H2 ENERGY

Le sfide e i successi di una PMI innovativa

Together towards energy transition

I.H2Tech
Italian Hydrogen Technologies

3R ENERGIA

H2IT
ASSOCIAZIONE ITALIANA IDROGENO

H2 Energy

r3power

WHO WE ARE

H2E is an Innovative Company established to proactively meet the challenges of the Green Hydrogen industry, as a founded-for-purpose engineering & manufacturer.

The company focuses on the supply of green hydrogen systems, taking care of all the project phases, from design to commissioning and operation.

Supplying Green Hydrogen

Unlocking the Potential of Green Hydrogen with 30 Years of Experience

Board of Directors and Management

RICCARDO DUCOLI – COFOUNDER & PRESIDENT OF THE BOARD

Finance and investments background. An expert in special project development, and renewable energy entrepreneur

CLAUDIO MASCIALINO – COFOUNDER & BOARD MEMBER

Engineer and entrepreneur in the automotive and energy industries, focused on innovation and sustainable business

ALEXANDRO FLORIS – CHIEF FINANCIAL OFFICER & BOARD MEMBER

Finance and investments background.
An expert in special project development in the gas industry. Energy entrepreneur

PAOLO CARRERA – GENERAL MANAGER & BOARD MEMBER

30+ years experience in the energy sector. Comprehensive managerial skills in R&D, project management and commercial roles. More recently head of energy transition market in global EPC Companies.

GREEN HYDROGEN – diverse needs, a common transition

Suppliers of a Focused Range of Electrolysers to meet Client Needs for Green H_2 Production

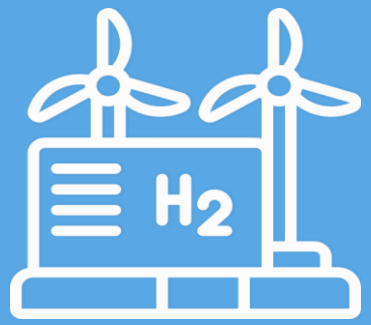
Extensive understanding of the energy sector and customer needs, for optimal solutions

Scalable production facilities to deliver high performance and safety

Advanced Electrochemical Laboratory and R&D facilities

End to End Implementations for Green H_2 Solutions in every environment

H2E being part of a Group of Companies, implements end-to-end green hydrogen projects, providing a comprehensive solution for the production, storage, and distribution of green hydrogen, including dispatch smoothing of peaking/volatile renewables.



H2E, according to Client and Project needs, may offer a wide variety of equipments leveraging on co-production strategic agreements.

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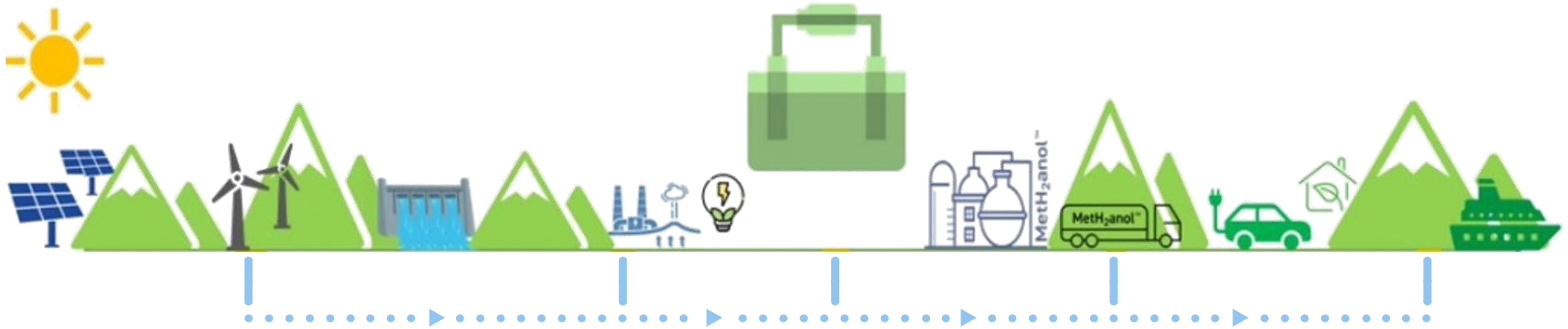
REALISING THE PROJECT: We Deliver End-to-End Solutions

Digitalization for a sustainable project life cycle



Design | **Renewable Energies & BESS** | **Electrolyzer** | **Distribution and Storage of Hydrogen** | **Operation & Maintenance**

With many critical value chain components, the entire project should work together holistically

H2E is a full-service provider,, offering a comprehensive suite of services that span the entire project lifecycle.

