



FOSSIL-FREE ENERGY DISTRICTS GOTHENBURG, SWEDEN

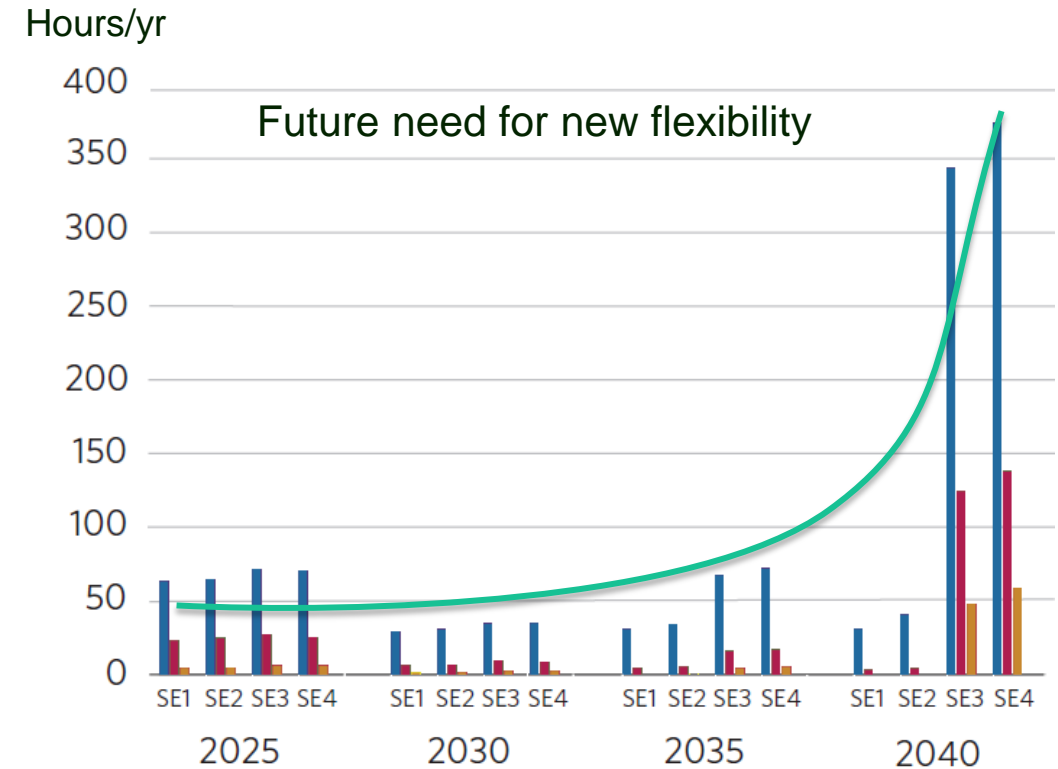


MARKET CONTEXT

FED System as integrated part of the Swedish and Nordic market

Challenges from a balance management perspective

- Increasing amounts of variable output generation.
- Questionmarks on the future of Swedish nuclear power
- Lack of incentives to keep peak production capacity.
- Decreasing frequency quality.
- Increased demand for flexibility services.



