



GLO MARINE
engineering the way forward

10 Months to IMO BWTS Compliance

Complete your retrofit within 20 weeks

130+

RETROFITS

50+

VESSEL MANAGERS
SATISFIED

45+

INSTALLATIONS
PROJECTS

30+

CONVERSIONS

Some of the industry names that trust us

ANGLO-EASTERN

VARD™

VMS Group

B
BOURBON

FUGRO

TIDEWATER

Best results with one supplier managing the project end-to-end

Average execution time: 20-23 weeks

The retrofitting of a ballast water treatment system onto a vessel already in operation typically involves several distinct phases. Here are the main project phases for such an undertaking:

7-10 DAYS

1. FEASIBILITY STUDY

Objective

Identify the best BWTS and configuration to fit the vessel operational requirements and available space.

Activities:

- Assess the vessel's design and structural compatibility.
- Survey and 3D laser scan of engine room.
- Analyze regulatory requirements and compliance.

6 WEEKS

2. DESIGN & ENGINEERING

Objective

Develop basic and detailed engineering plans for the retrofit.

Activities:

- Update the P&IDs of the impacted piping and electrical systems, including foundations.
- Design the integration of the treatment system into the existing structure.
- Create complete 3D model of new system.

2-3 WEEKS

3. REGULATORY COMPLIANCE

Objective

Ensure compliance with international and local regulations.

Activities:

- Obtain necessary approvals from classification authorities.
- Ensure compliance with the International Maritime Organization's (IMO) Ballast Water Management Convention.

5-6 WEEKS

4. PROCUREMENT & LOGISTICS

Objective

Source and acquire the necessary equipment and components.

Activities:

- Source pipe prefabricates according to design documentation.
- Procure the required system components and electrical parts.
- Ensure delivery of all materials to vessel.

4-5 WEEKS

5. ONBOARD INSTALLATION

Objective

Successfully install the ballast water treatment system onboard.

Activities:

- Carry out structural modifications, if required.
- Install the BWTS, pipe and electrical components.
- Connect and integrate the system into the vessel's existing infrastructure.

3-5 DAYS

6. TESTING & COMMISSIONING

Objective

Ensure the proper functioning of the installed system.

Activities:

- Conduct system tests for functionality and performance.
- Verify compliance with regulatory standards.
- Commission the system for full operation.



**Partner with GLO Marine
for a hassle-free retrofit.**

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scan to call us

