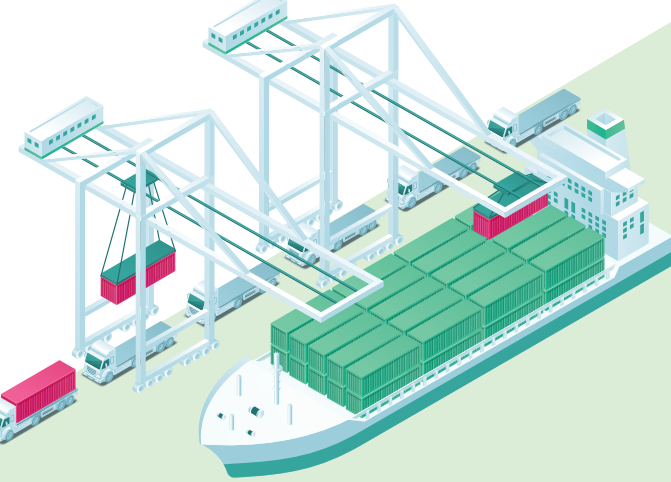


# GREEN WAVES

## THE U.S. FLAG MARITIME INDUSTRY AND SUSTAINABILITY



### THE U.S.-FLAG MARITIME INDUSTRY

believes that the world's waters and its **ecosystems** are vital to our future.

This **American industry** has the most competent, trained, and skilled personnel world-wide, committed to making the **U.S.-flag shipping** industry a global leader in reducing emissions, protecting wildlife, and preserving our oceans for future generations.

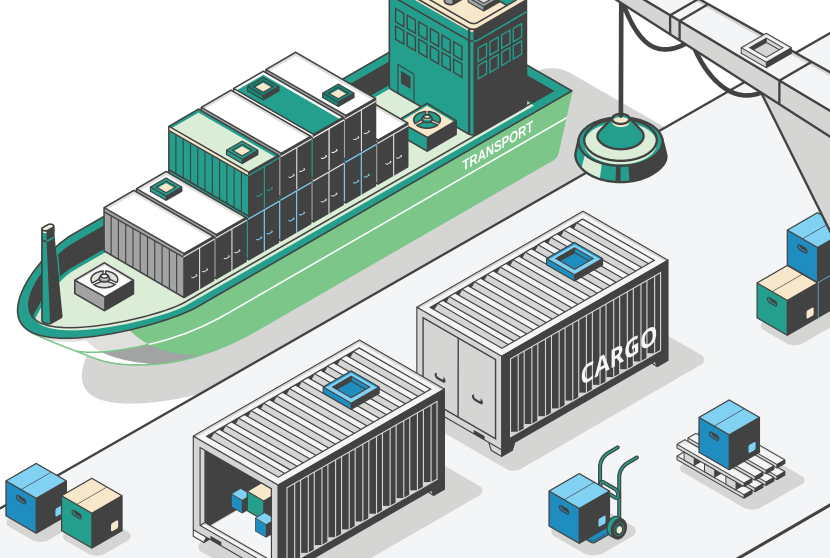


**Maritime shipping is already the most energy-efficient and environmentally-friendly mode of mass transport of cargo**

but we are striving to do more. We know we have an obligation to lead the world to a clean future. The U.S.-flag merchant marine is committed to a future of clean seas.

## DID YOU KNOW?

Shipping moves over  
**90%**  
of global trade yet is responsible for only  
**2-3%**  
of annual global  
**CO2 EMISSIONS**



Maritime transportation  
accounts for  
**90%**  
of cross-border world  
trade by volume.



but only uses  
**7%**  
of all the **energy consumed**  
in the transportation sector.

**Shipping's economies of scale** make it the most energy-efficient mode of moving goods.



**SHIPPING** is the most **energy-efficient** mode of transportation.



One large containership will emit about **0.4 OUNCES OF CARBON DIOXIDE** to transport 2 tons of cargo 1 mile.

THAT'S ABOUT HALF AS MUCH

**AS A TRAIN**



ONE-FIFTH AS MUCH AS A

**TRUCK**



ALMOST A FIFTIETH OF WHAT AN

**AIRPLANE**

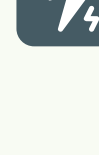


would emit to move the same amount the same distance.

