

ARTEMIS TECHNOLOGIES

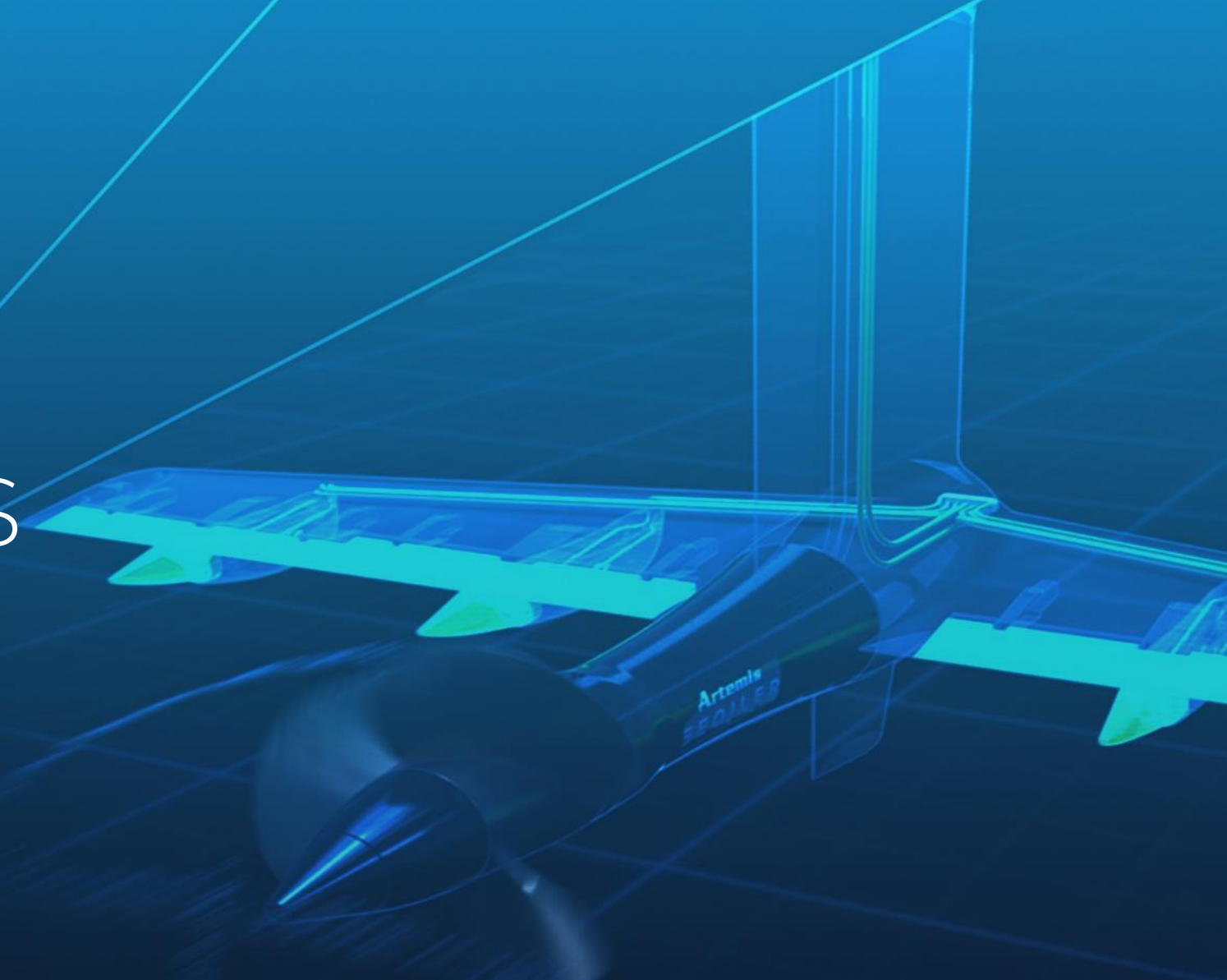
REVOLUTIONISING HIGH SPEED BOAT OPERATIONS

Introducing the Artemis eFoil® system

HSBO JUNE 2023

Artemis
TECHNOLOGIES

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An aerial photograph of a small blue boat moving across a vast, shallow coral reef. The water is a vibrant turquoise color, indicating shallow depths and healthy coral. The boat is leaving a white wake behind it. The image is split diagonally, with the top right corner being white and the bottom left corner being dark blue.

Our Mission

To help accelerate the maritime sector's transition to a greener more sustainable future.

Born from the America's Cup

Artemis Technologies was formed in 2017 from the Artemis Racing America's Cup Challenge where boats are tested to their limits and push the boundaries of sailing.

Over £250m invested in maritime R&D.

World-leading Digital Twin capabilities.





How Fast?

