



Energy Observer

Our Story



The Energy Observer Odyssey



Raise awareness around the World



Emmanuel Macron, President of the French Republic



Anne Hidalgo, Mayor of Paris



Charles XVI Gustave,
King of Sweden



Dr. Thani Ahmed Al Zeyoudi, Minister of
Climate Change and Environment, UAE

The New Village



Designed to optimize PR operations worldwide while remaining educational and open to the general public

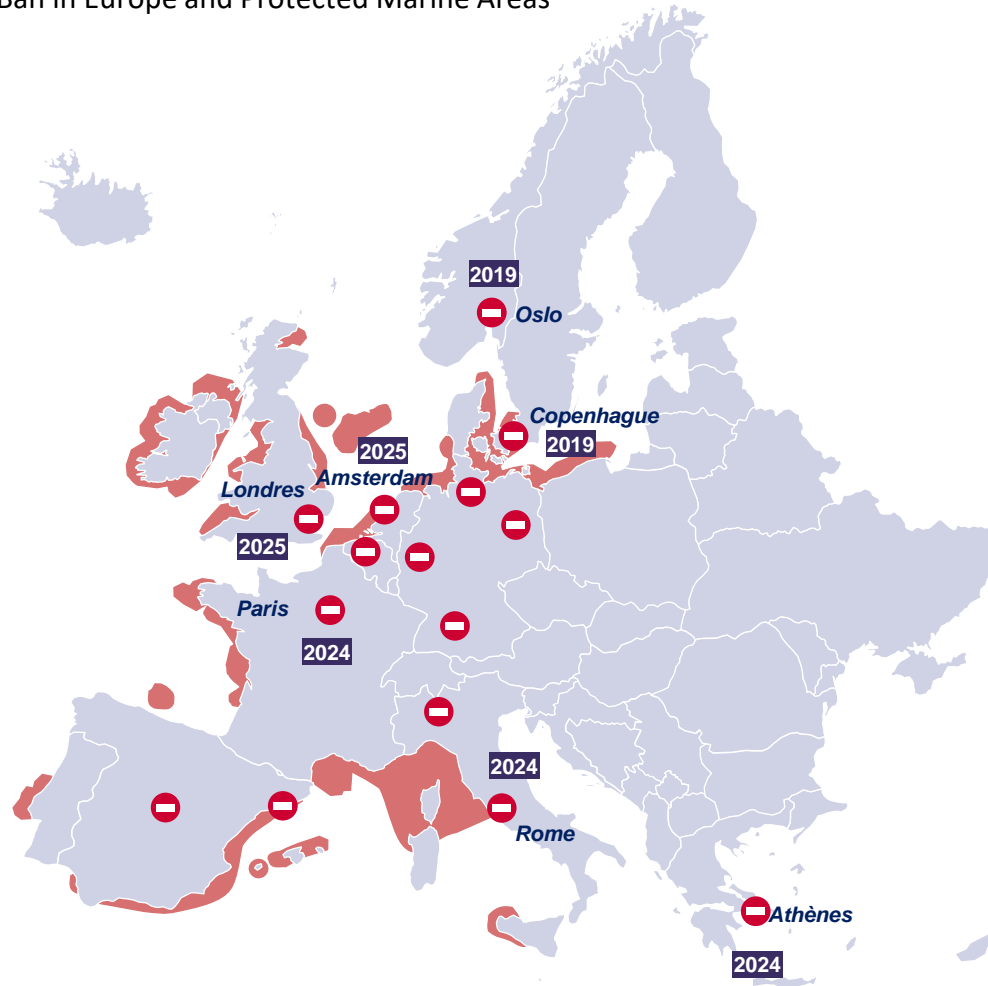


Energy Observer Developments

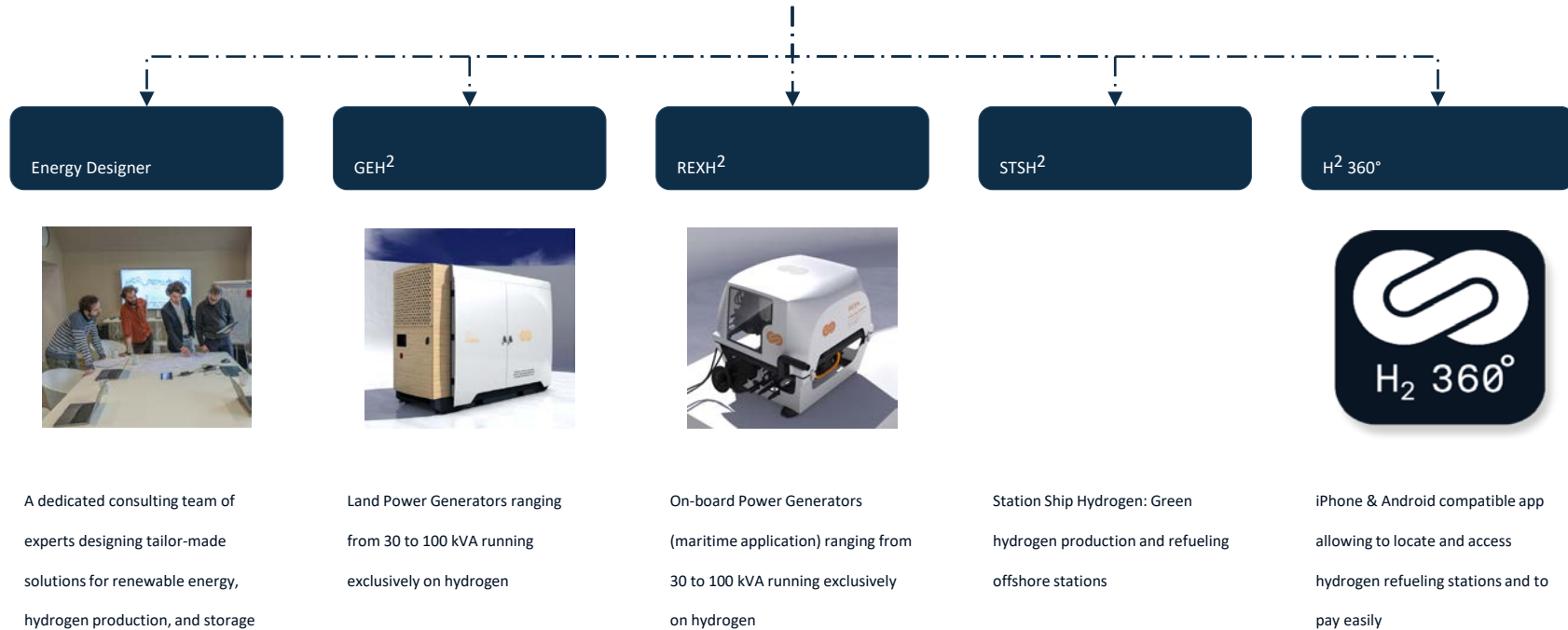
Climate urgency of Reaching Carbon Neutrality for marine application

Diesel Ban in Europe and Protected Marine Areas

- 20XX Official year of ban
- Partial or total ban
- Protected Marine Areas



Unique Products Covering the Entire Value Chain



Energy Designer

Energy Consulting Team

Mission

- Management of implementation programs
- Energy transition strategies
- Feasibility studies

Target markets

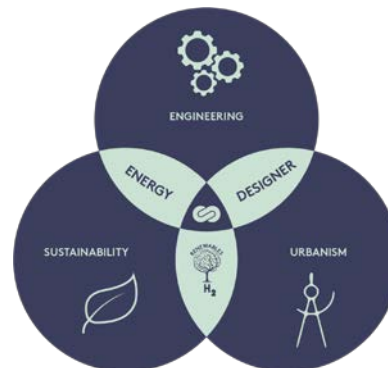
- Public and private institutions
- Industrial plants
- Shopping malls

