GLOBAL GOALS

- Enable the reliable, fair and secure extraction of knowledge from energy sector data.
- Foster new business models in the energy sector using digital technologies.
- Enhancing multi-party cooperation between technology providers and data owners.
- Contribute to the standards of energy management systems.
- Offer proper roles for interfaces to enable innovative business processes.
- Identify new COSMAG-compliant standards for scalable and replicable energy management solutions.

BACKGROUND & CONTEXT

The electricity sector is shifting towards decentralisation and decarbonisation.

The rise of renewable energy sources demands algorithms that can predict and avoid grid disturbances.

It is necessary to leverage the data value chain to convert information into knowledge.

PLATOON – Partners and Pilots

PLATOON is a COSMAG-compliant reference platform with flexible capabilities:

- Interoperability: Enabling data exchange and integrated value chains between platforms using a wide spectrum of heterogeneous data sources, formats, and interfaces.
- Data Governance & Security: Addressing digital sovereignty challenges of multiple data owners and providers for multi-party data exchange along the energy value chain via IDS-based connectors.
- Data Analytics Toolbox & Edge Computing: Deploying technologies for data processing and analysis in batch and real-time to optimise the energy system management for the energy domain experts.

CONSORTIUM PARTNERS:

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 872592.
The EU-funded H2020 project PLATOON aims to digitalise the energy sector, enabling thus higher levels of operational excellence with the adoption of disrupting technologies.

PLATOON will develop a COSMAG-compliant reference architecture for big data processing for the energy sector. PLATOON will develop interoperability layer based open standards (e.g. SAREF, CIM, NGSI-LD) to ensure compatibility with different platforms and legacy systems.

PLATOON will develop IDS connectors, enabling multi-party data exchange while ensuring data governance and data sovereignty.

PLATOON will develop a data analytics toolbox and edge computing solutions for optimized real-time energy system management in a simple way for energy domain experts.

The project will be validated in 7 pilots in 5 countries that provide real Energy Big Data cases. PLATOON will facilitate the technology transfer into the market by a well-established tendering process via Open Calls.

The project will reinforce the European efforts for the modernisation of the European electricity grid, as it focuses on new smart grids services through data knowledge exploitation. Moreover, PLATOON will offer access to cheaper and sustainable energy for energy consumers and maximise social welfare.

Thus, PLATOON will contribute to increased renewable energy consumption, smart grids management, increased energy efficiency and optimised energy asset management.
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