

CINELDI result: NODES flexibility platform (WP Pilot)

Challenge and objective:

- Reduce the voltage drop in during high-load situation, in order to meet regulation requirements.
- Demonstrate the buying flexibility can reduce load peaks and thereby voltage variations.



Work performed:

- Ten tests with trading with local flexibility resources and their electricity retailers using NODES platform. The tests were manual.
- Prior to each test a base line was calculated as the average of the last five days for the relevant hour/time period. Deviation between base line and measured consumption was defined as the delivered power, and the delivered power was paid for the next day.

Significant results:

- The needed volume per trade was 0,6-1,2 MW to solve the voltage issues. But the largest power in one test was 565kW. Average trade was 20kW.
- The prize was from 5 000 to 18 000 NOK per MW.

Impact for distribution system innovation:

- More knowledge and understanding in Linja and a maturing on the topic of flexibility trading. Identification of unsolved issues to be solved prior to large scale implementation.



Reference in CINELDI:

- [Pilot "NODES flexibility platform" report](#) (in Norwegian)