

Smart heating system

The Goals:

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

The project 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.

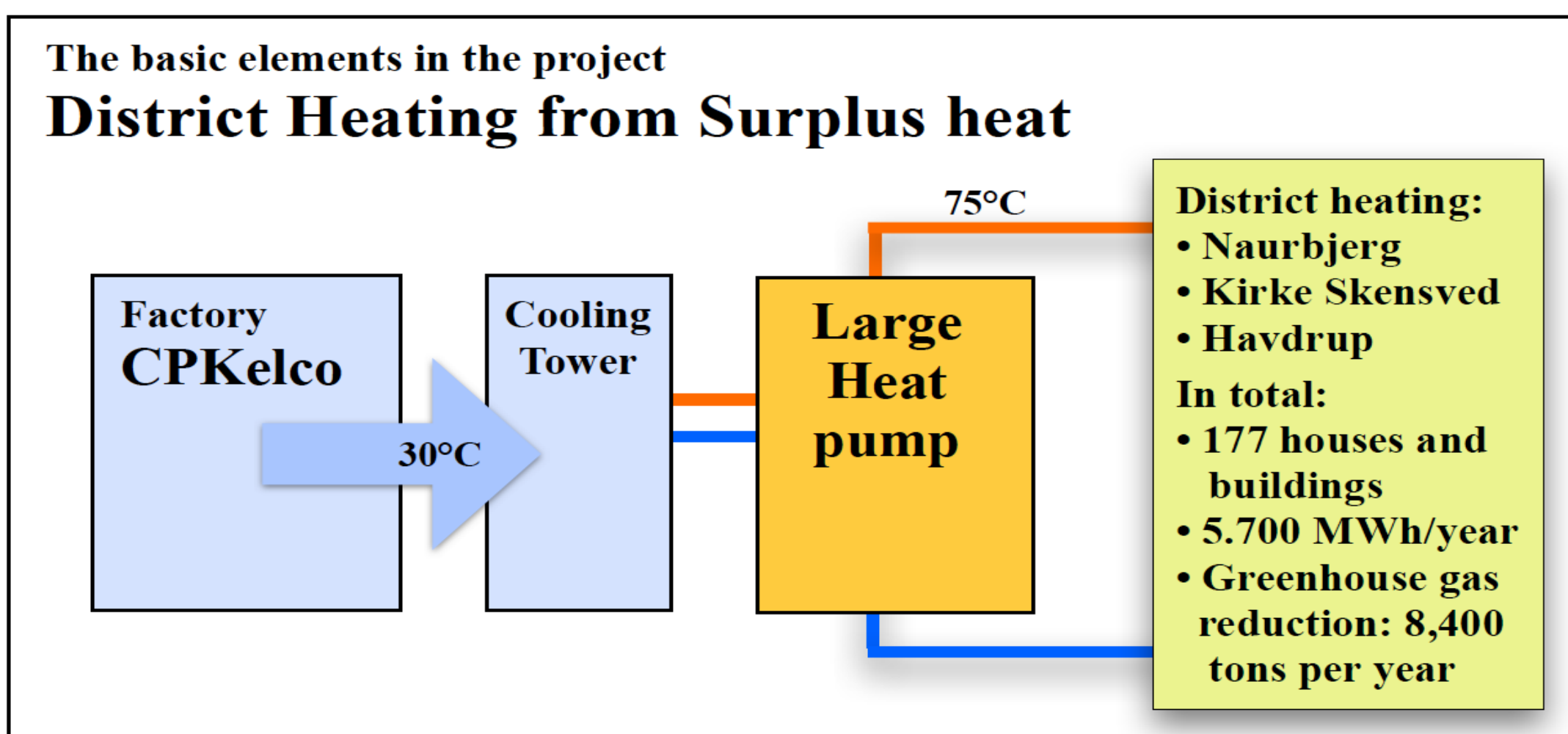


Figure 1. The basic elements in the project

Main results

Result:

Proposal, approved by the district heating company and the local council of Solrød Municipality. After the official consultation the proposal has been approved by the municipal board. Throughout the hearing, the project has become so popular that there has been a wish for extension of the project. Therefore, a supplement has been prepared for the project, which is now under a new consultation and is approved by the municipal council in October 2018. It is now in public hearing, to be finalized in February 2019.