Energy Mix Optimization Tool

- Economic benefits
- Adapted response to energy needs
- Environmental impact studies

Interactive user-friendly reporting tool

- Scenario comparisons
- Different time scales
- Data collection & virtualization



ENERGY DESIGNER

Energy Designer

Energy Consulting Team

H2 ECOSYSTEMS

Profil De Base

POTENTIEL RENOUVELABLE

Géolocalisation	Port de St. Malo, St. Malo, France
Irradiation moyenne journalière (kWh/m ² .jour)	1'109
Vitesse moyenne du vent (m/s)	7.5
Marnage moyen (m)	8.1

FLOTTE

Terrestre

Véhicule privé (VP) - Mirai	10
Véhicule utilitaire (VU) - Kangoo	10
Bus	4
Taxi - Mirai	0
Camion poubelle	2
Camion	6
Semi - remorque Frigo	0

Maritime

Bateau de pêche	1
Vedettes de port	2
Navette passagers (50p)	1

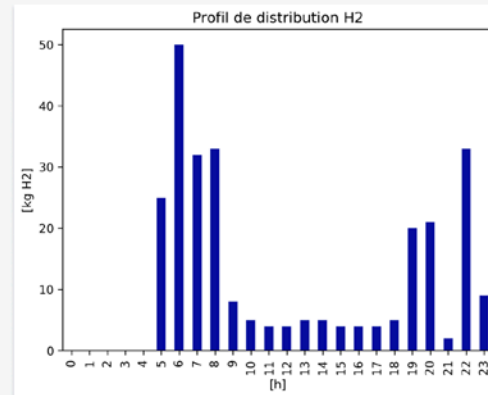
Tot. 36

DEMANDE H2

Demande d'hydrogène (kg/jour)

Flotte - Hydrogène 273
Flotte - Méthane 136

DETAILS



La Demande en hydrogène correspond au profil moyen journalier de recharge d'une flotte de mobilité hydrogène.

Elle est calculée de manière probabiliste à partir de la capacité du réservoir, de la consommation et du nombre d'heures d'engagement.

Les pics du matin et du soir coïncident avec la demande en hydrogène des grands consommateurs aux horaires réguliers tels que les bus et les bateaux.



GEH₂

Zero emission Hydrogen Power Generator for Land Applications



GEH₂

Zero emission Hydrogen Power Generator for Land Applications

GEH₂ Applications

Isolated sites

(Scientific bases, living quarters, refuges, islands, relay antennas)

Sensitive or confined environments

(Tunnels, mines, confined spaces)



Protected and regulated areas

(Zero-emission zones)

Construction sites

(Off-grid or in city centers)



Events

(Concerts and temporary or sporting events)

Emergency applications

(Data centers, hospitals, airports, ports, banks)



REXH₂

Zero emission Hydrogen Power Generator for Maritime Applications

Applications of the REXH₂

Yachting

Propulsion et Systems

Hotel load

All navigation zones

USER PROFILE

Medium to fast speeds

Short distances

Profile: Tenders, Day-Boats

CONFIGURATION

H₂ alone or coupled with
photovoltaic panels

Pleasure Boating

Systems and hotel load

Port manoeuvres

Propulsion in protected areas

USER PROFILE

Slow to medium speed

Medium range

Yachts, Superyachts...

CONFIGURATION

Customized configuration

Professionals

Propulsion et Systems

Hotel load

All navigation zones

USER PROFILE

Slow speed

Regular/recurrent routes

Shuttles, Barge, Pilot boats...

