Our vision

A world where sustainable energy is available where it is needed, when it is needed and in the form it is needed



We need to decarbonize our energy systems

- Heating and cooling accounts for 50 % of energy use
- Buildings emit more than 1/3 of CO2
- Digitalisation enables innovative solutions with significant impact
- Digitalisation and AI needs to support systems, people and organisations





NODA has more than 15 years of experience in digital thermal energy

Supply

Increase capacity and de-risk investment

Distribution

Improve efficiency and prolong lifetime

Demand

Energy services, flexibility and Al-driven knowledge





Creating content in digitalisation

Based in Sweden with partners globally

Customers in Europe, North America and Asia

NODA solution portfolio, delivered by cloud, tech transfer & knowledge

NODA Heat Network

Balance supply and demand to maximise business value

NODA Building

All Balt

Active energy services to save cost and improve indoor climate

NODA Spotlight

Al for predictive maintenance, sales support and customer interaction





Data – Information - Knowledge













Data – Information - Knowledge



O-O-O Intelligent Systems

Α









Data – Information - Knowledge



















https://cordis.europa.eu/project/id/101033683



How to create a win-win



PANG

- Price models with AI for the Next Generation district heating
- Profu, NODA, C4 Energi and Umeå Energy. Co-founded by Vinnova
- Investigate if AI can support the design and implementations of new price models



Brf in Växjö as an example

How to create a win-win

An average day saving energy....



Volume flow

- About 17 % decrease in voluem
- 2.75 SEK per m3 gives a saving of about 3200 SEK

Energy

- About 9 % in energy saving
- 468 SEK/MWh gives a saving of about 11 200 SEK





Demand

- About 12 % in demand reduction
- 461/574 SEK/kW gives saving of about 7 415 SEK

Total saving: 21 815 SEK

Value creation through applied AI



The value journey: Successively increasing understanding, efficiency and quality of service

NODA partnership concept



• Supports the business

Content by NODA Point in case: The Cetetherm Optimizer





Some references

- Kraftringen (NODA Building)
 10-12 % energy savings
- Norrenergi (NODA Building)
 - 13 % energy savings
- Karlshamn Energi (NODA Heat Network)
 - Supply and demand side management
- Engie (NODA Heat Network)
 14% primary fuel savings
- R&D project on EU-level
 - STORM (https://storm-dhc.eu/en)
 - TEMPO (https://www.tempo-dhc.eu/)
 - Flexible Heat & Power (http://fhp-h2020.eu/)
 - Flexisync (https://www.flexisync.eu/)
 - COLLECTIEF (https://cordis.europa.eu/project/id/101033683)





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