## U.S. flag Maritime Industry Commitments in Action :

Reducing Emissions, Protecting the Environment, & Investing in Our Clean Future

### Reducing Emissions



First company world-wide to retrofit all ships for cold-ironing technology using portside electricity instead of burning ship fuel  
**(American President Lines)**



Using only the most advanced, clean facilities for dismantling and reusing old ship materials instead of antiquated disposal procedures (American Roll-On Roll-Off Carrier, Maersk Line Limited)



Making significant R&D investments in new fuel types: methanol/ethanol, bio-methane, and ammonia (Maersk Line Limited)



Setting internal goals to reduce CO2 emissions by 60% in 2030 compared to 2008 levels, having already reduced by more than 40% (Maersk Line Limited)



### Protecting the Environment



Launching **#PlantingForPlanet**, a pledge to plant 2,000 trees in the United States.



The project will improve water quality in Lake Champlain and its tributaries where over 250,000 people get their drinking water.

Trees will be planted to reduce flooding and water runoff, and to naturally help reduce algae blooms in Lake Champlain, benefitting residents, farmers, and the wildlife in this beautiful region.

**(American President Lines)**



Reducing use of plastics onboard all ships (American Roll-on Roll-off Carrier)

- ✓ Inviting researchers onboard to conduct analysis of microplastics in the ocean (American Roll-on Roll-off Carrier)
- ✓ Headquarters building is LEED certified silver building (Bold Ocean)
- ✓ Removed all disposable plates and silverware from vessels (Bold Ocean)
- ✓ Monitoring invasive species in ballast water (Bold Ocean, Maersk Line Limited)
- ✓ Hired environmental manager for best practices for mitigating impact on wildlife (Bold Ocean)
- ✓ Work with the global shipping community to collect ocean data (Maersk Line Limited)
- ✓ Review contractors to ensure environmentally friendly disposal of waste ashore (Maersk Line Limited)

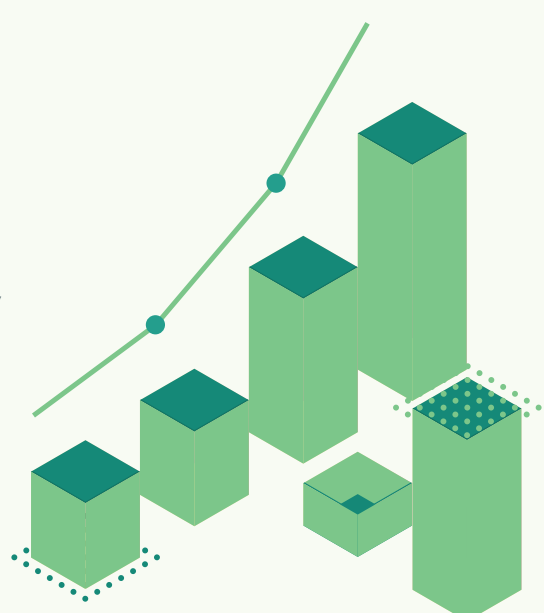
### Investing in Our Future



Secured a \$5 billion revolving credit facility linked to sustainability projects as the company seeks to become carbon neutral by 2050.  
**(Maersk Line Limited)**



Set goals to become carbon neutral by 2050 and to begin deploying commercially viable carbon-neutral vessels by 2030  
**(Maersk Line Limited)**



## WHAT'S NEXT

Along with their partners at the IMO, the American maritime industry is committed to:



✓ Reducing absolute GHG emissions by at least **50% by 2050**

✓ Reduce the carbon intensity of international shipping by at least **40% by 2030** and to pursue efforts to reduce emissions intensity **70% by 2050**

## WHAT WE NEED ?



Government investment in smaller ports to increase use of cold-ironing and portside electrical support



Government subsidies to cover the cost delta to move ships to expensive but desired biofuels.

**SHIP U.S. -FLAG**  
**USAMaritime** and preserve our oceans!

