



ELLEVIO



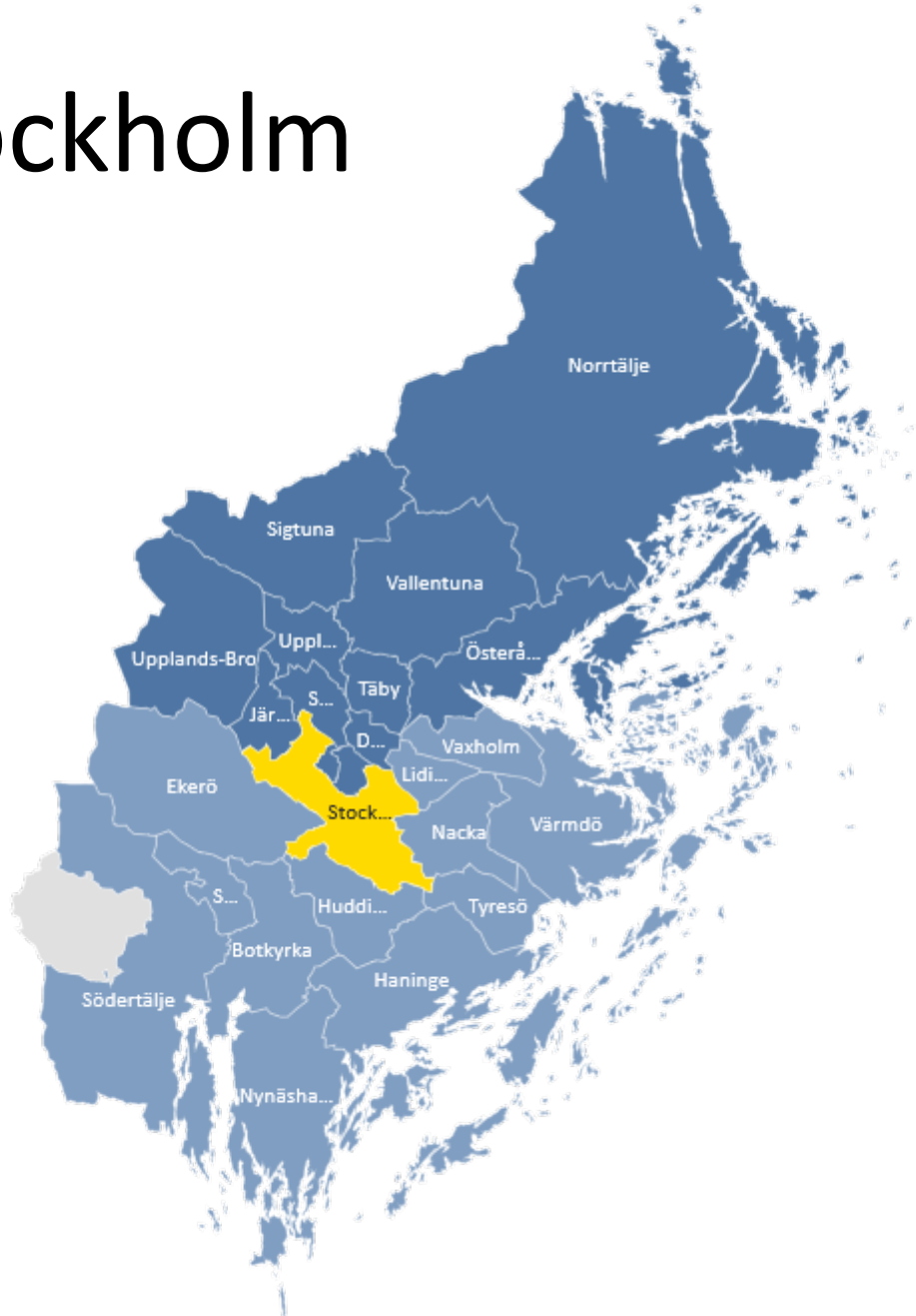
VATTENFALL 

Vattenfall Eldistribution

Why sthImflex?

