

# PORTS & MARITIME TRANSPORTATION



**SMART SECTORS**  
A PROGRAM OF U.S. EPA



ECONOMICS



ENVIRONMENTAL  
IMPACT



EFFICIENCY

# PORTS & MARITIME TRANSPORTATION



## Ports and Maritime Transportation Descriptive Statistics



**SHIP AND BOAT BUILDING**



**154,600 Employees**



**1,420 Establishments**



**\$47.2 Billion in Output**



**U.S. PORT AND HARBOR OPERATIONS,  
MARINE CARGO HANDLING**



**55,558 Employees**



**793 Establishments**



**\$15.1 Billion in Gross Output**

*Economic Census: Manufacturing Summary Statistics, 2022*

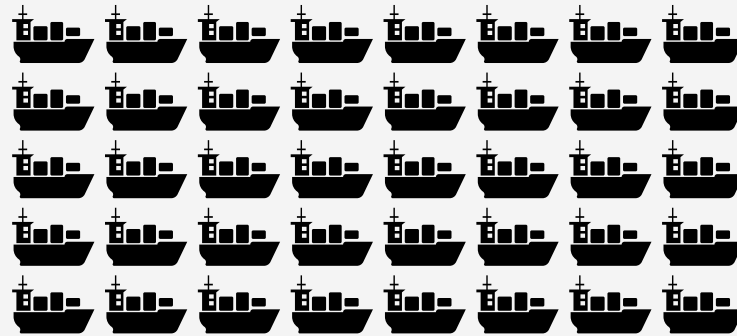
*Economic Census: Transportation and Warehousing Summary Statistics, 2022*

*U.S. Bureau of Labor Statistics, 2023*





**More than 40,000 U.S.-registered cargo ships  
operate in U.S. waters.**



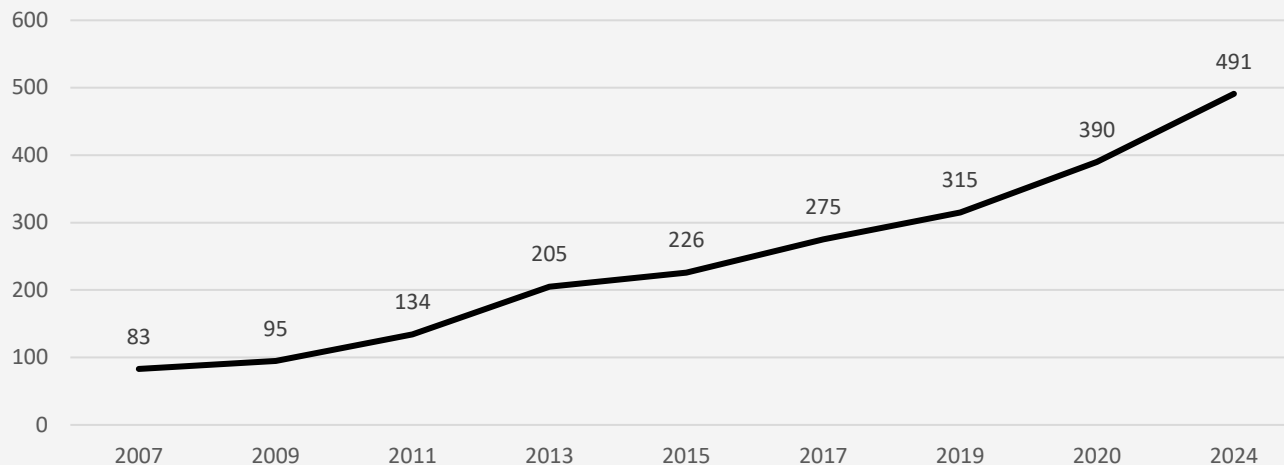
**Approximately 40,000 cargo ships operating in the U.S. qualify as Jones Act vessels. The Jones Act requires that ships, barges, and boats carrying goods between U.S. ports be built in the U.S., registered in the U.S., operated by at least 75% U.S. citizens, and owned by U.S. companies with at least 75% U.S.-citizen ownership.**

