

PROTONE: PROgetto TOscano per la Navigazione Eco-compatibile



PROJECT IDEA

PROTONE project (Tuscan project for Eco-compatible navigation) aim to develop new technological solutions for hybrid/electric boats that can improve the cost-effectiveness trade-off of eco-friendly solutions respect to the traditional diesel one.

In particular, the proposal addresses to small ferries and water buses (max 200 people) used for fluvial or coastal waters navigation, both for public transport and tourism. The main areas of research in the project include:

- Modular lithium rechargeable batteries;
- Methods for increasing the intrinsic safety of the batteries;
- Quick charging systems and wireless chargers;
- Algorithms for optimal energy management;
- Integration with existing hulls and propulsion equipment.

ADDITIONAL INFORMATION

Green vehicles and use of renewable energy will be a must in the future; as 2/3 of world population lives close to the water (sea, lakes, rivers), the development of small electric boats for passengers and goods could open new interesting business opportunities.

Market analysis show the growing interest in such solutions for naval use even if they are limited by the high costs and risks associated to this new technology.

The PROTONE project focuses on the study of cutting the edge solutions for the realization of modular power systems, suitable for being used on different kind of boats and able to operate with the highest standards of safety during the entire life-cycle, optimizing the propulsion chain.



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