

Eksta Bostads AB

Christer Kilersjö

Nordic Pellets Conference
2023-02-02

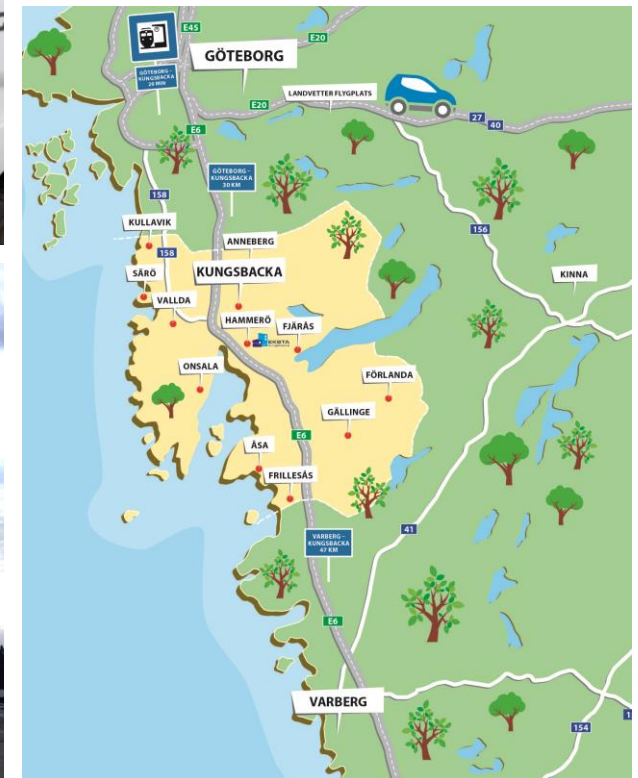


Facts about Eksta Bostads AB

- Kungsbacka municipality's housing company– founded in 1965
- Kungsbacka is located on Sweden´s westcoast and has 85,000 inhabitants
- Eksta has 50 employees
- About 3,400 apartments
- Nursing homes, schools, preschools, group homes for people with special needs and commercial premises

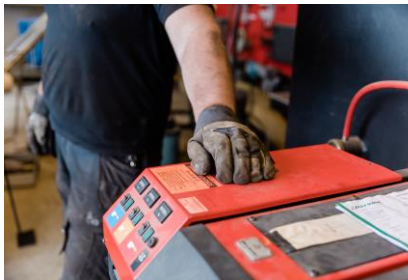
Our vision is “Eksta – the housing of the future”.

It should be good to live in our houses – *now and in the future.*
We build with commitment and responsibility.



