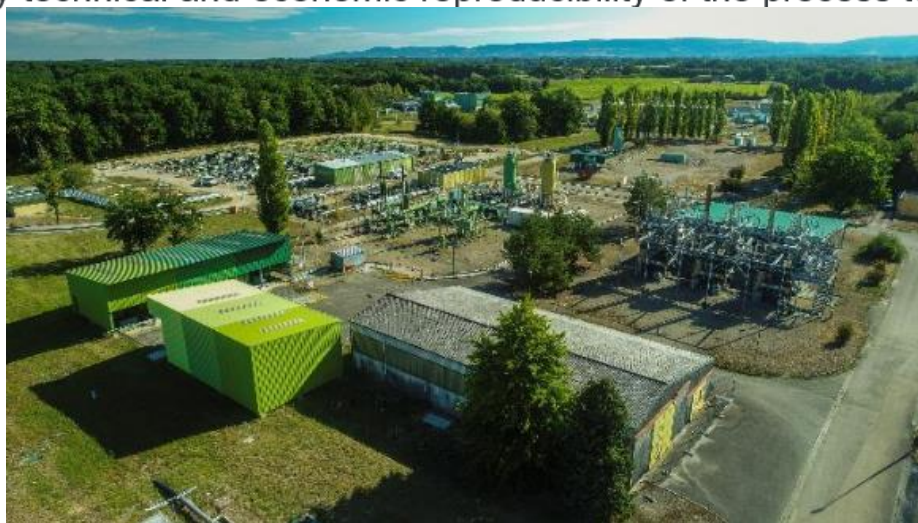


HyPSTER stands for Hydrogen Pilot Storage for large Ecosystem Replication

- Project start date: January 2021
- Location : Etrez (Ain 01) | France
- H₂ Production: Electrolyzer (1 MW)
- Storing capacity: 3 tons H₂ (exp. phase)
- Total budget: 13 M€ (5M€ funding)
- End of the Pilot Phase: 2024
- Perspective Phase II: 44 tons H₂ (2025)

Description: Test industrial-scale renewable hydrogen production and storage in salt caverns supported by technical and economic reproducibility of the process to other sites throughout Europe.



9 partners, 4 countries



Consortium Partners

H₂ & Subsurface expertise



Regulation & Safety



Storage replication potential



Technical and economic assessments



Bacteriology Purification



Communication



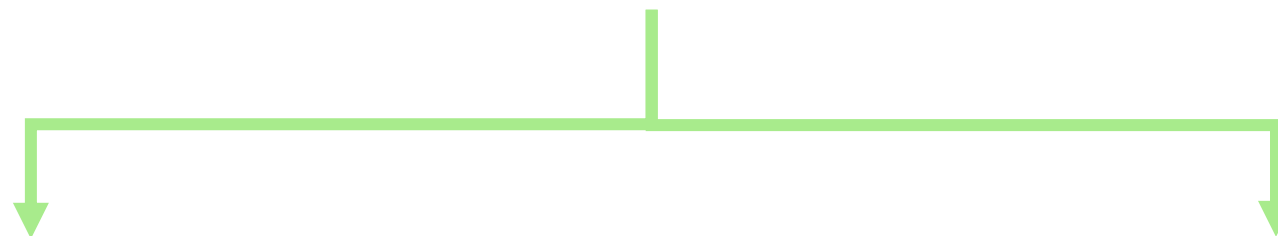
Coordination



2 Strategic partnerships



HyPSTER project is divided into two parts



Renewable Hydrogen Production

- **Electrolyzer 1MW**
- **Water**
- **Electricity**
- **Hydrogen transportation by tubes trailers**

Pilot of Hydrogen Storage in salt cavern

- **Use of an existing cavern**
- **Tightness tests**
- **Pressure variation cycles**

