



MARKET SEGMENTS

**District Heating Grid**

Energy Storage  
Heating & Cooling



BOOTH NO.

**C01 Ecovat · Netherlands**

# Thermal storage of renewable energy and its integration in a hybrid microgrid, with power-to-heat flexibility services that can be provided to the electric grid

**THE NEED.** Renewable energy is not always available when needed and, just as often, when energy is available the quantities produced amount to more than is required.

**THE SOLUTION.** Ecovat is a thermal, seasonal storage system that enables heat storage of up to 90°C with minimal energy and exergy loss. Over a period of >6 months, less than 10% energy is lost, exergy losses are less than 7%. Ecovat's storage system is designed for net balancing with power-to-heat and integration in a hybrid smart microgrid.

**KEY FEATURES.**

- High temperature, over the season, district use (500-1500 houses).

**VALUE PROPOSITION.**

- Construction costs are substantially lower than comparable systems.
- Ecovat is the first storage system that can store up to 90°C and retrieve the energy after a long period with less than 10% loss.
- A steering system enables power system balancing and flexible utilisation of energy markets.

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**STRATEGIC PARTNERSHIPS/  
CUSTOMER REFERENCES**

Siza Het Dorp Vernieuwt,  
Binckhorst Den Haag, DNV GL,  
EnergyVille

✓ **COMMERCIALISED**