



GENOVA
THE GRAND FINALE
24 giugno • 2 luglio 2023



COMUNE DI GENOVA



**THE
OCEAN
RACE**

**GENOVA
THE GRAND FINALE
2022-23**

WHY HYDROGEN?

- New GHGs limitation in shipping
- Necessity of alternative fuels

Battery recyclability?

Refueling infrastructure?

Onboard problems



VIBRATION

Maintenance and comfort

LOW BAT!



ENERGY STORAGE

Low Energy storage capacity



RENEWABLES

Limited RES exploitation



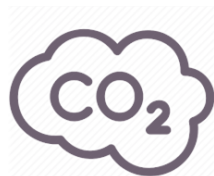
NOISE

Air and water Comfort and pollution



AIR POLLUTION

3.8% growing towards 15%



GHGs

NOx, SOx, PM

Global Necessity to reach SDGs



OUR VALUE PROPOSITION

- Zero Emission propulsion requests
- Onboard electrification trend

No CRM
100% recyclable

No Refueling infrastructure required



SUSTAINABLE

Zero emission sustainable tourism in protected areas



SAFE

Solid storage, low pressure
Validated on a real ship



HIGH AUTONOMY

From hours (BAT) to days



COMFORT

No noise, no vibration



RECYCLABLE

End of life recycling of the boat and batteries



RENEWABLE

Generate you own energy when needed



OUR SOLUTIONS

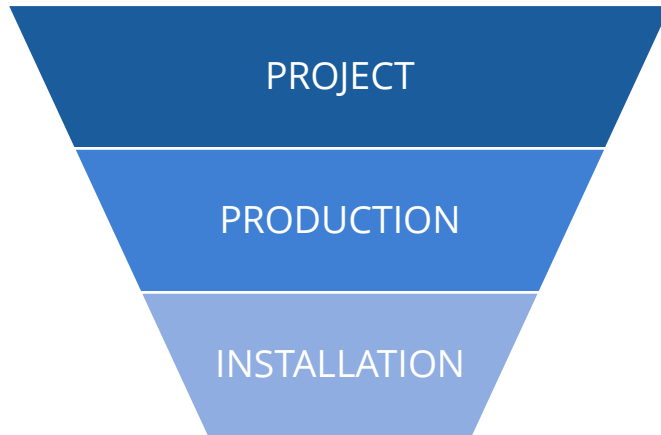


- Dedicated to marine application
- Fully integrated

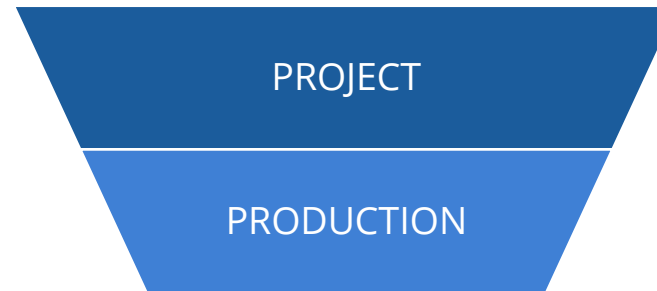
- Lab technology integration competence
- Free to move, not linked to any supplier

PATENTED ENERGY PACK

INTEGRATION



BOATS <24m



MEGA YACHTS



SHIPS



Rule and normative lack require a product company to be involved into the integration phases
→ H2Boat competitive advantage

