

DRIVE www.h2020-drive.eu **DEMO SITES** DEVO District, in the

Netherlands



SCHØLTenergy







Focus was on: Residential district



in the Netherlands, composed of 1250 houses, where DEVO is the local energy supplier of the district and it is responsible for the management of the thermal energy flows inside it.

Direct replication potential: Other district heating and cooling network operators

Objectives: Optimize the time of use of the Combined Heat and Power (CHP) technology, maximising the additional revenues for selling electricity on the market.

Assets: District heat pump (HP) (0,63 MWel and 1,9 MWth); CHP (0,95 MWel and 1,2 MWth); Gas heater (backup and peaks, 2,9 MWth); Hot water buffer (200 m3); Connection to Medium Voltage grid

Method: Simulation-based tests have been deployed to check the rentability of using the DEVO CHP for flexibility services

Results: Extra profit up to 20.000€/year for DEVO thanks to the use of Artificial Intelligencel-algorithm taking care of different input parameters for optimisation of the CHP usage and selling electricity to the grid



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