

Press release#3

## **Data-Driven Energy Transformation with the PISTIS project**

**Granada, Spain – Next autumn, the PISTIS project will unveil the alpha version of its secure and controlled platform designed for the exchange and utilisation of data assets and data-driven intelligence.** This groundbreaking platform is poised to revolutionise the energy sector and economy by optimising data storage and exchange processes, unlocking new opportunities for industry stakeholders.

The increasing digitisation of energy distribution networks has provided unprecedented insights into network conditions, particularly in previously overlooked low-voltage areas. This enhanced visibility highlights the need for more efficient network operation and management strategies. The PISTIS platform, with its robust data exchange capabilities, offers a transformative solution, enabling the energy sector to explore innovative business models such as demand-response, distributed energy resource integration, and peer-to-peer energy trading.

**CUERVA, a Spanish energy utility company acting as DSO in PISTIS participating in the PISTIS project, is enthusiastic about the platform's potential to reshape the energy landscape.** Pablo Blázquez, a smart grid engineer at Cuerva and coordinator of the Energy Demonstrator Hub in PISTIS, emphasises the platform's role in fostering collaboration among future flexibility market participants: *"PISTIS creates an environment for joint efforts and the development of our own test market within the project. By leveraging the platform's data processing and securitisation capabilities, we can assess the market's replicability and scalability while unlocking the true value of data."*

Other key players in the emerging energy markets, including market operator OMIE and aggregators like Bamboo Energy, are actively involved in the PISTIS project. Alongside CARTIF, an applied research center, they are collaborating to create a demonstration area for flexibility markets built upon the PISTIS platform to enable seamless data and information exchange.

Demand-side flexibility, which empowers consumers to adjust energy consumption based on market signals, is crucial for balancing supply and demand and reducing energy costs. This active consumer engagement aligns with Spain's National Integrated Energy and Climate Plan and the broader European Union energy goals.

The initial phase of the PISTIS project focuses on engaging stakeholders and gathering feedback to ensure the platform meets the necessary functionalities and regulatory standards. Also, in this first phase we have worked on adjusting the different use cases to the technological and regulatory realities, hoping to obtain the most replicable and scalable results possible, generating a real impact for the actors in the energy value chain.

### **PISTIS Empowers Data-Driven Innovation**

By harnessing innovative technologies, PISTIS enhances data sharing and monetisation, benefiting DSOs and facilitating their participation in flexibility markets. The platform offers AI-driven data

quality assessment, along with federated data discovery and sharing capabilities. These features are underpinned by distributed ledger technologies (DLTs) and data non-fungible tokens (NFTs). Together, they foster transparency, trust, and collaboration among industry stakeholders.

The Energy Demonstrator Hub will prioritize resilient grid operation by utilising the flexibility capacity offered by local prosumers, coordinated by aggregators. This real-world environment will validate the operational benefits of data sharing and explore use cases such as increasing grid hosting capacity, investment deferral, peer-to-peer trading, and data monetization.

Through optimised grid performance, active consumer participation in flexibility markets, and the creation of new business opportunities, PISTIS is set to drive significant advancements in the energy sector.

Launched in January 2023 and led by Fraunhofer FOKUS, PISTIS is a European project developing a platform for secure data exchange. It aims to advance technologies like federated data sharing, blockchain, and AI to create a trusted environment for data sharing and monetisation.

### **About PISTIS**

**PISTIS** is an EU-funded project involving a consortium of 31 partners from 11 European countries. Led by Fraunhofer FOKUS, the project aims to develop a platform for secure data sharing and trading. This platform will enable the trusted and controlled exchange of proprietary data assets, by implementing and improving functionalities that will facilitate federated data discovery and sharing, DLTs, NFTs, and AI-driven data quality assessment and monetisation.

Website link: <https://www.pistis-project.eu>

### **About CUERVA**

Cuerva is an energy utility company with over 80 years of experience in the energy sector, providing comprehensive solutions across the entire energy value chain. From renewable energy generation to its distribution as a local DSO, Cuerva has a proven track record in the construction, operation, and maintenance of energy infrastructure. Additionally, Cuerva offers industrial and building services, with a strong commitment to research and innovation, ensuring cutting-edge solutions in the energy field.

Website link: <https://www.cuervaenergia.com/en/>

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