

Maryland Port Administration

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Sustainability Report



2025

Navigating Tomorrow Responsibly



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Looking Forward

Message from the Governor

In Maryland, everyone deserves access to clean air, clean water, and clean communities. Moving in partnership with leaders at our local, state, and federal levels, we are creating new clean jobs, driving economic growth, and building new pathways to work, wages, and wealth for all.

“My Administration will continue to pursue a clean and growing economy that provides for a more sustainable Maryland.”

The Maryland Port Administration is helping us progress toward a more sustainable future. In October 2024, I was very pleased to join the President at the Port of Baltimore to celebrate a \$147 million U.S. Environmental Protection Agency grant that would expedite decarbonization and electrification efforts at the Port. Today, we are putting cleaner cargo-handling equipment into service that will reduce emissions and produce healthier air at the Port of Baltimore and for neighboring communities.

Along with funding cleaner machinery, we’re upgrading the Port of Baltimore’s electrical grid, which over time will reduce greenhouse gas emissions by up to 35 percent compared to 2020 levels. These actions will benefit our thousands of valued port workers and adjacent communities like Turner Station.

The Dredged Material Management Program is also placing us on a more sustainable path. The importance of dredging sediment from our shipping channels cannot be overstated. In order to allow for the continued safe passage of massive cargo ships, some as long as four football fields, we need to dredge but also be responsible with how we handle that sediment. We are rebuilding long-eroded Maryland islands to their original footprints using dredged sediment. Poplar Island and Hart-Miller Island have been rebuilt and are today home to hundreds of different wildlife and waterfowl species. Our newest environmental restoration, the Mid-Chesapeake Bay Project, will follow the Poplar and Hart-Miller models and rebuild James and Barren islands.

We’re also examining the possibilities of reusing dredged sediment in beneficial and practical ways such as using it as filler material for shoreline protection, brick pavers, and concrete barriers.

My Administration will continue to pursue a clean and growing economy that provides for a more sustainable Maryland: decarbonizing and electrifying, improving air quality, especially for vulnerable communities that have borne the brunt of decades of injustice, and protecting the health of the Chesapeake Bay.



Every Marylander deserves access to clean air, clean water, and resilient communities. Our work will not stop to uplift neighborhoods that have been previously left behind and help ensure a more competitive economy and healthier communities for all.

Governor Wes Moore

Message from the Transportation Secretary



Kathryn Thomson

At the Maryland Department of Transportation (MDOT), establishing a strong path forward for sustainability is at the heart of our mission and who we are as an organization.

We take a comprehensive approach to environmental stewardship and sustainability, whether it be air quality, climate resilience, energy, land and water resources, or regulatory compliance. These are integral in our transportation planning, design, construction, and day-to-day operations.

All our transportation modes believe that protection of human health and natural resources and the implementation of environmentally responsible business practices are essential elements of their missions. Our strong commitment includes minimizing transportation activity impacts to communities, ensuring meaningful involvement in decision-making processes and that any impacts are not disproportionately borne by marginalized communities. We remain committed to supporting larger societal goals, partnering with the communities we serve and promoting social equity, environmental protection, and sustainable communities.

“Establishing a strong path forward for sustainability is at the heart of our mission.”

Our environmental compliance includes pollution-prevention and recycling policies that preserve natural resources, reduce waste, save energy, and improve air and water quality. We’ve also taken strong steps to reduce conventional energy use through efficiency measures and by expanding our renewable energy sources, including solar and tax credits for electric vehicles.

MDOT capital projects are reviewed for impacts to trees, water, wetlands, wildlife, and aquatic life. We also work closely with our environmental partners to improve the water quality of our Chesapeake Bay. Our transportation modes incorporate environmental best practices, such as reducing pollution in stormwater runoff from state highway projects. Mitigation efforts are also part of our game plan when impacts cannot be avoided. This may mean restoring a stream or planting trees, or even habitat restoration for birds, mammals, and aquatic life at islands reconstructed through the Maryland Port Administration’s innovative dredging program.

Using comprehensive solutions, the Maryland Department of Transportation is laser focused on continuing to examine and implement sustainable practices throughout its network. I look forward to working with the dedicated team at the MPA to deliver on this plan.

Message from the Executive Director



Jonathan Daniels

“Our promise to engage in sustainable operations begins with strong collaboration with our stakeholders, customers, and community.”

We're pleased to present the 2026 Maryland Port Administration (MPA) Sustainability Report which provides a thorough and comprehensive review of how we incorporate sustainable practices into our core business and overall mission.

The MPA is thoroughly committed to enhancing sustainability across all of our organizational platforms with forward-thinking environmental solutions and our focus on smart sustainability directly aligns with Governor Moore's vision to make sure Maryland is on the right path toward a sustainable future.

Our promise to engage in sustainable operations begins with strong collaboration with our stakeholders, customers, business partners, and our local community members. Through workforce development and various educational programs that transcend our cargo and environmental focuses, the MPA is proud to work

with community organizations and leaders through various outreach and volunteering initiatives that support shared goals.

In our first full year of our historic 2024 EPA Clean Ports grant funding program, the MPA and our private sector grant partners last year began receiving and putting into service different types of cargo-handling equipment that will help further reduce emissions and provide cleaner air for the Port of Baltimore and its surrounding neighborhoods. We also began laying infrastructural groundwork that will support long-term equipment electrification.

Doing what we can to place the Port of Baltimore on a more sustainable track drives us every day. We look forward to continuing to build on the strong foundation and recent progress we've made in showing sustainable evolution, social responsibility, and economic growth.

