

Retrofitting towards climate neutrality

D7.1 SharePoint

Programme: HORIZON EUROPE Grant agreement number: 101096522 Project acronym: Green Marine Project title: Retrofitting towards climate neutrality Prepared by: CMMI and BX

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1.0	[28/02/2023] Submission with Sharel			
link				



DETAILS					
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Project full title	Retrofitting towards climate neutrality				
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deliverable					
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1. INTRODUCTION

The main objective of Green Marine is to significantly accelerate climate neutrality of water borne transport through retrofitting existing fleets with cost and emission control solutions. To support decision makers retrofitting protocols and a software tool catalogue that gathers knowledge will be developed and validated. We will demonstrate these tools and the innovative solutions aimed at carbon capture mineralization, which also aids in deacidifying our seas; energy savings for HVAC systems through air-reuse; carbon and water capture with membranes, and the use of excess engine heat to produce a syngas to save on fuel consumption. An ultra-sound technology will be tailored to suit vessels allowing air-reuse saving energy for HVAC systems and operated as pre-treatment enhancing a membrane carbon capture process. The Ca/Mg - alkali solvent capture process is capable of removing 75% of the CO₂ from flue gases. All solutions will be demonstrated first on a land-based engine followed by the selection of the most suitable solution for a demonstration on a waterborne vessel. The (land-based) demonstrations will represent the operation of a majority of vessel engines. By developing retrofitting protocols, simulations of the solutions, data generated at the demonstrations a software catalogue tool will be developed. Through engagement activities this tool will gain more users and more knowledge, its value and effectiveness will increase for all users. The project aims to bring the different solutions to TRL 8. The demonstrations, the software tool catalogue, and the dissemination and exploitation activities ensure that project results will be replicated globally. The consortium consists of 10 partners from 7 countries with 4 research institute, 1 ship company, which will host a demo as end user and 5 SMEs.

2. SHAREPOINT

The management of the Green Marine activities, including deliverables, meetings, milestones will be managed under BX's SharePoint site. The link to the SharePoint site is <u>General</u> and includes the following headings for the appropriate management of Green Marine (see Figure 1). Note that access to link is available to the consortium.

The information included in this document will also be reflected in the Project Management Handbook, due in M3 by CMMI.



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			Milestones	December 7, 2022
			Project Administration and Management	December 7, 2022
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			Work Packages (Work Area)	December 13, 2022
			Gantt chart Green Marine.xlsx	July 29, 2022
			Mailing List_Green Marine.xlsx	Yesterday at 07:39
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Figure 1. Green Marine main page of SharePoint, under Microsoft Teams.

2.1 DELIVERABLES

This subfolder contains all deliverables to be submitted. The folder indicates important information such as "Month Due", partner "Responsible" and "WP" as indicated in Figure 2.

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			D1.2 Report on retrofitting	December 13, 2022	36	CalMac	1
			D1.3 Report on results of demo	December 13, 2022	48	UoS	1
			D2.1 Preliminary report land-based testing	December 13, 2022	17	CMMI	2
			D2.2 Work procedure & best practices for r	December 13, 2022	24	CMMI	2
			D2.3 Summary report of results of land-bas	December 13, 2022	36	CMMI	2
			D3.1 Summary report on Separaptor	December 13, 2022	8	WPS	3
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			D3.3 Summary report on TEE and catalyst r	December 13, 2022	36	SMP	3
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Figure 2. Green Marine management of Deliverables



2.2 MEETINGS

Meetings contain different internal and external meetings to the consortium. Specifically, these are "Consortium Meetings", "EC Meetings", "General Assembly Meetings", "PCC Meetings", "Technical Meetings" and "Work Packages Meetings" (see Figure 3). These folders are the placeholder of meetings notes, action items, any presentations and any other important information that needs to be logged.

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			PCC Meetings	December 13, 2022			
			Technical Meetings	December 13, 2022			
			Work Packages Meetings	December 13, 2022			
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Figure 3. Green Marine management of Meetings

2.3 MILESTONES

This subfolder contains all milestones linked to the Green Marine project. The folder indicates important information such as "Month Due", partner "Responsible" and "WP" as indicated in Figure 4.



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			M1.2 Selection of Engine Type	December 13, 2022 1	2 CMMI	1, 3, 4
			M1.3 Selection of Vessel	December 13, 2022 2	24 CMMI	1, 3
			M2.1 Start of Land-based Testing	December 13, 2022 6	5 CMMI	1, 2, 3
			M2.2 Completed Land-based Testing	December 13, 2022 2	24 CMMI	2, 5
			M2.3 Select Subcontractor to Verify Retrof	ït December 13, 2022 2	25 CMMI	2, 5
			M3.1 SepaRaptor UV ready	December 13, 2022 6	5 SMP	1, 2
			M3.2 Selection of Membranes	December 13, 2022 8	Sintef	1, 3
0			M3.3 TEE and Catalyst Selected	December 13, 2022 2	24 SMP	1, 3
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Figure 4. Green Marine management of Milestones.

2.4 PROJECT ADMINISTRATION AND MANAGEMENT

This subfolder contains the signed Grant Agreement, signed Consortium Agreement, the log and financial management, the progress reporting and project management handbook (see Figure 5).

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			Consortium Agreement	December 13, 2022	
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			Grant Agreement	December 13, 2022	
			Part A & Part B	December 13, 2022	
			Progress Reporting	🖄 ··· December 13, 2022	
			Project Handbook	December 13, 2022	
			Proposal	December 7, 2022	
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Figure 5. Green Marine project administration and management.



2.5 PROJECT INTEGRATION

This subfolder contains the relevant stakeholders and members of the external advisory board to be involved in the Green Marine related activities.

2.6 WORK PACKAGES (WORK AREA)

This subfolder contains the work area, management and planning of all work packages:

- WP1 Demonstrate retrofitting existing fleets
- WP2 Land based test and integration of solutions
- WP3 Solutions development and scale-up
- WP4 KPIs, Integration, TEA, SEA, LCA, Risk, Safety & Legal Evaluations
- WP5 Software tool catalogue for GHG-emission reduction solutions
- WP6 Exploitation and Dissemination
- WP7 Project Management

3. MONITORING DASHBOARD

To facilitate the effective use of the SharePoint site a spreadsheet ("Master File_Green Marine") has been created. This is a monitoring dashboard with links to Work Packages, Tasks, Deliverables, Milestones etc to the SharePoint site. The spreadsheet also includes the Green Marine GANTT Chart to monitor progress of activities. For reference see Figure 6.

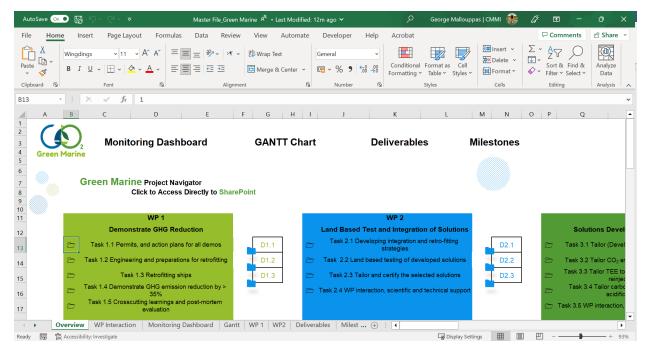


Figure 6. Green Marine monitoring dashboard



4. CONCLUSIONS

The SharePoint site has been set up and its functionality presented to the partners at the Green Marine Kick-Off Meeting on 15th - 16th February 2023, Larnaca Cyprus. The purpose of SharePoint is for the efficient management of the Green Marine activities, including deliverables, meetings, milestones.