Situation map: Etrez UGS

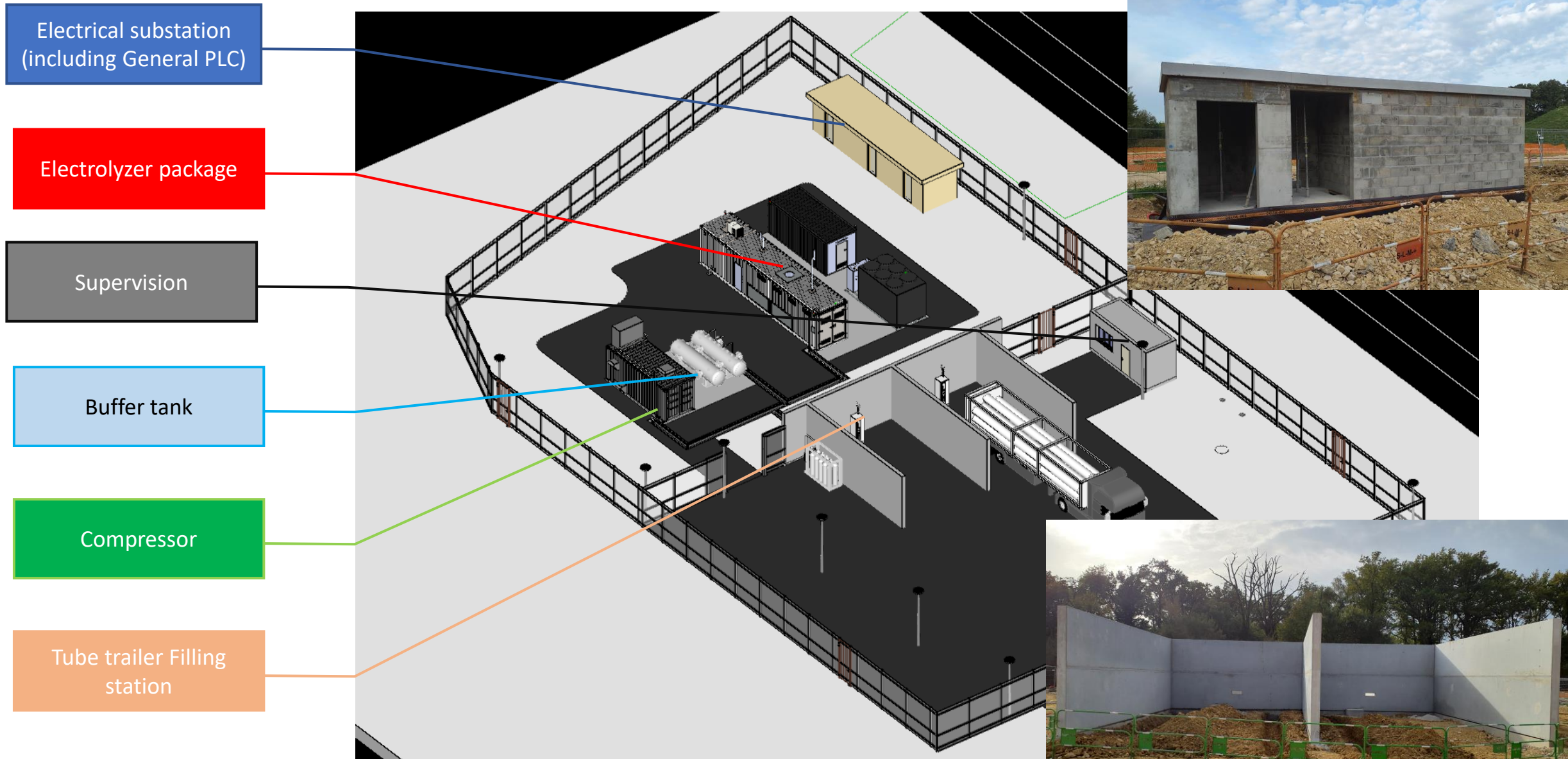
Etrez NG Storage facilities

Planned H₂ Production Platform