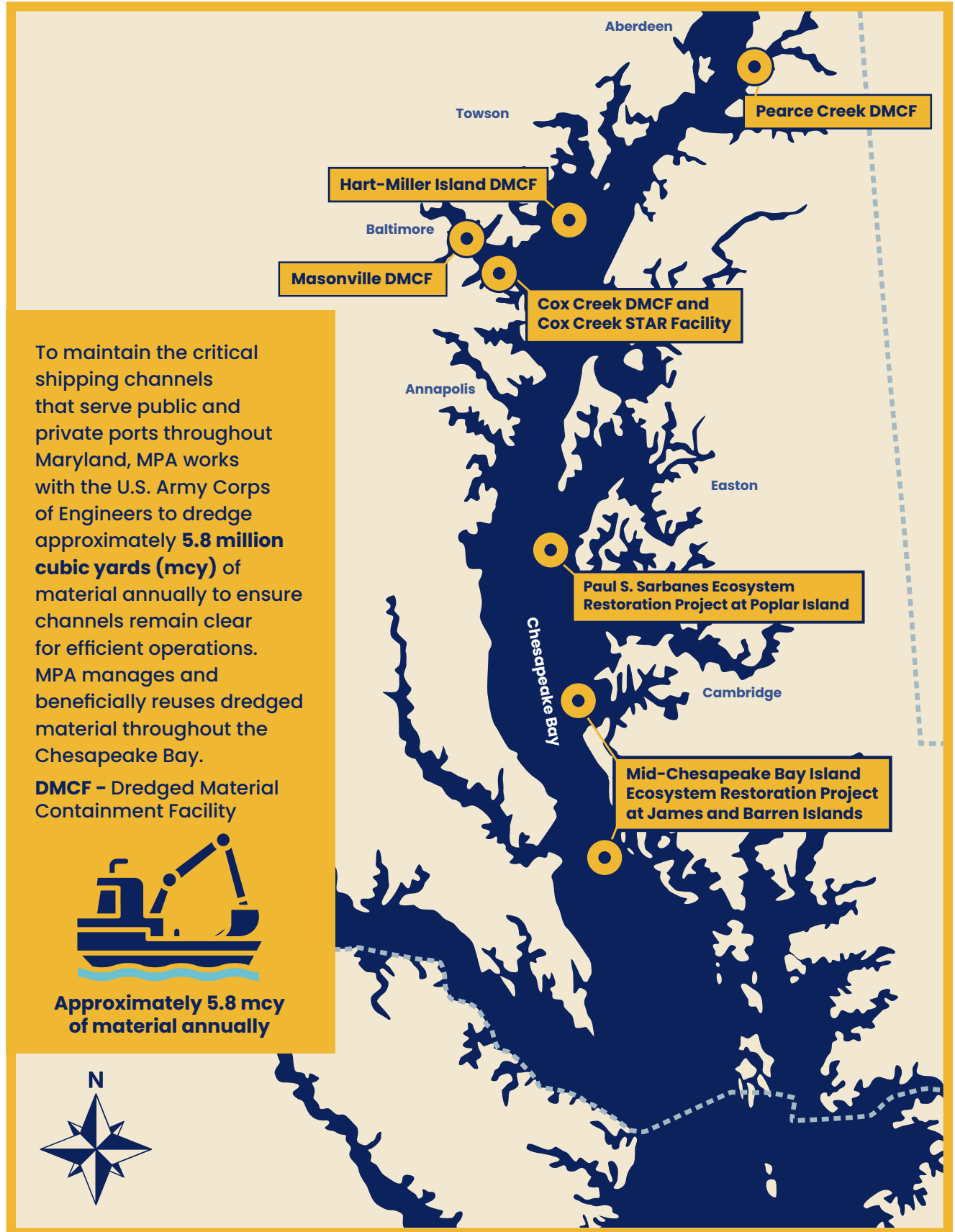
MPA Overview

Maryland Port Administration's (MPA) mission is to stimulate the flow of waterborne commerce through the ports in the State of Maryland in a manner that provides economic benefit to the citizens of the state.

MPA is comprised of six marine terminals, which supports imports, exports and cruise line operations. Located in the heart of Baltimore, MPA headquarters are located at the World Trade Center, a central hub for the region's international commerce.



MPA Overview



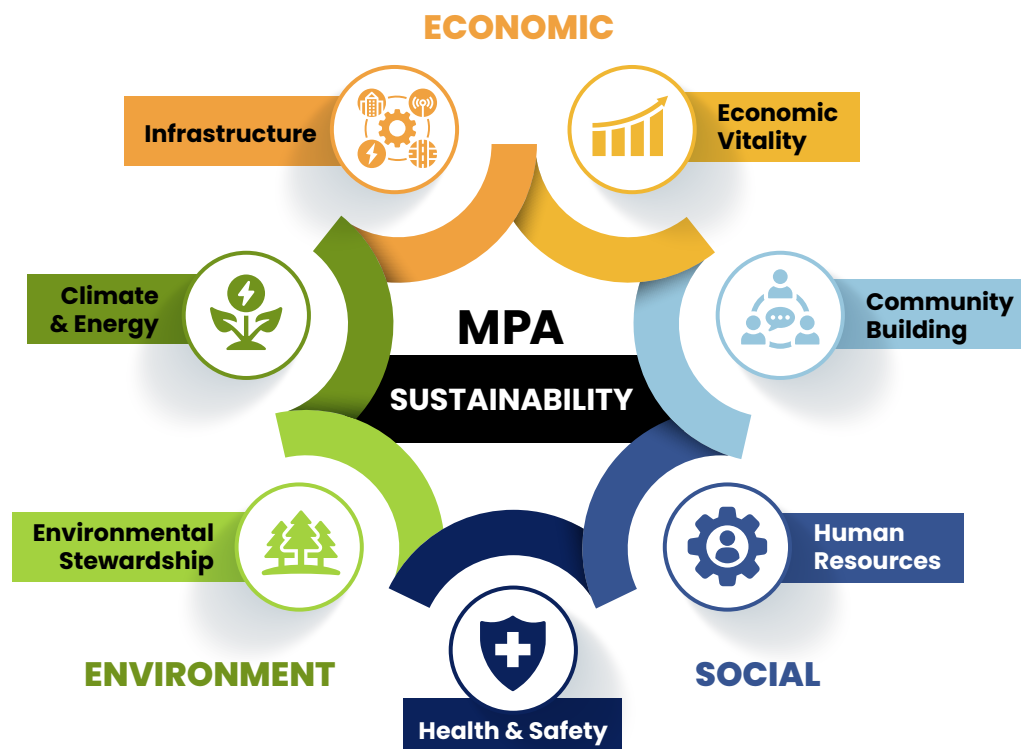
Commitment to Sustainability

MPA is uniquely positioned to conduct its port operations in a region with exceptional natural resources, strong environmental values, and an engaged and active community. Across all functions of its maritime operations, strategic planning, business practices, and outreach efforts, MPA is firmly committed to integrating sustainability.

MPA and its terminals are situated along, and are inextricably connected to, the Chesapeake Bay, the largest estuary in the United States. Alongside this connection, MPA continues to support economic vitality and is equally committed to advancing a sustainable future for the port alongside the environment and neighboring communities.

MPA's commitment to sustainability offers a balance of strengthening the local economy, protecting the environment, and supporting the community, which is foundational to MPA's culture and values.

This 2025 Sustainability Report is a representation of the progress and initiatives that MPA has made in 2025 and will continue to build upon. Under the three pillars of economic, environment, and social, MPA incorporates seven focus areas into everyday practices and projects, to boost business efficiency in a sustainable manner. The report highlights these focus areas, including economic vitality, infrastructure, human resources, health and safety, environmental stewardship, climate and energy, and community building.



Economic Vitality



The Port of Baltimore plays a vital role in the economy of Baltimore and Maryland through cargo, supply chain, and employment. To guide MPA, a new master plan is underway to chart the course for a sustainable and prosperous future.

MPA's terminals contribute over \$70 billion annually to Maryland's economy and over 273,000 direct and indirect jobs.