MARKET CONTEXT

FED System as integrated part of the Swedish and Nordic market

Market entry of flexibility resources; demand response

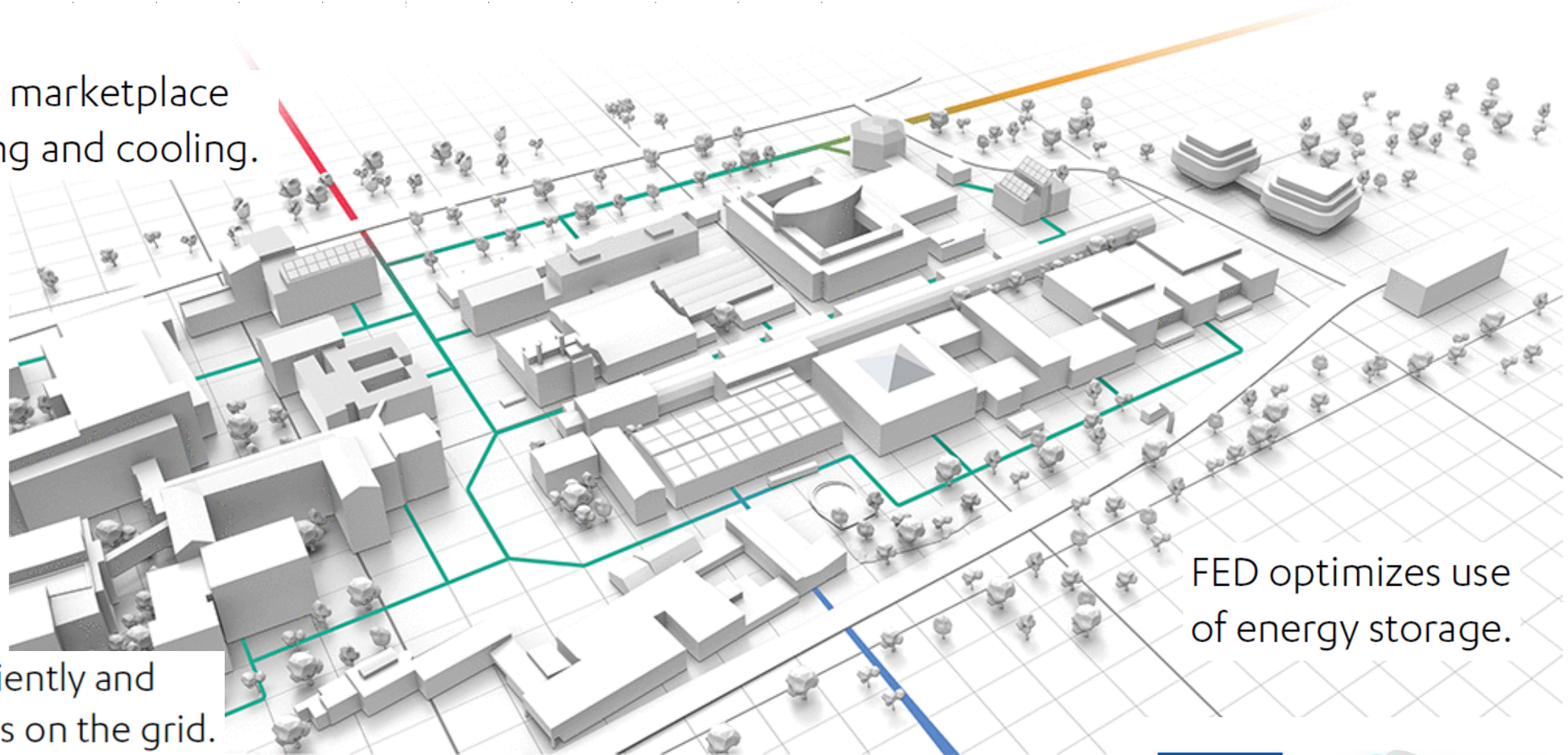
- Market design development supporting implementation of new roles, e.g. aggregators.
- Enhance grid regulation to provide incentives for DSO to embrace flexibility as a resource for grid operations.
- Lower thresholds for end-users to take a more active market position, e.g. Local Energy Communities and Markets.

FED ON CAMPUS JOHANNEBERG

FED develops a local marketplace for electricity, heating and cooling.