- The project goal is to create a power market for flexibility in the Stockholm region, in order to manage bottlenecks in the grid
- In the short-term perspective, enable continued development of the Stockholm region and relieve the existing grid congestion.
- Release capacity with the help of new tools and processes, as well as through collaboration between TSO & DSO and between DSO & DSO
- mFRR pilot with lower bid size requirement than in today's mFRR market – increasing the interest in the local flexibility market through increased chance of cleared flexibility bid
- Learnings on the market for power flexibility for both DSO and FSP
- Create conditions for efficient use of the electricity grid and the energy system – in-line with EUs Clean Energy Package
- In the long-term perspective, create conditions for cost-effective electricity distribution (mitigating need for grid enforcement that are only required under transition phase before other investments are finalized).
- One step on the journey from DNO to DSO (transforming from static network operator to dynamic system operator)
- Will establish a new market for flexibility with free bids
- Will manage existing bilateral availability agreements
- NODES, an independent market player, provide a marketplace for flexibility suppliers
- sthImflex will provide a flexibility platform that Svenska kraftnät, Ellevio and Vattenfall Eldistribution use for operational support. This enables network control room to dispatch flexibility on the market platform provided by E.ON Energy Distribution / SWITCH

Stockholm



We are looking for flexibility suppliers in the Stockholm region under the following regional network areas:

- Stockholm North (Vattenfall Eldistribution)
- Stockholm City (Ellevio)
- Stockholm Södra (Vattenfall Eldistribution)

Buyers in the R&D project 20/21:
Vattenfall Eldistribution, regional network
Ellevio nät within the city of Stockholm

DSOs will buy flexibility in their own concession areas, as well as in underlying networks.

In the future, we intend to enable for also the underlying local networks to participate as buyers (as flexibility providers might be located in the underlying networks).

16/06/2020

Product: Free bids

Product requirements proposed are an initial version that we want to further develop based on dialogue with you and our experience from the R&D project sthlmflex

Delivery time: 60 min (on average)

Required bid size for qualification: 0.5 MW

Step size (granularity): 0.5 MW

Aggregation allowed: Yes (to be defined if aggregation is to be within same TSO substation, or a group of TSO connection points)

Which market participate in: determined by location and your preferences

Bid: NODES Market Platform or NODES API

Trade signal: NODES market platform or NODES API

Activation: Done by Flexibility provider when bid is bought

Pricing: Pay as bid (continuous market)

Availability: According to bids

Verification of delivery : To be evaluated during the R&D project, to be defined in August

Market information: The three lowest bids per hour will be displayed on the NODES platform, along side your your own bid

Market information:

In this continuous market, the buyer is foreseen trade mainly between 09:30 - 10:30, on the day before delivery day
Flexibility bids for Monday will be cleared on Friday (tentatively at 15 o'clock)

Product: mFRR R&D trial

Delivery time: 60 min (on average)

Closing time for bids: 45 minutes before hour of delivery

Activation time: 15 minutes for full activation

Required bid size for qualification: 1 MW in the R&D project

Maximum bid size: Actors able to place bid large enough for regular mFRR market are not intended to participate in R&D projects

Step size (granularity): 1 MW (mFRR bids must be increase by one MW at a time)

Aggregation allowed : Yes, but only from the same price area and same BRP

Which market participate in: Nordic balancing market

Bid clearing method: Electronic call

Activation: By flexibility provider / BRP

Pricing: Pay-as-cleared if called for balancing. Pay-as-bid if called for network congestion (special regulation)

Availability: as agreed individually for each flexibility provider

Verification of delivery: based on measured values

Timeline free bids flexibilityprovider

2020-06-08 Information meeting

2020-08-25 Dialogue meeting with aggregators (13-14:30)

2020-08-26 Information meeting with flexibility providers (13-14:30)

2020-08-28 Dialogue meeting with DSOs (13-14:30)

2020-09-04 Information meeting with flexibility providers (13-14:30)

2020-09-07 Letter of interest to be sent to Vattenfall Eldistribution or Ellevio, if participation will utilise API. Separate letter of intent to be sent to Svenska kraftnät for mFRR

2020-09-22 Register on NODES market place if API is to be used

2020-10-05 Letter of interest to Vattenfall Eldistribution or Ellevio if participation will not utilise API

2020-10-19 Register on NODES market place if API is not to be used

2020-10-30 Last day NODES market place open for registration

2020-12-01 Start sthlmflex free bid and mFRR

2020-03-31 Termination for the season of free bids and mFRR

Follow us at our web page <https://www.svk.se/sthlmflex>

Contact information

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