Metrics Roundup



11.1 million tons of general cargo handled



1,122,343 Container Twenty Foot Equivalent Units



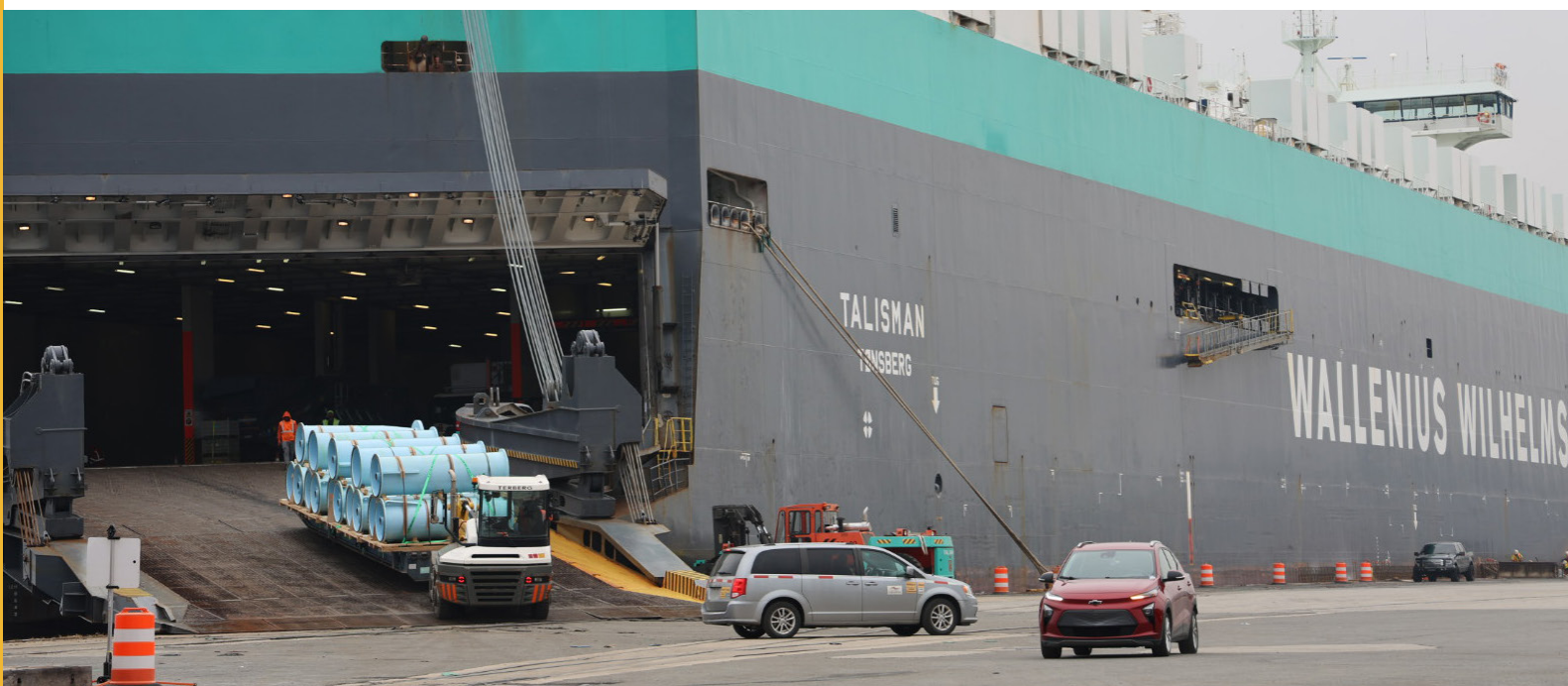
MPA awarded **\$328,952** in procurement contracts to veteran-owned small business enterprises



9 outreach events attended to connect with minority-owned, veteran-owned, and small businesses across the state of Maryland



A total of **55.48% of MPA's spending** was allocated to 'green spending' for sustainable products and services





Howard Street Tunnel

Progress on the Howard Street Tunnel expansion in 2025 positioned Baltimore readiness for double-stack rail service in 2026. The expansion effort supports long-term goals to improve freight efficiency, reduce emissions, and expands sustainable cargo movement across the east coast from Maine to Florida.



22 Clearance Sites

between Baltimore and Philadelphia



137 million gallons

of reduction in fuel usage



160,000

containers annually



14,000

jobs supported

National Leadership in Key Cargo Sectors

The Port of Baltimore continues to excel in specialized cargo, with national rankings that highlight its role as a major U.S. trade gateway and a strong driver of regional economic growth.



1st in Roll on/Roll off (RoRo)
High and Heavy Cargo and
Imported Forest Product



Approximately 14.9 million tons in imports
Approximately 35.1 million tons in exports
Approximately 50 million tons
in overall Foreign Tonnage (11th in
the nation, 4th on the east coast)



2nd in automobiles and
Imported Gypsum



\$65.6 billion in Overall Foreign
Cargo Value (10th in the nation)

A Growing Gateway for Cruise Travel



Cruise activity at the Port of Baltimore continues to strengthen the region's tourism economy, including significant parking revenue, while supporting sustainable transportation goals.



Top Cruise Partners



Passenger Statistics



95 cruises



413,000 passengers served



\$1M economic benefit per cruise line



Boost to Local Tourism and Businesses

Community and Workforce Benefits



620 jobs supported across tourism, operations, hospitality, and MPA.



Sustainable Growth Through Expended Procurement Opportunities

In 2025, MPA expanded outreach to open more doors for diverse Maryland businesses. Through increased engagement with local vendors and clearer access to contracting opportunities, MPA advanced sustainable economic progress across the regional economy.



\$5.8M awarded to Minority Business Enterprise firms



25.5% of all procurement directed towards Minority Business Enterprise



27 Prime Contracts and 22 Subcontracts awarded to Minority Business Enterprises

Infrastructure



Building sustainable and resilient infrastructure is essential for economic stewardship, environmental protection, and community benefits. Through collaboration with its tenants, stakeholders, and community members, MPA strives to build and maintain its facilities in smart, efficient, and long-lasting ways.

Metrics Roundup



+80 feet planned final elevation at Cox Creek



20 acres at Ports America Chesapeake (PAC) empty container facility developed through Terminal Alteration and Renovation Program (TAR)



