

HYDROGEN TECHNOLOGIES: PRODUCTION, STORAGE AND UTILISATION IN REMOTE ENERGY SYSTEMS

10 April 2026 | 10:00-12:00

Abstract

In recent years, hydrogen has attracted significant attention as a key pillar of the energy transition, generating high expectations for its large-scale deployment. Recently, however, its role has been reassessed, raising questions about where and under what conditions hydrogen can deliver value. This workshop offers a critical overview of recent developments in the hydrogen sector, helping to distinguish policy ambitions from technical and economic realities. Particular attention is given to island contexts, where hydrogen can play a strategic role in decarbonizing maritime transport and providing long-duration energy storage. This addresses key challenges faced by isolated, non-interconnected energy systems. Drawing on European experiences and practical case studies, the workshop will explore concrete opportunities, limitations, and replicable approaches for integrating hydrogen into island energy systems.

Agenda

10:00 – 10:15	Introduction and presentation of the agenda
10:15 – 10:45	The hydrogen dream of early 2020: are we waking up? <i>An overview of recent developments in the hydrogen sector, which policies have been adopted and what are the key bottlenecks. A session aimed at clarifying expectations and realities.</i> Stefano Barberis, <i>Blue Energy Revolution</i>
10:45 – 11:15	Hydrogen opportunities in island contexts <i>Technical panel on key opportunities and potential roles of hydrogen in island energy systems, focusing on long-duration renewable energy storage and local transport.</i> Lorenzo Di Francesco, <i>Blue Energy Revolution</i> Ugo Toić, <i>Cres Island</i>
11:15 – 11:30	European experiences and success stories <i>Case studies and practical examples from across Europe highlighting successful hydrogen initiatives, lessons learned, and replicable approaches for island territories.</i> Ana María Acín, <i>Fundación del Hidrógeno de Aragón (FHA) - “GreenHySLAND” Project</i>
11:30 – 12:00	Q&A session