



HYDROGEN

HOW TO SAIL TOWARDS THE FUTURE
OF BLUE ECONOMY



**ECONOMY BASED
ON OIL**

NOT SUSTAINABLE

**SHIPPING
GLOBAL
EMISSIONS
3.7% GHG**

NOT CIRCULAR



Planet Earth

“human concept”

**SHIPPING LOCAL
IMPACT
PORTS
HARBOURS
COASTS**

**ENERGY
THE KEY ROLE**

MODERN WELFARE
GIVEN BY
ENERGY

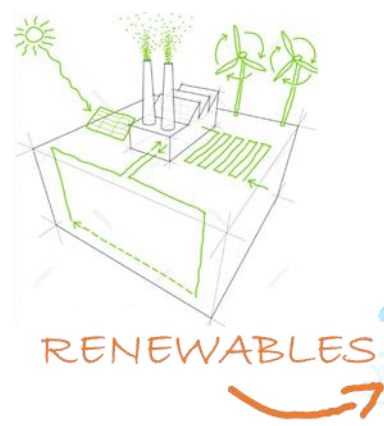
“on one hand, almost every aspect of human endeavor is related to energy and, more than ever, inequalities in access to affordable energy have become intimately linked to inequalities in security and standards of living;

on the other, by ceaselessly drawing resources from nature, we have produced the most significant environmental impact that a single species has ever imposed on our planet”

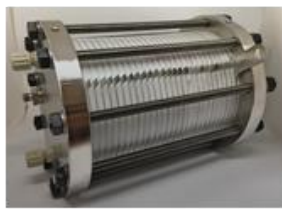
ENVIRONMENTAL
IMPACT ON THE
PLANET
**CLIMATE
CHANGE**

LACK OF
DEMOCRACY
AND WARS
DUE TO
**OIL
CONTROL**

CLOSE THE CYCLE



ELECTROLYSER

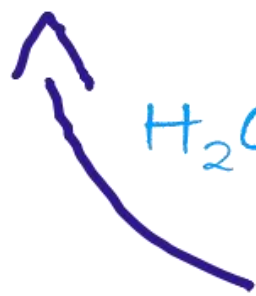


H₂

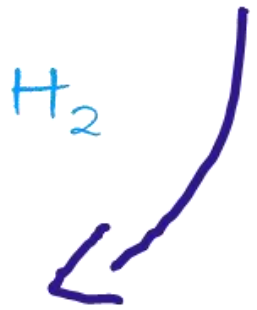
H₂ STORAGE



WATER CYCLE



H₂O



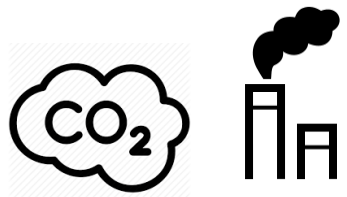
H₂

NO CRITICAL MATERIALS

ZERO GHG EMISSIONS



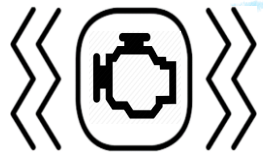
FUEL CELL



**AIR POLLUTION &
GHGs**



NOISE



VIBRATION

THE CHALLENGE RENEWABLE ENERGY STORAGE

LOW BAT!



