



Green industrial areas Mecklenburg-Vorpommern, Germany

Jennifer Grünes, Ministry of Energy, Infrastructure and Digitalization
Mecklenburg-Vorpommern

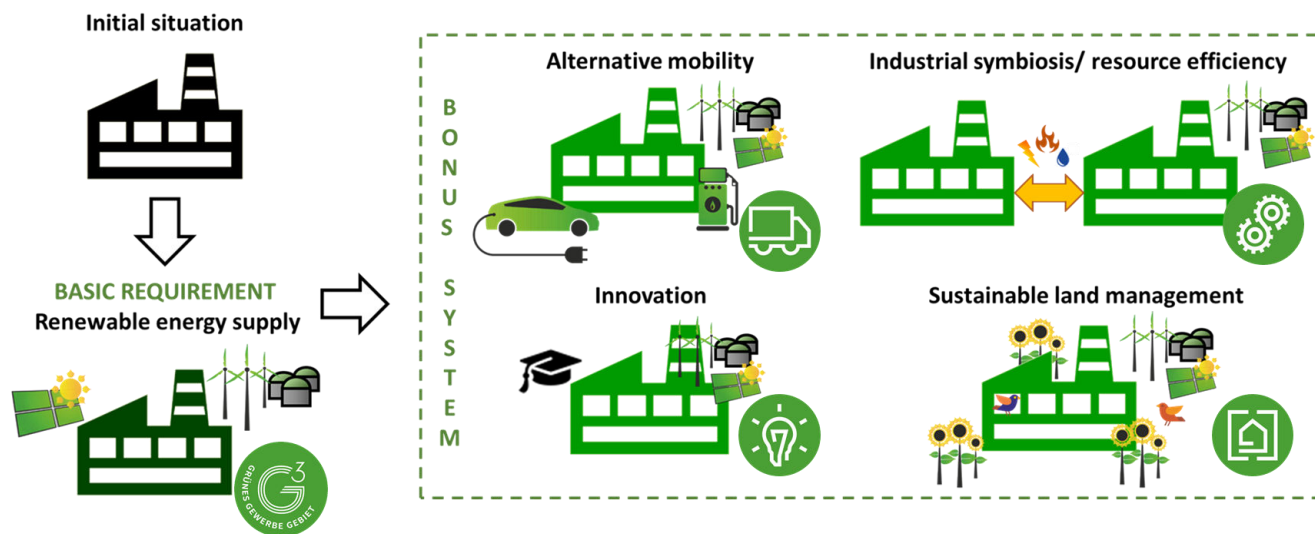
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«Renewable energy and spatial planning: challenges and future perspectives»

Riga, Latvia, 29 January 2019

Pilot: Green industrial areas

- Aim: sustainable development & increase of attractiveness
- Set up & launch a **STATE INITIATIVE** on green industrial areas



Certification requirements for the label G³

- Visual identity: creation of a logo & a label for certification

Sustainable Energy approach in public spaces located in the town centers of the Central Functional Zone in the West Pomeranian Voivodeship based on the example of Połczyn-Zdrój

Justyna Strzyżewska
Regional Office for Spatial Planning of Westpomeranian Voivodeship

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Sustainable energy in public spaces

- The goal of our pilot project:
to investigate the possibilities of using RES while enhancing the quality of public spaces at Połczyn-Zdrój
- Innovation aspect of our pilot project: Identifying steps before investment in RES – **understanding problems related with implementing RES and building/creating solutions, Energy efficiency, lighting solution**
- What are we proud about our pilot project:
Wide interest in the results of the project among local governments - signing the official „Statement about creating and supporting the development of interest in renewable technologies,, signed by representatives of local authorities and Marshal of the Westpomeranian Voivodeship
- What could be the main interest points for other regions:
Recommendations for residents and local government in the field of energy efficiency improvement and the possibility of using renewable energy in public spaces - in the spatial planning





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Tartu Regiooni Energiaagentuur
Tartu Regional Energy Agency

Renewable energy mix in peripheral regions: the renovation project of the Rõuge village hall Southern Estonia

Antti Roose, Tartu Regional Energy Agency

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Renovation of the Rõuge village hall

- **The goal:** Defining the optimal renewable energy mix for renovated village hall (2 ha plot)
- **Innovation aspect:** Small-scale innovative applications of renewable energy technologies: ground heat (80 kW) + PV (18 kW) + firewood stoves
- **What makes us proud!**
 - Contemporary and functional design and innovative engineering of the village hall
 - An organic approach to problem solving and decision making
- **What could be the main interest for other regions?**

The pilot orchestrates the renewable energy engineering, energy efficient renovation and sustainable landscaping in a small town.