54 Knots in 15 knots of wind

Smooth ride vs the chase RHIB

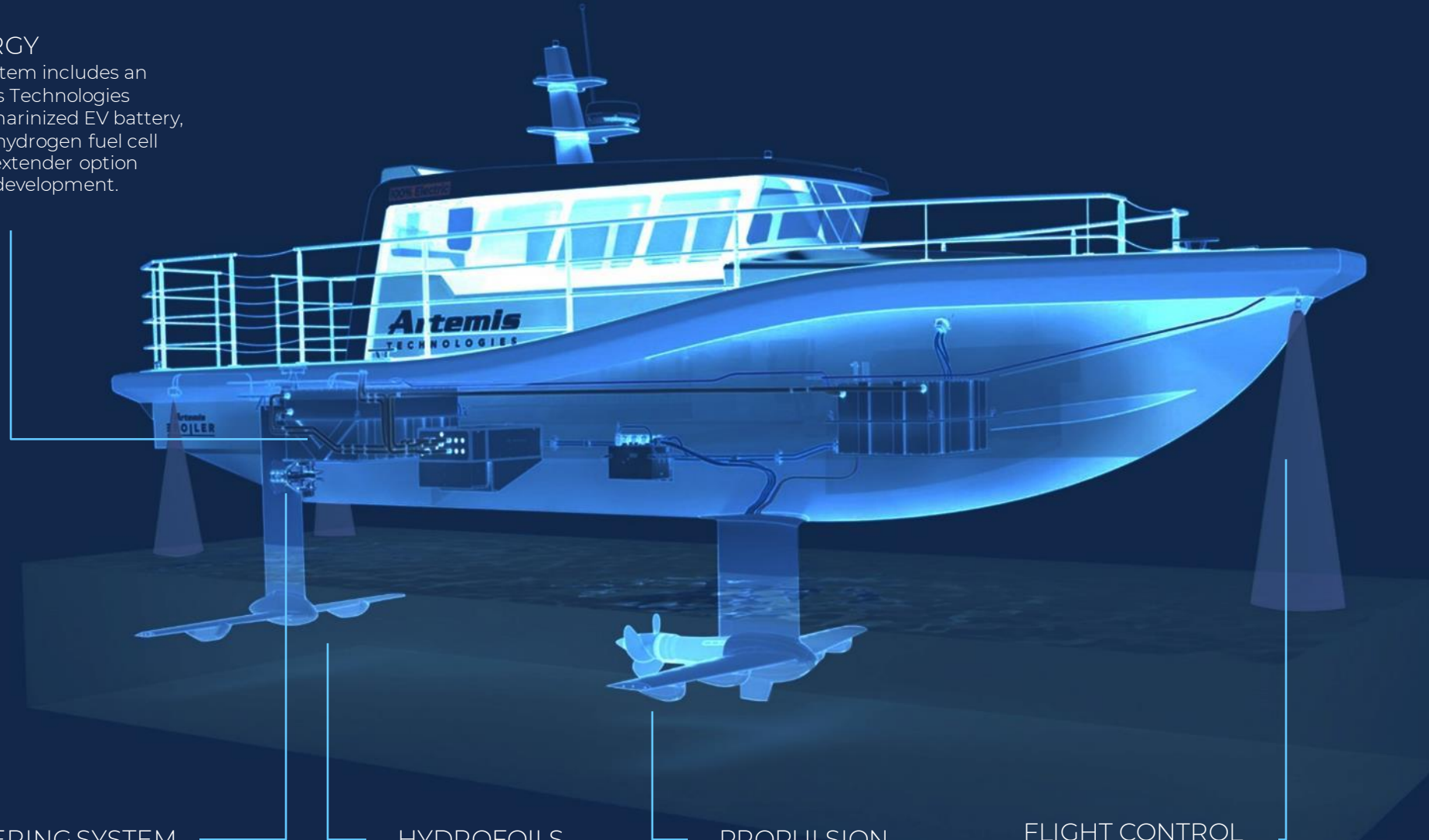
90% more efficient than displacement boats



Agility

ENERGY

The system includes an Artemis Technologies 800V marinated EV battery, with a hydrogen fuel cell range extender option under development.



STEERING SYSTEM

Aft hydrofoil acts as a rudder to steer under propulsion, with thrusters, to assist in low-speed manoeuvres.

HYDROFOILS

High aspect ratio hydrofoils, with replaceable leading edges, that lift vessel out of the water reducing drag.

PROPULSION

Zero-emission propulsion provided by a self-cooled, ultra-high power density, 97% efficiency electric drivetrain. Minimal service requirements.

FLIGHT CONTROL SYSTEM

Ride height of the vessel is managed by an autonomous flight control system.

eFoiler®

The Worlds First Commercially Viable, Zero Emission Propulsion Solution for High-Speed Maritime Transport.

