

GREEN MARINE: RETROFITTING TOWARDS CLIMATE NEUTRALITY

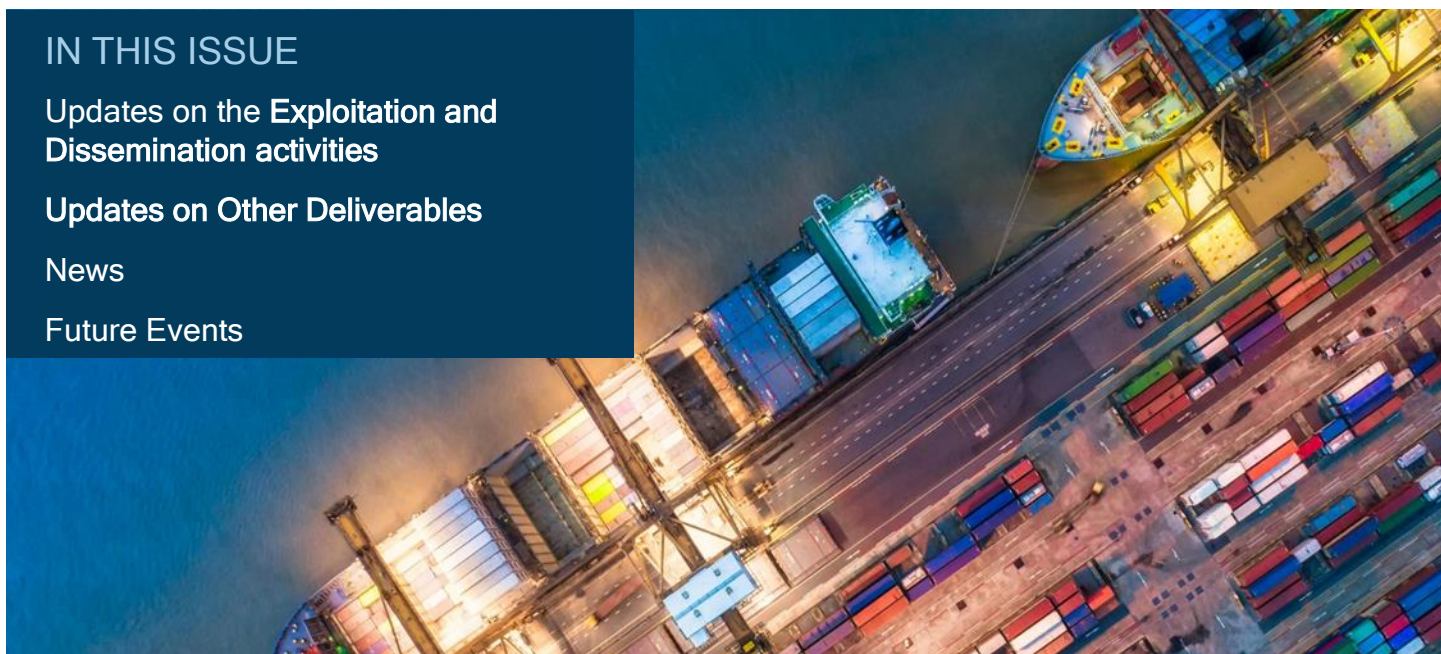
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UPDATES ON THE EXPLOITATION AND DISSEMINATION ACTIVITIES

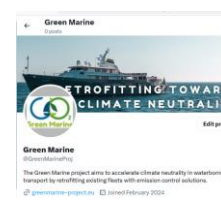
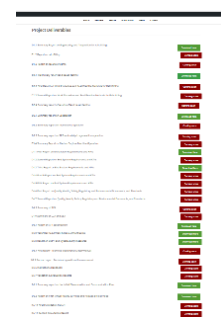
We are thrilled to bring you the latest developments from Work Package 6 (WP6) - Exploitation and Dissemination. As we continue to chart our course towards a greener and more sustainable maritime industry, our efforts in WP6 play a vital role in spreading the message and impact of the Green Marine project.

Here are some of the key accomplishments and activities we have undertaken in WP6:

Upcoming Deliverables: We are delighted to announce the successful initiation of the Deliverables 6.1b: The 2nd Dissemination and Communication Plan; 6.3a: Report on Knowledge Management and Exploitation Plan of project’s results including Business Plan; 6.5b: 2nd Exploitation Report. These comprehensive strategies outline how we will share project updates, findings, and innovations with a broad and engaged audience.

Project Deliverables on Website: We have uploaded the latest project deliverables to our website. This makes it easy for our stakeholders to access important documents and reports that showcase our project’s progress and achievements.