+30 feet raise of Masonville dike completed



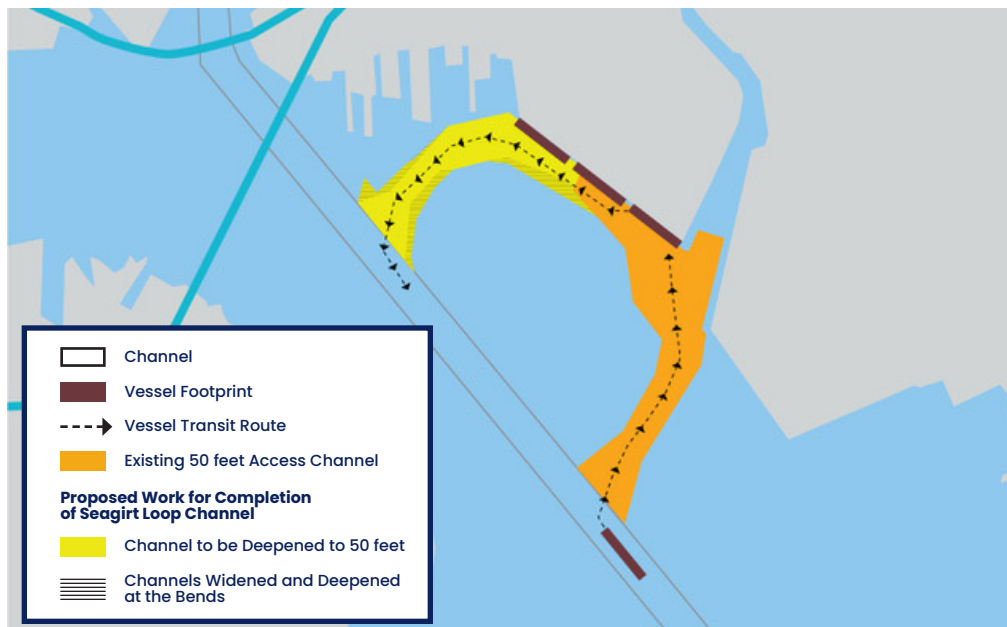
6 major facility upgrades



+42 feet design finalized for the next raise at Masonville

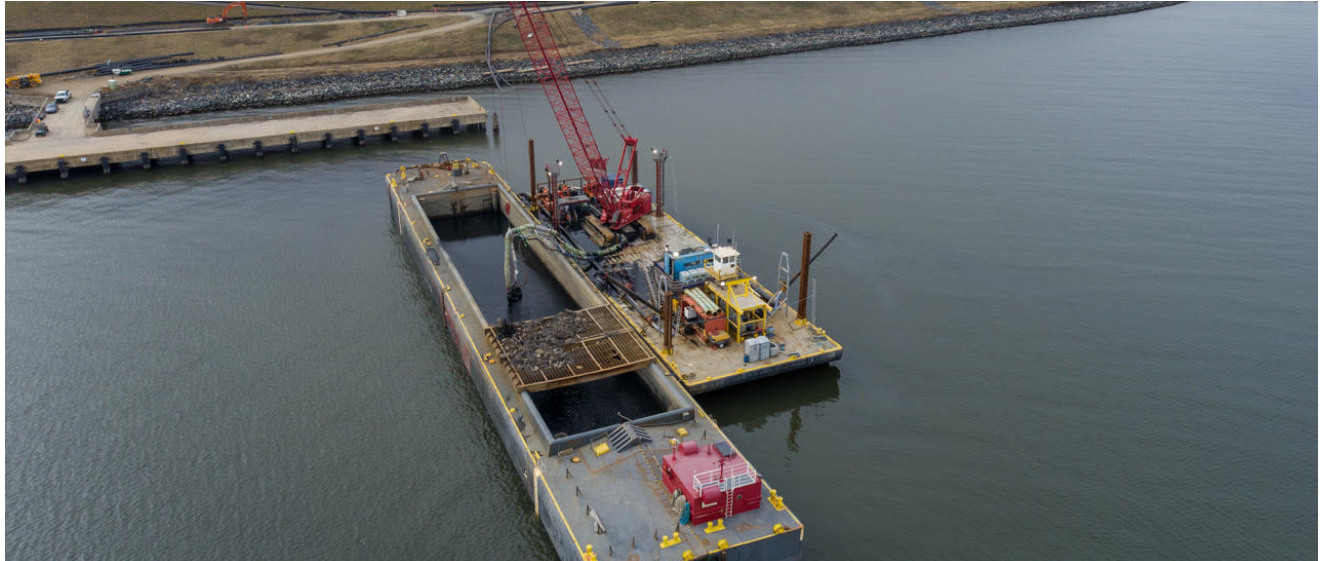
Seagirt Loop: Built for Global Leadership

In partnership with the U.S. Army Corps of Engineers, MPA continues to advance plans to deepen and widen the Seagirt Loop Channel. These upgrades will enable continuous ultra-large container vessels movement, improve navigational safety, and the Port of Baltimore's marketability for container cargo.



Expanding MPA's Dredged Material Capacity

In 2025, MPA continued to improve its Dredged Material Containment Facilities (DMCF) to expand storage capacity and expand upon its beneficial use and innovative reuse projects.



Cox Creek Dredged Material Containment Facility Expansion



Expansion completed in 2024 to +60 feet



Upland cell excavation advanced through 2025



Geotechnical Report completed end of 2025



Next Steps: Final elevation target of +80 feet (design in preliminary phase)

Future IRBU Hub: Cox Creek Sediment Technology and Reuse (STAR) Facility

Planned for large-scale innovative reuse and beneficial use (IRBU) activities for dredged materials.



Remediation of legacy contamination begins in 2026



Supports drying, processing, and innovative reuse of dredged materials

Masonville Dredged Material Containment Facility Dike Raising



+30 feet dike raising completed ahead of schedule



+42 feet dike raising finalized in 2025



Construction begins in Summer 2026

Infrastructure Modernization

MPA performed facility upgrades to ensure up-to-date and dependable infrastructure. Some of the 2025 projects included:



Oil Water Separator Replacement (Building 19B)



HVAC Replacement (Dunmar Building 97 Server Room)



Traffic Light Replacement (1st Street and North Service Road)



Groundwater Treatment Plant Emergency Work



Cruise Terminal Breezeway Door



Fire Pump Replacement (South Locust Point Shed 11C)



Ports America Chesapeake

Through the TAR program, PAC advanced redevelopment of an MPA-owned parcel, transforming an abandoned parking lot into a 20-acre empty container storage facility.

Terminal Alteration and Renovation Program

The TAR program enables MPA departments and tenants to coordinate planned construction projects. Stakeholders review project designs and identify conflicts to ensure compliance with environmental and safety requirements, which in turn improves communication across MPA departments while driving consistency and efficiency.

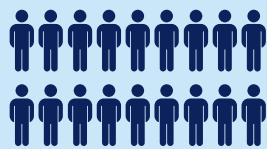


Human Resources



MPA strives to develop a diverse and skilled workforce that aligns with regional needs and employment opportunities at the Port of Baltimore. MPA's human resource practices emphasize continuing education, enhanced supervisor training, and performance development, to ensure that MPA employees have the tools needed to support continued career growth. Additionally, MPA connects local communities to internship and employment opportunities.

Metrics Roundup



18 new employees onboarded (10% increase in employee total), including a Procurement Officer II for Services, Suppliers, and Information Technology departments



2 partnering institutions for No-Cost No-Debt Program

Ongoing Career and Internship Engagement

Annual Baltimore Port Alliance Hiring and Career Expo

- Largest event to date
- Attended by 43 employers
- More than 300 prospective employees



Masonville Cove Links WildSTEM Internship Program

Partnership with the National Links Foundation, recruiting students from local historically black colleges and universities. Four interns gained practical exposure to conservation careers through hands-on experience.

Investing in Leadership



In 2025, MPA launched the Supervisory Training Engagement Program in partnership with Carroll Community College. This leadership development initiative on leadership styles and competencies for supervisors such as conflict management, organizational skills, communication, and managing a diverse and evolving workforce.

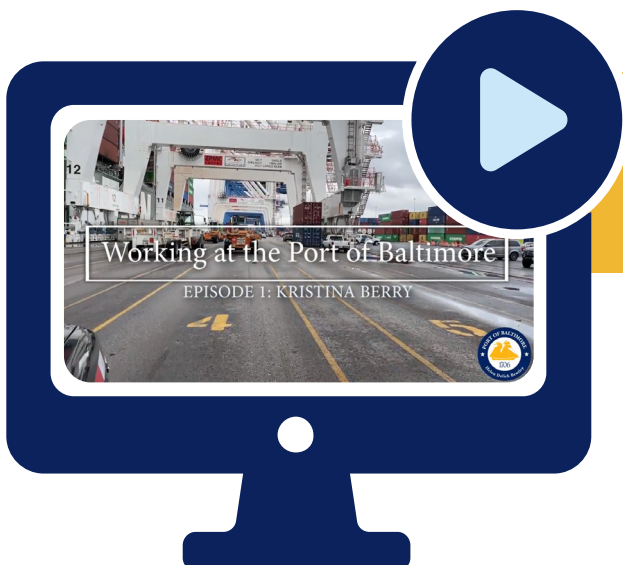


MPA launched performance appraisal training to facilitate the transition of the new evaluation tool. Training topics included goal setting, identifying bias, and delivering effective employee feedback.

Empowering Employee Opportunity and Education



In 2025, MPA established a No-Cost No-Debt Program enabling staff to pursue higher education with virtually no out-of-pocket expenses, through partnerships with Stevenson University Online and the University of Maryland Global Campus.



Working at the Port of Baltimore educational video



Scan or click QR code to watch the video

Health and Safety

Health and safety for employees, tenants, and visitors is foundational to operating a sustainable port. Through comprehensive training, program audits, and hazard communication, MPA promotes awareness and accountability. As a result, employees are prepared to identify risks, prevent incidents, and maintain a safe working environment.