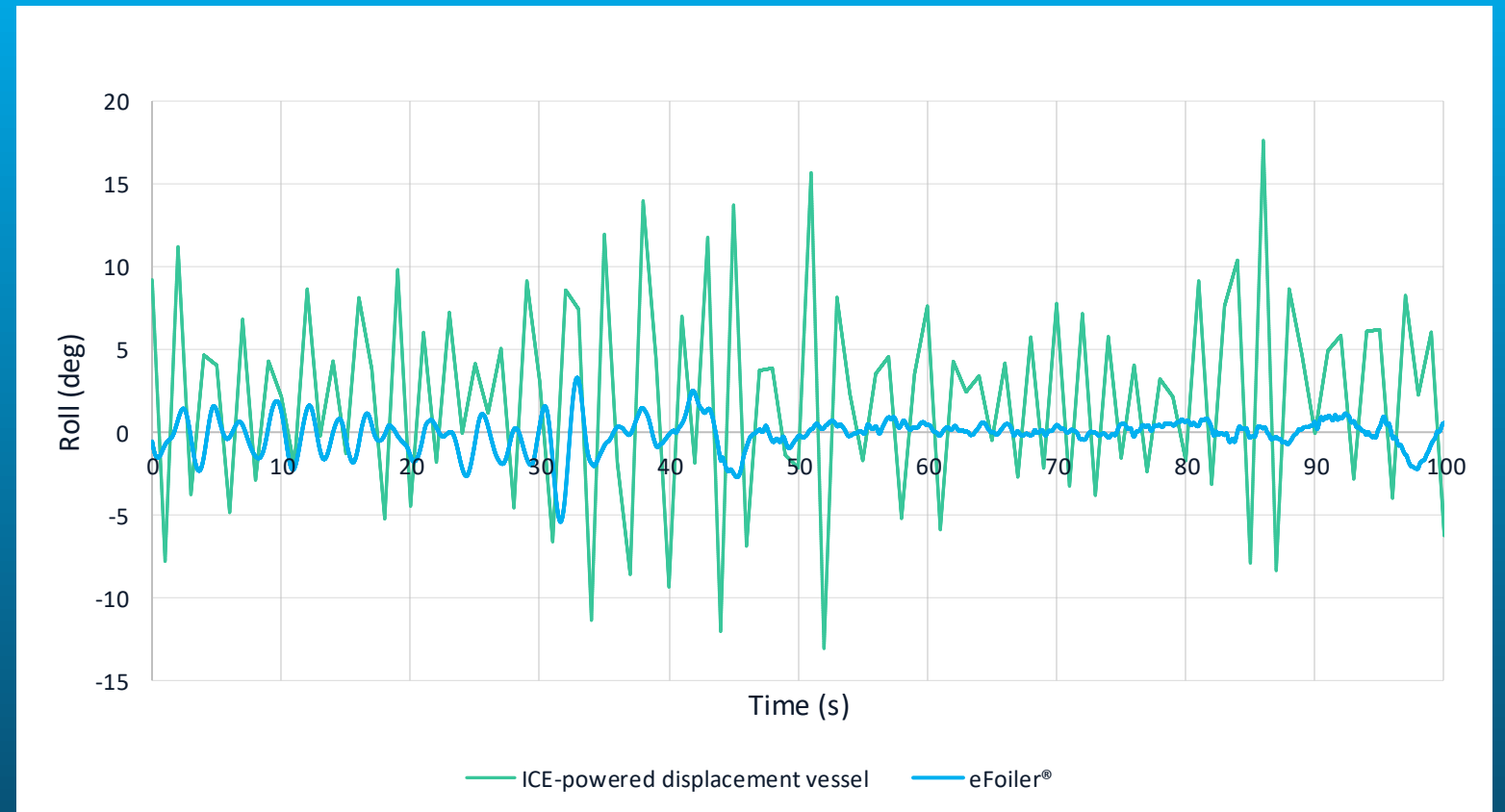
Enables environmentally conscious operators to reduce their impact on nature in a safe and reliable way.

Our patented technology is built to last and is protected around the world.

Validation

In 2022 we launched the world's largest, 100% electric foiling craft.

The performance of the vessel against current fossil fuel solutions has been validated through two-boat testing against a gasoline sister ship.



	Gasoline Sister Ship Seahorse	Artemis eFoiler Pioneer
Energy consumption at 17 knots, 0.1m Hs	38.0 kWh/Nm	6.53 kWh/Nm
Energy consumption at 17 knots, 0.6m Hs	52.1 kWh/Nm	6.92 kWh/Nm



Artemis EF-12 Workboat

Zero Compromise on Performance

The Artemis EF-12 Workboat 100% electric workboat is built for the most challenging conditions.