HIGHLY SCALABLE TECHNOLOGY



Energy
Pack

PRODUCT



Check-out our
Proof Of Concept

SOLUTION

FUEL CELL &
ELECTROLYSER

WIND ENERGY

SOLAR ENERGY

DRAG
ENERGY & PROPULSION

ENERGY STORAGE

ENERGY PACK
INTEGRATED
HYDROGEN
TECHNOLOGY

PROOF OF CONCEPT
READY



Power
Pack



PRODUCT
UNDER DEVELOPMENT

SOLUTION

Medium market

High power

POWER PACK
CERTIFIED FUEL CELL
PERFORMANCE DRIVEN
POWER TRAIN



CH₂ STORAGE

FUEL CELL

FOLLER

Boat example

HIGH POWER BATTERY

EXTERNAL REFUELING

UNDER DEVELOPMENT

**UNDER
WORK**





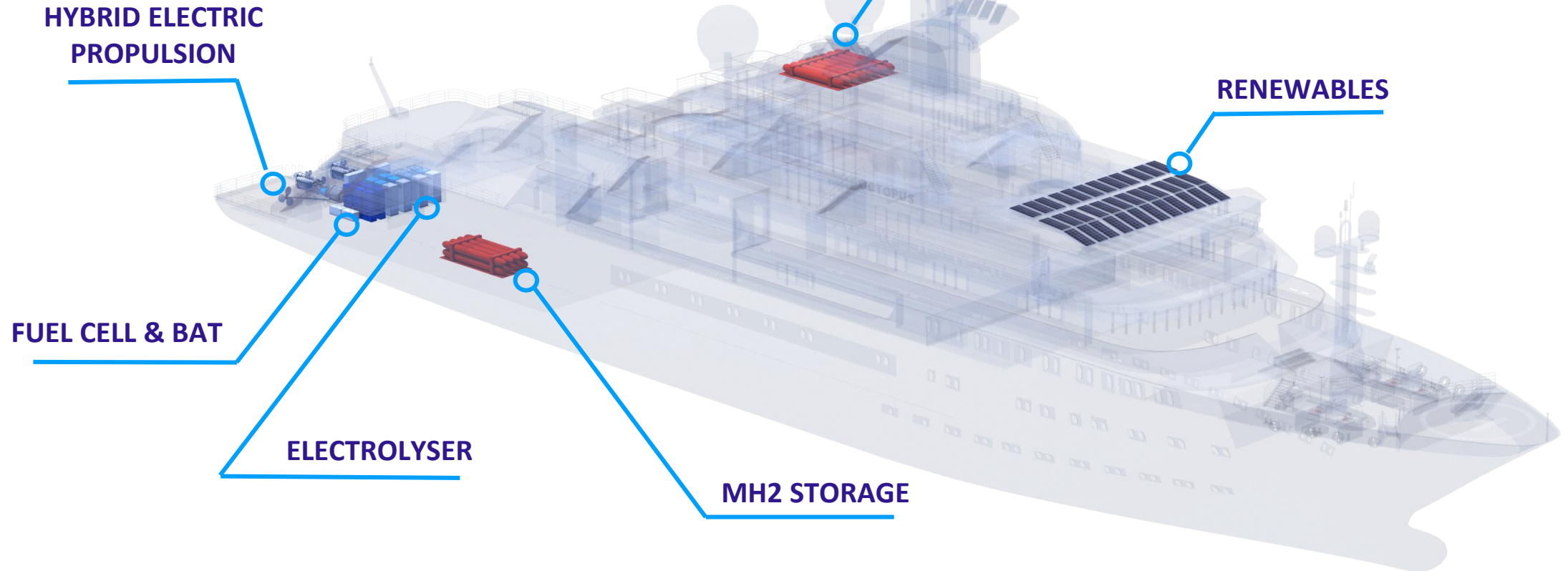
SERVICE

INTEGRATION

INTEGRATED
HYDROGEN
TECHNOLOGY

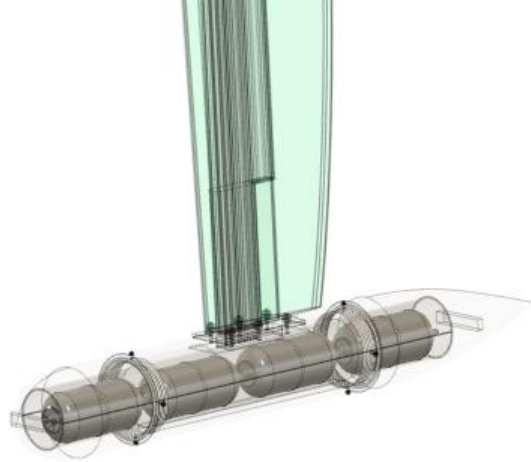
PATENTED
SOON TO BE

SOLUTION



EP NUMBERS

Fuel Cell	500 W
Battery	0,5 kWh
Electrolyser	200 NI/h
Metal Hydrides	7,5 kWh



POC

PROOF OF CONCEPT *the first sailboat equipped with the Energy Pack*



SAILBOAT NUMBERS

LOA	7 m
Beam	2,5 m
Dry Weight	1400 kg
Keel	Bulb
Ballast	450 kg





Visita la nostra
barca ad
idrogeno

Gioca con noi per
conoscere l'Idrogeno

Tocca con mano
le tecnologie

Esplora le tecnologie con
la realtà virtuale

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