

# **BluEnergy Revolution + EVELIXIA**

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## Who are we?

- BER is an Italian worker's cooperative dedicated to the development of engineering solutions involved with the complete H2 lifecycle
- Founded in 2015
- Develops products in the electrolyser, storage, and fuel cell market



Who are we?



Metal hydride storage



Marine applications



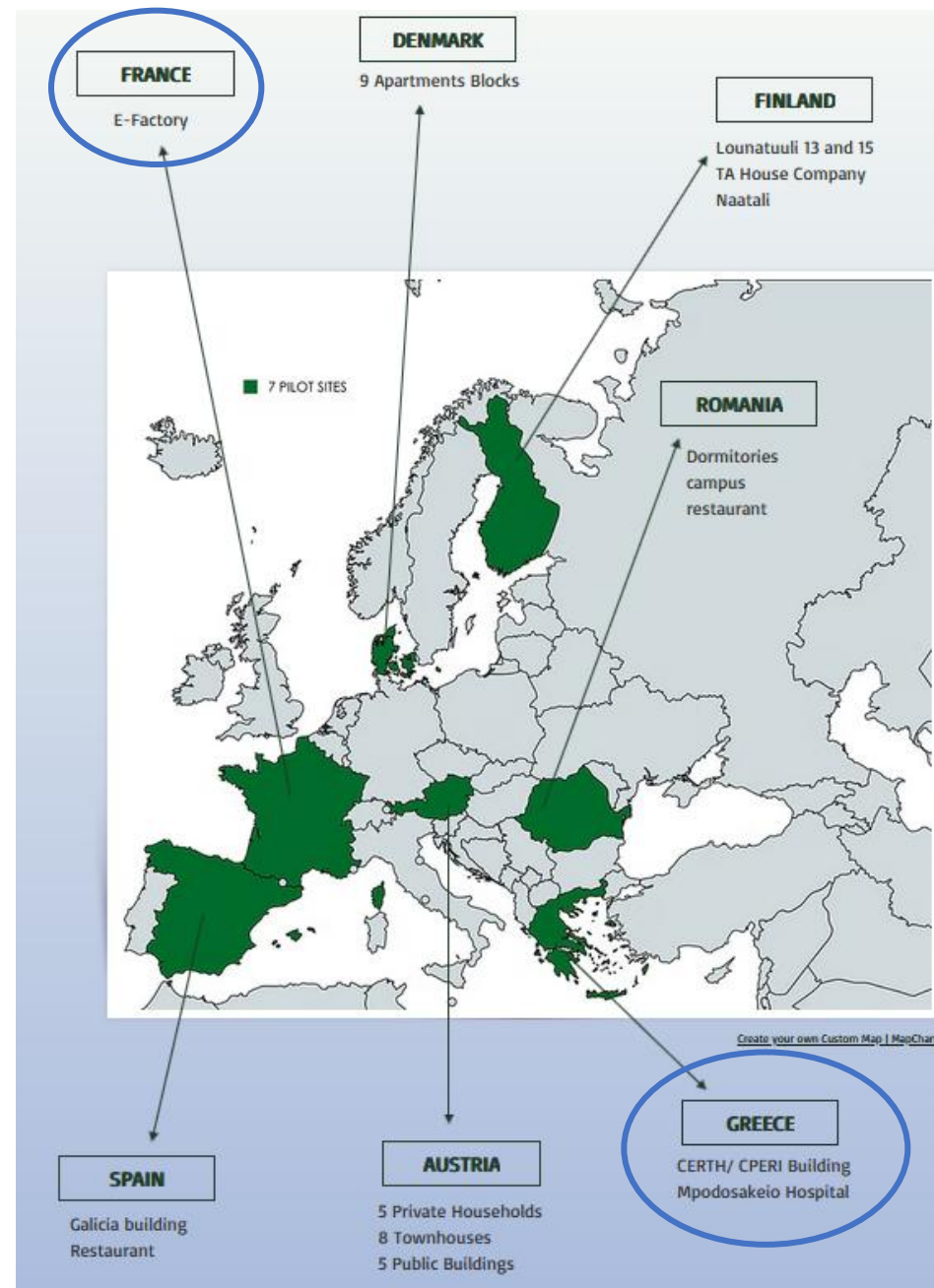
## The EVELIXIA project

- Demonstrates energy-efficient, smart, and flexible buildings through seven pilot projects.
- Enables building-to-grid and grid-to-building services with cross-sector data exchange.
- Empowers citizens as co-creators through strong social engagement strategies.