Building a Safer Workforce

MPA conducted over 80 health and safety training classes in 2025 including:

 HAZWOPER	Strengthens hazardous material response readiness and environmental protection
 CPR/AED	Expands life-saving capability across facilities and operations
 Fall Protection	Reduces serious injury risk during elevated work events
 National Incident Management System	Ensures readiness and eligibility for emergency response coordination

Safety First

- Mold Inspection and Remediation Program**
Developed to identify, assess, and remediate mold, improving indoor air quality.
- Lockout/Tagout Program**
Completed a comprehensive program review and updated procedures and equipment to reduce energy-isolation risks.
- Hazard Communication Program**
Updated Safety Data Sheet (SDS) database and trained employees on SDS procedures.
- Root Cause Analysis**
Conducted 17 root cause analysis meetings to identify risks and correct systemic issues to reduce incidents on the job.



Metrics Roundup



82 training classes held



280 total participants in training



56 firefighters and first responders participated in ship tours



OVER 200 newly hired longshoremen participated in RoRo Rodeo training in machinery operation

Modernizing Security and Operational Resilience



Cybersecurity Assessment and Remediation



Identified software vulnerabilities, prompting targeted remediation. Updated systems are now routinely scanned to detect and address security risk and support port-wide cybersecurity.

One-Stop Shop Booths at Dundalk Marine Terminal



Expanded inbound vendor lanes and improved face-to-face service between security personnel and visitors. Streamlining this process has an estimated cost savings of over \$185,000 annually.

Expanded Network Coverage for Security



Installation of 78 external wi-fi access points at Dundalk Marine Terminal (DMT) enhances operational connectivity, supports digital workflows, and enables better monitoring of terminal activities.

Facility Security Plan Audit

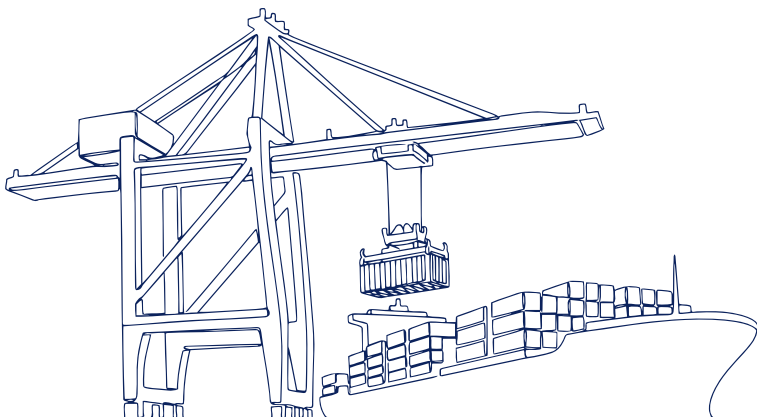


Ensures on-going compliance with security requirements. The audit corrected deficiencies, accounted for operational and personnel changes, and incorporated evolving cybersecurity threats.

Centralized Fire Safety Documentation



Streamlined procedures now centralize fire suppression documentation in a single system, improving efficiency, accessibility, and compliance.



MPA conducts ship tours for local fire departments and first responders to improve terminal familiarity and potential hazards.

RoRo Rodeo

MPA hosts an annual RoRo training event for longshoremen and port workers, focused on safe and efficient operation of heavy machinery used in RoRo cargo movements. Participants received hands-on instruction from equipment manufacturers. The RoRo Rodeo is unique to the Port of Baltimore and underscores MPA's commitment to workplace safety.



Community Building



MPA's local communities are a priority for investment and development. Through recreational, educational, and workforce programs, MPA engages diverse community members throughout Maryland. By partnering with local organizations, MPA strengthens outreach and volunteering efforts, and long-term relationships that support shared environmental and economic goals.

Metrics Roundup



182 terrapin hatchlings



The Masonville Cove Partnership welcomed over **5,700** visitors



2,754 tour guests at Poplar Island

Prioritizing Port Partnerships

MPA collaborates with community-based organizations to advance environmental and local engagement.



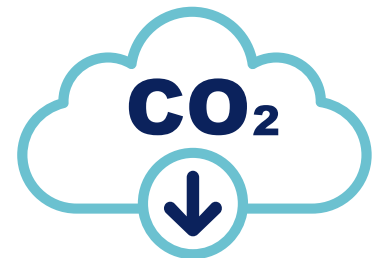
Reused Materials and Community Support

In partnership with Rukert Terminals and the Baltimore Port Alliance (BPA) Environmental Committee, MPA donated reclaimed lumber, dumpsters, and containers for reuse. MPA provided lumber to the Harlem Park Community Farm, supporting construction of a community garden that improves food access in West Baltimore.



Air Quality Awareness Tours

MPA partnered with BPA and PAC to host “Air Tours” at Dundalk and Seagirt Marine terminals. The events convened stakeholders, community organizations, nonprofits, and government staff to showcase the Port’s air quality initiatives and emissions reduction efforts.





Masonville Cove Partnership

MPA continues its collaborative environmental and community stewardship at Masonville Cove, the nation's first Urban Wildlife Refuge Partnership. In 2025, the Friends of Masonville Cove doubled their active volunteer base through expanded outreach.

Event Highlights

Urban Wildlife Conservation Day

Over 250 attendees participated in activities such as butterfly tagging, fishing, bird banding, nature crafts, and kayaking.

Latino Conservation Day

Now in its third year, this 2-day bilingual event, hosted by Baltimore's National Aquarium, expanded inclusive programming for local communities.

The Masonville Cove Partnership welcomed over **5,700 visitors** in 2025.





Poplar Island

In May 2025, MPA hosted a special tour for first-generation international college students from Georgetown University to learn about dredged material restoration and wildlife habitat.

Swan Creek Nature Trail

MPA, the Cox Creek Citizens Oversight Committee, and community stakeholders advanced the design for the Swan Creek Nature Trail adjacent to the DMCF. Construction is scheduled to begin in Fall 2026. The 2-mile loop will include outdoor classrooms, boardwalks, and a bridge. Approximately 90 cubic yards of dredged material has already been used to construct a spur road off the future trail to the shoreline.



Birding on the Bay



MPA hosts an annual Youth Birding Camp across restored habitats at Cox Creek, Swan Creek, and Poplar Island. Over 2 weeks in Summer 2025, students participated in birding activities, field trips, art classes, and science experiments that connect the community with local ecosystems.

MPA hosts the annual Audubon Baltimore City Christmas Bird Count, the longest-running community science initiative in the nation. Across several MPA sites, including Hawkins Point, Cox Creek, and Masonville and Hart-Miller Island DMCFs, participants joined together to document bird species and population counts, contributing valuable data to a collection that spans more than a century.





TERP Program

MPA's long-running Terrapin Education and Research Partnership (TERP) welcomed Harford County Public Schools as a new partner in 2025. Students examine terrapin behavior and growth in the classroom while learning about the species' natural history and habitat restoration.



Scan or click QR code to watch the video





MPA SOCIAL MEDIA

51,993 TOTAL FOLLOWERS

X 10,640 **f** 25,678

@ 4,320 **in** 9,448

 **1,476** posts

 **5,387,165** impressions

 **11,482** post shares

 **61,617** post reactions and likes

 **44,262** video views

 **44,262** views

 **7.39%** average post engagement rate

**STAY
CONNECTED!**



Environmental Stewardship



The Chesapeake Bay watershed, the gateway to the Port of Baltimore, is part of a watershed that supports more than 18 million people and 3,600 species of plants and animals and the economic vitality of the region. MPA continues to advance its long-standing commitment to environmental stewardship through actionable, science-driven initiatives that protect water quality, restore habitats, reuse dredged materials, and modernize the Port's environmental infrastructure. These efforts underscore MPA's role in protecting the Chesapeake Bay's natural resources and guiding responsible environmental management across port operations.