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SKÅNE ENERGY AGENCY
A part of Skåne Association of Local Authorities



Urban planning for Solar Energy Skåne, Sweden

Johan Nyqvist, Skåne Energy Agency

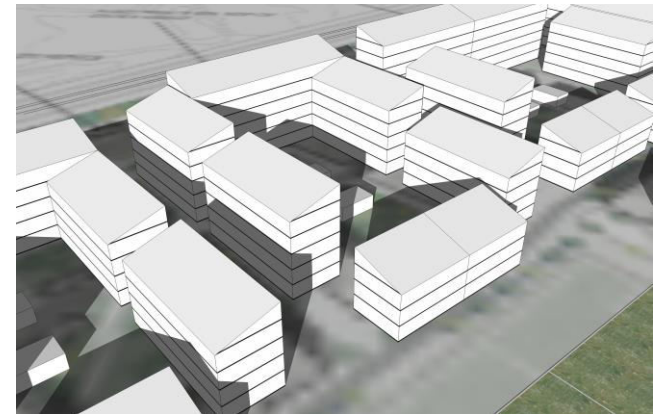
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Urban planning for Solar Energy

- Our goal: To influence the planning of a new area in the city of Lund to optimize for solar energy
- Our efforts have included:
 - Contribution from expert consultant
 - Stakeholder discussions
 - 3D-model
- Lessons learned:
 - Planning is long process involving many stakeholders
 - Solar energy is just one of many parameters in planning





Offshore wind power case: Blekinge, Sweden

Annica C Lindh, Energy Agency for Southeast Sweden

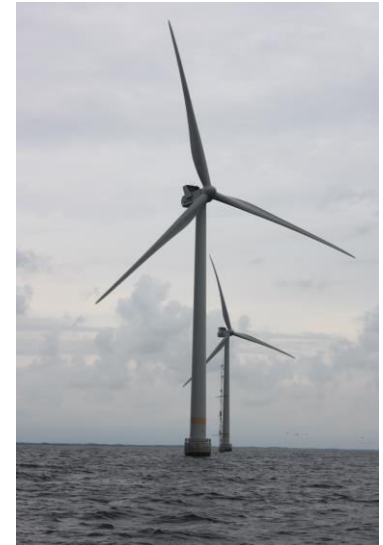
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Offshore wind power case

- The goal is
 - to deliver a socio economic report to the municipality of Sölvesborg
- Innovation aspect of our pilot project:
 - long experience of wind power in Sölvesborg
 - cooperation
- What are we proud about our pilot project:
 - Involvement, Vattenfall
 - Interest in wind power from municipality
 - Be able to deliver the socio economic in time
- What could be the main interest points for other regions:
 - Previous work and dialogue with citizens
 - Taggen will be established, when time is right





District Heating case: Blekinge, Sweden

Annica C Lindh, Energy Agency for Southeast Sweden

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District Heating case

- The goal of our pilot project:
 - to find solutions to be able to use the waste heat in the DH network
- Innovation aspect of our pilot project:
 - new cooperation channels
- What are we proud about our pilot project:
 - The manufacturing industry wants to use the waste heat
 - Interests from municipality, specified in the Detailed Development program
 - The manufacturing industry will use the waste heat, when time is right
- What could be the main interest points for other regions:
 - would have been good to have a plan to be able to handle heavy workload among stakeholders
 - working organisation, who works with who?





