

SINNOGENES



Enable the grid integration of innovative storage solutions beyond the state-of-the art

In SINNOGENES participating **27 partners** from Portugal, Spain, France, Belgium, Luxembourg, Germany, Greece, Italy, Cyprus and Switzerland. It includes **6 demonstration sites** in **5 different European countries**. The proposed energy toolkit (SINNO) will be tested in different environments and demand sectors.

SINNOGENES

Storage INNOvations for Green ENERGY Systems

This project focuses on developing a complete framework of methodologies, tools and technologies (SINNO energy toolkit) that will assist the transition to clean energy by providing innovative and interoperable energy storage solutions and flexible power generation for accelerating decarbonization of industry, transport and geographical islands, while ensuring compatibility with flexibility market requirements

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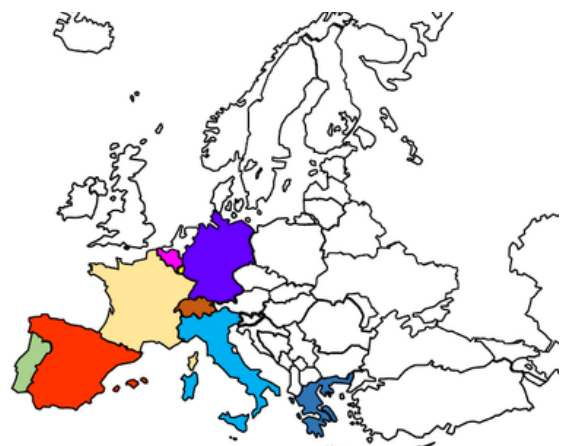
Storage INNOvations for Green ENERGY Systems.



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Partners



Meet our demos

- Demo site #1: Maia, Portugal, Industrial Park 
- Demo site #2: Soria, Spain, Microgrid Facility 
- Demo site #3: Huesca, Spain, Walqa Technology Park 
- Demo site #4: Herzberg, Germany, Sanddorn production site 
- Demo site #5: Ikaria, Greece, Hydro-Pumped storage plant 
- Demo site #6: Geneva Canton, Switzerland, Public Transport services 

Electrical, mechanical, electrochemical, and thermal storage are demonstrated in the pilots, in various configurations.

Technical description and implementation

SINNOGENES will exploit the benefits that each innovative storage technology offers, to provide a portfolio of flexibility services encapsulating the following aspects:

- Types of flexibility services: Peak-shaving, Fast Frequency, Regulation, black start, energy arbitrage, congestion relief, dynamic regulation
- Time horizon: Short-term (Intra-day, Real-time), Medium-term (Day-ahead to Week-ahead), Long-term (Planning)
- Procured by: System operators (DSOs, TSOs)
- Offered by: Microgrid Operators, Facility Owners, Energy communities
- Cross-energy carriers: electricity coupling with Heating and Cooling, and hydrogen.

