

Dear {{ contact.FIRSTNAME }},

Welcome to the third issue of the U2Demo project newsletter!

Over the past months, the project has continued to build momentum across Europe. From new research on energy sharing and flexibility markets to stakeholder engagement activities, webinars, and major European events, U2Demo is further strengthening the foundations for scalable and citizen-centred energy sharing solutions.

In this issue, we look back at key project milestones, share insights from our latest webinars, and introduce new resources that make it easier than ever to explore U2Demo's knowledge and results.

Thank you for following our journey towards a more participatory, fair, and resilient energy future.



Editorial



A word from Anibal Sanjab, Principal Researcher at VITO

As Europe accelerates its energy transition, the focus is shifting from simply producing renewable energy to using it more intelligently. **Demand-side flexibility** is becoming a key part of this evolution, helping consumers reduce costs, support renewable energy integration, and contribute to a more resilient electricity system.

At the same time, energy systems are becoming increasingly decentralized. Assets such as **electric vehicles, batteries, and heat pumps** are creating new opportunities for citizens, businesses, and energy communities to actively participate in the energy market. Supported by digital technologies, these resources can provide flexibility services, optimize energy consumption, and enable local energy sharing.

However, unlocking this potential requires more than technology alone. It depends on the development of appropriate market frameworks, effective coordination between system operators, and tools that are accessible to end users.

This is where U2Demo contributes. By combining forecasting, energy sharing, and flexibility services within a common framework, the project aims to make participation in energy communities simpler, more transparent, and more rewarding. As the project moves towards its demonstration phase, these solutions will be tested in real-world settings across Belgium, Italy, Portugal, and the Netherlands.

We are excited to see these developments take shape and look forward to sharing the next results with you.



Project
Overview

From Research to Demonstration: U2Demo Reaches a Key Milestone

Following the successful completion of the project's first reporting period, U2Demo has reached an important milestone in its development. With **WP1 and WP2 now completed**, the project has established the regulatory, social, business, and methodological foundations needed to support innovative energy sharing and peer-to-peer trading solutions.

The focus has now shifted towards **integration, implementation, and demonstration preparation**. Across WP3 and WP4, partners are advancing the development of the open-source platform, forecasting tools, optimization models, flexibility mechanisms, and energy sharing algorithms that will form the core of the U2Demo ecosystem.



At the same time, work is progressing within **WP5** to prepare the demonstration sites for testing and validation. Partners are connecting data sources, aligning pilot requirements with technical developments, and preparing the deployment of project solutions in real-world environments across Europe.

As U2Demo approaches the halfway point, the consortium is increasingly focused on bringing together the project's technical, regulatory, and community-centred innovations to support the next stage of demonstration activities.

Explore All Work Packages



Progressing
Science

New Publications and Project Deliverables

A new scientific publication from the U2Demo project presents an advanced day-ahead optimization model for Renewable Energy Communities, showing how smart coordination of flexible demand, electric vehicles, and vehicle-to-grid technologies can increase self-sufficiency and reduce energy costs.

[Read more about the publication here.](#)

In addition, U2Demo has published its **first set of public deliverables**, covering energy-sharing regulation, consumer participation, market design, platform architecture, cybersecurity, data privacy, and other key project foundations.

Explore all Deliverables

From Concept to Conference: U2Demo Research on Stage



In June 2026, U2Demo was featured at [CIRED 2026](#), where Diogo Ferreira (pictured on the right) from [INESC-ID](#) presented a poster on PyECOM Frontend – Assessment of Algorithms for Energy Communities. The work introduced a new web-based, no-code interface for the PyECOM platform, making advanced energy community optimization tools more accessible to practitioners, policymakers, and community stakeholders. [Read the full story on our website.](#)



In June 2026, U2Demo contributor Aníbal Sanjab ([VITO](#)) presented research at the [Power Systems Computation Conference \(PSCC 2026\)](#), on the growing need for coordination between Transmission System Operators (TSOs) and Distribution System Operators (DSOs). The paper explored how flexibility from distributed energy resources, such as electric vehicles, storage systems, and demand-side assets, can be effectively managed across voltage levels to support a more resilient and efficient electricity system. [Read the full story on our website.](#)



Meet our
Partners

Building the Digital Backbone for Energy Sharing



Reliable digital infrastructure is essential for transparent and trustworthy energy sharing. In U2Demo, [Exaion](#) and [Energy Web](#) contribute their expertise in blockchain technologies, digital platforms, traceability, and interoperability, helping create the secure and scalable foundations needed for next-generation energy communities.

“

The logo for exaion, featuring the word "exaion" in a lowercase, sans-serif font. The "e" is stylized with a horizontal line through it.

Through U2Demo, Exaion contributes its expertise in blockchain infrastructure and open-source development to build resilient platforms for local energy communities. We are developing a platform based on Energy Web technologies to support fair, inclusive access to low-carbon energy and help accelerate Europe's transition to decentralized, transparent, and citizen-driven energy systems.



Fatih Balyeli
Co-Founder & CEO



U2DEMO

”

“



energy web

U2DEMO is a great opportunity to demonstrate how Energy Web's Digital Spine can act as the secure, interoperable data backbone for next-generation energy services. By enabling P2P trading, grid forecasting, and consumer interfaces in one unified architecture, we can turn innovative pilots into scalable, real-world solutions. This is exactly the kind of collaboration that moves the energy transition forward.



