

WHO ARE WE?

A French pioneer in solid hydrogen storage, Mincatec Energy develops tanks based on AB₂ Mn-Ti metal hydrides. This technology offers a safe, efficient, and sustainable solution that breaks with conventional approaches to hydrogen storage.

Founded in 2020, Mincatec Energy has now an established production facility, enabling it to support both pilot projects and large-scale deployments internationally.



Our certified tank is ready to provide a disruptive hydrogen technology to accelerate the green energy transition.

Yann GENNINASCA



OUR CERTIFICATIONS



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Member of:



SOLID HYDROGEN STORAGE

MHYT: METAL HYDRIDE TANK



Highlights:



High safety:
pressure at
10 bar



Room temperature:
20 °C



Modular design:
up to
2.5 m



Capacity:
up to
1.415 kg

WITH MINCATEC ENERGY, YOUR HYDROGEN IS ROCK-SOLID!



@mincatec_energy



@Mincatec Energy



www.mincatec-energy.com



Find out more

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The solution for **decarbonisation** & **net zero 2050**

MHYT: METAL HYDRIDE TANK



Cost-Effective Infrastructure:
No cryogenic or high-pressure systems (CAPEX / OPEX)

System Efficiency:
~40% system efficiency gain vs compress gas at 700 bar



Very low maintenance costs
vs compress gas (no compressor)

No heating costs
of our metal hydrides



High Volumetric Density

No ATEX:
No leaks
< 0.2g / year / tank



Infinitely recyclable

Service life:
10 000 cycles



No rare earth

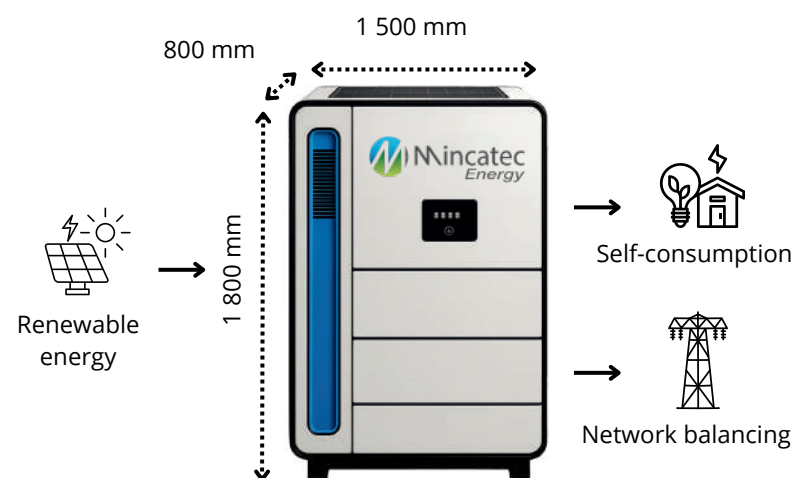
Loading time with cooling:
<20 min



PRODUCT UNDER DEVELOPMENT

MHYSC

Metal HYdride Self-Consumption



- Power: 5 kW
- H2 storage: 2-10 kg
- Connected to photovoltaic panels
- Integrated information system

MHYC

Metal HYdride Container



- 10-foot container
- 300 kg of stored hydrogen
- 10 MWh of total stored energy
- Volume: 21 m3 / Weight: 26 tons

MOBILITY



Our tanks can be integrated into all types of vehicles for carbon-free mobility



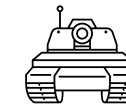
Construction and handling vehicles



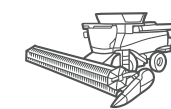
Railway machines



Airport and port vehicles



Military vehicles



Agricultural equipment



Light vehicles



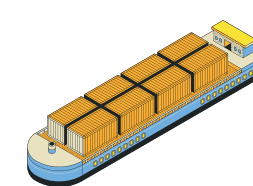
Maritime and river vessels

EXAMPLES OF APPLICATIONS



Excavator

- Modular storage: 30-60 kg of solid H2
- H2 storage used as counterweight
- Autonomy: 4-8hours/day



Freight barge

- Storage: 200 kg of solid H2
- Integration under deck
- Autonomy: 14 hours at 12km/h



Handling machine

- Storage: 6 kg of solid H2
- Recharging: < 10 min
- Autonomy: 8 hours/day

STATIONARY



Our tanks fit all kinds of stationary projects to reach decarbonisation targets by 2050



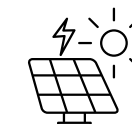
Industrial decarbonisation



Decarbonisation of buildings



Fuel station



EnR storage



Power generator

EXAMPLES OF APPLICATIONS



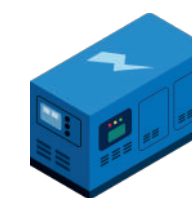
e-methanol production

- Storage: 500 kg of solid H2
- High flow rate: 0.7 T/h
- Containerized solution



Home self-consumption

- Storage: 2-6 kg of solid H2
- Power: 6-9 kW
- Social acceptability



Power generator

- Storage: 24 kg of solid H2
- Energy: 400 kWh
- No noise pollution