



Retrofitting towards climate neutrality

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EXECUTIVE SUMMARY

This document is deliverable “D5.4 First report: Technical Operational & User Manual” of the European Union project “Retrofitting towards climate neutrality” (herein referred to as “**Green Marine**”), with **grant agreement No. 101096522**.

The deliverable mainly targets the **installation, configuration, and operation of the Green Marine Portal**, a software platform designed to support decision-makers in identifying and implementing retrofitting solutions to reduce greenhouse gas (GHG) emissions in the maritime sector.

This document serves as the first comprehensive guide for system administrators, developers, and other stakeholders responsible for managing the portal. It provides detailed instructions on system requirements, initial setup, core features, and advanced functionalities such as risk management tools, simulation modules, and data management capabilities.

The Green Marine Portal aims to accelerate the maritime industry’s transition toward climate neutrality by offering a centralized hub for accessing validated retrofitting protocols, conducting cost-benefit analyses, and engaging stakeholders through federated learning. By combining technical innovation with practical usability, the portal is an essential tool for advancing sustainability in waterborne transport operations globally.