Ed Hesse
CEO



U2DEMO

”

Meet Our Partners



Energy Sharing Models & Flexibility: Insights from the Second U2Demo Webinar

In March 2026, U2Demo and project partner **VITO** hosted the second webinar in the **U24U series**, bringing together experts from across Europe to explore how different energy sharing models and flexibility mechanisms can support the development of energy communities.

The webinar examined a range of approaches, from internal pricing and auction-based systems to fully decentralized peer-to-peer trading models, highlighting that there is no one-size-fits-all solution. Using the **Scheveningen living lab** as a case study, speakers demonstrated how energy sharing can increase self-consumption, reduce costs, and create new revenue opportunities through flexibility services.

A key takeaway was that successful energy sharing depends not only on technology, but also on market design, governance, fairness, and user engagement.

Missed the webinar? Rewatch the session and explore additional expert insights, presentations, and recordings via our new **Webinars & Insights** page. You can also subscribe to the official **U2Demo YouTube channel** to stay up to date with future webinars and project updates.

[Explore our Webinar Hub](#) and [Subscribe on YouTube](#).

U2Demo's General Assembly Karlsruhe

On 28–29 April 2026, the U2Demo consortium gathered in **Karlsruhe, Germany**, for its latest General Assembly, hosted by [EIFER](#). Partners reviewed progress across the project and shared updates on the development of P2P energy sharing tools, optimization models, forecasting solutions, and market mechanisms.

The meeting also **focused on platform integration, Digital Spine development, and the progress of pilot activities across Europe**. As U2Demo approaches the halfway point, the discussions highlighted the project's steady transition from research and design towards real-world implementation and demonstration. [Read the full story here.](#)



U2Demo at the BRIDGE General Assembly 2026

U2Demo took part in the [BRIDGE General Assembly 2026](#), joining Horizon Europe projects and energy experts to discuss key topics shaping the clean energy transition, including flexibility, digitalization, interoperability, and citizen engagement. Participation in the BRIDGE ecosystem helps U2Demo strengthen collaboration, exchange knowledge, and contribute to future policy and market discussions around consumer-centred energy sharing. [Read the full story here.](#)



U2Demo in the Energy Debate

Following [ENLIT Europe 2025](#), Project Coordinator **Hugo Morais** ([INESC-ID](#)) joined the ENLIT podcast to discuss how Horizon Europe projects such as [U2Demo](#), [EV4EU](#), and [SHIFT2DC](#) are helping turn innovative pilot projects into

practical, scalable energy solutions. The conversation highlighted the key role of digitalization in enabling smarter energy systems and explored how user-centric approaches can accelerate the adoption of technologies that benefit both citizens and the grid. [Read the full story on our website.](#)

U2Demo was also featured in the Portuguese **Plug-IN podcast by Público**, where Hugo Morais discussed the future of direct current (DC) technologies alongside initiatives including SHIFT2DC, [SOLAR-MOVE](#), and EV4EU. The discussion highlighted how smarter integration of local generation, storage, and consumption can improve efficiency, support renewable energy uptake, and contribute to the next generation of European energy systems.

[Discover the conversation here.](#)

U2Demo at EUSEW 2026

In June 2026, several U2Demo partners contributed to discussions at **European Sustainable Energy Week (EUSEW) 2026**, Europe's leading event on renewable energy and energy efficiency. **Steven Laurijssen** ([Klimaan](#)) shared insights on inclusive urban energy communities and citizen participation, while **Lucila de Almeida** ([Florence School of Regulation](#)) contributed to discussions on protecting vulnerable households throughout the energy transition. Together, these sessions highlighted the importance of ensuring that the energy transition remains both sustainable and socially inclusive. [Read the full story here.](#)



[Revisit Our Milestones](#)



[Next Events](#)

Save the date: U24U webinar #3

Blockchain & Traceability

9 October 2026 from 15:00 to 16:30 CEST (Brussels time) | Online

As energy systems become increasingly decentralized, blockchain technologies offer new opportunities for transparent and trustworthy energy transactions. Join us for the third U24U webinar to discover how traceability solutions can support the future of energy sharing and local energy communities.

[Learn more about the webinar on our website.](#)

Scientific Conferences and Workshops

- [CIGRE 2026](#) - August 23th to 29th in Paris, France
- [IAEE European Conference](#) - September 6th to 9th in Munich, Germany
- [FLEXCON 2026](#) - September 23th and 24th in Antwerp, Belgium
- [IEEE POWERCON 2026](#) - October 11th to 14th in Kota Kinabalu, Malaysia
- [IEEE SmartGridComm](#) - October 26th to 29th in Texas, USA
- [YEEES 38](#) - October 29th and 30th in Delft, The Netherlands
- [MEDPOWER 2026](#) - November 3th to 6th in Paphos, Cyprus



If you'd like to **stay informed** about U2Demo's progress, insights, and upcoming events, feel free to subscribe to the newsletter or **share it with others** who might be interested.

Subscribe here

U2Demo

Posthoflei 3 bus 3, 2600, Berchem

This email was sent to {{ contact.EMAIL }}

You've received this email because you've subscribed to our newsletter.

[Unsubscribe](#)

