Sello: Demand management for district heating

DEMO DISTRICT

Espoo, Leppävaara
Sello district

PARTNERS INVOLVED

SIEMENS

COMPLETION DATE

09/2022

KEY NUMBERS

***-32%** District heating peak power demand reduction*

***2-4h shift** in highest demand*

CO_2 REDUCTION POTENTIAL

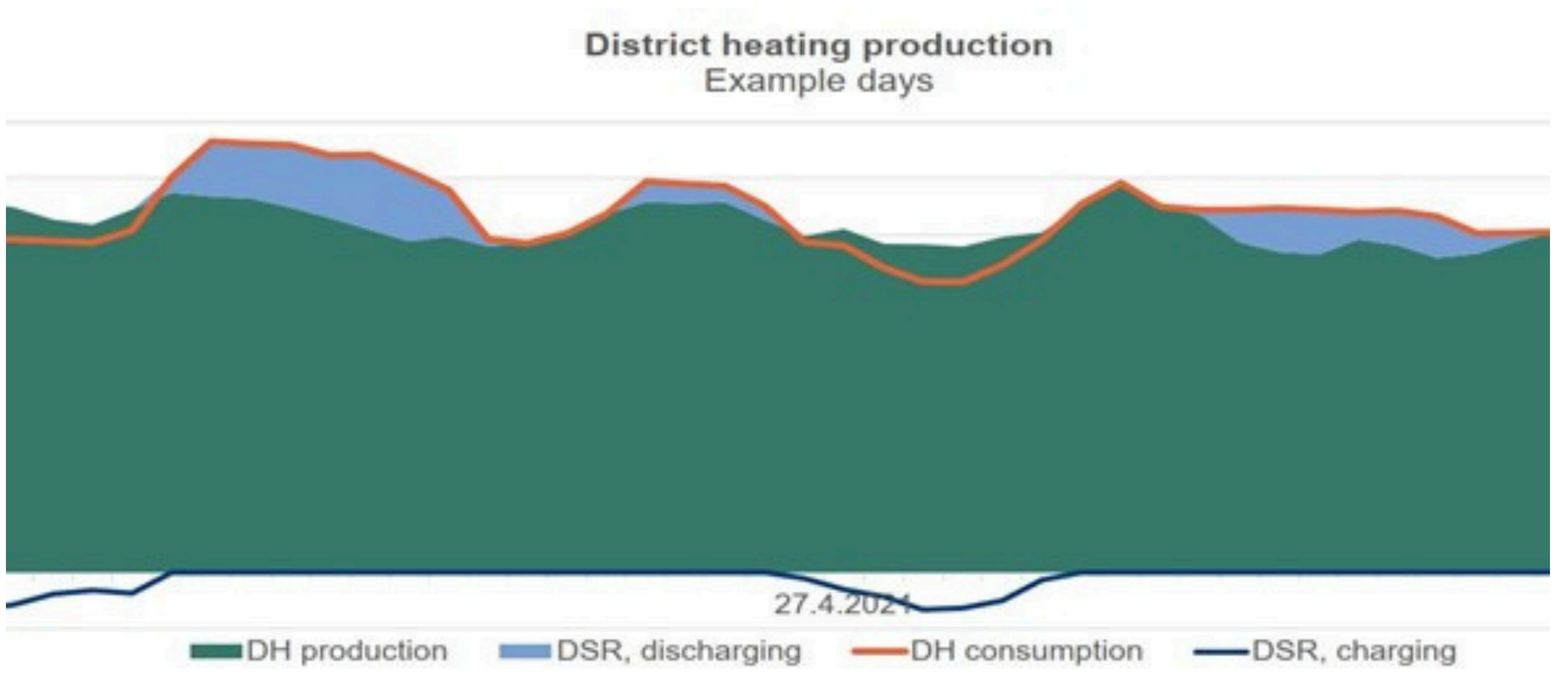
If possible:
KPI from WP2 OR
„low-medium-high“

CONTACT PERSON AND LINKS

Siemens
Sami Laakso

Short description

- At peak times in the district heating supply, more electricity is needed than the power plant can normally supply.
- The solution allows consumers to operate flexibly and to reduce their demand instead of increasing the supply, thus reducing CO2 emissions



What did we learn?

- Before an implementation is possible, an open discussion must be held between energy users and suppliers. Standard interfaces allow flexibility in the solution.
- The flexibility potential depends on the outside temperature and the storage capacity in the building structure.
- Increasing the self-sufficiency of a Sello block

What happens next?

- New cases to be discussed with heating network operators and building owners

Questions and comments from partners

Comments to be added during poster session at Consortium meeting in Leipzig