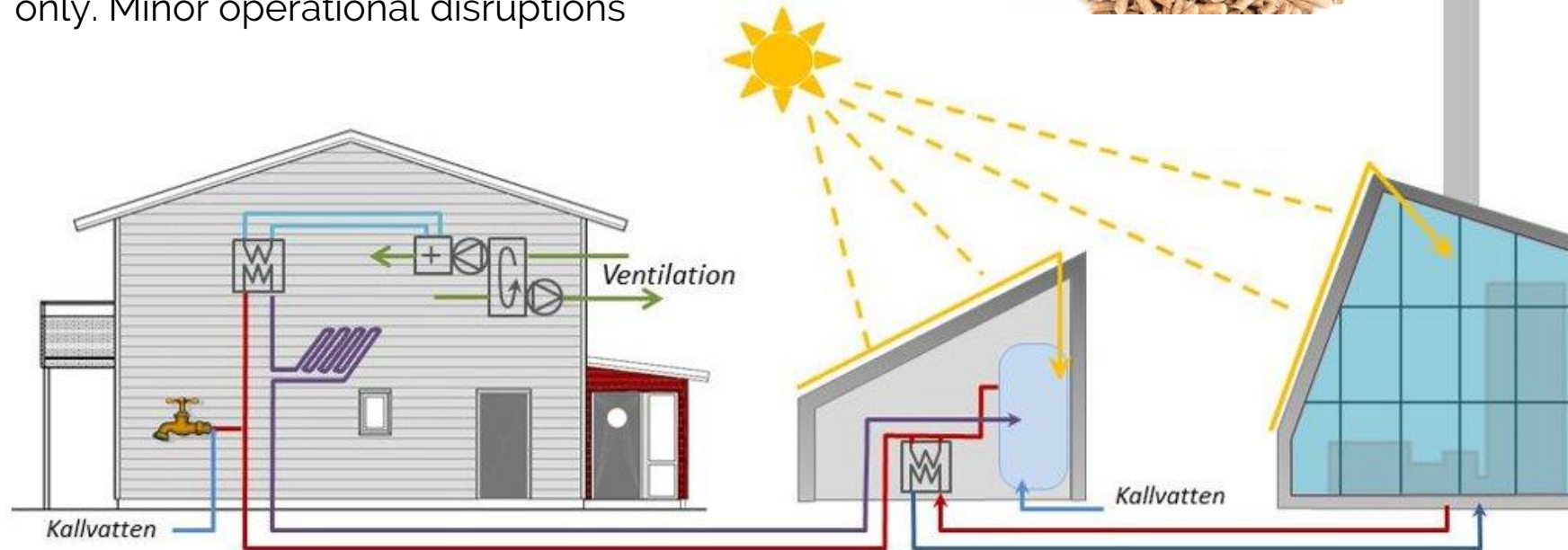
Energy

- We are at the forefront with our work in **solar energy, biofuel, passive houses** and new technology. Ever since the oil crises in the 1970's, we have had a strategy to rely on renewable energy sources as far as possible.
- We have had close cooperation with technical universities and competent consulting companies. Together we have tested, developed, and refined our energy concept.
- **We have just reached a big milestone:**
Energyconsumtion is less then 90 kWh/m² and year for all buildings together.
 - 3 million kWh of solar energy annually
75 photovoltaic systems
about 20 solar heating systems
 - 19 biofuel plants, pellets as fuel



Solar heating in combination with district heating and passive houses

- The oil crisis of the 70s was the start of biofuel and solar energy
- Rarely felt as right as now in these times of energy crisis
- From wood chips, briquettes to pellets only. Minor operational disruptions



Vallda Heberg

- 130 properties
- Swedens first passiv house area with villas
- 300 kW pellets as fuel



No system limits

- Holistic view both inside and outside property
modern boilers, good baseload
- Long-term, sustainable and with
own operational organization



Our view on biofuel – a part of the energy system

- Refined dry biofuels are clearly the best from a user perspective
- Knowledge is needed to manage the systems profitably
- Most important to have a holistic view of the energy system between supply and demand
- Must keep up and develop boilers, systems, controls to meet a more flexible demanding future. Smart systems

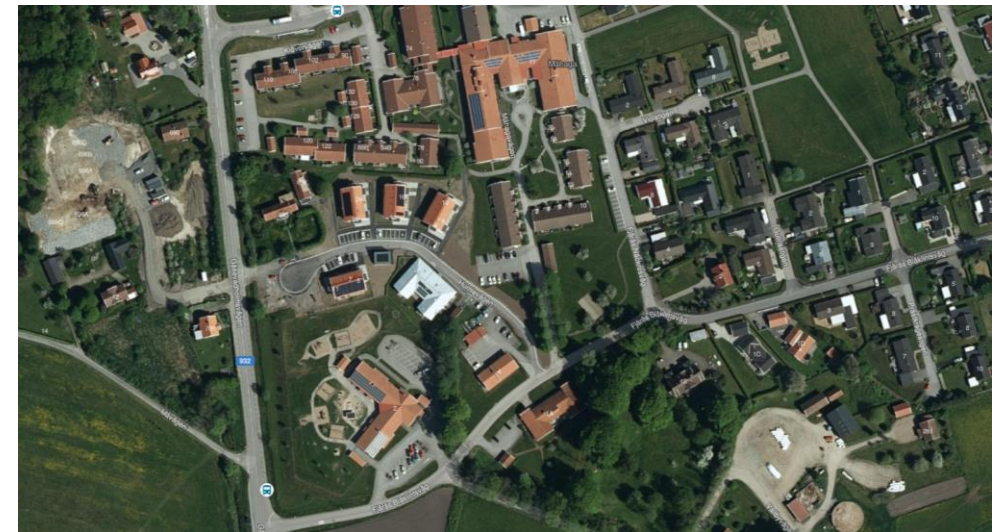
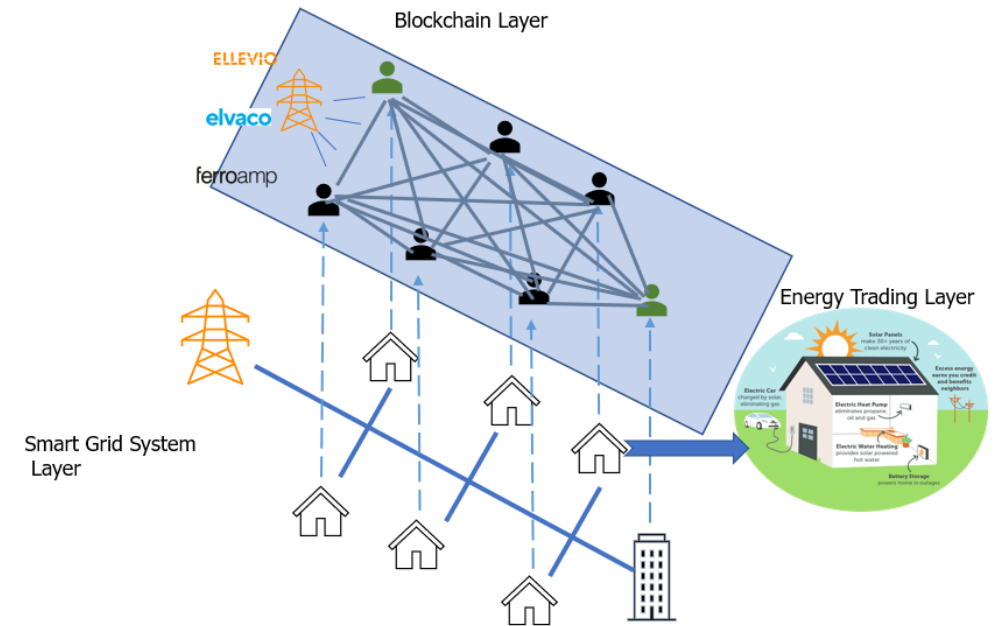


