



EMISSIONS CAPTURE + CONTROL FOR A CLEAN-AIR FUTURE

STAX Engineering provides a cost-effective, proven solution for emissions control that helps meet regulatory compliance and sustainability goals without disrupting operations. Our patented technology captures 99% of particulate matter and 95% of nitrogen oxide, protecting air quality, community health, and the environment. We are currently integrating best-in-class carbon capture technology into our system to create what will be the most complete emissions capture and control process available to the market.

STAX FOR MARITIME

Reduce emissions with minimal disruption.

STAX offers barge-based, land-based, and mobile emissions capture and control solutions as a service to terminal operators and fleets. Our patented technology has been designed for all vessel configurations, even in the most congested ports, to minimize impact on operations.



Container



Auto Carriers / Roll-on
Roll-off (ro-ro)



Tanker

The STAX difference

STAX remains the only emissions reduction provider that services container vessels, auto carriers/ro-ros, and tankers. We are proud to partner with top international shippers and terminals, including:



STAX VS. SHORE POWER

While shore power is a valuable tool for reducing maritime emissions and meeting regulatory requirements, its high costs and extensive infrastructure needs limit its viability as a short-term, all-in solution for many shippers.

STAX's emissions capture and control technology offers a flexible alternative, serving a wider variety of vessel types and configurations without downtime or retrofiting. It is more efficient, capturing 12% more pollution from containerships and 4% more from ro-ro vessels (auto carriers) than shore power. Additionally, it captures boiler emissions—something shore power cannot do.

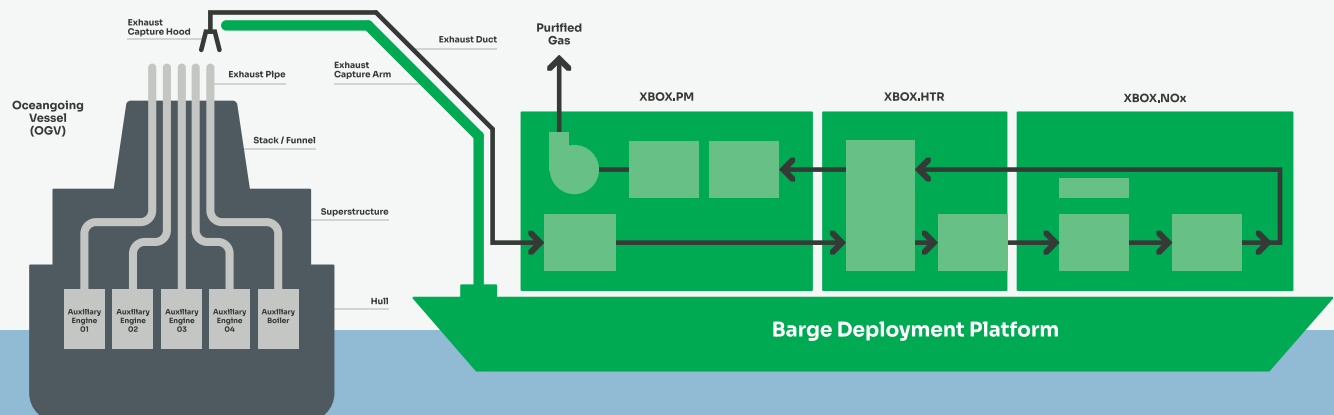
WHY PARTNER WITH STAX TO REDUCE VESSEL EMISSIONS?

- **Effective:** Our patented process has been third-party tested and proven to remove 99% particulate matter (PM) and 95% nitrogen oxides (NOx).
- **Operational efficiency:** STAX helps meet CARB compliance without retrofits or downtime. Our emissions reduction services come at a fixed hourly fee, eliminating capital expenditures (CAPEX) and ongoing utility costs.
- **Deployment versatility:** Barge-based or land-deployed, the STAX arm has the industry's longest and most flexible reach and can attach to any vessel configuration.
- **Operational efficiency:** If a local power grid is overwhelmed or a power access point is inaccessible, shore power may not be available. STAX operates independently and does not depend on local grids to service vessels, offering a more reliable solution.

CAPTURE + CONTROL SYSTEM

BARGE SPECS AT A GLANCE

- 40 feet by 160 feet deck barge
- Line capstans and spuds
- Crane reach of 252 feet, 279 feet with pedestal
- Can service all vessel types



How it works:

Step 1: The STAX XCAP™ exhaust capture system has a placement arm spanning over 250 feet and is equipped with two ducts that attach directly to a ship's exhaust pipes.

Step 2: The arm simultaneously captures exhaust from both pipes, channeling emissions into two independent STAXbox purification systems.

Step 3: STAXbox uses proprietary technology to remove harmful air pollutants such as nitrogen oxides (NOx), particulate matter (PM), diesel particulate matter (DPM), and reactive organic gases (ROG). Carbon (CO2) capture capabilities are anticipated to be available in 2025.

PORTS OF SERVICE AND CUSTOMERS



Our team of experts is ready to help you meet your goals

The innovative STAX team brings over 70 years of maritime operations and emissions control experience, working as a trusted partner to companies looking to comply with regulations and meet their sustainability goals.



Looking to reduce emissions for your vessel operations? Be part of the solution to a clean-air future, and start treating your emissions today. Contact us for consultation on how STAX can help you achieve your goals.

833 997 STAX (7829) | info@staxengineering.com | staxengineering.com