We provide engineering, procurement, and construction services for the integration of upstream and downstream equipments.

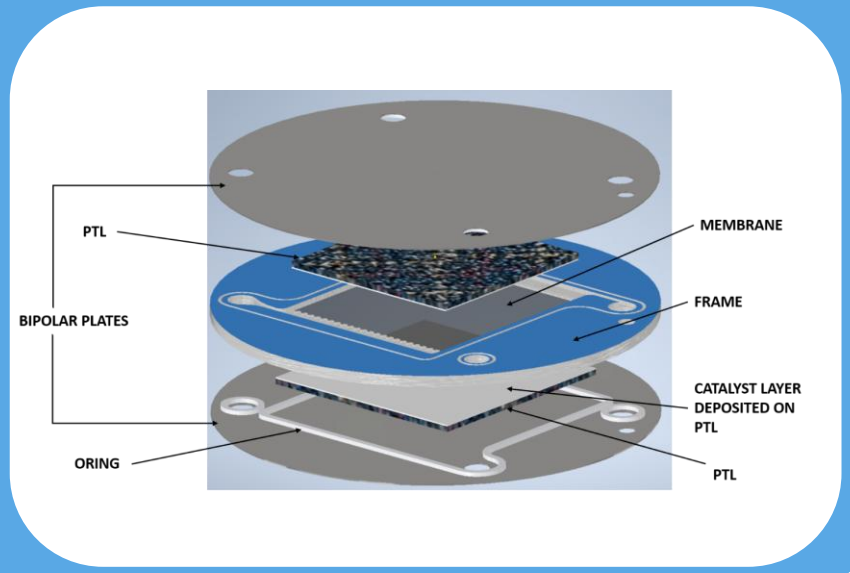
Upstream components include the design and construction of renewable energy plants, such as PV (floating or ground mounted) or wind farm (onshore and offshore), together with storage systems (BESS).

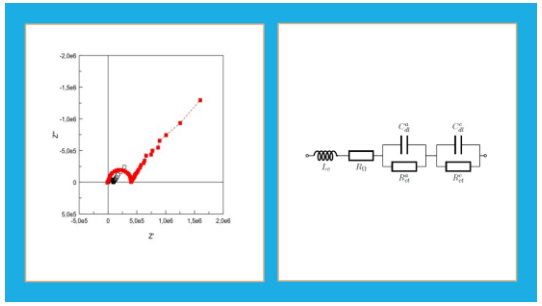
Downstream components include compression, storage and distribution of hydrogen to end-users, for mobility or industrial applications.

H2E offers services for the monitoring and control of the entire system, ensuring that the project is running safely and efficiently.

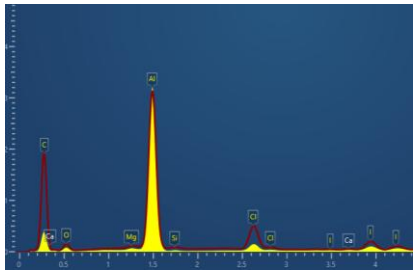
R&D: Innovation is our goal !

AMSE® Proprietary Technology





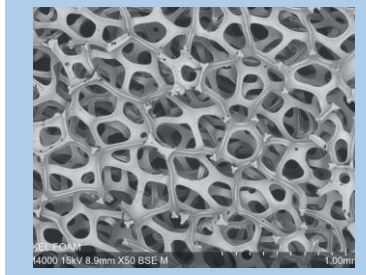
Trusting in R&D, we set up a "Hydrogen lab" for the development and testing of brand-new materials for the existing technologies and scouting for innovative disruptive technologies based on new concepts.

