



EMPOWERING GREEN ENERGY WITH INNOVATIVE STORAGE SYSTEMS



The Horizon Europe Energy Project, i-STENTORE – innovative Energy Storage TEchnologies TOwards increased Renewables integration and Efficient Operation, will examine the integration of diverse storage solutions and their combinations in various applications covering mobility, agricultural, industry, household, heating and other sectors.

The overall i-STENTORE framework will be applied, implemented, and validated in 5 real-life demos, and 1 Living Lab, across 6 countries:

Demo 1 **Slovenia**
Molten glass thermal storage for an increased uptake of renewable electric energy

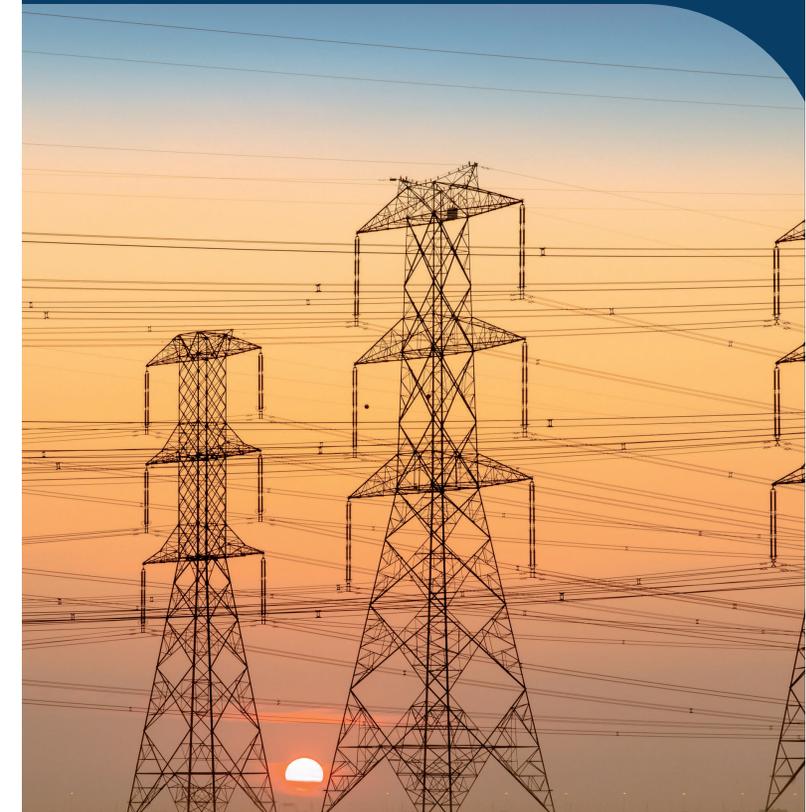
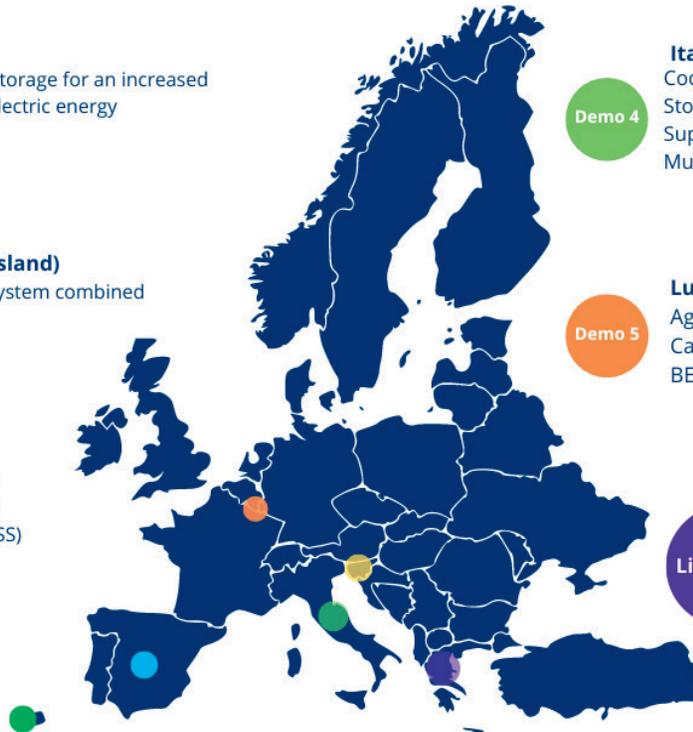
Demo 2 **Portugal (Madeira Island)**
Pump hydro Storage system combined with BESSs in Madeira

Demo 3 **Spain**
Virtual Energy Storage System for Renewable Energy Integration (VESS)

Demo 4 **Italy**
Cooperative modular Multi Hybrid Energy Storage Systems based on Hybrid SuperCap/ Li-NMC batteries for Smart DC Multi Grids of E-mobility Service

Demo 5 **Luxembourg**
Agri-PV Farm with Energy Storage Capabilities based on Hydrogen and BESS Technologies

Living-Lab **Greece**
"Agkistron" Energy Park



innovative Energy Storage TEchnologies TOwards increased Renewables integration and Efficient Operation



“The contribution of i-STENTORE project to the future energy market configuration is central and will help green energy to firm its expression globally, by generating a greater efficiency.”

Nikolaos Bilidis, i-STENTORE Project Coordinator



PROJECT OBJECTIVES



Examine the integration of diverse storage solutions and their combinations



Examine the applicability of versatile storage solutions in mobility, agriculture, industry, household, heating and other sectors



Promote the introduction of novel business models for the widespread deployment of single and hybrid energy storage systems, facilitating the participation of storage assets in energy markets



Facilitate investment planning on energy storage facilities, strengthen and expand the technological European Value Chains on Energy Storage



i-STENTORE UNLEASHES INNOVATION IN STORAGE SYSTEMS FOR A GREENER FUTURE

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