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Sustainable district heating system in Kaunas

Kaunas Region, Lithuania

Nerijus Pedišius, Lithuanian Energy Institute

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Sustainable district heating system in Kaunas

- The goal of the pilot project:
Transfer from natural gas in district heating to nearly 100% RES
- Innovation aspect of the pilot project:
 - ✓ *Competition in district heating sector – independent producers,*
 - ✓ *New fuel supply schemes – biofuel exchange,*
 - ✓ *Diversification of funding schemes.*
- What are we proud about the pilot project:
 - ✓ *The above goal achieved in extremely short period of 7 years, starting from 2012,*
 - ✓ *Heat tariffs were reduced by over 40%,*
 - ✓ *Environmental benefit was achieved by reduction of GHG via replacement of fossil fuel.*
- What could be the main interest points for other regions:
diversified solutions for DH sector in large towns.





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Logo of
your
institution



Biogas Odsherred Smart heating systems

Region Zealand, Denmark

Cristina C. Landt & Tyge Kjær

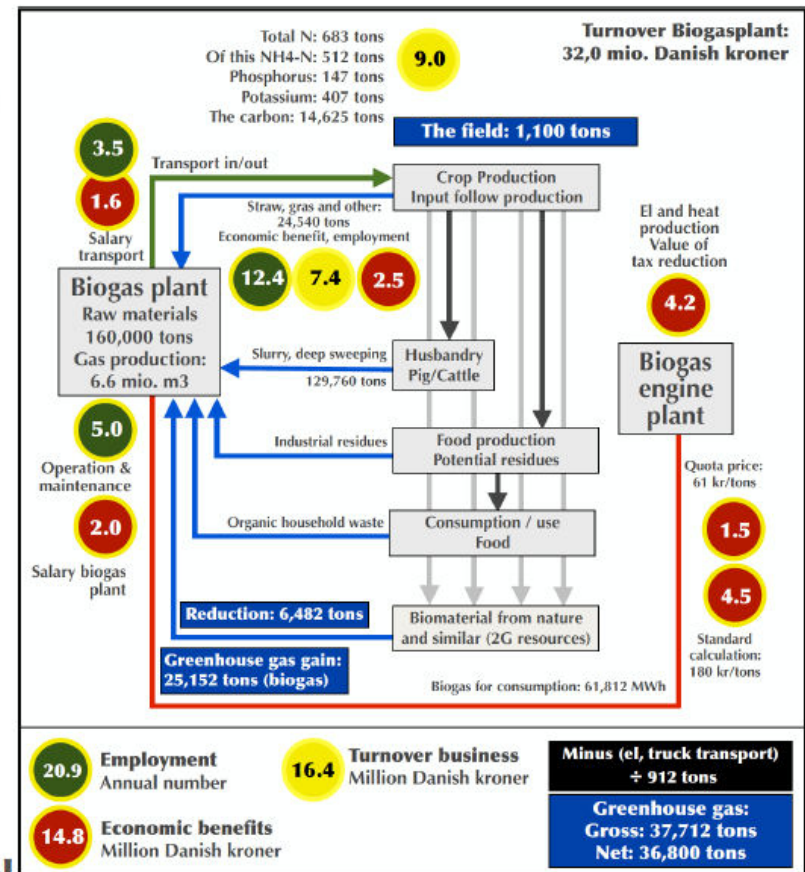
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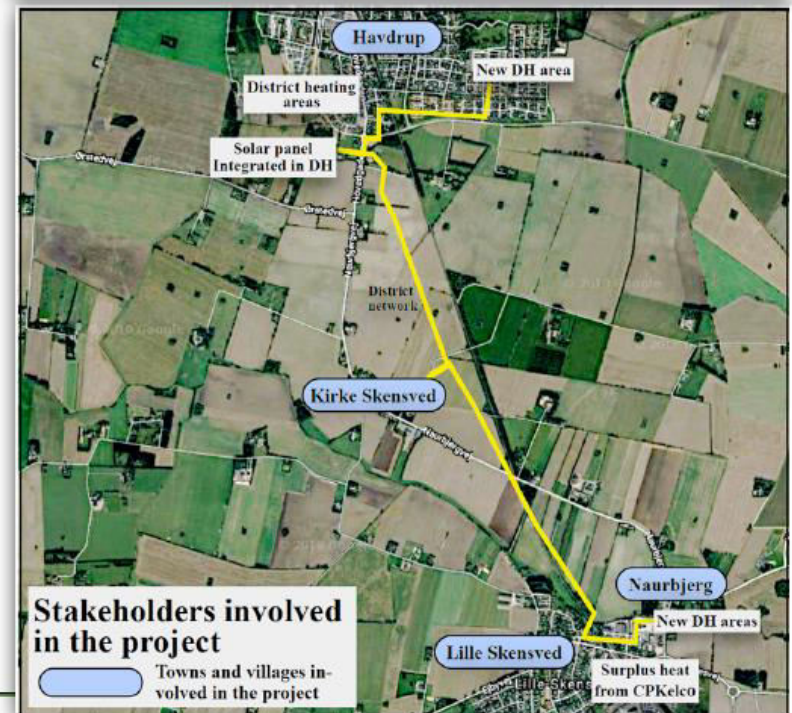
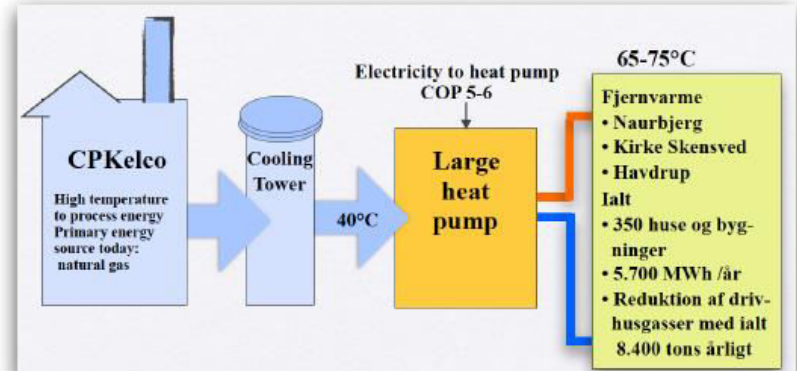
Odsherred Biogas