EZ53 Cavern Platform

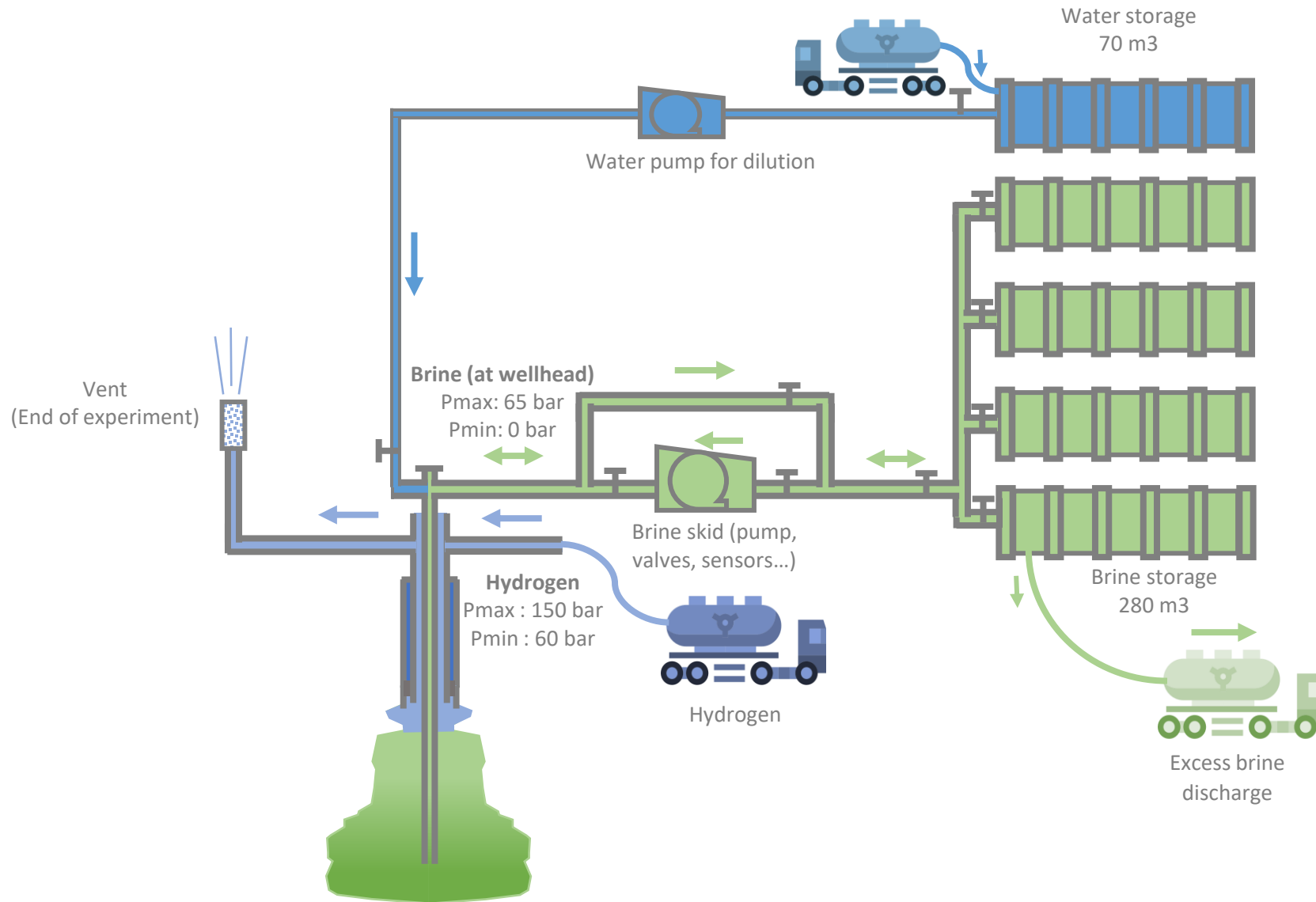


Detailed Design – 3D layout

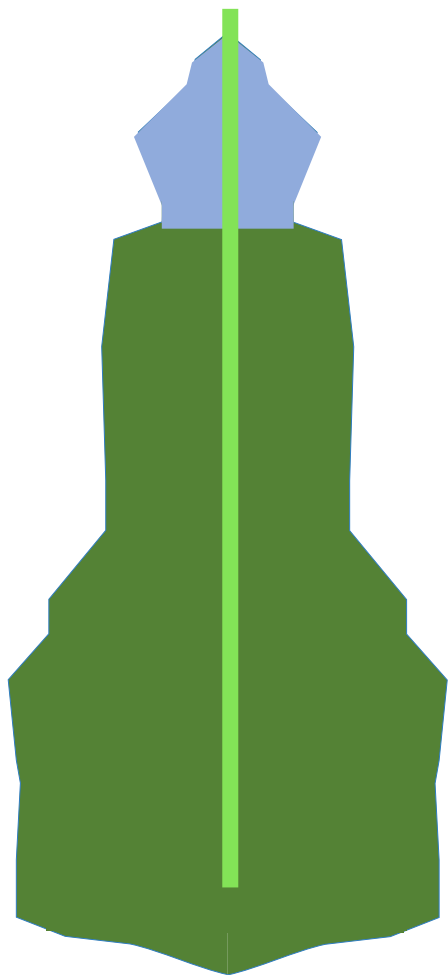