Ability to carry 6 passengers and 2 crew.
Capable of 34 kts with 60 nm electric range at 25 kts.

Benefits Artemis EF-12

Operational,
Environmental
& Commercial



A game changer for the decarbonisation of high-speed maritime transport applications, the technology provides a range of benefits for both operators and passengers.

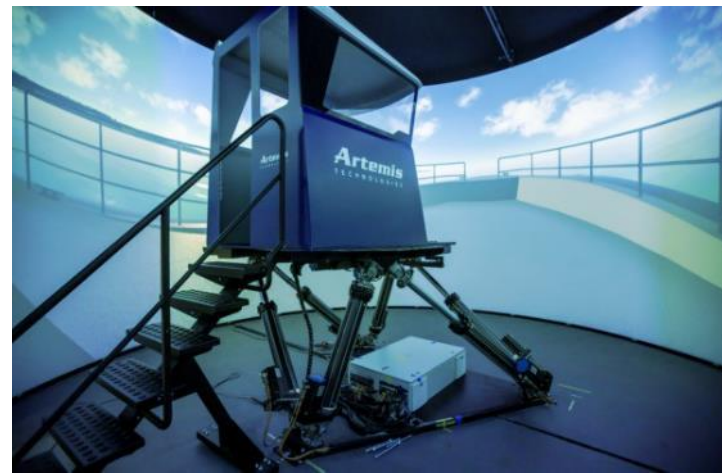




Autonomous Flight Control

Artemis Technologies is home to the world's most advanced marine simulator.

Flight control of the vessel is optimised during full mission simulations in a range of sea and weather conditions.



Better for Business

Significant OPEX savings

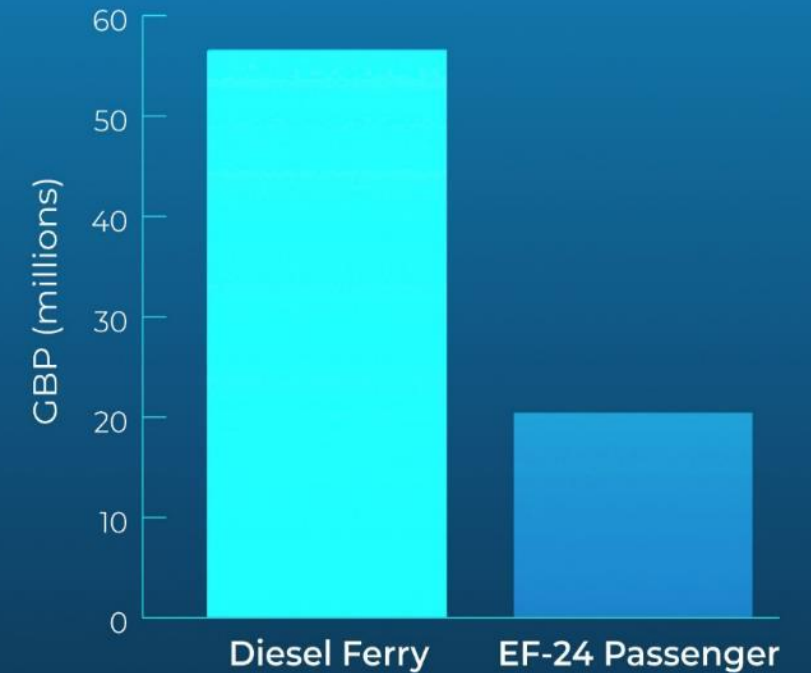
Compared to a traditional ferry, eFoiler® vessels have a much lower OPEX due to reduced fuel and maintenance costs.

Annual Fuel & CO_{2e} Savings vs Diesel Ferry



Based on 350 days per year

15 Year TCO Comparison



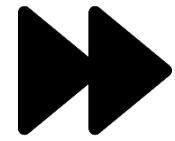
Based on 200NM per day, 350 days per year

This is based on data from the Department for Business, Energy and Industrial Strategy, and conservative assumptions on the tariff of diesels (0.91£/L) and electricity (0.17£/kWh).

DEFENCE



Key Defence/Coastguard Benefits – Hybrid



High Speed

45+ kts
400+ nm
18-ton payload



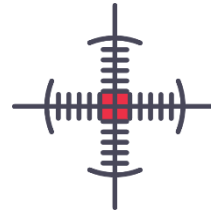
Smooth

6 x less pitch acceleration at 40 knots
Crew arrive rested and uninjured



Stealth

Acoustic
Thermal



Stability

Sighting and UAV platform
Ship stability in a small package



Transport System of the Future

Our high-speed passenger ferry provides a cost-effective public transport solution that helps address air pollution, congestion and noise.





Made in Belfast

Designed and manufactured by
our team, right in the heart of
Belfast Harbour's iconic dockyard.

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THANK YOU