



Co-funded by
the European Union

bluebarge

Innovative Power-Barge solution



Key Facts and Figures

bluebarge



Co-funded by
the European Union

14

Partners

8,5

Million Euros

36

Months Term

10

Countries

IA

Type of Action

What is BlueBARGE?

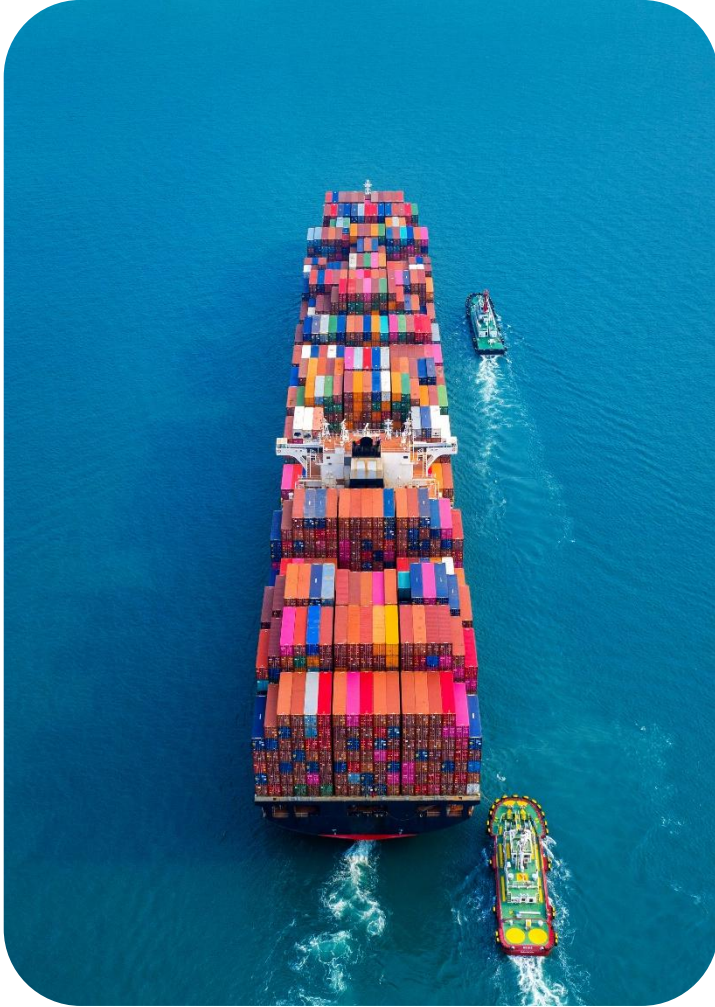
The BlueBARGE Consortium aims to develop an optimal power barge solution for supplying electrical power offshore.

Aligned with **EU** and **IMO** emission reduction goals, it targets commercialization by **2030**. Project partners will collaborate on containerized green energy supply modules, addressing integration challenges and regulatory compliance.

The initiative explores technical alternatives to support the maritime industry's transition toward **electrification** and **decarbonization**.

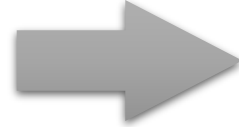
Different alternatives will be considered as **containerized power supply modules** in a variety of configurations.

Battery modules will serve as basis due to their high energy **efficiency** and readiness level, and other considered modules including **hydrogen fuel cells**.



Mission and Key Objectives

BlueBARGE's mission is to develop a versatile **power-barge solution** to provide **offshore electricity to moored and anchored vessels**, support ports without **OPS systems**, and aid the National grid during **outages**



It aims to support the maritime industry's shift towards **electrification and decarbonization**

It will employ a modular, scalable, adaptable, and flexible design approach to facilitate **commercialization by 2030**

It will feature containerized power supply modules, primarily based on **high-efficiency battery modules**, and may include **hydrogen fuel cells**.

