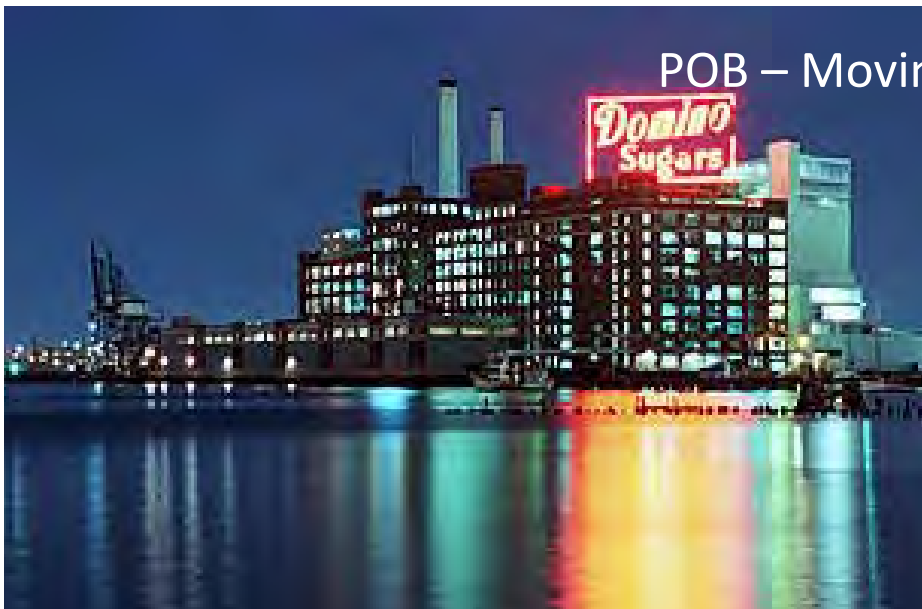
- Channels
- Private Terminals
- MPA Terminals
- Other Port Facilities
- Trade Point Atlantic



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# POB – Moving Diverse Cargoes



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Dundalk MT



South Locust MT



Auto Terminal



Seagirt MT

# MPA Terminals for Diverse Cargoes



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# Cargo Statistics and National Rankings



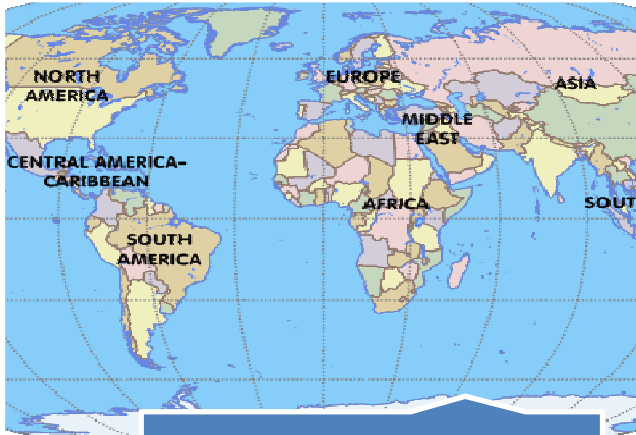
**1<sup>st</sup>** in Autos/Light Trucks; and **1<sup>st</sup>** in Roll on/Roll off (Ro/Ro) Cargo



**1<sup>st</sup>** in Imported Sugar



**2<sup>nd</sup>** in Imported Salt and Imported Alumina



**9<sup>th</sup>** in Overall Foreign Cargo Value (\$49.9B)



**14<sup>th</sup>** in Overall Foreign Cargo Tonnage (31.8m)



# Economic Benefits

***Generates about 40,000 jobs, including 14,630 direct jobs***

Responsible for:

- \$3 billion in salaries
- \$1.7 billion in business revenues
- \$1.0 billion in local purchases
- \$300 million in State and local tax revenues
- **Average income for a Port direct job (\$61,877) is 16% better than the average Maryland salary.**

Approx. 200,000 passengers sail out of the POB on 90 cruises. 440 jobs are generated by cruise activity, generating \$90 million annually.



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# Improving Air Quality





# Importance of Improving Air Quality

## ***EPA National Ports Initiative Goals***

- encouraging environmental progress at ports and reducing climate risk;
- supporting operational and technological improvements to increase efficiency;
- improving community health and air quality; and
- encouraging sustainable economic development that supports our economy and jobs.

## ***MPA Environmental Strategy for Air Quality***

- determine baseline emission data;
- evaluate emission reduction strategies, both technological and operational; and
- work collaboratively with tenants, communities, and regulators to develop and implement strategies.



