



## X-FLEX Workshop: Tools optimizing and unlocking local flexibilities

25/01/2023

Virtual – <https://zoom.us/j/7106291965>

Host: JOANNEUM RESEARCH

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**Date 25/01/2023 10:00 – 12:00 CET**

**Goals of this workshop are:**

- Discussing energy market needs for energy flexibility tools.
- Comparing X-FLEX tools with similar solutions.
- Understanding enabling and limiting factors to deploy the X-FLEX tools or similar solutions.

10:00 – 10:15	<b>Welcome and Introduction to the X-Flex project</b> Lola Alacreu (ETRA I+D), X-FLEX coordinator and Andreas Tuerk, Joanneum Research
10:15 – 11:00	<b>Presenting the Key X-FLEX tools</b> GRIDFLEX: Diego García, ETRA I+D. SERVIFLEX: Kostas Tsatsakis, Suite 5. MARKETFLEX: Chloe Fournely, University of Ljubljana. X-FLEX PLATFORM: Dimitrios Lagos, ICCS.
11:00 – 11:15	<b>DSOs' needs for flexibility management and optimisation.</b> Selene Liverani, E.DSO



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 863927.

11:15 – 11:30	<b>View from a sister project: H2020 Project Ebalance+</b> Jacobó Peralta, CEMOSA
11:30 – 11:45	<b>View from industry: T-EMS, a solution to provide EV-based flexibility and support local energy optimization</b> Anaís Walle, TRIALOG
11:45-12:00	<b>Discussion</b>

#### Background:

H2020 X-FLEX has developed a range of tools aimed at facilitating the optimum combination of decentralised flexibility assets, both on the side and on the demand side, (power-to-heat/cold/gas, batteries, demand response), enabling all parties, including final prosumers, to offer their flexibility in the market creating benefits to all the actors in the smart grid value chain.

**Four complementary tools** are developed offering services to all energy stakeholders (TSO, DSO, microgrid operators, consumers, retailers and aggregators). **SERVIFLEX** allows flexibility managers to make use of demand flexibility sources by providing a holistic framework for flexibility extraction, profiling, forecasting, classification, clustering and management to serve different market and grid needs. **GRIDFLEX** is the tool for grid and microgrid operators that prevents congestion (voltage and current issues) and power quality problems with the increasing share of intermittent RES, giving special attention to the potential grid problems due to the impact of extreme climate events. The tool will use flexibility as an alternative to network reinforcement when it is more cost-efficient than traditional reinforcement of the network. **MARKETFLEX** enables final consumers and prosumers to access and participate, individually or through an intermediate party, on different energy markets, such as wholesale market, local energy market or ancillary services market for TSO or DSO. **The X-FLEX platform** integrates all the X-FLEX solutions in order to provide services for all the energy actors and ensure more secure, stable and clean energy supply.

<http://xflexproject.eu/>

#### Registration:

[https://docs.google.com/forms/d/e/1FAIpQLSftMjnQcjt3gevxEbOw9z7WZFu8fTMjFz1Ob7ThwTFj22aFag/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSftMjnQcjt3gevxEbOw9z7WZFu8fTMjFz1Ob7ThwTFj22aFag/viewform?usp=sf_link)



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