*U.S. Naval Institute, 2024*





## Voluntary Participation in The Green Marine Program

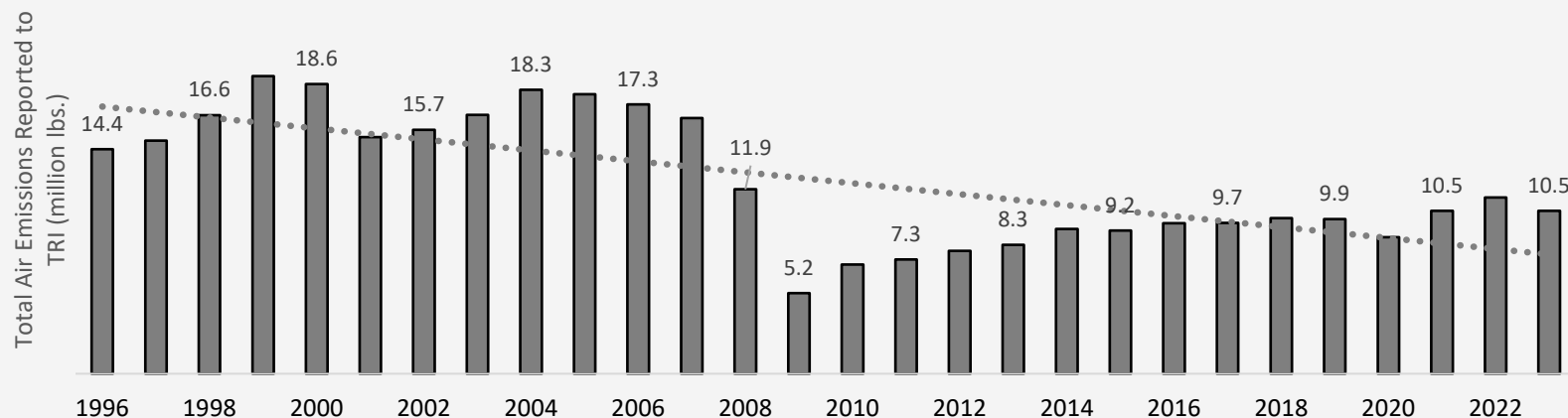


**The Green Marine Program is an environmental certification program for North American commercial ship owners, port authorities, shipyards, and others focused on reducing environmental impacts. Between 2007 and 2024, membership grew from 83 to 491 participants.**

*[Green Marine 2023 Performance Report](#)*

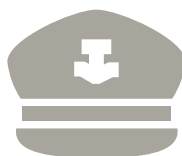


## Air Emissions Reported to TRI



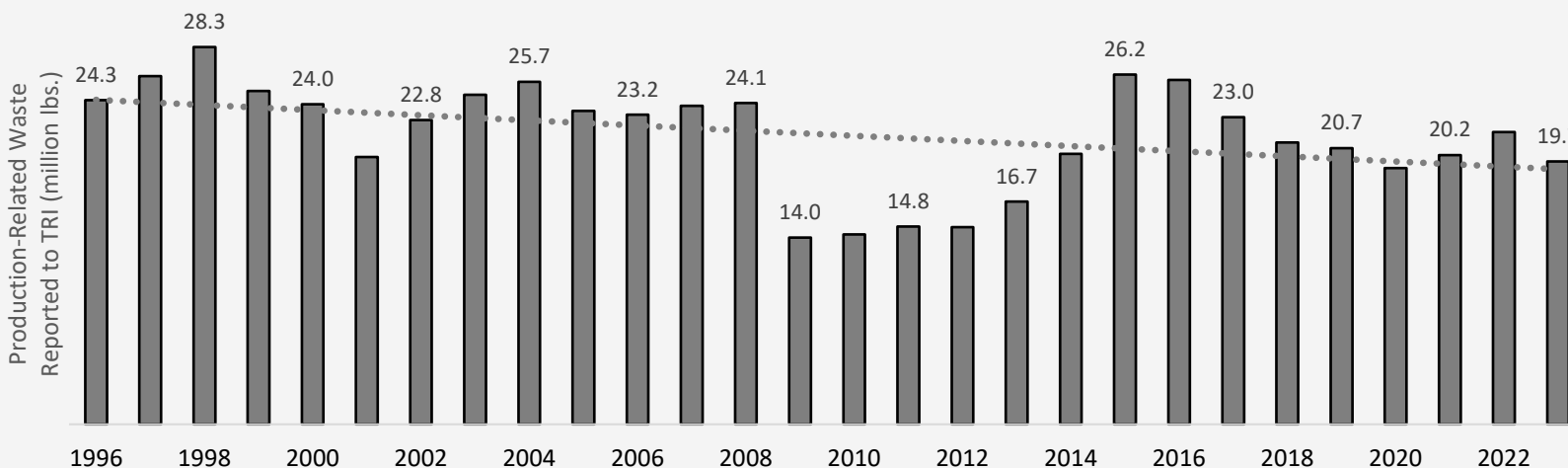
**Between 1996 and 2023, air emissions reported to TRI from the ship and boat building sector decreased from 14.4 to 10.5 million pounds.**

