

Smart heating system

Surplus heat from major factory to local community

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Goals: Replacement of Individual Heating from oil and natural gas with surplus heat from a large industrial facility in a district heating system.

The plan: Three steps: (1) Solar heat facility (established 2017); (2) Second phase: District heating for 350 houses/buildings (2018-19); (3) Third phase further district heating in the area of Havdrup (until 2020).

Activities: Planning and involvement process to ensure development and support for the project.

Result: Proposal, approved by the district heating company and the local council of Solrød Municipality (May 2018). The proposal is now under official consultation in the community areas (May and June 2018).

Expected outcome: Energy savings and reduction of greenhouse gases by 8,400 tonnes. Expected total investment around 5 million €.

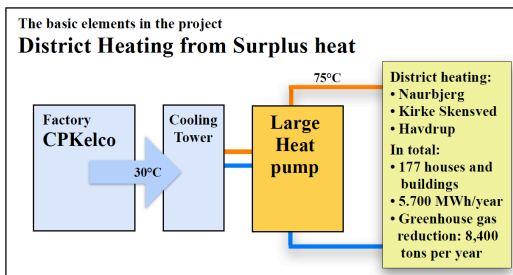


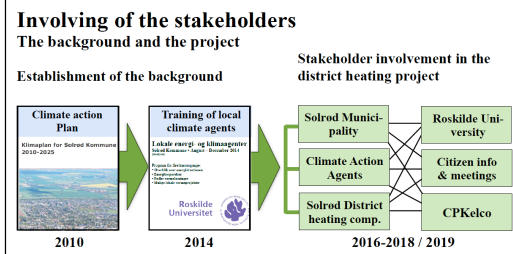
Figure 1. The basic elements in the project

Co-operation links with stakeholders

Involved stakeholder:

- Representatives from the different cities and villages in the municipality (map)
- Supply company (Solrød Fjernvarme a.m.b.a.)
- Solrød Municipality
- Roskilde University
- Energy advisor
- CPKelco – factory with the surplus heat.

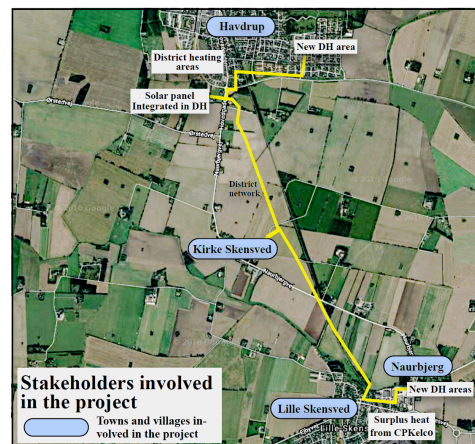
The representatives from the different cities and villages are called »Climate agents«. This group is formed as a result of a course activity that was developed to support the change and climate efforts in Solrød Municipality.



Stakeholder involvement

Tools & Methods

- **Long-term development plan** - Climate plan 2025 (political commitment).
- **Local involvement** - through the establishment of course activities that have given insight into options for conversion of energy supply - open invitation to all interested parties in the municipality.
- **Citizens' Meeting Type 1:** Creating interest in being part of the energy transformation process.
- **Citizens' Meeting Type 2:** Suggestions and presentation of possible solutions
- **Citizens' Meeting Type 3:** Tent meetings, festival, etc.
- **Communication** through two-step communication (through climate agents to the local community).
- **Prefeasibility studies** - presentation of solutions corresponding with expressed interests and wishes of the involved stakeholder.



Main outcome from the involvement process:

- Stakeholder involvement has been continuous throughout the whole process.
- The broad stakeholder organization have been very supportive.
- Participant involvement is mainly based *firstly* clear political commitment (Municipal climate action plan) and *secondly* in training of local climate agents (»Klimaagenterne«).

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