CONFIGURATION

H₂ alone or coupled with
solar panels/wind



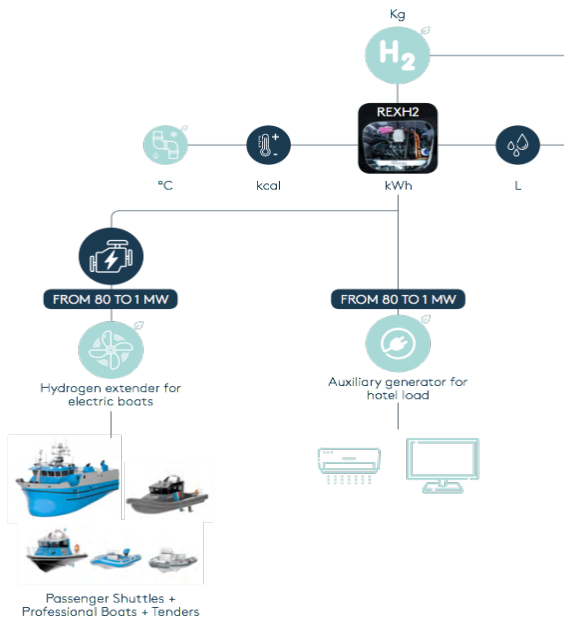
REXH₂

Zero emission Hydrogen Power Generator for Maritime Applications

Custom-Made Solution

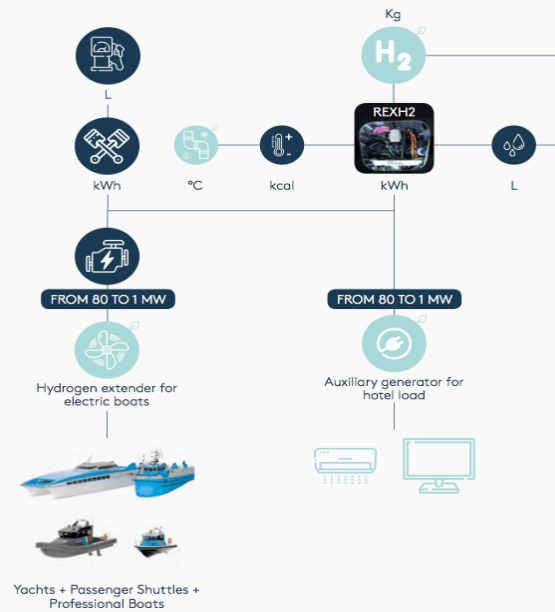
1

Hybridization H₂ - Electrical



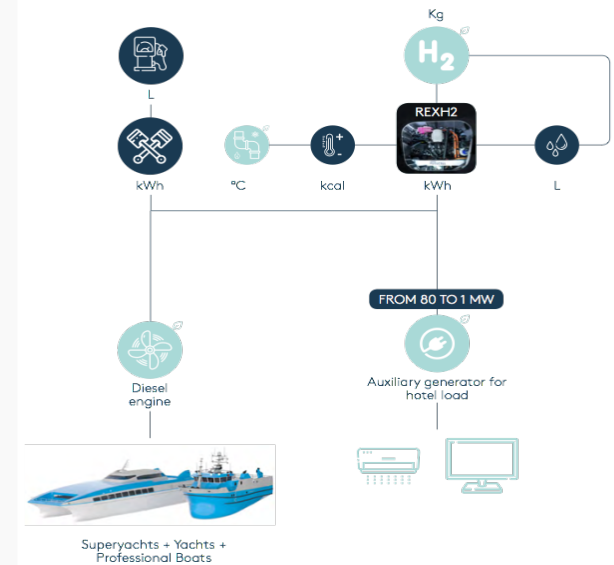
2

Hybridization H₂ Diesel-Electrical



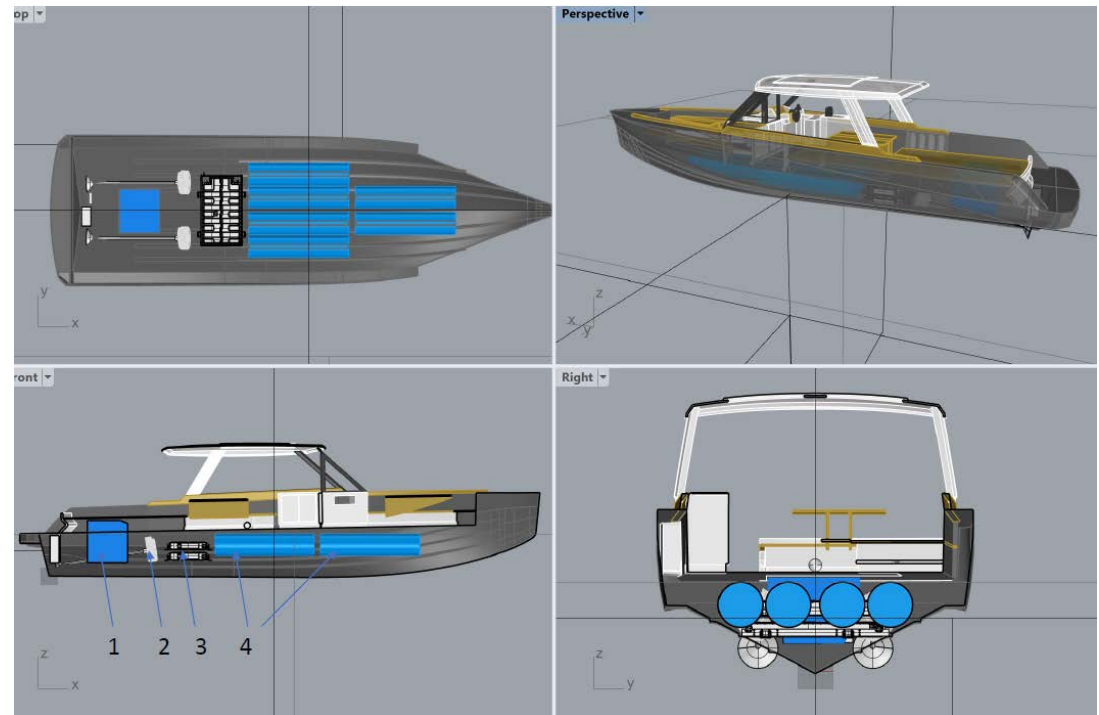
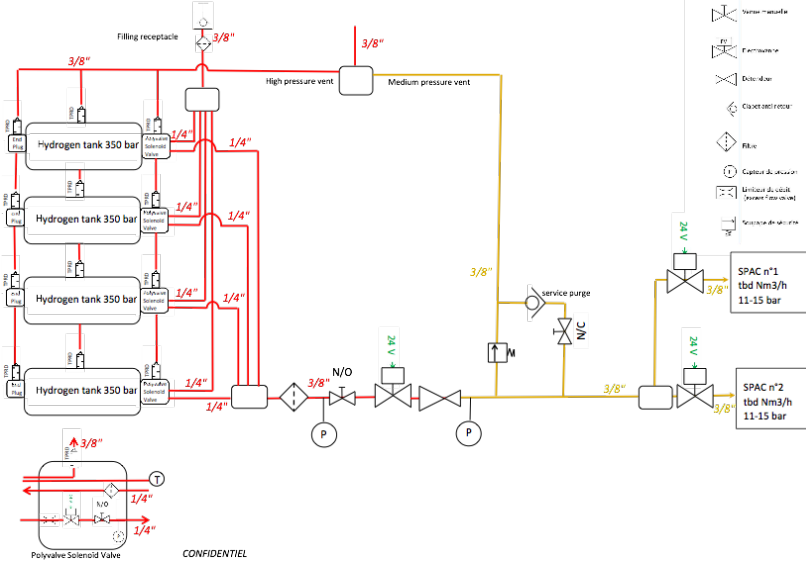
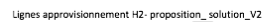
3

Hotel Load



REXH₂

Zero emission Hydrogen Power Generator for Maritime Applications



STSH₂

Mobile H₂ Production & Refueling Stations for ships and Automobiles



Accelerating the development of urban, maritime, and river hydrogen ecosystems



No regulatory constraints

Mobile, for maritime and land use

Zero emissions

No footprint

Plug & Play

Optimized logistics

Low H₂ production cost

Revenues for the city or port