- **Contribution** to development of the biogas plant
- **Innovative:** Use and optimize the principle of circular economy. Benefit for all stakeholders
- **Proud of in our pilot project:**
 - The plant is under construction
 - Strong local support for the plant
 - Triple benefits: greenhouse gasses, renewable energy, circulation of nutrients + local economy benefits
- **Experiences:** Creating and support local commitment • Patience • Persistence • Focused • Action orientated



Smart heating system

- **Contribution** to development of the district heating system on surplus heat
- **Innovative:** Creating cooperation among companies, municipalities, cities, different interest group
- **Proud of in or pilot project:**
 - That plant will be constructed in 2019
 - Strong local support for the plant
 - Basic benefits: greenhouse gasses cheap and affordable prices
- **Experiences:** Creating and support local commitment • Patience, also patience with state regulation





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KESKI-SUOMEN LIITTO
Regional Council of Central Finland



Geoenergy use in a new residential area in Äänekoski city

Central Finland, Finland

Hannu Koponen, Regional Council of Central Finland

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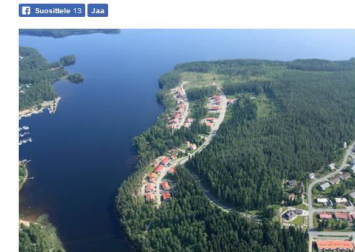
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Geoenergy potential

- Our aim was to show the potential of geoenergy for our municipalities
- Finnish bedrock is very suitable for geoenergy, but it has not been utilized on larger scale
- We succeed in:
 - Showing a potential of geoenergy in one site (Ääneniemi)
 - We increased local knowledge on geoenergy utilization
- This is a potential source for RE especially in areas with challenges on district heating network.

Ääneniemessä saattaa koti lämmitä tulevaisuudessa oman pihan energialla
09.10.2017 11:16



Äänekosken Ääneniemessä on mahdollista hyödyntää kalliooperan geoenergiaa alueen asuntojen lämmitykseen. Tuloksia saatiin Keski-Suomen liiton ja "Baltic Energy Areas – A Planning Perspective" -hankkeen tilaamissa kooperauksissa.