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bluebarge

The innovative power barge solution

January 2024 – December 2026

14 Partners involved

bluebarge

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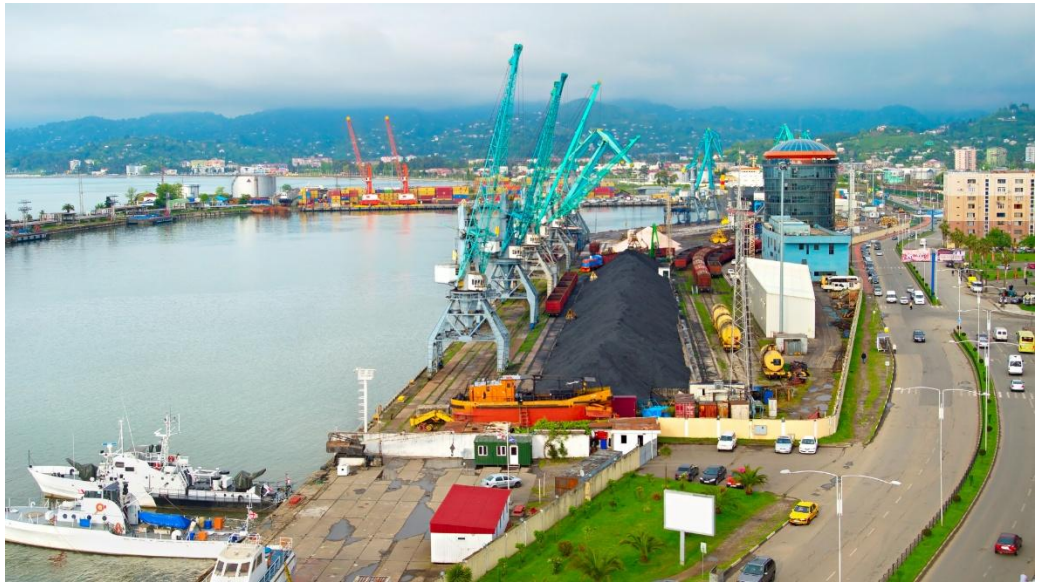
BlueBARGE in a nutshell: invest smarter, electrify faster

BlueBARGE is an adaptable **electrification solution** for small and large ports seeking **rapid emissions reduction.** Anchored and moored vessels can stay powered with their **auxiliary engines turned off.**



For Small Ports

It provides a versatile solution for powering vessels without the need for fixed or extensive infrastructure.

For Large Ports and Terminals

It is a transitional step towards comprehensive sustainability strategies.

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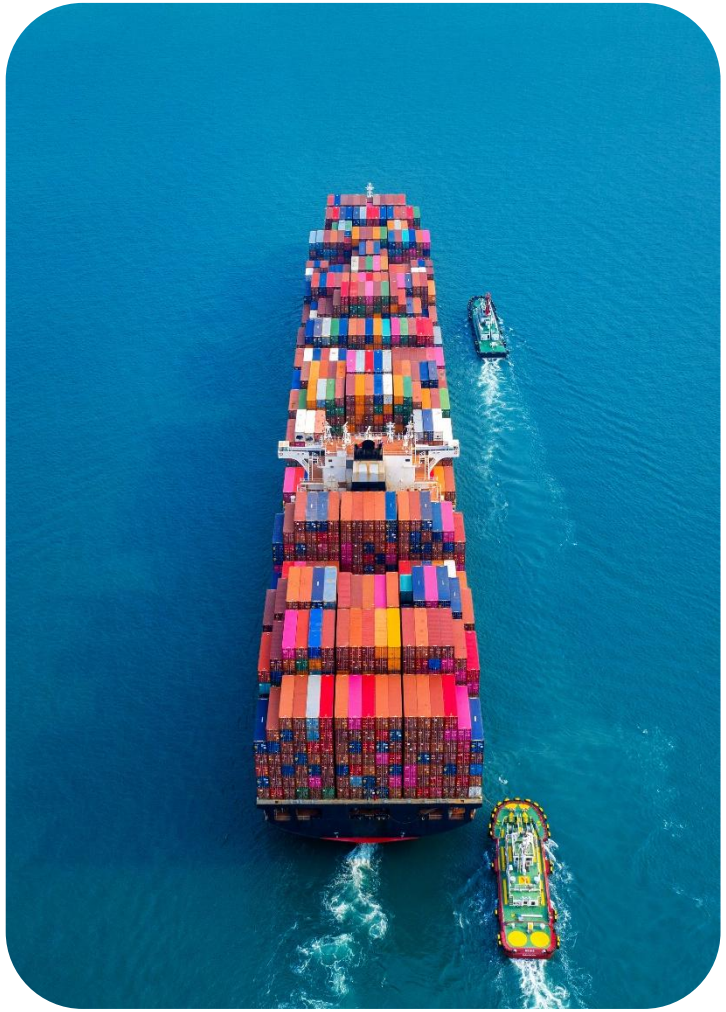

What is BlueBARGE?

