



Market
Naval Conceptual, Basic & R+D

Role
Digital, Naval Architecture

Cycle
Conceptual Design (R+D)

Year
2023 - 2026

Location
Spain

POSEIDON EUROPEAN PROJECT

Fast-response energy storage systems on vessels

Background & Objectives

The project aims at demonstrating the applicability of 3 innovative fast-response energy storage systems (superconducting coil, supercapacitor and flywheels) in waterborne transport addressing their on-board integration, cost-competitiveness, efficiency and safety, in relevant environments.

Scope of services

Develop simulation models for several aspects of the integration onboard of these systems (electrical, thermal, mechanical, etc...)

Our strengths on this project:

- Knowledge on modeling & simulation techniques
- Custom simulation model components using Modelica
- Integration of third-party simulation models using FMU
- Documentation, test, validation and development using GIT