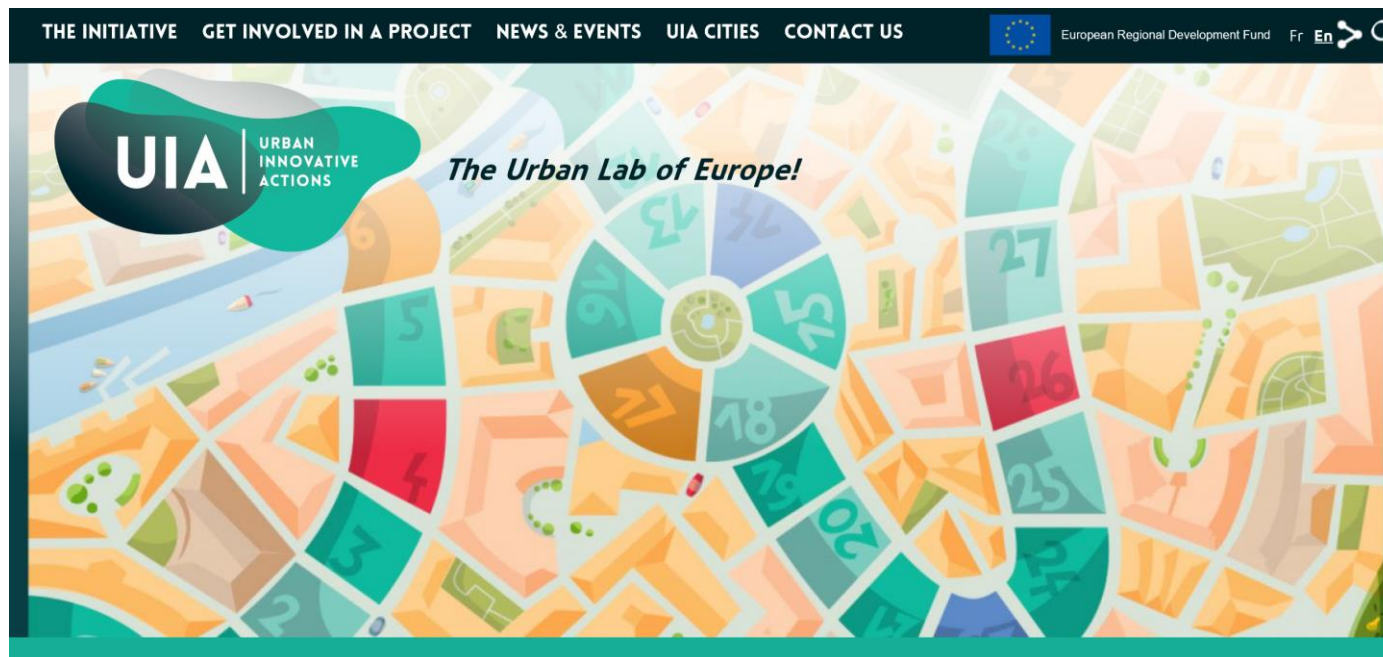
FED uses energy efficiently and avoids fossil fuel peaks on the grid.

FED optimizes use of energy storage.



FED IN EUROPE

- FED is financed by EU-program Urban Innovative Actions, UIA
- FED is one of three projects on Energy Transition
- FEDs budget is €4.8 million