BlueBARGE is a European project developing a **modular floating power barge** that supplies **electricity** to vessels without requiring extensive **Shore-Side Electricity infrastructure** (SSE).

This solution is particularly valuable in scenarios where **traditional shore power infrastructure** is limited, unavailable, or **too expensive to install**.

By **providing electricity to ships** at berth or at anchorage, BlueBARGE helps reduce emissions, **supports port decarbonisation**, and contributes to compliance with environmental regulations.

The power barge is based on **containerized power modules**, enabling a **modular**, **scalable**, and **easily adaptable** design **for different operational and energy needs.**

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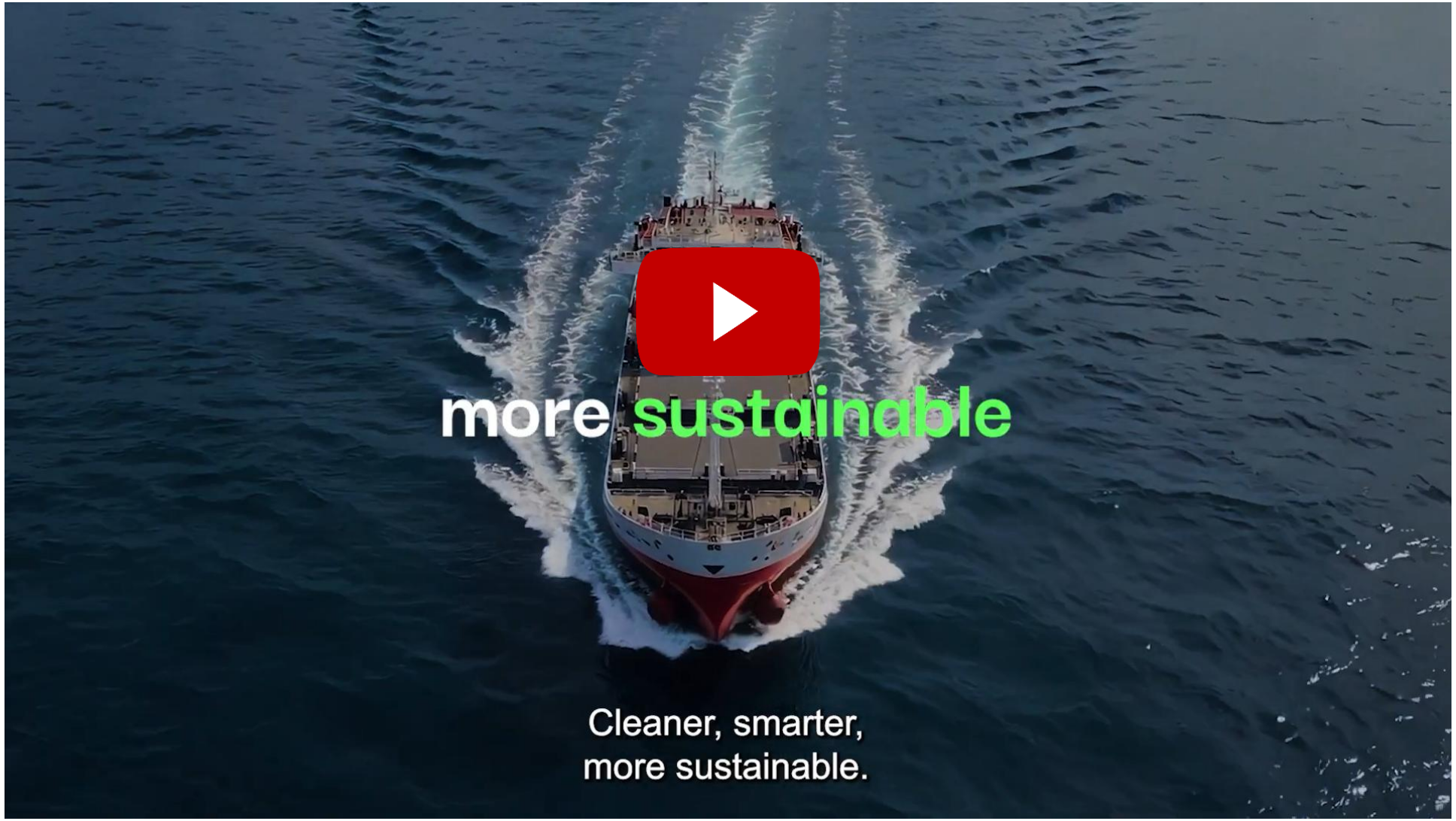