# EPA Awards \$1M Grant To Maryland To Reduce Diesel Emissions

## EPA Grant:

- Repower/replace diesel 26 pieces of cargo handling equipment
- Install automatic stop-start anti-idling devices on switcher locomotives to reduce idling

## Benefits:

- Reduces pollutants impacting near-port communities
- Newer, more efficient equipment



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# Port of Baltimore Dray Truck Replacement Program

## Federal and State Match Truckers for Newer Truck Replacement

	Total Number of Trucks	Average Model Year of Replaced Trucks	Average Model Year of New Trucks
<b>Total/Average</b>	<b>170 (est.)</b>	<b>1998</b>	<b>2010</b>

Lifetime Tons Reduced			
NOx	PM2.5	HC	CO
2141.66	84.30	77.52	535.31



**Goal – Replace 50 trucks per year.**



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# Energy Reduction & Plans

More than 20 energy conservation measures:

- Lighting upgrades & occupancy sensors
- Programmable thermostats
- Remote controls for high mast lighting on marine terminals
- HVAC system upgrades (conversion to natural gas)
- Solar panels – Cruise terminal and Shed 10 SLPMT



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**Voluntary Agreement**  
*between*  
**Air and Radiation Management Administration of the Maryland Department of the Environment**  
*and*  
**Maryland Department of Transportation/Port Administration**

**Overall Goals:**

- Work cooperatively to identify, develop and when appropriate, implement new, cost-effective, voluntary programs to reduce emissions and increase energy efficiency;
- Identify and assist MPA in applying for federal and state grants for these purposes;

**Accomplishments 2016**

- Received federal grants for air quality programs
- Developed emission inventories for port activities
- Evaluating innovative technologies for air and energy.





Trash Wheel – Collects Trash



Oyster Restoration – Naturally Cleans Water



Algae Turf Scrubber – Removes Pollutants



# Improving Water Quality



Floating Treatment Wetlands



Tree Planting

# Water Quality TMDL

MPA Impervious Accounting Summary Table	
Total Impervious Acres (2006)	1,205
Baseline Treated Impervious Acres (2006)	105
Untreated Acres (2006)	1,100
20% Impervious Acre Treatment Required	220



# Community Engagement

## Strategy for Engaging Communities:

- Build strong relationships with communities;
- Identify organizations and leaders who best represent these communities;
- Understand the communities' issues, concerns and goals;
- Communicate the importance of POB activities;
- Create a trusted and effective communication link to exchange information and elicit community questions, concerns and/or issues early on

**Harbor Development – Dredging Program**  
**Landside Operations**  
**Mitigation & Voluntary Involvement**



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# Community Engagement

## Findings :

- Focused on water issues, especially stormwater pollution, including litter
- Focused on traffic & air issues and their impacts to communities
- Learning and are becoming clear in their goals in engaging with MPA
- Interested primarily in job training, job development and job opportunities

Newsletters and dissemination of information compiled on POB's environmental and economic key points

Consistent presence and engagement (MPA's messages are becoming consistent and comprehensive reaching wider audiences)



# Urban Forestry Partnership

**Project Scope:** MPA partnership with Bluewater Baltimore (BWB) to plant 500 street and open-space trees in Baltimore City & County.



**Highlands Neighborhood**

- Mixed street (residential) and open space



**Cherry Hill Neighborhood**

- Mixed street (residential) and open space



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# Masonville Dredge Material Containment Facility & Cove for Public Use



Located along the Middle Branch of the Patapsco River in Baltimore • Working area of 141 acres, including 127 acres of diked open water • Began operations in 2010 • Receives dredged material from the Baltimore Harbor • Has capacity for a total volume of 15 million cubic yards of dredged material • Includes approximately 55 acres of protected land in Masonville Cove



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# Dredged Material Containment Sites



# Mr. Trash Wheel



**WATERFRONT  
PARTNERSHIP**  
OF BALTIMORE

YTD Removed > 1M Pounds of Trash



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# New Additions

- 🗑️ Mr. Trash Wheel got a new neighbor at Harris Creek.
- 🗑️ Mr. Trash Wheel will be part of a romp @Masonville Cove, where it will help school children learn firsthand about reducing trash in the Harbor.



# GreenPort Congress International Conference First in North America

## 'GreenPorts are SmartPorts'

will emphasize

how seaports can grow in an environmentally responsible way, without sacrificing efficiency, profitability, and innovation.

Hosted by

State of Maryland, Maryland Department of Transportation and  
Maryland Port Administration

May 16-18, 2018



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# America 2018 GREENPORT Congress

Balancing Environmental  
Challenges  
with Economic Demands  
The Worlds Leading Conference  
Comes To Baltimore

16  
TO MAY | Baltimore  
18 2018 | Convention Centre

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