Activities and Goals



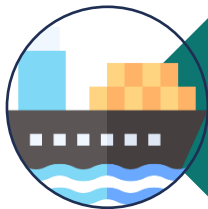
WP1 – Project Coordination and Technical Steering

Overall coordination of the project, aligned with the project's objectives and milestones



WP2 – Technical, Safety, and Operational Requirements

Defining the use cases, power demand specifications, and technical, safety, and operational requirements for the project



WP3 – Development of Power Barge Modules

Building the vital parts of the power barge according to the specifications and use cases



WP 4 – Holistic Assessment

Assessment of the design choices, to satisfy the requirements and performance standards of the project

Activities and Goals



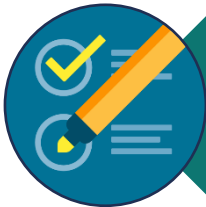
WP5 – Design Process

The complete power barge alternative design and evaluation process, deciding on the best option for the project's goal



WP6 – Development of Power Barge Prototype

Building the various pieces and integrating them into a functional prototype



WP7 – Demonstration and Verification

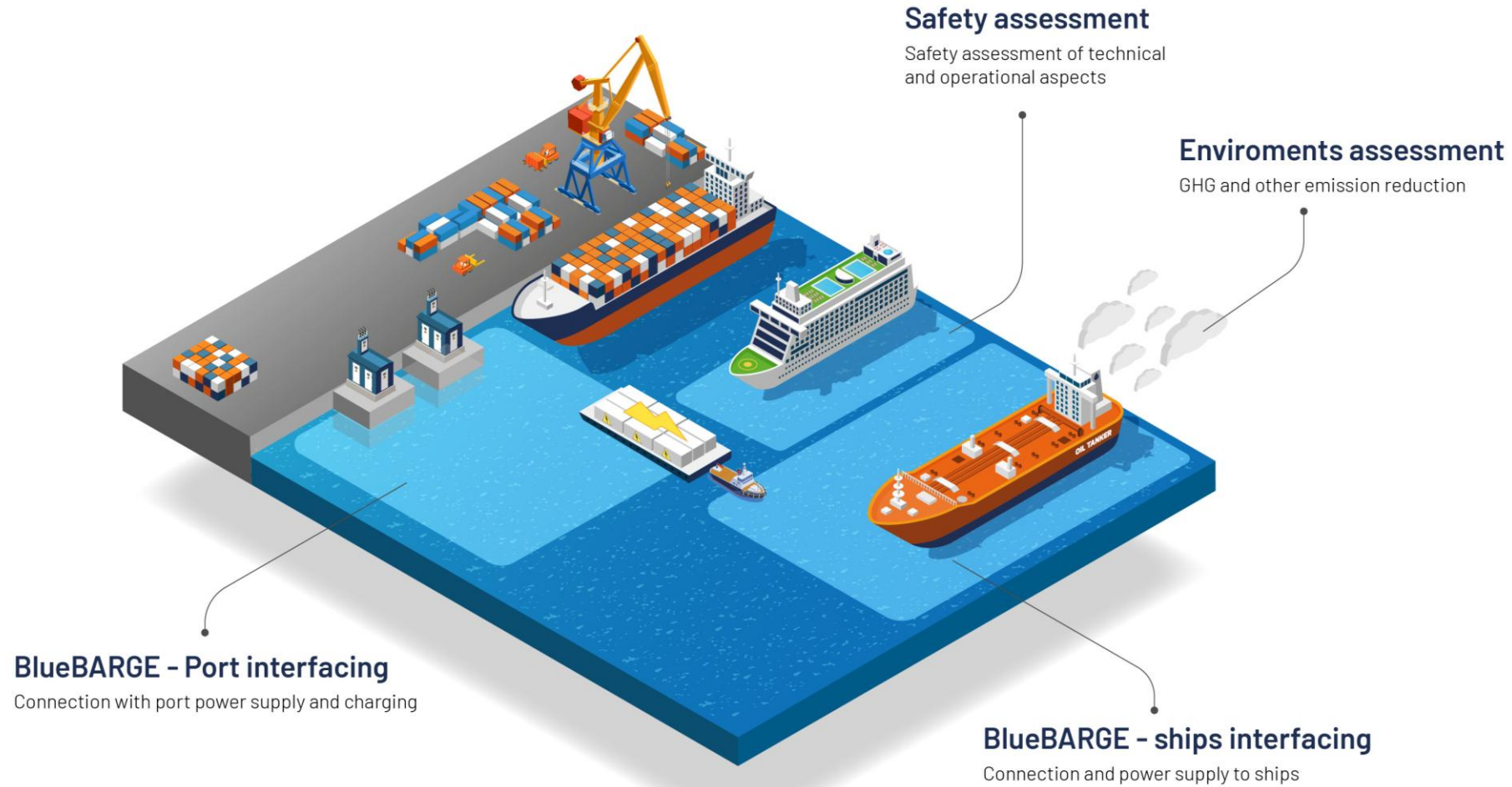
To make sure the prototype satisfies the project's goals, it is evaluated using predetermined standards and KPIs



