ATLANTIC ACTION PLAN

Atlantic Stories

Beyond the Sea

France

beyond the sea®
by Yves Parlier

Overview

Beyond the Sea aims to **reduce the ecological footprint of ships through the use of innovative solutions**. It applies **kitesurfing technology on board of ships** allowing the use of wind as the only energy source.

The main objective of the project is to propose a sustainable solution for **reducing the fuel consumption** of world merchant ships **by 30-40%** in the near future. The project was launched by Yves PARLIER, an engineer specialising in composite materials and a sailor, well-known for his victories in multiple races. Since 2014, Yves PARLIER and his team have been involved in **developing a ship towing kite system**. Working in collaboration with merchant marine and fishing shipowners, they have been mastering boat towing with very large kites.

Once elaborated, the project will offer **sails of all sizes**, capable of towing (alone or with another propulsion system) the required ship. The kite will be attached to a fixed point on the ship, and will be either **in movement or at rest**, depending on the pulling force needed. The kite sail will operate **upwind or downwind**, and the sail steering will be performed both **automatically and manually.** The outcome will depend on the size of the sail, as well as the characteristics, performance and purpose of the ship.

Results

Project advantages

- **Reduction of energy needs** and **greenhouse gas emissions** from ships;
- **Safety and visibility** in the event of damage, as the wing can be useful in case of engine failure;
- **Maximum adaptability** to any vessel, sail or motor;
- **Profitability** with a 20% reduction in fuel costs;
- **System implementation**, crew **training** and installations **monitoring** provided by the project.

Project in figures

Total cost: € 16.000.000

Financial partners:

ADEME – Agence de l'Environnement et de la Maîtrise de l'Energie

Région Nouvelle-Aquitaine

Investissements d'Avenir

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