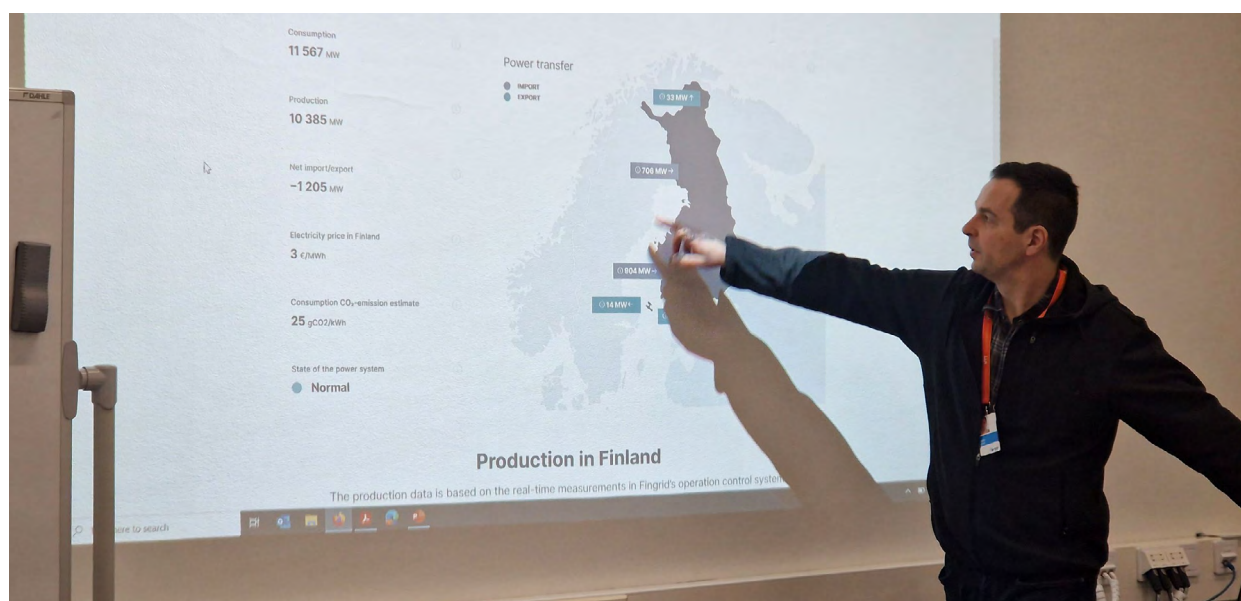


In this edition, we share key updates from our recent general meeting in Finland, highlight the visit to the innovative LEMENE energy community, and provide the latest insights from our pilot sites, including a new explainer video and an interview with a STREAM project member. Discover how STREAM continues to support Europe's transition to a smarter and more sustainable energy system.

## STREAM Project Showcases Innovative Tools for Sustainable Energy in Tampere

The STREAM project held its 6th General Meeting on March 4th and 5th, hosted by [VII](#) in Tampere, Finland. This productive gathering brought together partners from across Europe to highlight recent advancements and share key insights into the project's ongoing development.

Central to the meeting were presentations **showcasing innovative digital tools developed within each pilot site**, designed to enhance grid planning, optimize local energy markets, and boost flexibility forecasting and management. Participants explored a range of solutions including sGRID, sPLAN, sSMART, xFLEX, sENC, sFLEX, and the Device Registry. Each tool addresses specific challenges, contributing significantly to Europe's energy system transformation.



[read more](#)

## Project Partners Visit the LEMENE Lempäälä Energy Community

Partners from the STREAM project visited the [LEMENE Lempäälä Energy Community](#) in Finland to explore innovative and sustainable energy solutions. The visit, part of 6th general meeting offered valuable insights into a **highly integrated local energy system that combines a diverse range of technologies to enhance energy self-sufficiency and grid stability.**

The LEMENE project, managed by Lempäälän Energia, integrates solar power, fuel cell technology, BESS, CHP units, gas engines, and a large heat reservoir. This advanced setup enables effective energy storage both electrically (through the BESS) and thermally (via the heat reservoir), providing flexibility and resilience to the system. The ability to operate in island mode further strengthens the community's energy security, ensuring a continuous power supply even during grid outages.

A key insight from the visit was the challenge posed by national regulations, which currently prevent Lempäälän Energia from forming a formal energy community with local stakeholders in the nearby industrial zone. As a result, LEMENE focuses on district heating services and using its production capacity and storage across multiple balancing markets.



[read more](#)

## NEW VIDEO RELEASED: Discover the STREAM Device Registry!

A new explainer video is now available, showcasing one of the STREAM project's core innovations — the Device Registry!

As the energy landscape rapidly evolves with the rise of distributed energy resources such as solar panels, home batteries, EV chargers, and heat pumps, the need for smarter grid management tools is greater than ever. The Device Registry is designed to meet this need, providing crucial data to help Distribution System Operators (DSOs) and energy stakeholders plan and operate more efficiently.

Click here to watch the [video](#).

[Watch the Device registry video](#)

## FINNISH PILOT SITE: Unlocking Residential Flexibility for a Smarter Grid

The Finnish pilot is exploring **how smart energy use in homes and holiday buildings can support a more stable and efficient electricity grid**. Spread across several sites in Finland, the pilot includes seven residential buildings and three holiday resort buildings, together providing 58 kW of controllable heating.

This system including electric radiators and floor heating can automatically adjust the electricity use in response to changes in the grid, helping to balance supply and demand in real time. Since heating accounts for a large share of household energy use in Finland, it offers great potential for flexibility. The project examines both the technical and business feasibility of this approach, as well as how it affects comfort for residents. It also explores how consumer behaviour and smart technologies can work together to increase flexibility without compromising living comfort, and how this potential could support future electricity networks. With contributions from energy management company OptiWatti and research partner VTT, the pilot brings together innovation, real-world testing, and valuable insight into how everyday buildings can play a role in the energy transition.

You can read the full story and all the technical details [here](#).

[read more](#)



## INSIDE THE FINNISH PILOT: An Interview with Mr Bernardo Di Chiara

This edition features insights from **Bernardo Di Chiara, Project Manager at OptiWatti**. At the Finnish STREAM pilot site, he's leading efforts to explore how smart energy technologies can support a more stable and responsive power grid.

*“On the primary focus of the Finnish pilot site: “Our goal in the STREAM project is to create flexible energy solutions that help stabilize the grid. At our pilot site, we’re testing how the heating systems in residential and holiday buildings can be used as a Frequency Containment Reserve (FCR), supporting the grid’s stability during frequency disturbances. By utilizing flexible heating loads, we can respond in real-time to grid fluctuations, providing a valuable service to both the grid and customers.”*

Click [here](#) for the full interview, including insights on the project’s goals, challenges, and next steps.

## UPCOMING EVENTS

### 17th Slovenian Power Engineering Conference CIGRE-CIRED

We are pleased to announce that the University of Ljubljana (UL) will present the paper “Advanced operation and planning of electrical power distribution networks using flexibility” at the upcoming 17th Slovenian [Power Engineering Conference CIGRE-CIRED](#). The conference will bring together key stakeholders in the energy sector to discuss innovations, best practices, and future directions in power engineering.

Don't miss this opportunity to engage with experts and explore advancements in distribution network flexibility.



[learn more](#)



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