Metrics Roundup



Navigation, Innovation & Stewardship



123 acres
under active
remediation at
the Cox Creek
STAR Facility



5 operable
units with
approved
remedial
action plans



3 innovation
research projects
advancing
dredged material
reuse (berms,
aggregates, low
carbon cement)



10+ years
of research
informing the
IRBU scale up



165,000
cubic yards
of dredged
material
managed using
new DIG Method

Habitat & Biodiversity



500+ acres
treated for
invasive
species
removal



4 oyster
cages
deployed
through CBF
partnerships



23 concrete
pipes reused for
fish habitat at
Poplar Island



270+ bird species
documented
on site (227
observed in
2025)



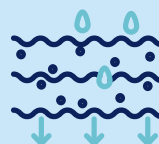
2,144 acres of
tidal wetlands
and island habitat
advancing toward
restoration at
Mid Bay

Waste Reduction & Clean Facilities



2 solar powered
compactors added
to the MPA fleet

Water Quality & Stormwater Systems



3 sand filters
restored at South
Locust Point



23 stormwater
treatment filters
replaced across
FMT and DMT

Community Access & Connectivity



30% design milestone reached
for the Masonville Cove
Connector shared use path

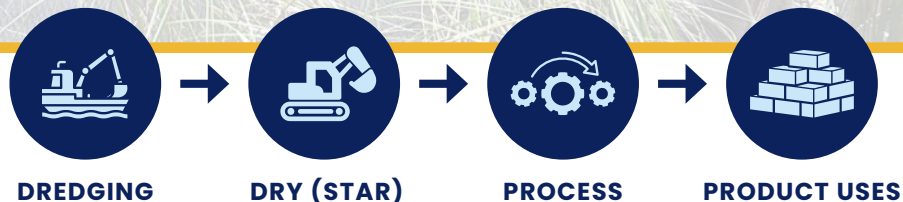
Navigation, Innovation, and Stewardship

The IRBU Program reuses dredged materials to work for communities and the Chesapeake Bay.



Colgate Creek Dredging Project – Phase 2 (DIG Method)

MPA completed dredging in Colgate Creek using a new advanced approach called Direct into Geotubes (DIG) method. Approximately 165,000 cubic yards were pumped directly into geotubes for dewatering and drying due to limited capacity at traditional Harbor DMCFs. Once dry, this material will be made available for Innovative Reuse.



From Pilots to Scale

IRBU is moving into large-scale implementation.

Updated strategy: A new 5-year IRBU strategy builds on more than 10 years of research and development.

What IRBU enables: Turning dredged material into useful products for construction and resilience while reducing capacity pressure and supporting navigation.

Remediation Underway

Cox Creek STAR Facility

Cox Creek STAR Facility includes **123 acres** of contaminated land. This project will transform the site into a regional hub for **sustainable material reuse**.

- **Five operable units;** Maryland Department of the Environment (MDE) approved all remedial action plans.
- **Upland OU remediation targeted for completion** in 2026.
- The Cox Creek STAR Facility will process and dry dredged material for innovative reuse and **beneficial use** projects.

Protecting Chesapeake Habitat and Biodiversity

Enhancing ecological resilience through habitat restoration and biodiversity protection.



500+ Acres Treated

Removing Invasives. Protecting Natives.

From Creek to Reef: Oyster Restoration



1

Four Oyster Cages Installed at DMT

2025 launch in Colgate Creek juvenile oysters placed through the Chesapeake Bay Foundation's (CBF) partnership.



2

Office of Environment, Safety and Security (OESS) Monitoring and Protection

Growth – Health – Predator Control



3

Relocation to Reef

Transfer to Fort Carroll once mature

4

Restoring the Bay

Cleaner Water – Stronger Reefs – Partners monitor healthy ecosystems for growth and health.

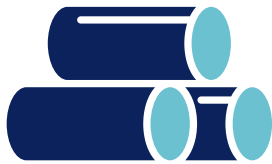
Partnerships: CBF • PAC at SMT • C. Steinweg • Vane Brothers



Poplar Island

Reuse and Repurposing Concrete Pipes

MPA collected pipes for reuse onsite via placement in wetland ponds to create diverse fish habitat.

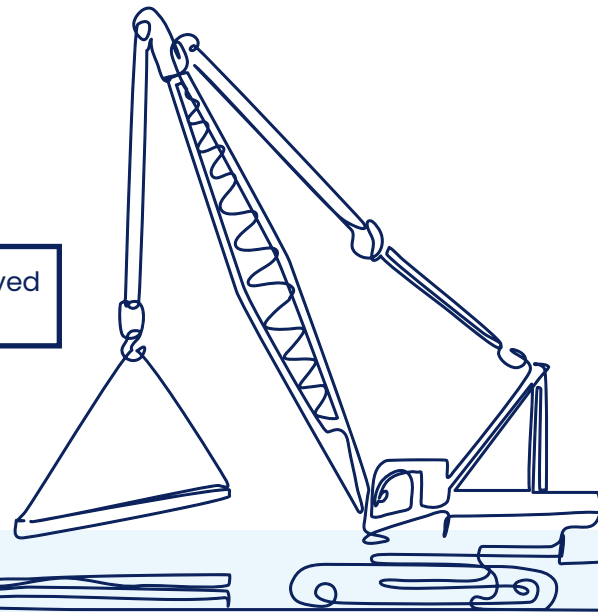


**23 pipes installed
in May 2025**



**270+ bird species
documented**

227 observed
in 2025



Mid-Bay Island Restoration

MPA and U.S. Army Corps of Engineers are **restoring 2,144 acres** adjacent to James and Barren Islands to aid coastal resilience, restore habitats, and improve wildlife diversity.

Significant progress continues on James Island, with permitting, design, and early construction preparation underway.

Maryland agencies issued all environmental permits in 2025, and James Island Phase I construction award expected in early 2026.

Phase II design for James Island is nearing **60% completion**, advancing plans for shoreline stabilization, habitat creation, and dredged material placement.

Resilient Communities and Clean Water Systems

Strengthening community resilience with cleaner facilities, improved water systems, and safer access to restored shoreline environments.



Waste Reduction and Clean Facilities



Two New Big Belly Compactors

Solar powered

150-gallon capacity

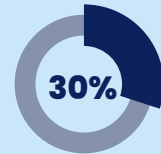
Waste-level monitoring

Reduces litter, prevents overflow, keeps waste out of stormwater systems

Located at Cruise Terminal and DMT Turnaround Loop

Community Access and Environmental Connectivity

Masonville Cove Connector reached 30% design.



Creates a shared-use path linking communities to Masonville Cove Environmental Education center to enhance access to shoreline ecosystems

Enhances community access to restored shoreline ecosystems and addresses safety and access gaps along Frankfurst Avenue

Water Quality and Stormwater Systems

Sand Filter Rehabilitation at South Locust Point



The stormwater team completed significant maintenance on stormwater and sand filters, **removing hundreds of pounds of trash, debris, and oil-laden sand to increase efficiency and reduce pollutants entering waterways.** This effort aids total maximum daily load reduction goals and supports stormwater compliance. **Throughout 2025, MPA replaced 23 underground stormwater filters replaced at DMT.**

Climate and Energy



MPA continues to drive initiatives that demonstrate commitment to Maryland's 2022 Climate Solutions Now Act, which calls for reducing greenhouse gas emissions by 60% by 2031 and to achieve net zero emissions by 2045.