LinkedIn Engagement: We maintain an active presence on LinkedIn <https://www.linkedin.com/company/green-marine-project/>, and the statistics are impressive. Our LinkedIn network has seen remarkable growth, with a 15.3% increase in followers in the last 6 months, reaching the significant milestone of 500 followers in July 2024! We also had 583 reactions to our posts in the last six months. Our page has been viewed about 346 times in the past six months and has seen 176 unique visitors in the last month. We thank our followers for their



support and are thrilled to observe such engagement and interest in our project on this platform.

X/Twitter page: We have recently started a page on X <https://twitter.com/GreenMarineProj>, to reach academics and industry professionals. Follow our page to stay updated with the developments in our research endeavour!

YouTube Channel: Our commitment to communication extends to our YouTube channel <https://www.youtube.com/@GreenMarineproject>,

where we will share informative videos and updates related to our project. This channel will allow us to reach a wider audience and keep them informed about our progress.



UPDATES ON OTHER DELIVERABLES

As we continue to work towards our goal of creating a sustainable and eco-friendly maritime industry, we are pleased to share the progress we have made on some of our key deliverables.

Deliverable 2.1: Preliminary report on results of Land Based testing

Our team has prepared Deliverable 2.1, This deliverable contains details about the test location, engine specifications, sensors, data acquisition system, IoT platform development, test methodology, risk, hazard and quality standards, back pressure requirements, bypass actuation system and policies to be followed at the test centre and during the operation. The deliverable presents the bypass system with the aim to provide exhaust flue gases at 50 - 150 Nm³/h as well as incorporate safety measures for emergency cutoff of the Green Marine technologies.

Deliverable 5.3: Report on GDPR and Cybersecurity measures

The Green Marine project is dedicated to significantly accelerating climate neutrality in waterborne transport through innovative retrofitting solutions. This initiative involves the use of various datasets, predominantly operational data on specific equipment, with a subset containing personal user information. Ensuring robust data protection and cybersecurity is crucial to the project's success, compliance with the General Data Protection Regulation (GDPR), and the maintenance of stakeholder trust. This report provides a comprehensive overview of the GDPR compliance and cybersecurity measures implemented in the Green Marine project. These achievements underscore the dedication and expertise of our Green Marine team and our partners. We look forward to building on this momentum as we continue to work towards a more sustainable future for the maritime sector. Stay tuned for more updates on our progress, events, and exciting developments within the Green Marine project. We would like to extend our gratitude to all our supporters and partners for their continued collaboration and commitment to a cleaner and greener maritime industry.

NEWS

University of Strathclyde's Postgraduate Newsletter features Green Marine project (May 2024):

The Green Marine project's ambitions and developments were published in the May issue of the PGR newsletter of the University of Strathclyde.

4th Consortium and General Assembly meeting (24th September 2024):

The third consortium meeting marked the completion of 20 months since the kick-off of the Green Marine project. The meeting was held online and was attended by all partners who provided year-round updates on their contributions to the project. Workshops and insightful discussions fueled both days.

First Periodic Review meeting (10th October 2024):

The first Periodic Review meeting was held online on 10th October 2024, covering the [Green Marine](#) project's development and updates for the past 18 months! A thorough and informative Q&A session took place, including the project Work Package leaders and the project officer from the European Climate, Infrastructure and Environment Executive Agency (CINEA), confirming the high calibre project work performed over the first reporting period.

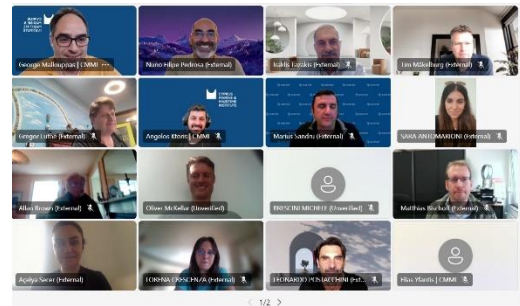
Attended Events:

Transport Research Arena Conference, Dublin (15th and 18th April 2024):

The Transport Research Arena Conference was aimed at promoting sustainable transportation across various modes of transport - waterborne, airborne, roadways, etc. It was a great experience interacting with other academics and professionals working across various transportation sectors ranging from railways to aviation!

63rd International Congress of Naval Architecture, Marine Technology and Maritime Industry, Madrid (25th April 2024):

The keynote speech was delivered on the subject, 'Towards maritime decarbonization: onboard carbon capture



efforts and lessons learned so far.' The conference included 2 ½ days of interesting paper presentations and follow-up discussions.

