



WEBINAR SERIES

JUNE 2026

10 am - 11:30 am CEST

Unlocking the potential of renewables in Europe:

Securing and sustaining electricity production with hybrid renewable energy systems.

2 JUNE . Developing technologies
16 JUNE . Supporting decision-making
30 JUNE . Turning into practice

Join us for three expert-led webinars showcasing how small-scale hybrid renewable energy solutions are helping build smarter, more resilient energy systems across the Atlantic Region. HY4RES project develops hybrid systems that combine multiple renewable sources – including wind, solar, hydropower and biomass – with storage and intelligent management technologies, to ensure reliable, affordable and sustainable electricity supply. Explore how these innovations are being applied in real-world contexts, from agriculture and aquaculture to port operations and energy communities, and hear from the researchers and practitioners advancing this transition.

Language: English (transcriptions available in multiple languages)



www.hy4res.eu

■ Programme →

2 JUNE. Developing technologies

10 am – 11:30 am CEST

As extreme weather intensifies and geopolitical pressures grow, Europe faces rising challenges in securing a resilient and sustainable energy system. In this context, HY4RES is developing new hybrid renewable energy technologies to increase the share of renewables in the European energy mix. Affordable, scalable, and environmentally responsible, these technologies can help cut CO₂ emissions while fostering local and reliable electricity production for various end-users.

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Speakers



Laure Martin Poisson
Vertigo Lab

The integration of hybrid renewable energy systems within the EU: context and policy challenges.



Rodolfo E. Valdés
University of Oviedo

Portable hybrid renewable energy generation system.



Aonghus McNabola
RMIT University/Trinity College Dublin

Introduction to the HY4RES project: developing interoperability between multiple energy sources.



Naufal Riyandi
Trinity College Dublin

Fish-friendly pump-as-turbine: Enabling the energy transition while preserving river connectivity.

Moderator



Paul Coughlan
Trinity College Dublin

16 JUNE. Supporting decision-making

10 am - 11:30 am CEST

Managing renewable energy systems requires navigating complex operational choices, from production variability to evolving user needs. Find out how HY4RES is advancing new tools to support these decisions, including advanced forecasting software powered by big-data and AI to anticipate energy production and demand, and a multidimensional sustainability analysis assessing economic, environmental, and social performance. Insights from the Irrigation Community of the Valle Inferior del Guadalquivir, home to one of HY4RES' hybrid renewable energy systems, will illustrate these developments in practice.

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Speakers



Manuel L. Zambrano

Irrigation Community of the Valle Inferior del Guadalquivir

Improving energy efficiency in agriculture: insights from a Spanish Irrigation Community.



Rita Aparici Quiñones

Easy Hydro

Solutions for predicting renewable energy generation.



Mariana A.I. Bernabé

University of Cordoba

A transformer-based model for energy demand forecasting across heterogeneous end-users.



Théo Breidenstein-Jullien

Vertigo Lab

Measuring what matters: Supporting decision-making through holistic impact assessment.

Moderator



John Gallagher

Trinity College Dublin

30 JUNE. Turning into practice

10 am – 11:30 am CEST

This third and final HY4RES webinar will bring together the Interreg Atlantic Area Programme and sister projects ENEPORTS and SATCOMM to discuss how hybrid renewable energy systems can be scaled up. The session will explore how to navigate local and regulatory constraints and how innovative solutions can be adapted to meet these challenges. Participants will hear lessons from the four HY4RES pilot sites – in Ireland, Spain and Portugal – covering agriculture, aquaculture, port and community energy, highlighting what it takes to design and scale hybrid systems that respond to local needs.

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Speakers



Rodolfo E. Valdés
University of Oviedo



John Gallagher
Trinity College Dublin



Helena Ramos
Instituto Superior Técnico



Jorge G. Morillo
University of Cordoba

Demonstrating hybrid systems in agriculture, aquaculture, ports and community energy settings: key learnings from HY4RES project.



Carlos G. Lodeiro
Interreg Atlantic Area

Achieving EU carbon neutrality targets: contributions of the Interreg Atlantic Area programme.



Samuel Ormaechea
ITG

Administrative regime and technological impacts in areas under the responsibility of Port Authorities.



Sean Lyons
Walton Institute

SATComm: Developing technologies to enable Energy Communities.

Moderator



Alexandre Morin
Association of the Chambers of Agriculture of the Atlantic Area (AC3A)