In 2025, MPA's Climate and Energy initiatives further strengthened these commitments through focused efforts to improve energy efficiency, enhance resilience to environmental challenges, and reduce water waste across facilities. Through these partnerships, MPA is modernizing operations, reducing emissions, and positioning the Port to contribute meaningfully to Maryland's long-term climate and energy goals.



Metrics Roundup



46 facilities reported under Building Energy Performance Standards (BEPS)



11 buildings assessed through Facility Condition Index (FCI)



5 electric forklifts ordered



1 electric bucket truck deployed



0.75 miles of electrical feeder upgrades planned



0.3 miles of waterline replacement



100% of World Trade Center exterior lighting LED



50% energy reduction expected from elevator modernization



3 major climate resiliency projects in construction at DMT



1 blue carbon study underway



0.3 miles of new stormwater piping at Fairfield Marine Terminal

Charging Ahead: U.S. Environmental Protection Agency Clean Ports Grant Year One Achievements



MPA purchased
of 5 electric
forklifts and
chargers



Utility
upgrade design
completion for
advertisement



Steinweg
purchased
and installed
21 forklifts



PAC ordered
90 electric
vehicle yard
hustlers



2 forklifts
ordered

Through these partnerships, MPA is modernizing operations, reducing emissions, and positioning itself to contribute meaningfully to Maryland's long-term climate and energy goals.

***EPA Clean Port
Grant Award:
\$147 million***



Promoting Energy Efficiency and Electrification

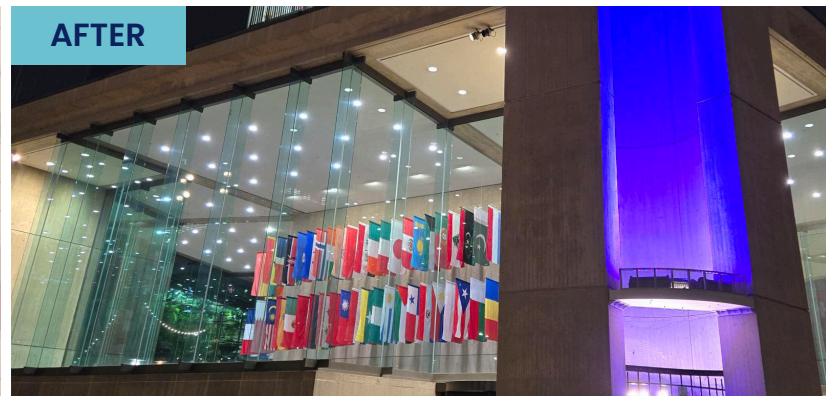


Modernizing essential systems, increasing efficiency, and transitioning to cleaner equipment across MPA facilities.

Optimizing Facility Energy Performance

BEPS tracks energy performance for state compliance, while FCI measures building conditions and lifecycle needs. These reports inform smarter maintenance and investment priorities, creating a single framework that links operational efficiency with long-term capital planning.

BEPS Compliance	FCI Reports
State-required energy performance reporting across MPA facilities. For the 2025 cycle, 46 facilities completed BEPS reporting were submitted to MDE.	Evaluates building conditions and lifecycle needs, supporting long-term maintenance planning. Completed 11 buildings at DMT Identified deficiencies, repair costs, replacement costs Supports long-term asset planning



Energy Improvements at MPA's Administrative Headquarters, the World Trade Center (WTC)



ASHRAE Level 3 Energy Study
Created roadmap to reduce energy and emissions through 2040.



LED Lighting Upgrades
100% of exterior lighting converted to LED.



Elevator Modernization
Upgrading legacy motor systems to improve efficiency and cut elevator energy consumption up to 50%.



Air Handler Unit (AHU) Rehabilitation
Initiated rehabilitation of AHU-2 in 2025 to reduce leakage, remediate corrosion, and replace outdated components.



IN PROGRESS 2026 COMPLETION ANTICIPATED



IN PROGRESS 2026 COMPLETION ANTICIPATED

Energy Efficiency & Electrification *(continued)*



Terminal Upgrades, Lower Emissions

Dundalk Marine Terminal

- One-Stop Shop: reduces idling emissions.
- 1st & 5th Street Signal Replaced with stop signs, reduces energy use and idling emissions
- NEW Dunmar Generator and Switchgear: provides reliable backup power
- Berth 13: strengthened substructure and improved vehicle safety



North Locust Point Marine Terminal

- Transformers replacement underway with energy-efficient and corrosion-resistant models
- New guard booth design complete: will reduce idling, improve energy efficiency, and meet modern energy codes
- Continuous repair and structural improvement to Pier 10 and fenders



South Locust Point Cruise Terminal

- Design completed to replace Terminals main AHUs in early 2026 with a heat pump to reduce fossil fuel use
- Boarding area and canopy upgrades with efficient lighting and controls



Fairfield Marine Terminal

- Pier 4 Project Complete: Pier 4 removed and repurposed as an artificial reef
- Stormwater piping upgrade (0.3 miles) in procurement



Climate Resilience and Water Systems



Coastal Resiliency and Climate Change Vulnerability Assessment

MPA completed a comprehensive Coastal Resiliency and Climate Change Vulnerability Assessment across all of its facilities, including all of the Dredged Material Management Program sites. The assessment logged and modeled each site to understand exposure to sea-level rise and storm-surge scenarios.

ASSESSMENT OUTCOME		NEXT STEPS
Full Climate Risk evaluation across Dredged Material Management Program portfolio	➔	Begin hydrodynamic modeling to assess wave action impacts
Identification of vulnerabilities to sea level rise and storm surge	➔	Develop site-specific adaptation strategies
Foundational data for climate-resilient planning	➔	Use findings to guide facility improvements and strengthen long-term resiliency



Water System Renewal and Water Conservation

MPA Engineering launched Water System Renewal Plan at South Locust Point Marine Terminal.



This work focuses on reducing water waste, identifying aging or leaking assets, and prioritizing replacements that improve reliability and efficiency.

South Locust Point Water System Renewal Plan (2025)

- Comprehensive survey of water system assets and leak locations
- Immediate communication of leaks to maintenance for repair
- Development of a prioritized replacement plan based on risk and efficiency goals

Water Rehabilitation – Phase I:



Replace approximately 0.3 miles of waterline piping as part of the DMT Water System Renewal Plan



Construction planned for 2027



Building Stronger, Climate-Ready Systems

In 2025 MPA Engineering enhanced existing systems to prevent floods and other climate-related risks at DMT.



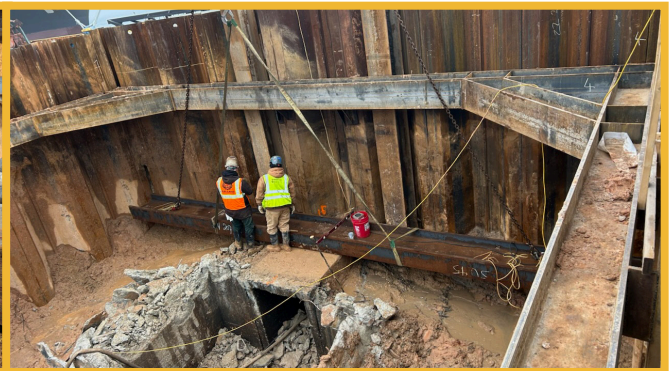
Sea Curb

Protects against storm surges and rising sea levels



First Street Box Culvert

Increases stormwater capacity and improves drainage



Tidal Gate

Blocks tidal inflow into stormwater systems



Poplar Island Carbon Sequestration Study

Researchers conducted advanced climate focus studies that provide a better understanding of the Bay. The research includes focuses on habitats built with fine-grained dredged material that sequester and store carbon dioxide in sediment rather than the atmosphere.

