

#CE4EUislands – Workshop: Energy Storage opportunities for EU Islands: about batteries and beyond

16th May 2025 | 08:30-15:30 | Sao Miguel, Azores | Portugal

Energy Storage is a key technology for facilitating renewable penetration and smart management of energy on both interconnected and non-interconnected islands

Abstract

As islands transition towards renewable energy, energy storage plays a crucial role in managing intermittency and ensuring grid stability in insular contexts. In this workshop there will be the chance to hear about groundbreaking technologies and real-world implementations of energy storage solutions, with a focus on identifying challenges and obstacles to the deployment of energy storage in both grid connected and non-interconnected EU islands, exploring cutting-edge storage technologies and sustainable integration business and regulatory models.

Workshop intention

From the point of view of the organisers, this workshop aims to inspire participants to evaluate and explore energy storage solutions (not only battery) as key technological paradigm for the decarbonization of their island. Sharing some lessons learnt about different energy storage solutions and from different type/size of islands, this workshop will be a moment of inspiration and capacity building for different type of islanders and stakeholders

What is your intention for participating?

Desired outcomes

From the point of view of the organisers:

- **Getting acquainted to “why island needs storage” not only looking at higher RES penetration:** Participants will gain a deeper understanding of which type of services and support to decarbonization storages can provide
- **Storage technology overview:** The workshop will introduce different type of energy storage technologies used in different type/size of islands in order to be “source of inspiration” for new investigations and project ideas all around Europe
- **Experience exchange:** The workshop will offer a platform for participants to share ideas, case studies, successes, challenges and lessons learned, fostering collaboration for overcoming common challenges related to storage integration on island.

What is your desired outcome as a participant?

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Agenda

Friday 16th May 2025

Coffee & Networking 08:30 – 09:00	
INTRODUCTION SESSION 09.00 – 10.15	
09:00 – 09:10 AZOST Local time (CEST-2)	Welcome and Introduction of the Workshop <i>Martina Cannata, Clean energy for EU Islands Secretariat (3E)</i> <i>Stefano Barberis, Clean energy for EU Islands Secretariat (BER)</i>
09:20 – 09:25 AZOST Local time (CEST-2)	Keynote Speech: the role of Storage in EU Energy transition and on EU Islands <i>Aurelien Ballagny, Energy Storage Coalition</i>
09:25 – 09:45 AZOST Local time (CEST-2)	Ice Breaking Session 1: Why are we here? What do we expect from this workshop? Round of introductions by all participants and introduction by the Secretariat <i>All participants - Facilitator: Clean energy for EU Islands Secretariat BER</i>
09:45 – 10:00 AZOST Local time (CEST-2)	Introduction to Energy Storage Technology and islands' grid stability needs favored by storage Objective: To introduce the technological topic and purpose of the event <i>Speaker: Carlos Moreira, Clean energy for EU Islands Secretariat (INESC TEC)</i>
10.00 – 10.15 AZOST Local time (CEST-2)	Interactive Session 1 Which is the best storage technology for EU islands? Interactive poll and collection of inputs. <i>All participants - Facilitator: Stefano Barberis, Clean energy for EU islands secretariat (BER)</i>
Lessons learnt and experiences from not Connected islands <i>Facilitator: Petros Markopoulos (Clean energy for EU Islands Secretariat, DAFNI)</i>	
10.15 – 10.30 AZOST Local time (CEST-2)	Azores experience: battery and EVs <i>Speaker: Fernando Henrique (EDA)</i>
10.30 – 10.45 AZOST Local time (CEST-2)	Madeira experience: battery and pumped hydro <i>Speaker: Diogo Vasconcelos (EEM)</i>
10.45 – 11.00 AZOST Local time (CEST-2)	Greek islands experience: batteries and pumped hydro <i>Speaker: Despoina Koukoura, Stefanos Kokkinelis (HEDNO)</i>
11.00 – 11.15 AZOST Local time (CEST-2)	Open Debate and discussion on Challenges and Opportunities

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	Facilitator: <i>Petros Markopoulos & Kostas Komninou Clean energy for EU Islands Secretariat (DAFNI)</i>
Coffee break 11:15 – 11:45 AZOST Local time (CEST-2)	
Lessons learnt and experiences from Inter-Connected islands Facilitator: <i>Lorenzo Di Fresco, Clean energy for EU Islands Secretariat (BER)</i>	
11.45 – 12.00 AZOST Local time (CEST-2)	Saaremaa and Ruhnu experience from Estonia Speaker: <i>Raimet Figol, Mayor of Ruhnu Municipality</i>
12.00 – 12.15 AZOST Local time (CEST-2)	The Regulator experience in planning for the integration of energy storage in the Greek interconnected islands Speaker: <i>Dr. Dionysios Papachristou (RAEEY)</i>
12.15 – 12.45 AZOST Local time (CEST-2)	Open Debate and discussion on Challenges and Opportunities Facilitator: <i>Lorenzo Di Fresco Clean energy for EU Islands Secretariat (BER)</i>
Lunch Break 12:45 – 14:00 AZOST Local time (CEST-2)	
Energy storage opportunities for islands: not only batteries! Facilitator: <i>Enrico Giglio, Clean energy for EU Islands Secretariat (POLITO)</i>	
14.00 – 14.15 AZOST Local time (CEST-2)	Thermal Energy Storage opportunities on Island: from distributed thermal batteries to centralized large TES for DHN and Carnot Batteries Speaker: <i>Stefano Barberis, Clean energy for EU Islands Secretariat (BER)</i>
14.15 – 14.30 AZOST Local time (CEST-2)	The ALCHEMHYST Project in Corsica Speaker: <i>Tanguy Le Coz, CORSICA SOLE</i>
14.30 – 14.45 AZOST Local time (CEST-2)	A case study on decarbonizing an island using a large-scale subsea hydrogen storage Speaker: <i>Andreas Løvli, TechnipFMC</i>
14.45 – 15.15 AZOST Local time (CEST-2)	Open Debate and discussion on Challenges and Opportunities Facilitator: <i>Enrico Giglio, Clean energy for EU Islands Secretariat (POLITO)</i>
15:15– 15:30 AZOST Local time (CEST-2)	Participatory check-out from the workshop - Lessons learnt and final remarks <i>Martina Cannata, Clean energy for EU islands secretariat (3E)</i> <i>Stefano Barberis, Clean energy for EU islands secretariat (BER)</i>