Expected outcome:

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

Main aspects and lessons learned

There has continuously been prepared analysis of the technical and economic feasibility. It has implied a dynamic interaction between the utility company (Solrød Fjernvarme) and the municipality on the one hand, and the people and communities that need to decide on the possibilities on the other hand.

The stakeholders: The long-term climate change plan and training of local climate agents have created a well-founded basis for support for and interest in the surplus heat project. In the development and implementation of the project, a number of stakeholders have been involved, where the most important are:

- 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 – Rambøll.
- CPKelco – factory with the surplus heat.

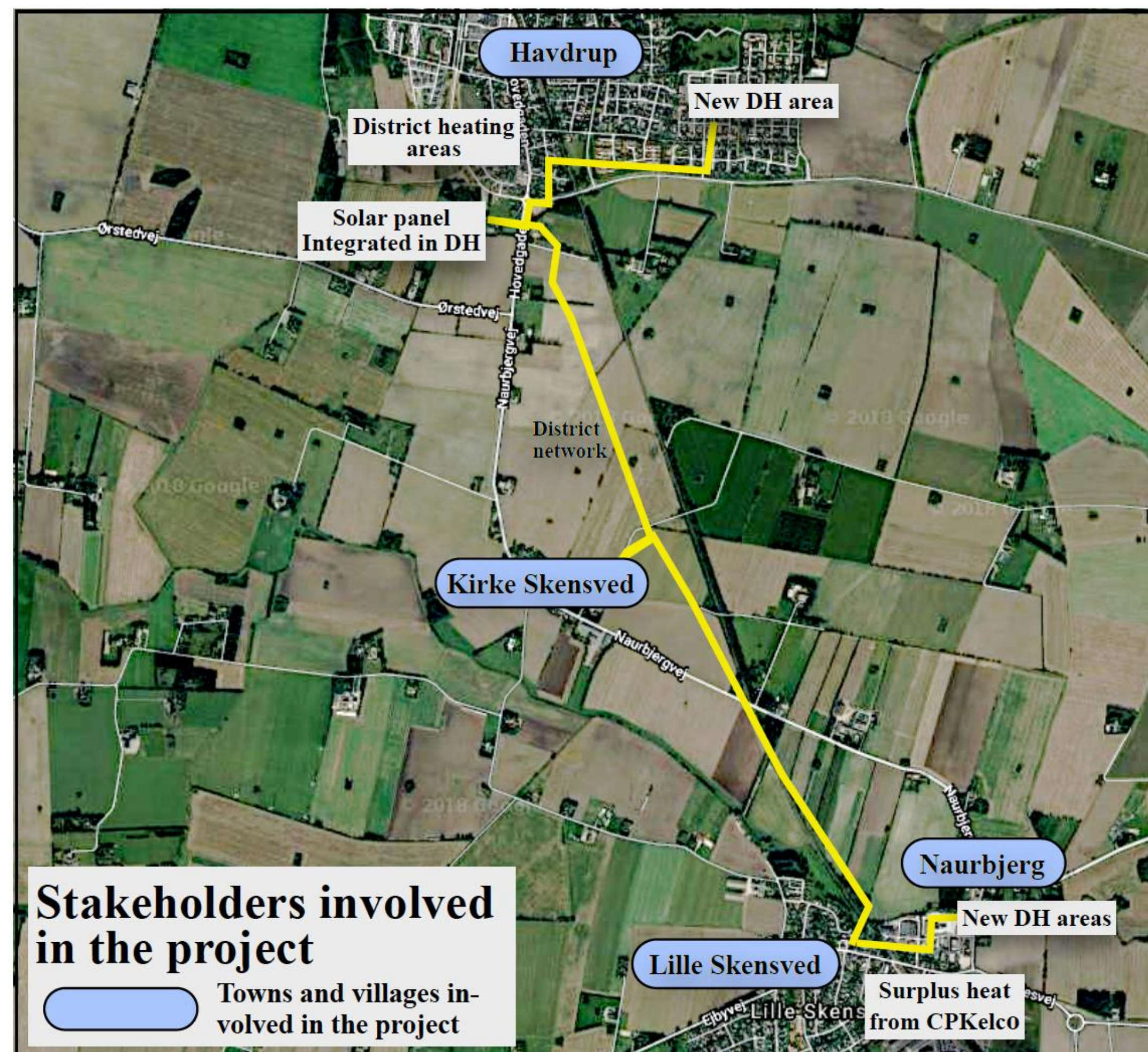


Figure 2. Stakeholders involved in the project

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