**ENERGY
STORAGE**



**RENEWABLE
S**

**HYDROGEN
TECHNOLOGY**



ZERO EMISSION

RENEWABLE
INNOVATION
ENERGY
ECOCOMFORT

NEW ERA OF ECO-COMFORT



Day Cruiser

AUX/PROP
up to 5 kW



Sailing Yacht

AUX/PROP
up to 10 kW



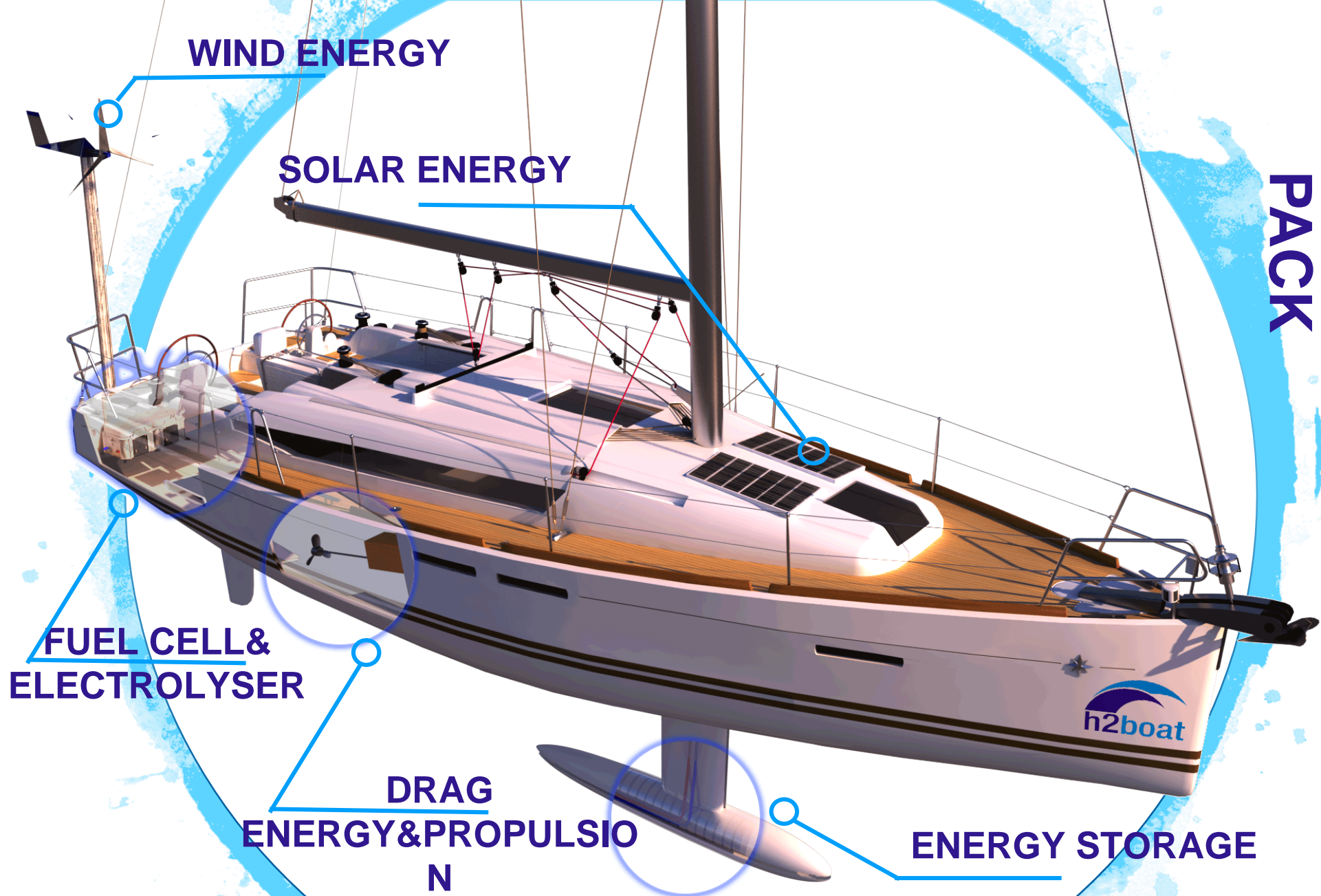
Motor Yacht

AUX
>10 kW

Sailboats market

Other applications
in isolated contexts

THE SOLUTION ENERGY PACK



THE INNOVATION METAL HYDRIDE

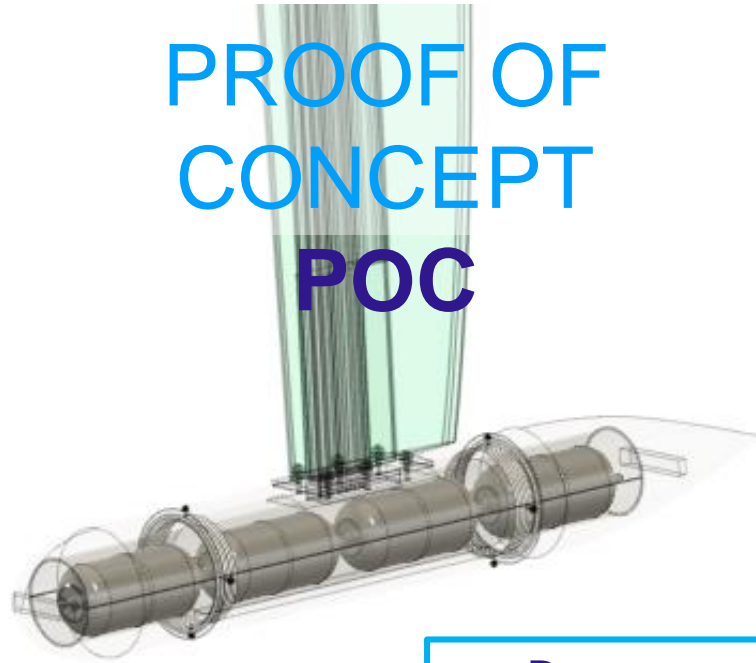
3 to 8 kWh day
from renewable
energy sources

