

SEPTEMBER 22, 2020

Under the presidency of Prince Albert of Monaco



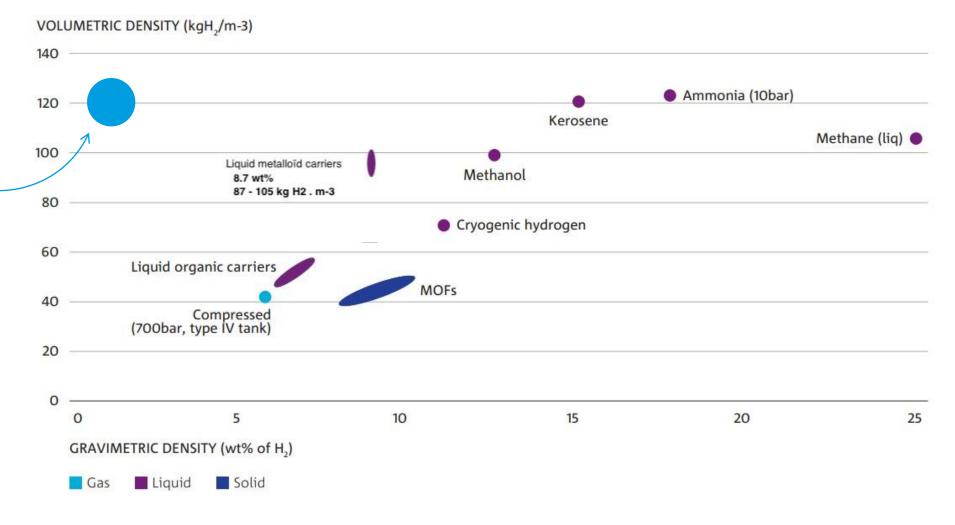
WHY HYDROGEN SOLUTION ?



The goal is to achieve the highest volumetric density of **hydrogen** using as little additional material as possible.

Volumetric density : XXX

Gravimetric density : XXX



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H2 MATURITY



The Minister of Ecology - 08.09.2020

Barbara Pompili indicated that Hydrogen is an « opportunity to decarbonize France by 2050, particularly in industry and transport ». It is also a question of « energy sovereignty ».

The minister spoke of a « strategic industry ». « It's time to ignite the 2nd stage of the rocket », in order to shift « to a higher gear », to « change scale » and push « carbon-free hydrogen » for transport, industry and hub applications.

G20 report, Osaka 2019

The awareness of the climate emergency, the fall in the cost of renewables which have been divided by ten in ten years, and the maturity of hydrogen technologies, make hydrogen a potential actor to play a key role in a clean, safe and secure environment.

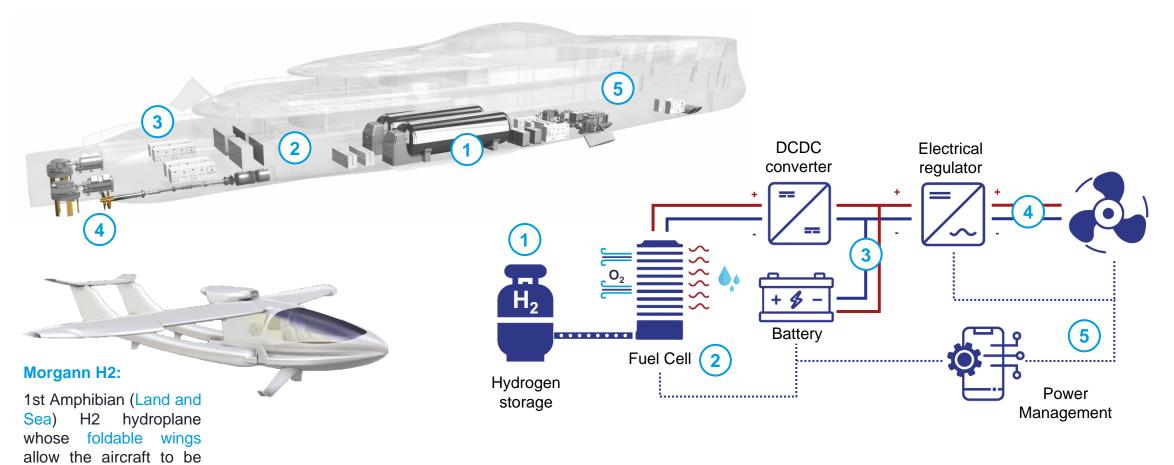
The Royal Society of Chemistry, 2019

Marine applications hold promise for hydrogen deployment, with fuel cells already being trialed for propulsion in many projects.

