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X-FLEX H2020 project proposes a set of efficient and cost-effective solutions that will facilitate the **optimum combination of decentralised flexibility assets**, both on the generation and demand side, enabling all parties to offer their flexibility in the market **creating benefits to all the actors in the smart grid value chain**.

X-FLEX is unique in its multi-technology, multi-actor approach which, in an increasingly Renewable Energy Sources-powered grid, **ensures security, resilience and stability for all**, even under grid-stressing scenarios.

To achieve these goals, X-FLEX develops **4 complementary products** that offer services to all the energy stakeholders, from network operators (TSO, DSO, microgrid operators) to final consumers/prosumers and flexibility providers. These solutions will be tested in real conditions in **4 pilot sites** in 3 EU Member states: Bulgaria, Slovenia and Greece.



Integrated energy solutions
& new market mechanisms
for an eXtended FLEXibility
of the European grid



@xflex-h2020



@Xflex_H2020



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Products



Serviflex tool

INTEGRATED FLEXIBILITY MANAGEMENT TOOL

Enables flexibility managers to optimally leverage the value of flexibility from the different flexible sources.



Gridflex tool

ADVANCED TOOLS FOR AUTOMATIC CONTROL AND OBSERVABILITY OF THE GRID

Allows network and microgrid operators to monitor the grid in a simple and safe way, responding to supply quality problems.



Market flex tool

ENERGY FLEXIBILITY TRADING PLATFORM

Used by consumers and intermediaries to access the energy market and interact with wholesalers and distributors.



X-Flex platform

FLEXIBLE AND SCALABLE INTEGRATED PLATFORM

Integrates all the X-FLEX solutions to provide services for all the energy actors and ensure more secure, stable, and clean energy supply.



Coordinator



Consortium



Elektro Celje, d.d.



Starting date: **1/10/2019**

Duration: **48 months**

Budget: **9,5 M€**

Luče (Slovenia)

Flexibility of local energy community

X-FLEX facilitates the flexibility management of a local energy community through the use of batteries, electric vehicles and photovoltaic and wind systems.

Ravne Na Koroškem (Slovenia)

Flexibility of the Power to heat on an industrial site

XFLEX provides flexibility on the electricity grid by using synergies with RES Power2Heat and heat network operation to lower the imbalances in the network.

Albena (Bulgaria)

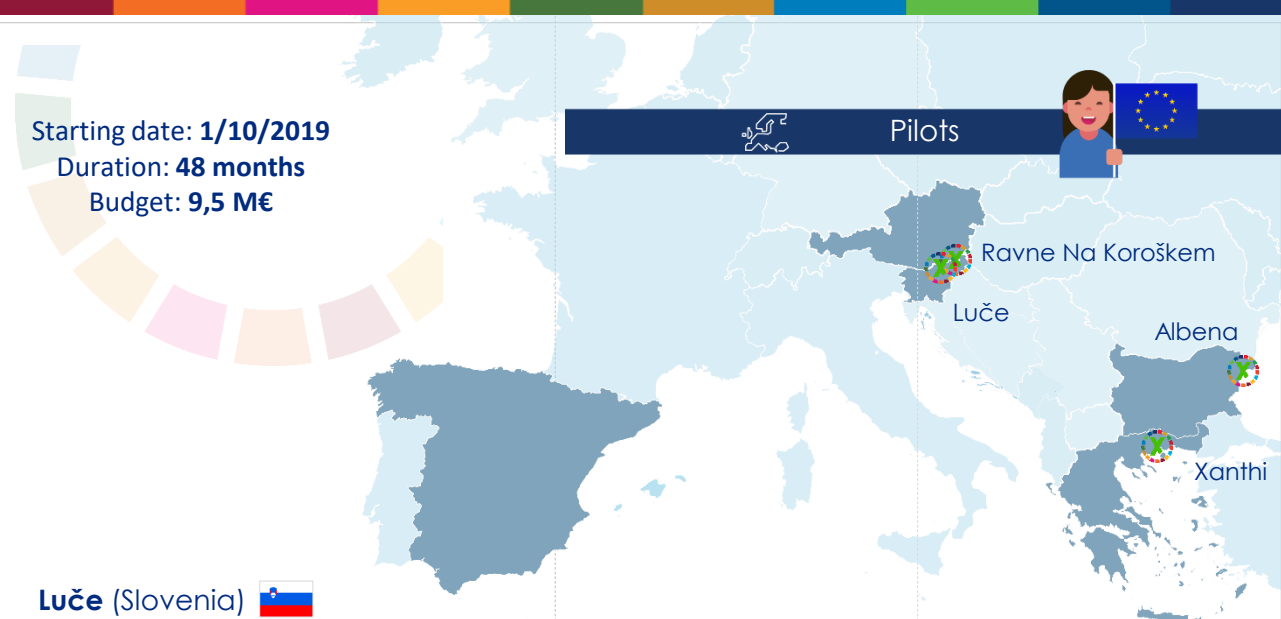
Flexibility on a commercial site and micro grid/TSO cooperation

XFLEX increases the grid reliability and resilience and creates flexibility market mechanisms with the provision of financial incentives as a motivation for future flexibility efforts and collaborations.

Xanthi (Greece)

Green flexibility for network resilience

X-FLEX facilitates the optimal management of Renewable Energy Sources and the reinforcement of the network to face problems caused by adverse conditions.



Pilots