*EPA Toxics Release Inventory, 2024*



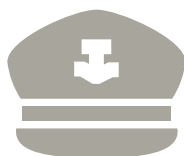


## Production-Related Waste Reported to TRI



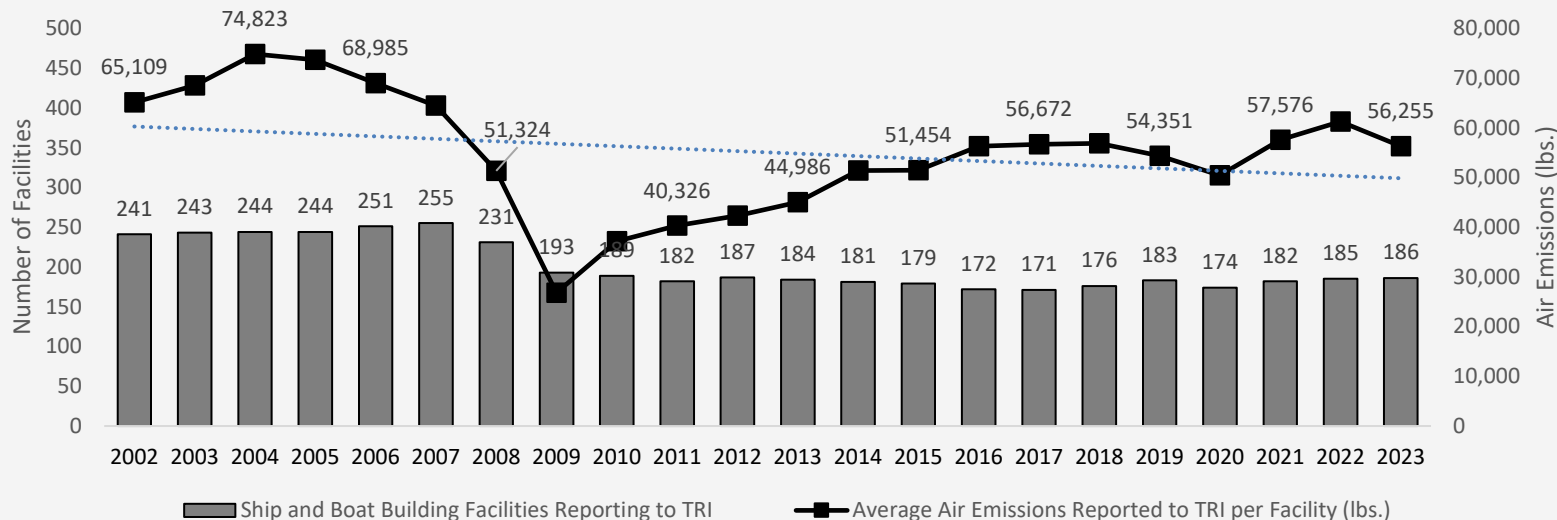
**Between 1996 and 2023, production-related waste reported to TRI from the ship and boat building sector decreased from 24.3 to 19.7 million pounds.**

*EPA Toxics Release Inventory, 2024*



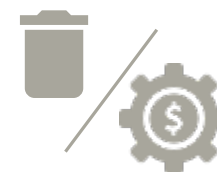
## Ship and Boat Building Sector Air Emissions Reported to TRI Benchmarked Against the Number of Reporting Facilities

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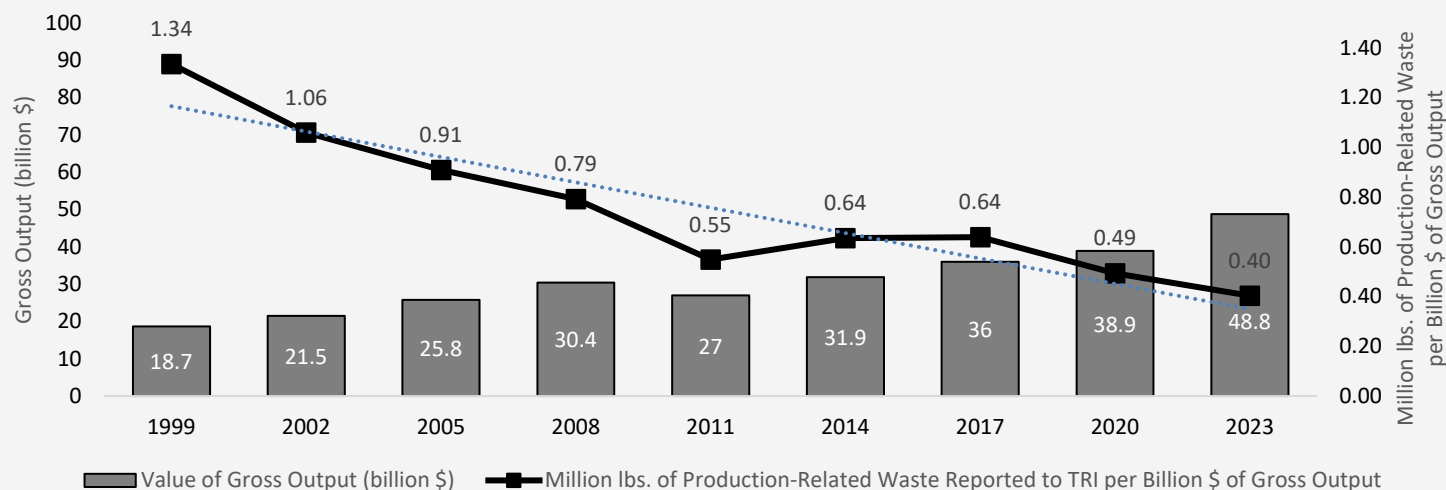