Vessels potentially consuming 2000 kg of hydrogen per day, hydrogen storage solutions are necessary. Fuel cells for auxiliary power could be adopted earlier than for propulsion, and port vehicles. They could also be early adopters, improving local air quality with a single refueling depot.

YACHT APPLICATION

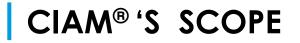




100% alternative fuels combined with a hydrogen-electric propulsion and energy system allow us to present a technical overview of the FUTURE ZERO-EMISSION.

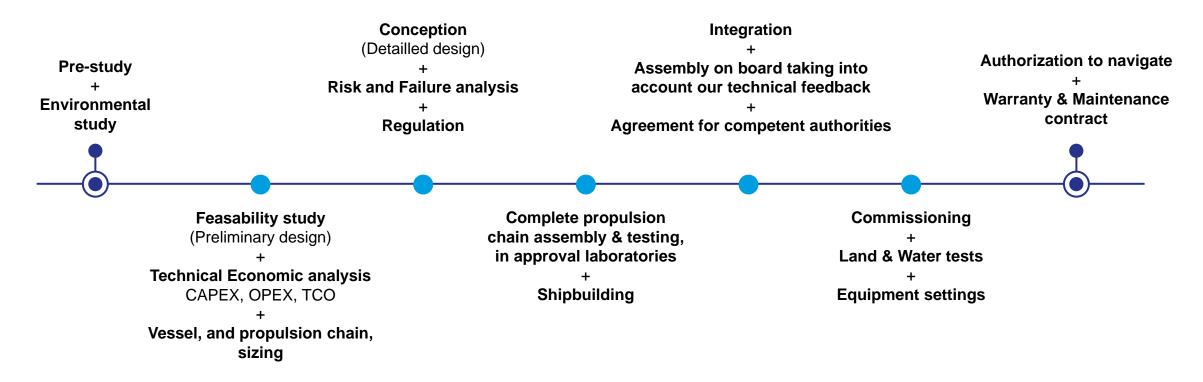
the vessel

parked under the deck of





Full turnkey consideration from "the introduction of hydrogen on board, up to the rotation of the propeller"



Go/NoGo at each stage of the construction of your vessel, and its own propulsion system.

If necessary, a unifying role, facilitator or agitator to set the entire value chain in place.

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SUCCESS STORIES





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2018: River Creation – Electric boat – Alain Ducasse







2002: Le Branec 3 - 1st sailboat equipped with hydrogen fuel cell – Integration from Alca Torda



2017: NavHybus Erdre (Nantes) from Olivier Ticos

(Alca Torda)

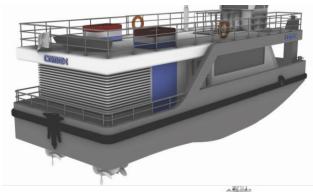




2018: River Creation – Electric boat – Alain Ducasse

PROJECT IN PROGRESS





2019 – 2022: Maneuvring pusher boat - 500 kW Fuel Cell / 3 300 kWh of H2 /day at Paris IntraMuros



CIAM7

2019 – 2021: Zero emission river tourism such as Canal du Midi, and an innovative solution for pleasure yachts – 10 kW open cathod Fuel Cell and 90 kWh of H2 /day



2020 - 2023: An ecosystem of the creation of the "green" electron for use: photovoltaics and tidal turbines, electrolysis, storage, logistics and distribution, use (150/200 passengers ship, 500 kW, 4 000 kWh of H2 /day, in the area Gulf of Morbihan Natural Park)



CANOPÉE

2019 – 2022: Decarbonize the great maritime sector using innovative solutions

- Cold ironing
- Hotel Load : 400 kW of Fuel Cell and 6 500 kWh of H2/day
- Electro-hydrogen hybrid propulsion

Corsican Blue Project

2020 – 2023 : OIL POLLUTION RESPONSE VESSEL which permits to create a base for rapid intervention at sea, integrating many innovations in terms of waste management, generation of energy on board and equipped with 100 kW of Fuel Cell and 3 333 kWh of H2 /day.





CORSICAN BLUE PROJECT







THANK YOU FOR YOUR ATTENTION

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