Humlevägen, Fjärås

- Part of a district heating network
- A 5 MW boiler plant (pellets)
- Several solar thermal and photovoltaic systems
- Theoretics blockchain concept

The project aims to:

- Investigate, test and evaluate possible flexibility between district heating and electricity
- Can district heating relieve the electricity grid when it is strained, high electricity price?
- Change residents' behavioural patterns in energy use.



ENFLATE



“ENabling FLeXibility provision by all Actors and sectors through markets and digital Technologies”

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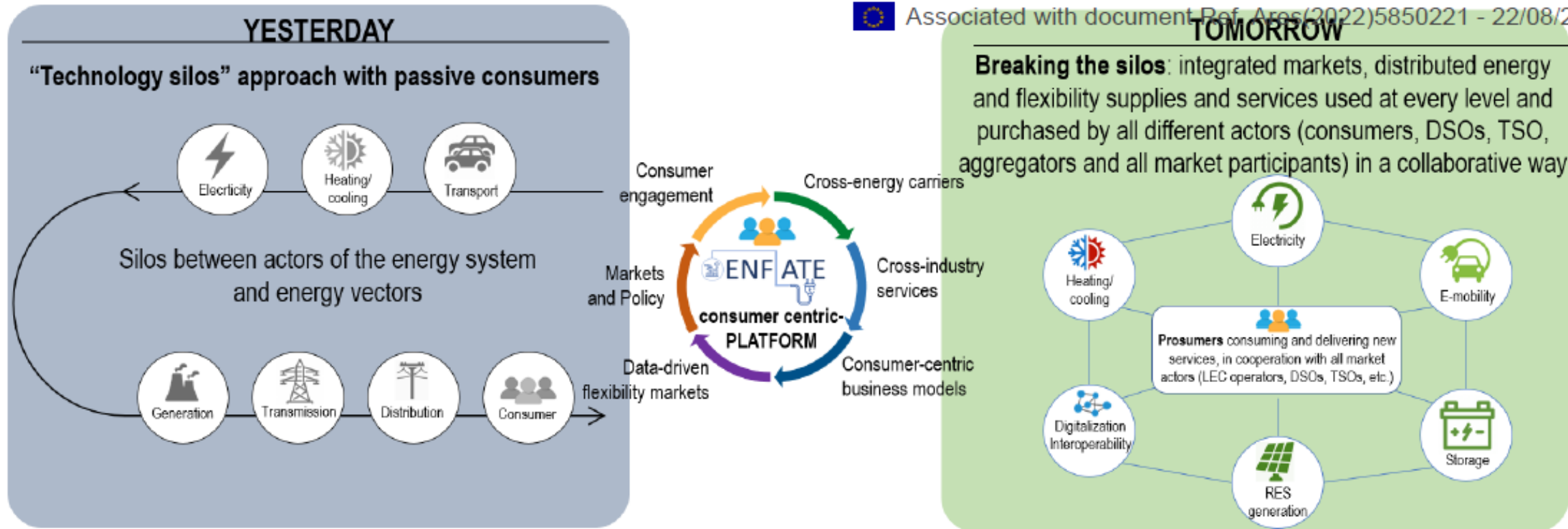


Figure 3: The ENFLATE concept.

*Our energy concept goes a long way
– right into the future*

Thanks!

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