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The era of Digital Twins arrives: TwinEU project kicked off on 15-16 January 2024

One of the largest consortiums to date within the Horizon Europe framework – with 75 partners – has launched: TwinEU project kicked off on 15-16 January 2024 to create a concept of the Pan-EU digital twin of the electricity system.

TwinEU is a flagship project for the implementation of the EU Action Plan: Digitalization of the Energy System. Thus, it will leverage on a unique set of competences coming from grid and market operators, technology providers and research centres to create a concept of a **Pan-European digital twin** based on the **federation of local twins** so to enable a reliable, resilient, and safe operation of the infrastructure while facilitating new business models that will **accelerate the reaching the European net-zero climate targets.**

TwinEU will deliver a set of tools that will be **demonstrated in 8 pilots across 11 EU countries**, with the aim to ensure the replicability of the developed solutions in different geographical and market set ups testing a wide variety of use cases. This includes innovative tools and models for:

- improved physical and cyber **grid resilience**
- enhanced **observability** and **controllability**
- **advanced forecasting** for optimized market actions
- smart coordinated **planning**.

TwinEU will validate the developed framework and facilitate common practice among system operators, technology providers and market parties. The digital twinning is approached on multiple layers throughout the demonstrations in the field. Most demonstrations prove the urgent necessity of digital twins, which replicate the real grid and energy market behaviour.

To achieve these goals, **the consortium partners** – including TSOs, DSOs, market operators, IT and energy service providers, research institutions, universities and organizations such as ENTSO-E and CRESYM, **representing 15 countries** – will work for **3 years** together in an efficiently structured way, building on the developments of many previous projects of the Horizon-framework.

Follow the project for more information!

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