Big tanks of type 1 are searched for hydrogen storage in marine conditions

Summary

Profile type	Company's country	POD reference
Business request	**France**	**BRFR20230223002**
Profile status	**Type of partnership**	**Targeted countries**
PUBLISHED	**Commercial agreement** **Supplier agreement**	**• World**
Contact Person	**Term of validity**	**Last update**
Ginta Zalaka	**24 Feb 2023** **24 Feb 2024**	**24 Feb 2023**

General Information

Short summary

A French company is developing a new concept of energy production needing its storage via hydrogen. The gaseous hydrogen should be kept into big tanks, with a capacity of 1000 liters minimum at pressure of 50 bars and 100 bars. The tanks will be operated in marine conditions (saline atmosphere). Commercial agreement is sought.

Full description

A French company specialises in far-offshore wind energy production. They’re developing a new concept of ship, which will produce energy from offshore wind, store it on the boat and then distribute it onsite.
The sailing ship is fully autonomous and propelled by wind. Under the ship, hydrokinetic turbines are attached to the hull. These turbines produce energy which will be store on the ship.

Several processes of storage are today studied, and one is based on gaseous hydrogen storage. The produced hydrogen will be delivered on harbour’s area and stored in big tanks.
For that purpose, the French company is looking for hydrogen tanks to store it. These tanks should resist to the salinity in ambient air.

These tanks must withstand a pressure of 50 bars for one type and 100 bars for the other one.
A tank of type 1 (possibly type 2) is looked for, already developed.
Its capacity should be of 1000 liters minimum.
A business partner is searched to supply these 2 types of tanks.

Advantages and innovations

Technical specification or expertise sought

Tank of type 1 (or 2)
Pressure resistance of 50 bars and 100 bars
Capacity: 1000 liters minimum

Stage of development

Already on the market

Sustainable Development goals

- **Goal 7: Affordable and Clean Energy**

IPR Status

Partner Sought

Expected role of the partner

The partner should sell or lend the tanks.

Type of partnership

Commercial agreement

Supplier agreement

Type and size of the partner

- **SME 50 - 249**
- **SME 11-49**
- **Big company**

Dissemination

Technology keywords

- **04002002 - Hydrogen production**
- **004002001 - Fuel cell, hydrogen production**
- **04001006 - Transport and storage of hydrogen**

Market keywords

- **06001005 - Storage and transportation**
- **06001002 - Production services**
- **06003004 - Marine energy**
- **06009 - Energy Distribution**
- **06007001 - Other energy production**

Targeted countries

- **World**

Sector groups involved

- **Renewable Energy**