XXVII Biennial Symposium on Measuring Techniques in Turbomachinery, Larnaka (29th- 20th April 2024):

The two-day Symposium was an opportunity for researchers from universities, research institutes and industry to get together to discuss problems and share experiences involved in making measurements in turbomachines.

Co-creation workshop for the Gender Equality Plan (Bio4Dreams Innovation Hub), Venice (17th May 2024):

It was a fantastic opportunity to present the [Green Marine Project](#) and share insights on environmental sustainability. We'd like to extend thanks to all the partners, stakeholders, and experts who shared their insights and experiences. Their contributions are paving the way for greater gender equality in the Blue Economy sector. We're looking forward to continuing this important journey towards equality and innovation together!



Posidonia 2024 International Maritime Conference (3rd-7th June 2024):

We conducted a workshop discussing the [Green Marine project's](#) ambitions and progress as part of the RETRO-FIT55 project's series of workshops. Additionally, it was a great opportunity to network with fellow professionals and academics from the maritime industry with the common goal of achieving net zero emissions by 2050.



GEPsBECE - Gender Equality Plans in the Blue Economy for the Cutting-Edge Technologies workshop, Venice (11th June 2024):

The project's Gender Equality Plan (GEP) was discussed within the scope of the workshop. It was a great opportunity to discuss the way forward to bridge gender-based gaps in the maritime sector.



International Conference on Engineering, Technology and Innovation (30th ICE IEEE/ITMC Conference), Funchal (24th-28th June 2024)

Presentation on the recent trends of digital twins in the maritime industry. The title of the abstract is 'Navigating Future Horizons: The Emergence and Evolution of Vessel Digital Twins.'

CyberSecPro Professional Training Summer School, Oporto (1st-13th July 2024):

The CyberSecPro and IPICS Summer School was aimed at providing a comprehensive overview of the security challenges in the maritime sector and the necessary knowledge and skills to address these challenges. The curricula in cybersecurity professional competencies included training, examples and exercises addressing specific topics such as Port Management Systems security, port surveillance systems attacks, and attackers' profiles in the maritime supply chains.

3rd Conference on Green Energy and Environmental Technology (GEET 24), Lisbon (29th-31st July 2024):

We submitted a conference paper titled: Advancements and Challenges of Shipboard Carbon Capture Technologies: A Comparative Assessment. The paper addresses the core ideas behind the [Green Marine](#) project.

EUROMEMBRANE 2024 conference, Prague (8th-12th September 2024):

We participated in the conference presenting on the topic, 'CO₂ selective membranes for decarbonising maritime industry,' highlighting the technologies involved in bringing together the [Green Marine](#) project!

XXIX AIDI Summer School "Francesco Turco", Otranto (11th, 13th September 2024):

The review paper published was titled, 'Environmental and techno-economic evaluation of carbon capture and storage solutions for the maritime transportation: a review.' The capabilities of the [Green Marine](#) project were also discussed during the presentation.

Peer-to-Peer Green Energy Sharing Platform for Cold Ironing' Stakeholders Workshop, Nicosia (12th September 2024):

The workshop was organised by Frederick University with stakeholder participants from industry, academia, policy makers, Cyprus Port Authority, Cyprus Regulatory Authority to name a few. The aspirations of the Green Marine project were also discussed during the workshop.

Thalassa 2024: Marine Sciences Conference, Larnaka (19th October 2024):



The coordinator had the chance to showcase the 360deg videos with Virtual Reality headsets showing MV Coruisk’s engine room. Such videos are helpful in the design and retrofit of green solutions to existing vessels and the reasoning for the same was explained to interested participants from the public and industry.



FUTURE EVENTS

We are thrilled to announce the preliminary completion of risk assessment studies (HAZID, FMEA analyses, etc.) for two of the core Green Marine technologies. Additionally, we have initiated contact with the appropriate UK Maritime and Coastguard Agency and Lloyd’s Register (Classification Society).

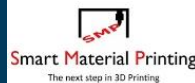
We have planned our attendance at the BioCNG-to-CI workshop in Larnaka, Cyprus; Waterborne Days 2025 workshop, along with publications planned to be presented at the International Congress of the International Maritime Association of the Mediterranean (IMAM) 2025 conference among others.

Who We Are

Given its knowledge, experience and innovative techniques, methods and tools, the Green Marine consortium will develop and implement real world solutions for retrofitting vessels in an effort to mitigate climate change.

Coordinator:

Partners:



Follow us on:



<https://greenmarine-project.eu/>



<https://www.linkedin.com/company/green-marine-project/>



<https://www.youtube.com/@GreenMarineproject/featured>



<https://twitter.com/GreenMarineProject>

Project details also available on CORDIS: <https://cordis.europa.eu/project/id/101096522>



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European Union

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