EZ53 platform: principle diagram



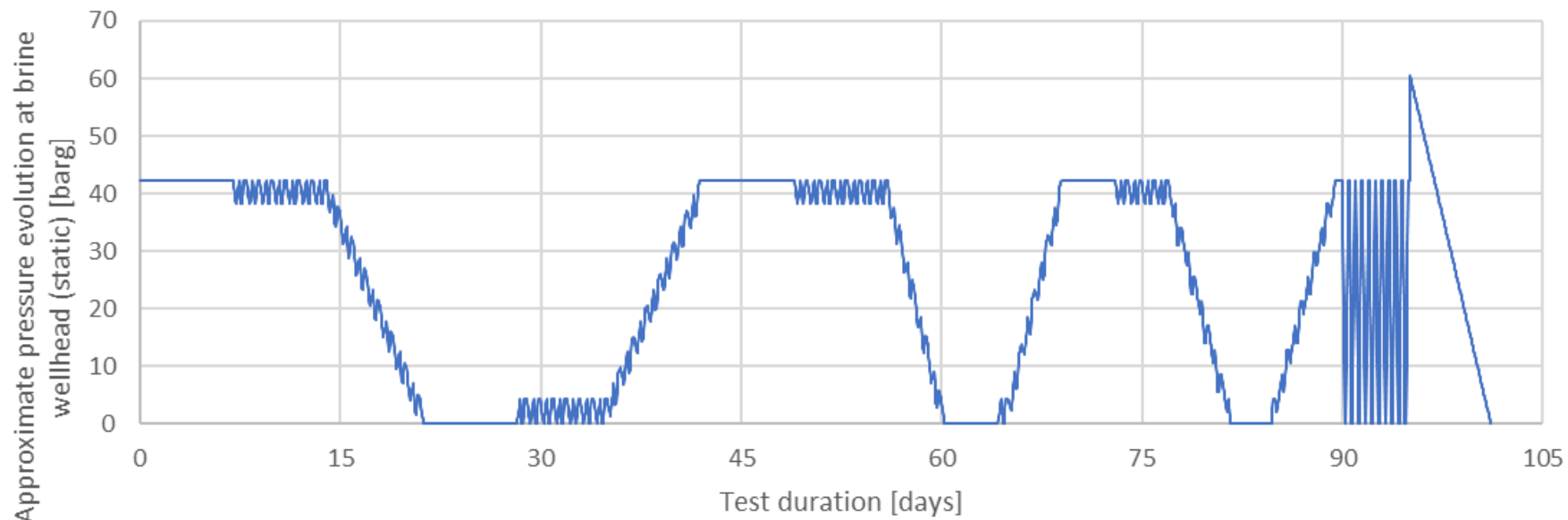
Cycling tests



Brine

H₂

Cyclic test program



Cyclic test program