https://www.youtube.com/watch?v=Gru_KQzv_Ig

How BlueBARGE works

https://view.genially.com/698b2f8882138e3f255ce8c5

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Retrofitting works are ongoing in Cyprus

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Designed for

Anchored Vessels	Deliver electricity to vessels moored offshore via power barge, ensuring a continuous and monitored power supply.
Moored Vessels	provide electricity to moored ships via power barge, especially in ports lacking SSE infrastructure or to supplement existing systems.
Isolated inhabited areas	support isolated seaside regions or islands with underdeveloped local power grids.
Environmentally critical areas	provide clean electricity, enhancing sustainability and environmental preservation.
Small transportation vessels	provide a reliable source of electricity to vessels, ensuring decarbonization of Inland Waterborne Transport.

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Designed for

Leisure boats along the coast	clean electricity for leisure boats in popular nautical tourism hubs.
Offshore platforms	electrification solution to power offshore oil and gas platforms, reducing reliance on diesel engines.
Charging from offshore power plants	act as an energy storage solution for offshore power plants in cases of excess power generation.
Emergency response after natural disaster events	enhance recovery by ensuring a reliable power supply in the aftermath of natural disasters.
Charging from anchored vessels	capturing excess power from ship generators operating at optimal efficiency, reducing energy losses and improving overall performance.

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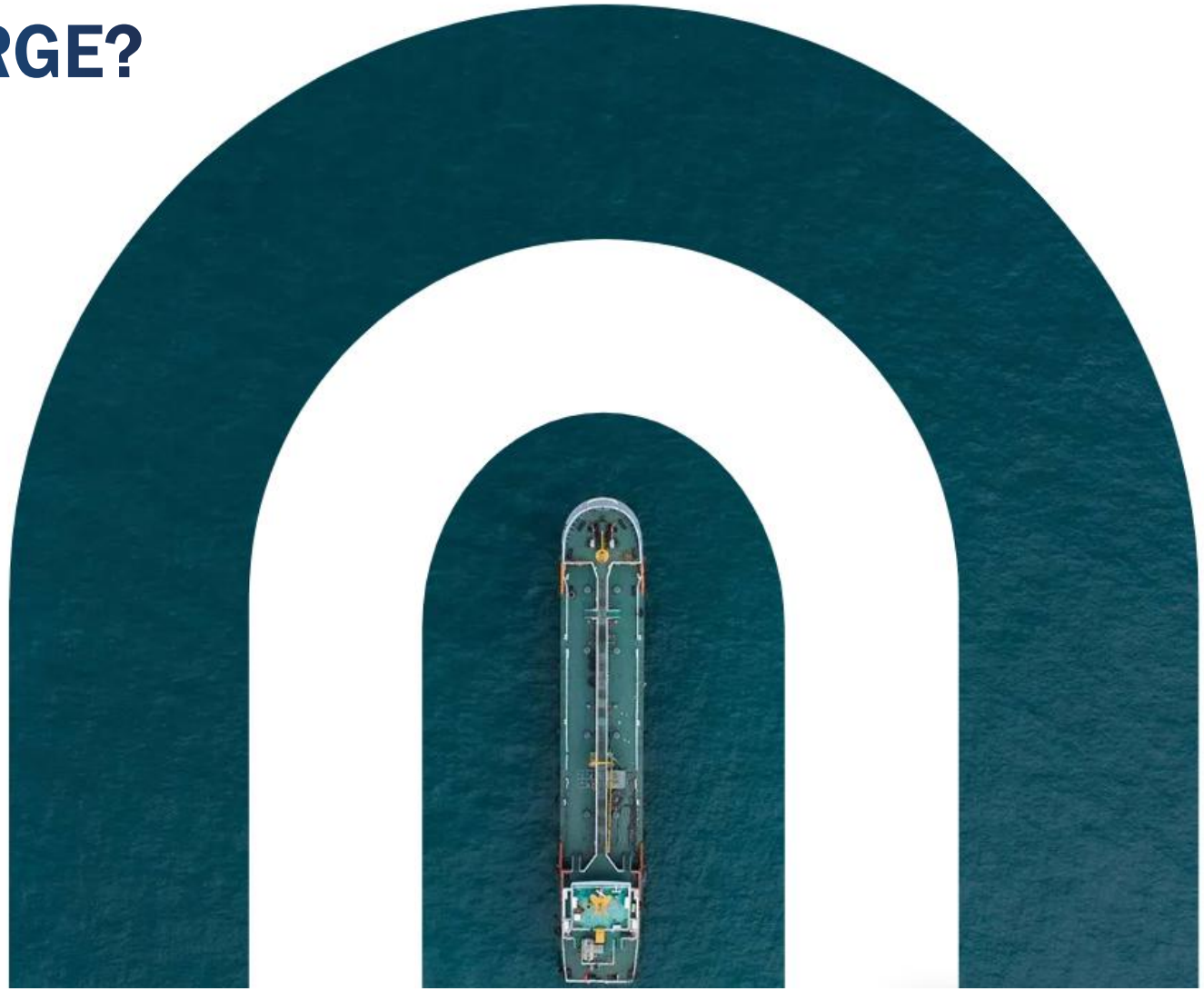
Who benefits from BlueBARGE?

