

SEALHYFE

Conversion of offshore infrastructure for hydrogen production

Background & Objectives

The concept behind this project was to convert offshore oil and gas assets into a green hydrogen production plant using seawater and wind energy.

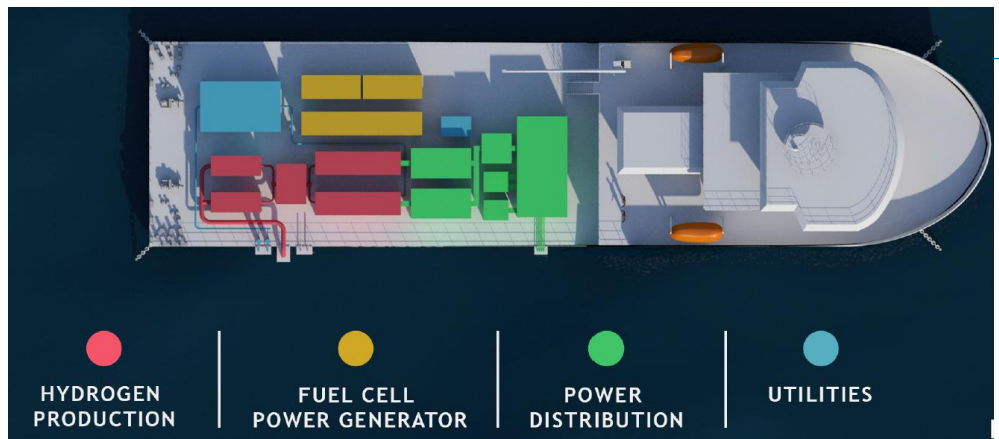
Tasks

In order to define a use case for a 10MW offshore electrolysis capacity at the SEM-REV site, Sofresid carried out the following tasks:

- Technical analysis, plans and structural reports for existing platforms
- Offshore oil and gas operating philosophy
- Electricity generation profile and costs
- Offshore platform definition (design rules, concept study)
- Preliminary design of logistics/supply chain solutions via pipeline

Our strengths

- Design of a floating platform adapted to site conditions
- Original pipeline design: dimensions, materials, marine-grade treatment
- Integration and marine-proofing of equipment (electrolysers, rectifiers, transformers, etc.)



Market
Study production

Role
TRL 3

Cycle
Conceptual study

Year
2021

Location
Off the coast of Le Croisic (France)