MPA is preparing a Blue Carbon Estimate Report to share long-term findings regarding natural marsh elevation gains to inform future beneficial-use and restoration projects and support sea level rise adaptation.

Awards and Achievements

Safety Leadership



MPA employees received multiple awards through the State Employee Risk

Management Administration recognizing strong safety leadership, rapid incident response, and proactive hazard prevention, as well as recognition from the Injured Workers Insurance Fund for outstanding safety practices, innovative solutions, and continuous effort to strengthen daily operational safety.



At the Maryland Department of Transportation Safety Fair, MPA employee Rich Rehberger was recognized with the Safety Leader Award for his dedication to safety culture. Tim Cosgrove and Hunter Noha received the Safety Hero Award for their commitment to implementing everyday safety practices.

Communication Excellence

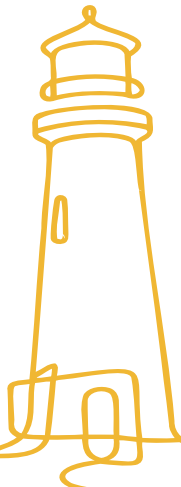


The MarCom Awards committee from the Association of Marketing and Communication professionals recognized

MPA with multiple awards in 2025. MPA earned Platinum awards for the Cruise Maryland Brochure the Maryland Port Commission presentation and Gold Awards for MPA's RoRo Rodeo training video and the Port of Baltimore Magazine. Additional Honorable Mentions recognized MPA's branding, advertising, and video initiatives.



Scan or click QR code to watch our videos



Industry Recognition

The American Association of Port Authorities honored MPA through its 2025 Lighthouse Awards, which celebrate programs that demonstrate excellence and innovation across the port industry. MPA earned an Excellence Award in the Community and Educational Outreach category for its TERP Program and an Achievement Award in the Public Relations Campaign category for the Port of Baltimore Key Bridge Recovery Campaign.



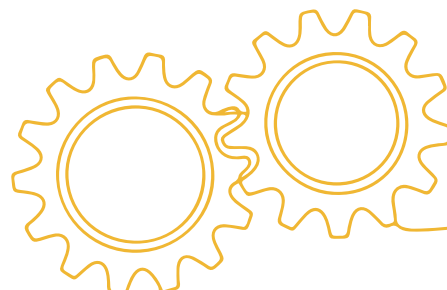
Executive Appointment

The Women's Traffic & Transportation Club (WTTTC), a Baltimore-based organization for advancing opportunities for regional transportation education, named MPA's own Katrina Jones President of the WTTTC. Katrina was recognized for her four decades of service, community partnership work, and long-standing leadership within MPA. Her appointment also represents a historical first for WTTTC as the first African American woman appointed president in its 92-year history.



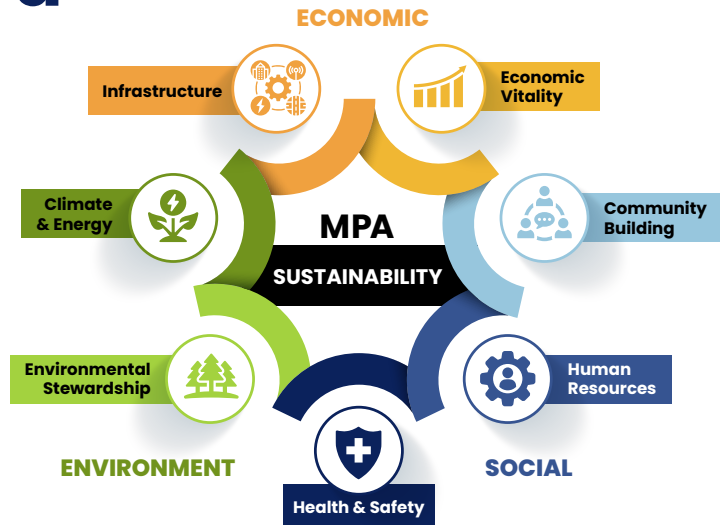
Technology and Operational Highlights

MPA's GIS Team launched a new MAXIMO-facilities integration app, and MPA Operations implemented PortControl (Tidalis) to enhance asset management, scheduling, and port-wide visibility.

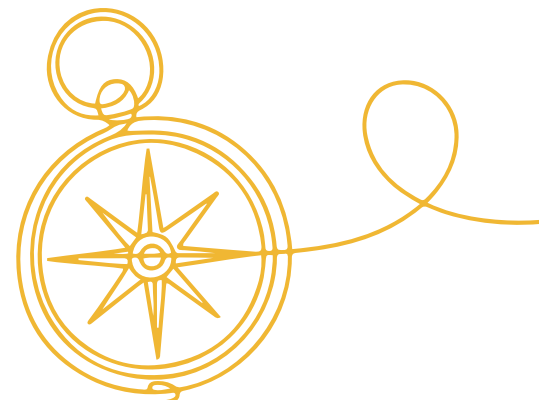


Looking Forward

The 2025 Sustainability Report showcases a year of sustained progress and momentum. MPA turned strategy into action across seven focus areas, strengthening operational excellence through sustainability initiatives. The EPA's Clean Ports grant, awarded at the end of 2024, powered MPA's 2025 achievements by advancing fleet electrification, energy upgrades, climate resilience, community programs, and habitat protection that directly support the Port's long-term of vitality. These efforts strengthen MPA's sustainable practices among employees, visitors, and community members.



Looking forward, MPA is committed to developing a sustainability plan in 2026 to build on recent progress by outlining actionable near-term initiatives and long-term goals that emphasize sustainable growth through environmental stewardship, social responsibility, and economic resilience.



Acronyms

AHU	Air Handler Unit
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
BEPS	Building Energy Performance Standards
BPA	Baltimore Port Alliance
CBF	Chesapeake Bay Foundation
CPR/AED	Cardiopulmonary Resuscitation / Automated External Defibrillator
DIG	Direct Into Geotubes (dredging method)
DMCF	Dredged Material Containment Facility
DMT	Dundalk Marine Terminal
FCI	Facility Condition Index
HAZWOPER	Hazardous Waste Operations and Emergency Response
HVAC	Heating, Ventilation, and Air Conditioning
IRBU	Innovative Reuse and Beneficial Use
LED	Light-Emitting Diode
mcy	Million Cubic Yard(s)
MDE	Maryland Department of the Environment
MPA	Maryland Port Administration
PAC	Ports America Chesapeake
SDS	Safety Data Sheet
SMT	Seagirt Marine Terminal
STAR	Sediment Technology and Reuse
TAR	Terminal Alteration and Renovation Program
TERP	Terrapin Education and Research Partnership
WildSTEM	Masonville Cove Science, Technology, Engineering, and Math-based Internship Program
WTTC	Women's Traffic & Transportation Club

To date over
22,600 terrapins
have hatched at
Poplar Island

Read more
on page 22



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