

PROFITABLE FOR PARTNERS, DEMONSTRATION PROJECTS AND PRODUCT DEVELOPERS

Smart energy demonstration projects applying USEF will have increased relevance and impact. By building on a common standard and exchanging insights, implementations accelerate, future connectability is assured and solutions are rapidly scalable. Smart energy product or service developers can apply USEF to gain early market share, developing unique products and services that will be connectable and cost-effective.



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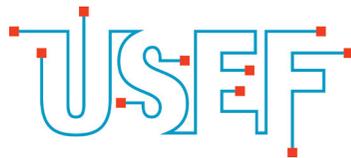
WORK WITH US TO HELP SHAPE THE FUTURE

With a clear vision, existing detailed specifications and the first real-life pilots in the market, USEF is perhaps the most comprehensive, advanced initiative of its kind. Our aim is to continue to expand our cooperation by partnering with other frontrunners to make flexibility trading a reality. We believe that working together across roles and boundaries this way is the fastest route to a fair and sustainable market. Download the framework and our publications for free and let us know how the output of our work helps you to shape integrated smart energy systems.

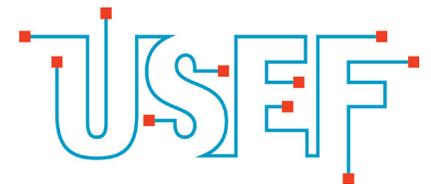


Universal Smart
Energy
Framework

USEF AT A GLANCE



A solid foundation for smart energy futures



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ENERGY FLEXIBILITY TRADING

The growing share of variable generation in Europe is increasing the need for flexibility in the electricity system. By choosing to be flexible about non-time dependent electricity consumption, consumers can help to reduce grid stress.

They could lower their energy bills by selling flexibility to market actors who aggregate enough of it to be interesting as solutions for congestion management and balancing purposes. There are already a multitude of technologies, IT systems and pilot projects underway that incorporate elements of flexibility.

To really unlock its value for all energy market participants, these must all eventually work together and this requires them to be system integrated, with a formal market to enable the exchange of energy flexibility. USEF delivers tools and rules to accelerate this.



USEF UNLOCKS THE MARKET FOR FLEXIBLE ENERGY USE

To drive a faster, cost-effective route to an integrated smart energy future, USEF delivers a freely available common standard to aid development of commercially viable smart energy products and services. It unlocks the value that flexibility can offer to all energy market participants by delivering a market structure and associated rules and tools that will enable it to be traded as a commodity. USEF fits on top of most energy market models, extending existing processes to offer the integration of both new and existing energy markets. Designed to offer fair market access and benefits to all, USEF is accessible to anyone internationally.

USEF is developed, maintained and audited by the USEF Foundation, a non-profit partnership of seven organisations, active in all areas of the smart energy industry: ABB, Alliander, DNV GL, Essent, IBM, ICT Automation and Stedin. With a growing range of partners, they are working across traditional roles and boundaries to help achieve a shared vision of a smart energy future.



CONNECTS SMART ENERGY PRODUCTS AND PROJECTS

USEF's open IT architecture provides the freedom to create unique and commercially competitive smart energy products and services without vendor lock-in. It delivers a common standard on which to build, ensuring that all technologies and projects will be compatible and connectable to the future smart energy system.

DELIVERS SMART ENERGY MARKET OPPORTUNITIES

Existing energy market roles will need to be adapted and new roles created to realise a smart energy future. Some of these will be appealing to all types of organisation, from traditional suppliers to supermarkets. By defining individual roles, how they might interact and the resulting value, USEF helps everyone both to understand and realise smart energy opportunities. The framework also addresses the contractual arrangements and agreements required to facilitate this.

ACCELERATES SMART ENERGY TRANSITION

By applying USEF and building on a common standard, projects are more rapidly connectable and learning is shared, creating a faster route to best practice. USEF's exemplary coding and reference implementation provide the groundwork to accelerate innovation, integration and scaling.

REDUCES COSTS

By delivering a common standard to build on, USEF reduces the cost to connect different technologies and projects to the energy system. Its market-based control mechanism then defines the rules required to optimise that whole system, ensuring that energy is produced, delivered and managed at lowest cost.