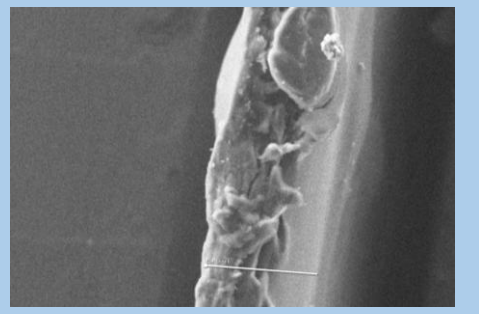


Proprietary Electromanagement Software

R&D partner

- UNIBS
- POLIMI
- BICOCCA
- UNIMI
- UNIGE
- PETROCERAMICS
- ITALFIMET
- PROTECTIM





OUR STRENGHTS – be small, reliable, efficient and affordable

Containerised modular electrolysers with balance of plant for ease of maintenance and installation

PEM - AWE electrolyser

Leading edge components engineered and integrated for safety, efficiency and longevity

Stack & related components

Electrolysis is a well understood stoichiometric process that is at the heart of any green hydrogen application.

Strategic partnership to face new market challenges

Financial support to Clients

Economic competitiveness

Shortest delivery time on the market (8-10 months)

State of the art technologies:

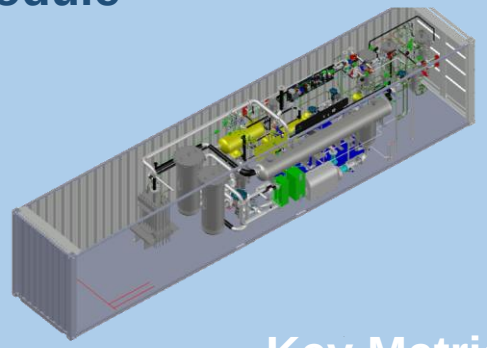
- **PEM electrolyser for medium to large multimegawatt project**
- **AWE electrolyser, produced with an Italian partner for small to medium size project**
- **AMSE® (Alkaline Membrane Solid Electrolyte) proprietary technology under R&D development phase**

Proponent and leader of the Lombardy Region hydrogen supply chain (40+ companies and 5 University centers)

Leading with PEM,

but letting the market decide technology options

PEM (1-2-5 MW) containerized module



Key Metrics

Parameter	Unit	Value
Water Consumption	l/h	250
Hydrogen Flow	Nm^3/h	200
Oxygen Flow	Nm^3/h	100
Life Expectancy (stack)	Hours	80 000
Efficiency (full output)	kWh/Kg	53.7
Turndown Ratio	%	20-100

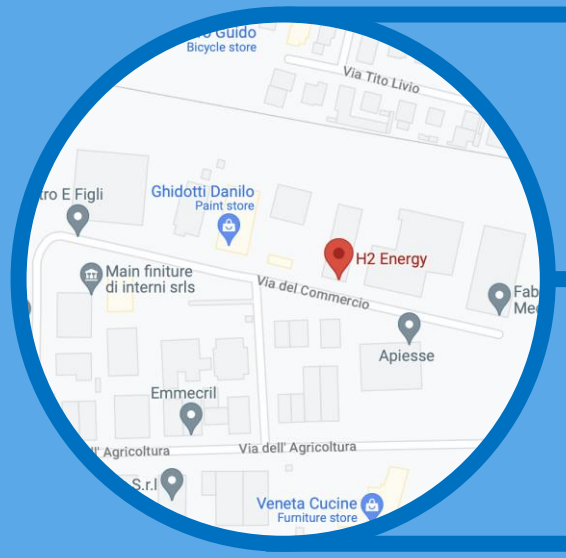
Location, Offices and Key Contact Details

info@h2e.it

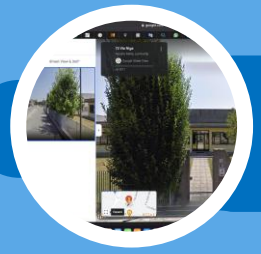
www.h2e.it

Francesca Salusti
+39 3468817541 · francesca.salusti@h2e.it

Federico Gheza - Italy
+39 3456968038 · federico.gheza@h2e.it



Production and Lab
Via Del Commercio 27,
Pizzighettone (CR)



Commercial
Via Milano 5,
Locate Triulzi (MI)

Representative
Via V. Emanuele II, 1
Brescia

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