1.8 kWh of
average daily
energy
consumption

4.6 kWh battery
= 30 kWh
h2boat system
(equal weight
and volume)

PATENT SOLUTION

PROOF OF CONCEPT POC



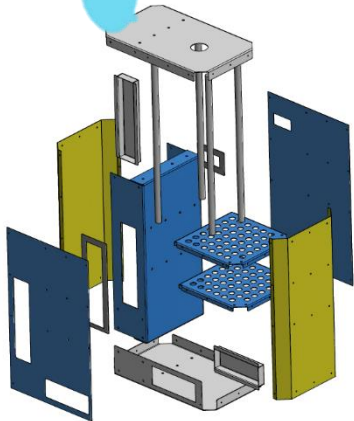
THE SAILBOAT

LFT	7 m
Beam	2,5 m
Dry Wight	1400 kg
Keel	Bulbo
Ballast	450 kg

Do you want to become a sponsor for the hydrogen sailboat revolutionary cruise?

ENERGY PACK

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



ENERGY PACK INTEGRATED SOLUTION

READY
STARTING
FROM 2020

Boats < 24m

Project

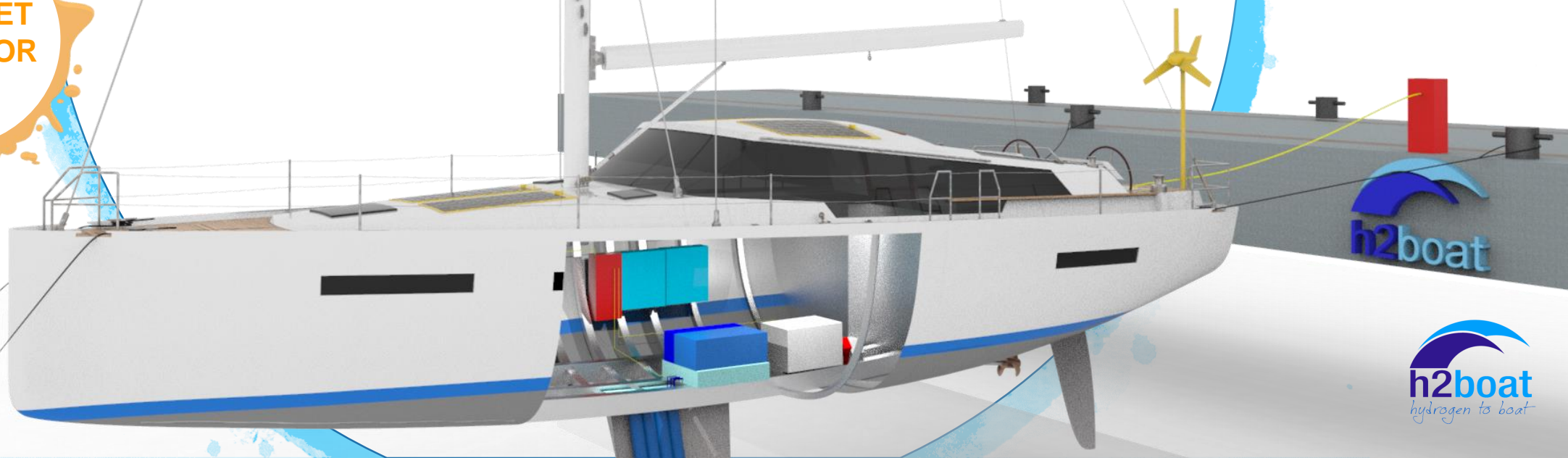
Integration

Production



	1 kW	5 kW	10 kW	30 kW	60 kW EXTRA
300 kWh					
150 kWh				POWER	
50 kWh			TOP		
30 kWh		MEDIUM			
15 kWh	BASE				

AS GENSET
FOR MOTOR
YACHT





INTEGRATION INTEGRATED SOLUTION



ELECTRIC HYBRID PROPULSION
*Silent
Zero Emissions*

FUEL CELLS & BAT
*No emissions,
No vibration
No noise
No smells*

ELECTROLYSER
*Onboard
H₂ production*

H2 STORAGE
*Metal Hydrides but also
compressed or liquid H₂
Days autonomy*

RENEWABLES
RES exploitation





BluEnergy Revolution



Participations



Collaborations



Social



www.h2boat.it
info@h2boat.it

