

## Press Release:

# Launch of EU-Funded INTELLIGENT Project to Advance Open Source Local Energy Trading & Sharing Technology

**February 5<sup>th</sup>, 2025 (online)** – A new Horizon Europe project, **INTELLIGENT**, brings together fifteen partners from nine European countries to address the technological challenges of local energy and flexibility trading and sharing.

The three-year project, whose full title is **Interoperable Tools for Network-Aware, Ledger-Based Local Energy Sharing and Flexibility Management Leveraging User Engagement**, aims to advance peer-to-peer (P2P) energy trading technology, making it more accessible, secure and efficient. Its end goal is to bring economic and environmental benefits for citizens, while supporting grid operators to better address grid stability and congestion.

Currently, grid operators lack the tools to manage distributed energy resources effectively, and citizens are not equipped to actively participate in energy markets. The INTELLIGENT project will provide advanced, open source P2P technology and demonstrate its advantages to encourage EU member states to enable more advanced local energy sharing and trading mechanisms. Currently, only limited community trading schemes are allowed and communities tend to be overly dependent on their asset installers. INTELLIGENT's comprehensive P2P trading infrastructure includes interoperable decentralised energy exchange components, secure data exchange and optimised trading and flexibility management for citizens, other local stakeholders and grid operators. The project leverages and extends the capabilities of the GSY DEX, Grid Singularity's open-source P2P exchange software, which employs blockchain technology to enable grid-aware, secure and automated exchange while fully accounting for network constraints.

The solutions developed within the INTELLIGENT project will be tested in four pilot locations: CELL – Collaborative Energy Living Lab (Switzerland), LIC – Lugaggia Innovation Community (Switzerland), Bicesse Kindergarten and Feirense Football Stadium (Portugal) and the Aran Islands energy community (Ireland).

The project consortium is made up of diverse partner organisations, including leading R&D centres and universities, SMEs, NGOs, public bodies, distribution system operators and local energy communities.

INTELLIGENT is funded under the EU's Horizon Europe open call dedicated to sustainable, secure and competitive energy supply. The Granting Authority for this project is European Climate, Infrastructure and Environment Executive Agency (CINEA) under the European Commission and it is co-funded by the Environment Executive Agency and State Secretariat for Education, Research and Innovation (SERI) from Switzerland.

## GENERAL INFORMATION

Duration: 36 months | Starting date: December 1, 2024

EU funding: EUR 4,999,422.50 | Grant agreement no: 101160678

Topic: HORIZON-CL5-2023-D3-03-05 | Type of action: Horizon Innovation Action

Coordinator: R2M Solution Spain SL

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### INTELLIGENT Consortium

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