#fedgbg



COOPERATION BETWEEN NINE PARTNERS



#fedgbg

ENERGY TRANSITION IN EU

SECURE ENERGY SUPPLY

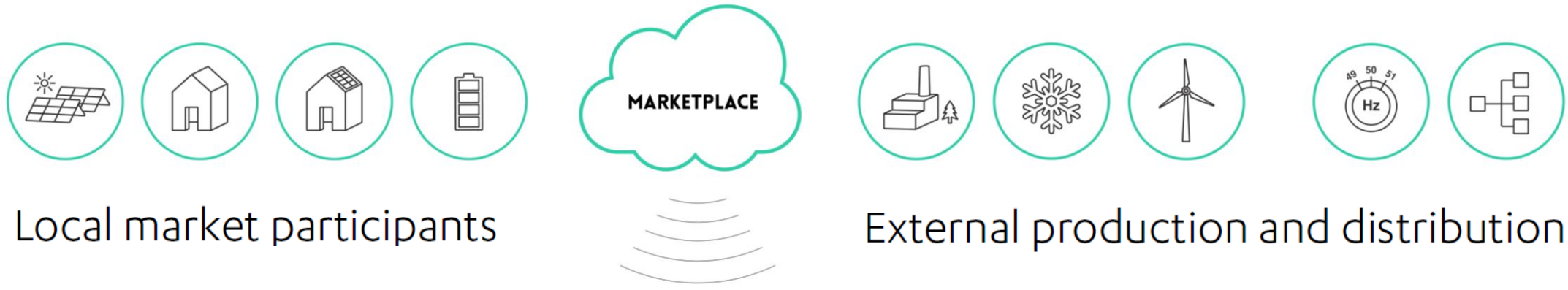
SMART SYSTEM SOLUTIONS



RENEWABLE PRODUCTION

SUSTAINABLE BUSINESS MODELS

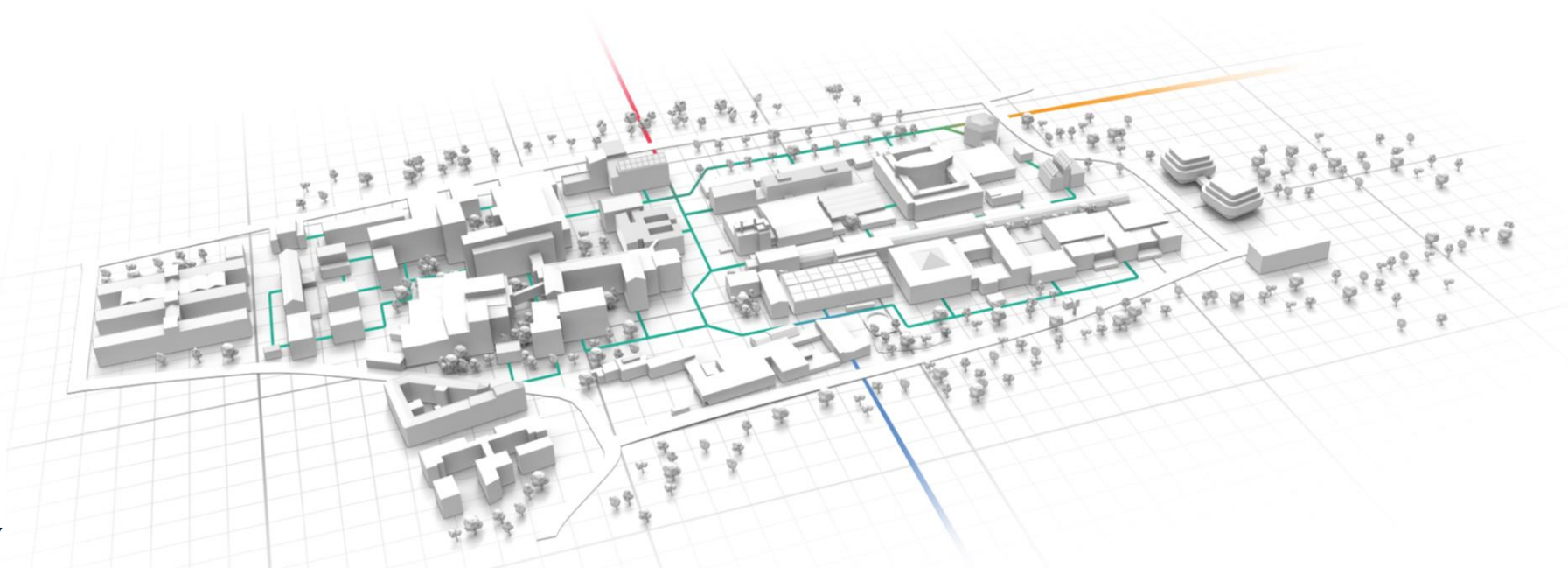




Local market participants

External production and distribution

- HEATING
- COOLING
- ELECTRICITY



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www.johannebergsciencepark.com/fed

www.uia-initiative.eu