



PRESS RELEASE

Louis Dreyfus Armateurs, Mauric, Barillec Marine, SEAir, ADV Propulse join forces to develop a Zero Emission & Safe Transfer Crew Transfer Vessel ("ZEST" project)

Safety, performance, improved comfort and staff security, reduction in GHG emissions and atmospheric pollutants ... these are the main objectives that Louis Dreyfus Armateurs, Mauric, Barillec Marine, SEAir and ADV Propulse aim for thanks to the ZEST industrial consortium. The 5 partners have been working for 3 months on the development of a prototype CTV which is safer when transferring personnel and tends towards "zero emissions".

Thanks to the ZEST project, a new type of innovative and more energy-efficient CTV will emerge in 2025. This CTV will provide a safer and more efficient transfer of wind turbine maintenance personnel, due to its excellent sea navigation characteristics and the integration of sea state monitoring systems. In comparison to the current market for wind turbine maintenance personnel transfer vessels, it will offer a more suitable and secure solution for transfer operations at sea, will be more manageable and better suited to maintenance operations.

ZEST will operate with low energy consumption and greenhouse gas (GHG) emissions thanks to the combination of innovative technological bricks and an optimized architecture. The use of recyclable composite materials will improve the environmental impact from the construction of the ship until its dismantling. All of these impacts will be assessed through a Life Cycle Analysis.

By getting closer to zero GHG emission while gaining operational and safety capacities, the CTV ZEST will therefore have a privileged spot in a growing market. By becoming the new standard for CTVs, with very high operational and environmental performance and relying on the skills of the French maritime industry, the CTV ZEST will generate several tens of millions of euros in turnover and create nearly a hundred jobs by 2030 for the French maritime industry (equipment manufacturers, architects, shipyards, shipowners).



The project milestones

Thanks to the establishment of this consortium, the design studies of the ship and the associated technological bricks are currently being carried out, in parallel with a technical and economic study.

The technological building blocks of the project are as follows:

- An innovative CTV architecture with foils;
- Innovative trochoidal thrusters;
- The integration of “Zero emission” GHG energy system solutions;
- An innovative energy consumption management system;
- A wave monitoring and floating object detection system;
- Depending on market needs, an adapted dynamic positioning system.

At the end of this study phase, the consortium will aim for a first commercial order which will allow the construction of a demonstrator. This demonstrator will be tested in real conditions over a period of 6 months to validate its level of operational safety and its technical, economic and environmental performances.

The technological bricks developed within the framework of this project will be suitable for CTVs or other types of ships. Indeed, ZEST is only one possible application for these technological bricks and will thus be a showcase demonstrating their efficiency in a context of pressing constraints to reduce the carbon footprint of maritime activities.

About Louis Dreyfus Armateurs :

Project coordinator

The Louis Dreyfus Armateurs Group offers players in the maritime world innovative industrial solutions adapted to their needs, and integrated services ranging from the design and management of ships to maritime operations in the fields of dry bulk transport, logistics and marine industrial solutions. Present worldwide with more than 2,600 employees and around 100 vessels, LDA is a French family-owned group.

About Mauric :

Scientific coordinator

MAURIC, subsidiary company of ECA GROUP, is a European leader of naval architecture and marine engineering, designing, for shipyards and shipowners, military and professional vessels in the range between 10m and 150m. MAURIC develops since 1945 innovative ship designs with high operational and environmental performances. MAURIC designed the LOUIS DREYFUS ARMATEURS' CTVs that will operate in the Saint-Nazaire Offshore windfarm. MAURIC will be the architect of the ZEST CTV and the integrator of the key technologies developed by the partners of project answering to the requirements of LOUIS DREYFUS ARMATEURS and the Offshore Wind Energy market.



About Barillec Marine

Project partner

Barillec Marine has a general know-how in electricity, electronics and automation for any vessel project: newbuilding, refit or maintenance. With today's environmental concerns, the company designs and integrates innovative systems for the energy management, the electric or hybrid propulsion to improve the vessel's energy efficiency, and thus reduce their carbon footprint. A trustful technical partner, ready to work with the shipyards to meet the shipowner's expectations: from the requirement specification through the full ship's lifecycle.

About SEAir

Project partner

« Hydrofoils to reduce the drag »

The SEAir Design and Engineering office develops, manufactures and installs hydrofoils and their systems. These appendages, which are usually retractable and servo-controlled, lift the hulls completely or partially out of the water. This greatly reduces the drag of the vessels, a pre-requisite for the installation of the propulsion systems of tomorrow. The SEAir team, composed of naval architects, systems specialists, CFD, IFS, etc., works on ships from 8 to 30m. SEAir is now coordinating a major 20m hydrofoil programme, funded by the European Union (EDIDP).

About ADV Propulse

Project partner

ADV Propulse, is a young French company specialized in the field of maritime propulsion. The company has developed a patented mechanism for producing biomimetic vertical axis trochoidal thrusters. This breakthrough technology offers significant advantages in terms of energy propulsion needs, an exceptional maneuverability, placing ADV Propulse at the heart of the challenges of tomorrow's maritime mobility. ADV Propulse markets propellers reversible to hydrogenerators for sailboats and thrusters for specialized vessels. spécialisés.

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