**Between 2002 and 2023, the average air emissions reported to TRI per facility decreased from 65,109 pounds to 56,255 pounds.**

*EPA Toxics Release Inventory, 2024*



## Ship and Boat Building Sector Production-Related Waste Reported to TRI per billion dollars of Gross Output



**Between 1999 and 2023, the ratio of waste reported to TRI to the value of gross output for the ship and boat building sector decreased from 1.34 to 0.40.**


*EPA Toxics Release Inventory, 2024; Bureau of Economic Analysis, 2024*









## References:


-  Ship and boat building employment and output data obtained from the [U.S. Bureau of Labor Statistics, 2023](#) and number of ship and boat building firms from the [U.S. Census Bureau, 2022](#) using NAICS code 33661. Employment, output, and number of firms for port and harbor operations and marine cargo handling obtained from the [U.S. Census Bureau, 2022](#) from the sum of results for NAICS codes 48831 and 48832.


 [U.S. Naval Institute, 2024](#)

 [Green Marine Performance Report, 2023](#): figures taken from pg. 5

 [EPA Toxics Release Inventory, 2024](#): Obtained air emissions data by clicking on “Flat (Denormalized) Form R” at the bottom of the page and then selecting “Reporting Year,” “Primary NAICS Code,” and “SUM” in the row immediately below “Air Total Release” as the variables from the table of elements. In the Enter Search Criteria menu, operators were switched to “Between” for “Reporting Year” and “Beginning with” for “Primary NAICS Code”, the “Reporting Year” Sort Column was set to “1”, the “Primary NAICS Code” Where Only box was ticked, and the Search Value for “Primary NAICS Code” was set to “33661.” Note: NAICS Codes “48831” and “48832” are excluded because TRI data was not consistently available after 2016.

 [EPA Toxics Release Inventory, 2024](#): Obtained production-related waste data by repeating the steps detailed above, except “SUM” in the row immediately below “Total Production Related Waste” was selected instead of “SUM” in the row immediately below “Air Total Release.” Note: NAICS Codes “48831” and “48832” are excluded because TRI data was not consistently available after 2016.

 [EPA Toxics Release Inventory, 2024](#): Obtained the number of reporting facilities by clicking on “Flat (Denormalized) Form R” at the bottom of the page and then selecting “Reporting Year,” “Primary NAICS Code,” and “COUNT” in the row immediately below “Tri Facility Id” as the variables from the table of elements. In the Enter Search Criteria menu, operators were switched to “Between” for Reporting Year and “Beginning with” for Primary NAICS Code, Reporting Year Sort Column was set to “1”, the NAICS Codes Where Only box was ticked, and the Search Value for Primary NAICS Code was set to “33661.”

 [EPA Toxics Release Inventory, 2024](#): [Bureau of Economic Analysis, 2024](#): Obtained gross output data by selecting “GDP by Industry (Underlying Detail)” in the Publication Category dropdown menu, selecting “U.Gross Output by Industry” in the Industry menu, setting Detail Level to “Detail”, and setting the date range to 1999-2023 in the Modify menu. Final output values are the sum of rows 174 (Ship building and repairing) and 175 (Boat building). ([Slide 8](#))

# PORTS & MARITIME TRANSPORTATION



The ports and maritime transportation sector includes ship and boat building ([NAICS 33661](#)), ports and harbor operations ([NAICS 48831](#)), and marine cargo handling ([NAICS 48832](#)).

The ship and boat building industry is comprised of establishments primarily engaged in operating ship and boat yards that manufacture, service, or repair ships and boats. The ports and harbor operations industry is comprised of establishments primarily engaged in the operation and maintenance of facilities at ports, docks, piers, and canals, while marine cargo handling businesses are involved in the transfer of cargo between ships and barges, trucks, trains, pipelines, or wharfs.

The Smart Sectors [Port and Marine Transportation Sector Information](#) page has more details on the industry and related EPA programs.