WP8 – Engagement, Outreach, and Commercialisation

The aims are to publicize the project, interact with possible customers and partners, and become ready to launch the product.

How BlueBARGE works



Use cases

UC1: Anchored Vessels

The process of delivering electricity to vessels moored offshore, ensuring a continuous and monitored power supply from the barge to the ship

UC2: Moored Vessels

Utilizing a power-barge to provide electricity to moored ships, especially in ports lacking SSE infrastructure or to supplement existing SSE systems

UC3: Isolated inhabited areas

Supporting isolated seaside regions or islands with underdeveloped local power grids

UC4: Environmentally critical areas

Provide clean electricity in environmentally critical areas, enhancing sustainability and environmental preservation

UC5: Charging of small transportation vessels

Providing a reliable source of electricity to vessels, ensuring decarbonization of IWT and SSE

Use cases

UC6: Powering leisure boats along the coast

Clean electricity for leisure boats in popular nautical tourism hubs, particularly in the Mediterranean Sea

UC7: Powering offshore platforms – oil rigs

Electrification solutions for offshore oil and gas platforms, reducing reliance on diesel engines

UC8: Charging from offshore power plants

Capitalising on offshore power plants, such as offshore wind farms, for direct charging, especially in cases of excess power generation, which is otherwise lost, leading also to electricity cost reduction

UC9: Providing power to land after natural disaster events

Enhance emergency response and recovery by ensuring a reliable power supply in the aftermath of natural disasters

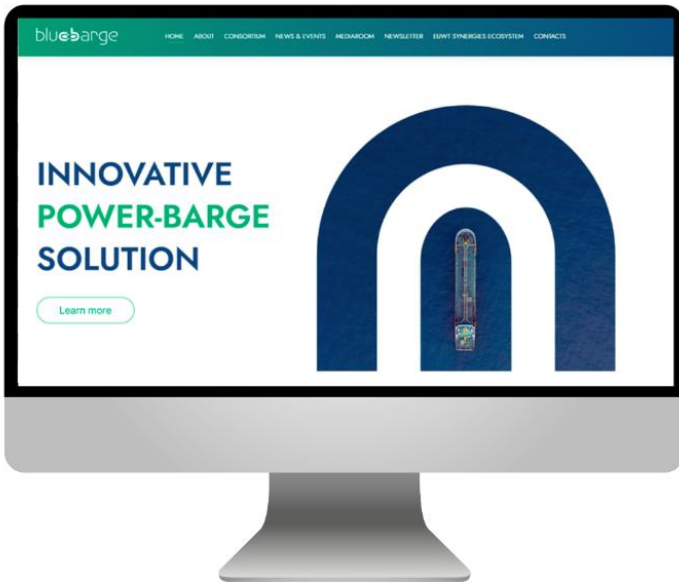
UC10: Charging BlueBARGE from anchored vessels

Power storage solution, charging with excess power from ship generators working in an optimal level, limiting loss of excess energy

Partners



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