



PORTDETROIT
Detroit/Wayne County Port Authority

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Leading the Way to Net-Zero
Emissions by 2040

CHANGE IS ELEMENTAL



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Port of Detroit Decarbonization and Air Quality Improvement

The Detroit/Wayne County Port Authority recently completed its second round of carbon emissions reporting. This reassessment builds upon the original Baseline Emissions Report, available in the document titled “Final Report – To the Community.” Using calendar year 2024 data provided directly by port terminals, the reassessment evaluates whether total carbon dioxide emissions at the Port of Detroit have increased or decreased. The goals of the Decarbonization and Air Quality Improvement Plan remain twofold: to reduce greenhouse gas emissions from port activity to net zero by 2040, and to reduce other harmful emissions—such as fugitive dust, odors, noise, vibrations, and light pollution—that negatively affect public health and the environment. The Port Authority engaged Tunley Environmental to conduct the study, estimate carbon emissions, and recommend strategies for achieving full emissions elimination. More details on the Plan’s objectives can be found in the Executive Summary on our website.



Detroit/Wayne County Port Authority is thrilled to announce we are officially Green Marine Certified.

Green Marine is an incredible environmental certification in the maritime industry, pushing ports and ship owners to go beyond compliance and tackle real challenges like air and water quality, biodiversity, and community impact.

This milestone is more than a badge—it’s a bold step forward in our mission to drive sustainable maritime practices and reach net-zero emissions by 2040. As we continue our Decarbonization and Air Quality Improvement Plan, we also encourage all terminal operators within the Port of Detroit to explore the benefits of becoming Green Marine participants.

THE ELEMENTS

Emission Reduction Strategies

Decarbonization will have significant benefits for the businesses within the Port and the wider community, including reduced emissions, increased efficiency, improved air quality, and improved environmental sustainability. In addition, the project is expected to improve coordination and future planning within the Port, engagement with local residents and strategic economic development for maritime trade.

Biofuel

- Implementable today with no equipment change
- Available for purchase in Port of Detroit
- Immediate reduction of carbon and air pollutants

Electrification

- Implementable today in smaller applications
- Lower operation and repair costs for electric vehicles than diesel
- Zero tailpipe emissions

Hydrogen

- The Midwest is slated to have a hydrogen hub by 2033
- Renewable electricity used to make green hydrogen
- Zero tailpipe emissions

NET ZERO BY 2040

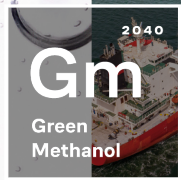
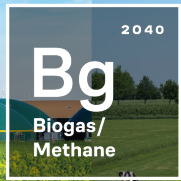
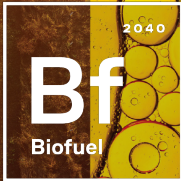
The Port Authority has expanded its mission to include a port-wide decarbonization program aimed at achieving net-zero by 2040. Through this ambitious initiative, the port has secured federal and state grants to support clean energy technologies and infrastructure upgrades, helping to ensure a sustainable future.

2024	2027	2030	2035	2040
BASELINE Carbon emissions inventory done for each terminal operations within the Port of Detroit, using 2022 data.	TRUCKING 50% of trucks on biodiesel	SHIPPING 50% large vessels on biodiesel 50% small vessels electrified GOODS HANDLING 100% on biodiesel 100% Electricity purchased is renewable TRUCKING 50% of trucks are on zero emissions (hydrogen or electric) Remainder are biodiesel powered	SHIPPING 80% large vessels on biodiesel 80% small vessels electrified GOODS HANDLING 100% zero emissions equipment TRUCKING 80% of trucks are on zero emissions (hydrogen or electric) Remainder are biodiesel powered	SHIPPING 100% large vessels on biodiesel 100% small vessels electrified Phase in hydrogen or other zero emission fuel TRUCKING 100% of trucks are on zero emissions (hydrogen or electric)

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Detroit is working toward a cleaner, healthier future—starting with the basics: land, water, and air. From key projects to guiding values, every element plays a role. Real change happens one step at a time. And in this plan, every step matters.

Join us in shaping the future—Learn more about our Decarbonization Plan, track our progress, and participate in the implementation of our plan in your community.
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Detroit/Wayne County Port Authority

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About the Port

The Detroit Wayne County Port Authority (DWCPA) is a government agency advancing southeast Michigan's maritime and related industries with the purpose of delivering prosperity and economic benefit to our citizens and businesses. For more than 35 years, the DWCPA has worked to bolster the community by being the connection between the maritime industry and the Great Lakes region, raising awareness of the importance of the Port of Detroit and how the cargo and vessel activity generates economic impact for the State of Michigan.

6,000

**JOBS
GENERATED**

\$36B

**ECONOMIC
ACTIVITY**

In addition to supporting the economic vitality of our region, the Port Authority takes seriously its responsibility to improve the health and wellness of residents and the environmental sustainability of the Port of Detroit. The Port Authority demonstrates this commitment by working with Port of Detroit terminal operators and other port entities to establish best practices to reduce harmful emissions from port activity. We encourage members of the community to participate in the implementation of our Decarbonization and Air Quality Improvement Plan, provide feedback on our progress toward sustainability and become active members of the community governing body.

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