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.

Future need for new flexibility

Source: SVK
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 develops a local marketplace for electricity, heating and cooling.

FED optimizes use of energy storage.

FED uses energy efficiently and avoids fossil fuel peaks on the grid.
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
COOPERATION BETWEEN NINE PARTNERS
Local market participants

External production and distribution

- HEATING
- COOLING
- ELECTRICITY
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