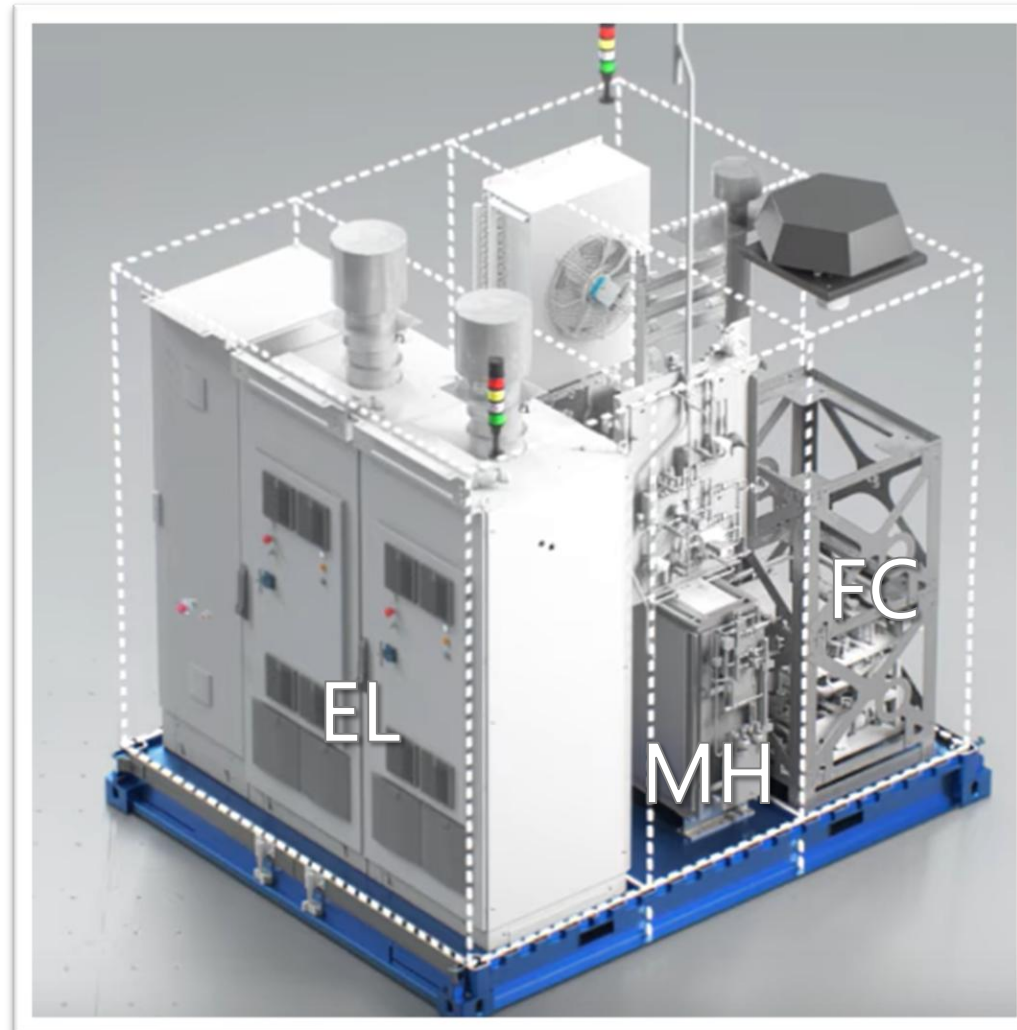
## Pilot sites

- 7 pilot sites across the EU
- Dedicated to smart building integration, novel storage systems, demand monitoring and planning, load shedding
- Hydrogen specific sites: France and Greece



## BER's role in EVELIXIA

- Delivery of a novel hydrogen energy storage system: the **Energy Pack**
- The EVELIXIA pilot-scale system, contains
  - 7kW **EL**
  - 3kgH2 **MH**
  - 10kW **FC**
- The system can be scaled up to
  - 28kW **EL**
  - 40kgH2 **MH**
  - 30kW **FC**



**System videos**



## BER's role in EVELIXIA

- The system will provide extra energy storage for the CERTH research centre in Ptolemaida
- The building currently has **20kW of PV** and a **battery storage system**
- The Energy Pack charges the existing batteries directly



**System videos**

## BER's role in EVELIXIA

- We've represented the project in multiple trade fairs across Europe



*Hannover Messe, April 2025*

## *Piacenza Hydrogen Expo, May 2025*





## Next steps

- The system has been shipped and should be installed during this summer
- The EVELIXIA platform will be integrated in the coming year



# Thanks for listening!

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