

# Sustainable American Maritime - *setting the standard for the world*

The **650,000 men and women of American Maritime** are committed to ensuring a sustainable future by protecting the pristine waters on which U.S.-flag ships, lakers, tankers, barges, tugs, commercial fishers, and dredges sail. American waters are the home of the well trained American Maritime workforce and mariners. **Our industry understands its obligation to set the standard for the world.**

## Maritime transportation is *energy efficient and environmentally friendly*



**90%** world trade volume shipped by vessel

**2%** responsible for global transportation emissions<sup>3</sup>

**7%** amount of world's transportation energy consumed

### Did you know?

Maritime transportation accounts for **90% of cross-border world trade by volume**, but only uses **7% of all the energy consumed in the transport sector**.<sup>1</sup> Maritime is responsible for only **2% of global transportation emissions**.

### Energy Efficiency

A truck can move 155 miles per ton of cargo for every gallon of fuel consumed, a railcar can move 413, but inland marine vessels can move 576 miles!



**576**  
miles/ton  
by vessel



**413**  
miles/ton  
by Rail



**155**  
miles/ton  
by truck

### Emissions by transportation mode

Moving goods by barge has the smallest carbon footprint of all modes.

When moving the same amount of cargo:



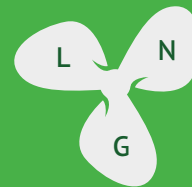
**1000%**  
more emissions  
by truck



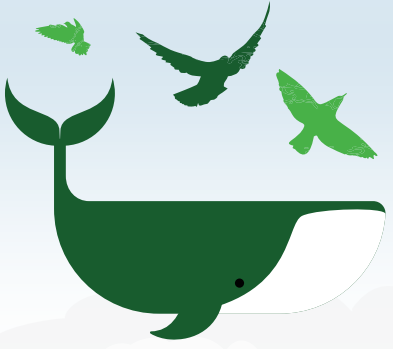
**30%**  
more emissions  
by rail

## LNG Power: A Bridge Solution Towards Sustainability

Among other emission reduction efforts, members of the American Maritime Partnership are transitioning to Liquefied Natural Gas (LNG) to power their vessels.



LNG reduces emissions significantly, including a 90% reduction in sulfur oxide (SOx) and particulate matter; a 80% reduction in nitrogen oxide; and a reduction of carbon dioxide (CO<sub>2</sub>) of more than 20% per container, compared with fossil fuels generally used in the international maritime industry.



### Wildlife Protection

American Maritime is safeguarding ocean wildlife habitats and supporting ecological restoration through cleaner technologies, new investments, and developing partnerships.



wetland and habitat creation



invasive species protection through ballast water treatment and best practices



coral restoration

### American Maritime is investing BILLIONS in new vessels and infrastructure to support offshore wind development



19

Wind turbine projects planned on East Coast

2100

Wind turbines expected by 2030

American Maritime is Investing in Renewable Offshore Wind Assets

### American Maritime's Emission Reduction Goals

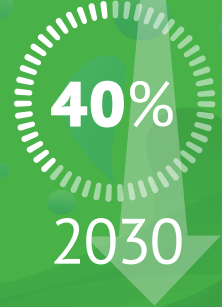
American Maritime is leading the way to meet targets set by the International Maritime Organization



Absolute Greenhouse gas emissions



Reducing the carbon intensity of maritime shipping



### More Can Be Done

- Regular investment in our ports and waterways
- Full and predictable funding for the Army Corps of Engineers
- Tax credits and grants for investing in new marine engine technologies and fuel sources
- State and federal investment in R&D for maritime green technology
- Expand existing emissions grants to include maritime vessels

Support American Maritime and preserve American rivers, lakes and oceans!



1 <https://transportgeography.org/contents/chapter4/transportation-and-energy/>  
 2 <https://www.epa.gov/sites/production/files/2021-03/documents/sw-marad-amh-presentation-2021-02-25.pdf>  
 3 <https://www.iea.org/reports/tracking-transport-2020/international-shipping#abstract>