- Port authorities and communities
- Terminal operators
- Shipowners and cruise operators
- Energy providers and machinery suppliers
- Infrastructure investors



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Why it matters for Ports and Terminals?

Port Outcomes

- **Anchorage decarbonisation:** reduce emissions from auxiliary engines while vessels wait offshore
- **Extend benefits beyond the quay:** serve anchorage, overflow berths, or locations with constrained grid capacity
- **Improved local air quality** and reduced noise nearby sensitive communities
- A marketable **“green anchorage power”** service for shipping lines and cargo owners
- **Energy resilience:** temporary or supplemental power during grid constraints, maintenance or emergency events
- **Enables phased electrification strategies** adopting a flexible approach

Operational Fit

- **Rapid mobilisation** and relocation as demand shifts
- Modular, scalable **capacity to match traffic volumes** and vessel mix
- **Minimal onshore works** compared with fixed Shore-Side Electricity systems
- **Controlled connection process** with monitored power quality and load management
- No **permanent land occupation** or major permitting requirements
- **Future-ready and technology-agnostic design**, adaptable to evolving energy mixes

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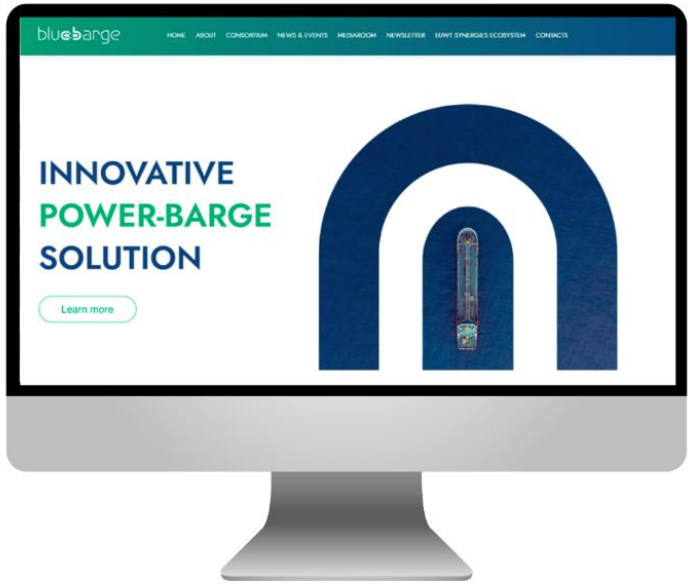
BlueBARGE enables decarbonisation not only at berth, but also at anchorage, addressing emissions where they have traditionally remained unmanaged.

It is not just an infrastructure solution. It is a flexible tool for ports and stakeholders that want to lead the green transition.

Let's turn anchorage from an emissions gap into a competitive advantage!

Get in Touch!



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Questions? Reach out:
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