

CLEAN HYDROGEN JU 2026



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SME

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1. Your organization and capacities

Our Group

solquimia

zentra
France Gaz

CARBOTAINER

CARBOSPORTS

JETS
PLAY



Zaragoza, Spain



+100 employees



Founded 2002



60.000 pcs/yr

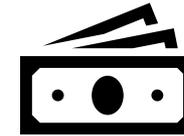
- More than 20 years experience
- Estimated annual turnover 5,0 M€
- First producer in Spain of Type III and Type IV cylinders.
- SME with international presence (USA, Canada, Europe).

1. Your organization and capacities

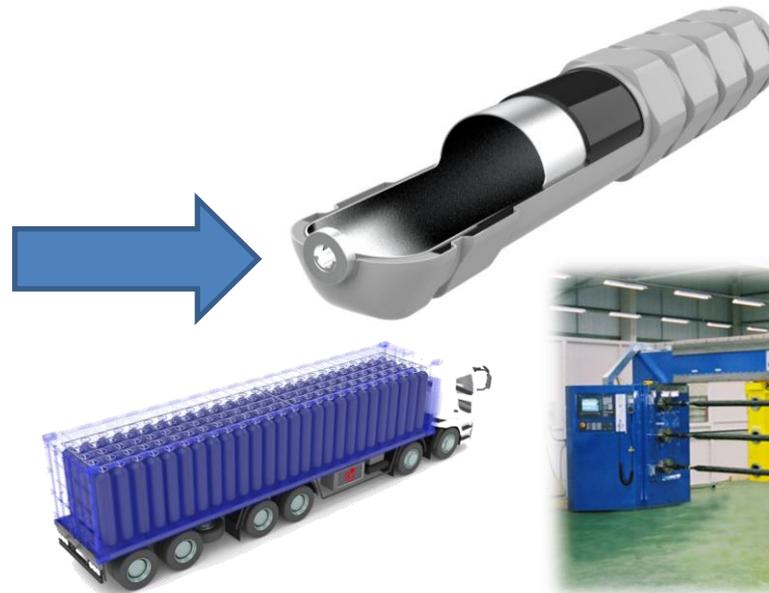


Europe's hydrogen economy faces a critical bottleneck:

- conventional steel cylinders are too heavy,
- too expensive, and
- too inefficient to scale the hydrogen supply chain from production to end-use.



Carbotainer has developed a breakthrough solution—and we're seeking partners to bring it to TRL 8-9 under Clean Hydrogen JU 2026.



1. Your organization and capacities

THE PROBLEM - Infrastructure Bottleneck



- Europe is investing billions in green hydrogen production. But the distribution infrastructure is stuck in the 20th century.
- Steel cylinders dominate the market. They're 3x heavier than necessary. They require expensive steel cages for transport. They lack traceability. And they're incompatible with modern logistics.

**The
challenge**

High CAPEX & OPEX for hydrogen distributors

Limited scalability for decentralized hydrogen networks

Poor economics for small-scale users (SMEs, refueling stations, industrial sites)

**Critical
problems**

The result? A distribution bottleneck that slows hydrogen adoption across Europe."

1. Your organization and capacities

Why does this matter for Clean Hydrogen JU? → Because distribution is the missing link in Europe's hydrogen strategy.

Our solution delivers measurable impact across four dimensions:

ECONOMIC

40% reduction in distribution CAPEX (no cages, optimized logistics)
30% reduction in transport costs (3x lighter, higher packing density)

SCALABILITY

Modular bundles (18-cylinder packs, 810-850L capacity)
Compatible with existing filling infrastructure

ENVIRONMENTAL

50% lower CO₂ footprint vs. steel (lifecycle analysis)
Circular economy: recyclable carbon fiber & aluminum

SAFETY & TRACEABILITY

RFID-enabled real-time tracking
Automated inventory management
Enhanced safety through composite burst resistance

This isn't incremental improvement. It's a paradigm shift in hydrogen logistics

1. Your organization and capacities

PARTNERSHIP & CALL TO ACTION

We're looking for:

Industrial gas companies for field validation & commercialization

Hydrogen valleys for regional deployment

Certification bodies for EU-wide regulatory approval

Research institutes for lifecycle analysis & standardization

Logistics partners for supply chain integration



Carbotainer brings

Proven technology
Industrial capacity
IP portfolio
Market traction



If you're working on hydrogen storage, distribution, or valleys, let's talk. Together, we can unlock Europe's hydrogen economy."

We're flexible on consortium roles—coordinator or key technology partner—depending on the topic and consortium structure.

2. Topics of interest in call 2026

| Topic | Experience and Contribution |
|---|--|
| <p><i>HORIZON-JU-CLEANH2-2026-03-03: Flexible and standardised hydrogen storage system.</i></p> <p><i>HORIZON-JU-CLEANH2-2026-02-01: Affordable, Safe and Sustainable aboveground medium to large GH2 storage.</i></p> <p><i>HORIZON-JU-CLEANH2-2026-02-03: New thermal insulation concepts for bulk liquid hydrogen shipping</i></p> <p><i>HORIZON-JU-CLEANH2-2026-06-01: <u>Large-scale Hydrogen Valley</u></i></p> | <p>* Experience: Successful participation in strategic projects like SHINE-FLEET, AD-GHRID, and the CUBIC Project, where we demonstrated our ability to move from complex engineering to industrial-scale prototyping and testing.</p> <p>* Contribution: design; we prototype, test, and manufacture high pressure vessels; bringing our expertise in high-performance storage systems that are critical for the next generation;</p> |

| Topic | Project idea and partners sought |
|---|---|
| <p><i>HORIZON-JU-CLEANH2-2026-03-03: Flexible and standardised hydrogen storage system.</i></p> <p><i>.HORIZON-JU-CLEANH2-2026-02-01: Affordable, Safe and Sustainable aboveground medium to large GH2 storage.</i></p> <p><i>HORIZON-JU-CLEANH2-2026-02-03: New thermal insulation concepts for bulk liquid hydrogen shipping</i></p> <p><i>HORIZON-JU-CLEANH2-2026-06-01: Large-scale Hydrogen Valley</i></p> | <p>* Project idea: Intelligent and modular high-pressure storage module (Type IV)</p> <p>* Partners sought: Primes, System Integrators, and End-Users</p> |