



2nd NEWSLETTER | May 2025



The past six months have been exciting for the SynGRID project, marked by major milestones, collaborative achievements, and forward-looking initiatives. From the successful launch of the first SynGRID Summer School in Ljubljana to the General Meeting and Showcase Event in Athens, SynGRID continues to drive innovation and foster cross-border cooperation in the evolving energy landscape.

This newsletter edition brings you highlights from these events, insights into research and development, and stories of impactful collaboration across institutions.

— The SynGRID Team



Highlights from SynGRID Summer School 2025

The first SynGRID Summer School, held from May 12–16, 2025 at the [Faculty of Electrical Engineering, University of Ljubljana](#), was a resounding success! Centered on the critical theme **of flexibility in energy systems**, the program brought together over 20 participants from across Europe to explore innovative solutions driving the continent's energy transition.

Participants engaged with experts on topics including battery energy storage, demand-side flexibility, smart grids, energy communities, and regulatory frameworks shaping Europe's future energy landscape. The hands-on program featured lectures, workshops, and field visits to [ELES](#) and [NGEN](#), highlighting real-world applications of flexibility.

With overwhelmingly positive feedback, the event also fostered strong networking and cross-border collaboration. The next SynGRID Summer School will return in 2026!

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Athens Meeting Sets the Stage for SynGRID's Next Phase

In April the 3rd General Meeting of the SynGRID project convened at Impact Hub Athens, hosted by the Institute of Communication and Computer Systems (ICCS). Representatives from all partner institutions, including [IRI UL](#) and [Petrol](#) from Slovenia, Faculty of Electrical Engineering and Computing Zagreb ([FER](#)) and Faculty of Electrical Engineering, Computer Science and Information Technology Osijek ([FERIT](#)) from Croatia gathered for a full-day meeting to review project progress and chart the next steps.

The meeting provided a valuable platform for collaboration, where partners discussed ongoing research activities, the mapping of tools and best practices, and opportunities for future funding in sustainable energy and regional development.

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First SynGRID Showcase Unites Energy Stakeholders in Athens

On the **April 9**, the **first SynGRID Showcase Event** took place in **Athens, Greece**, bringing together key stakeholders from across the energy sector to discuss the challenges and opportunities of the ongoing energy transition.

The event welcomed representatives from major organizations, including [IPTO](#) – Independent Power Transmission Operator, [UBITECH ENERGY](#), [HEDNO S.A.](#) – Hellenic Electricity Distribution Network Operator, and [Collective Energy Cooperative](#).

Participants explored critical topics such as the integration of renewable energy sources, the operation of modern power grids, and the evolving regulatory landscape. The discussions underscored the role of **research, innovation, and cross-sector collaboration** in addressing these challenges and driving real-world impact.

The SynGRID Showcase highlighted the importance of collective efforts in advancing sustainable and resilient energy systems, positioning the project as a catalyst for positive change in Europe's energy landscape.

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In Conversation with ICCS: Reflections on the Showcase

Following the first SynGRID Showcase Event, we spoke with Alexandros Chronis, researcher from [ICCS](#), the event host, to hear reflections on the Showcase and SynGRID's broader collaboration.

Alexandros highlighted the Showcase's success in uniting partners and stakeholders, exchanging knowledge, and fostering potential collaborations. He also shared ICCS's role in developing SynGRID's assessment framework and driving capacity-building and knowledge transfer.



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SynGRID Supports Research Exchange for FERIT PhD Student

In **February and March 2025**, **Marina Dubravac**, a PhD student at [FERIT Osijek](#), completed a **five-week research exchange** at [IRI UL](#), supported by the **HRZZ Outgoing Mobility Programme** and facilitated through SynGRID. Her work focused on optimizing the planning and operation of distribution networks with a high share of active customers, those who both consume and produce energy. This exchange provided exposure to best practices, collaboration opportunities, and professional network growth, aligned with SynGRID's mission to support young researchers and innovation.

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SynGRID Partners Publish Research on Low-Voltage (LV) Network Optimization

FERIT Osijek researchers published a paper titled **“Co-Simulation Model for Determination of Optimal Active Power Filters Settings in Low-Voltage Network”**, featured in **Applied Sciences** (January 2025).

The paper introduces a co-simulation model combining optimization algorithms with network simulations, using **Particle Swarm Optimization (PSO)** to optimize APF settings in real-world radial low-voltage distribution networks. This method significantly improves power quality while considering technical and economic constraints.

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