

Solar District Heating and actions from policy to market (SDHp2m): switching from fossil fuels to renewable energy

Innovation in the Renewable Heating and Cooling sector
Sustainable Energy Week
21 June 2017, Brussels

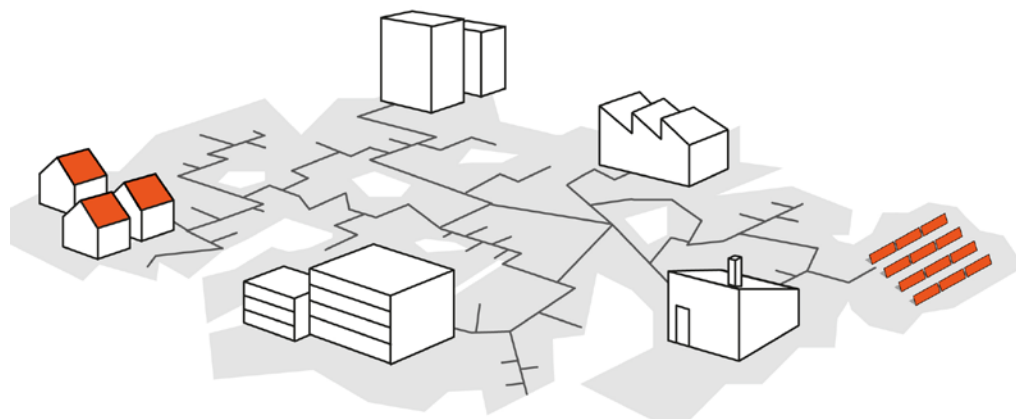
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Thermal Energy
Systems

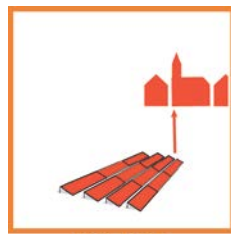
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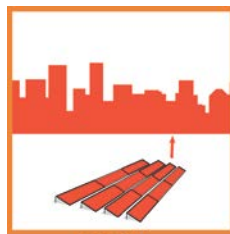
District Heating – Platform for RES and efficiency technologies



DISTRICT



VILLAGE



CITY

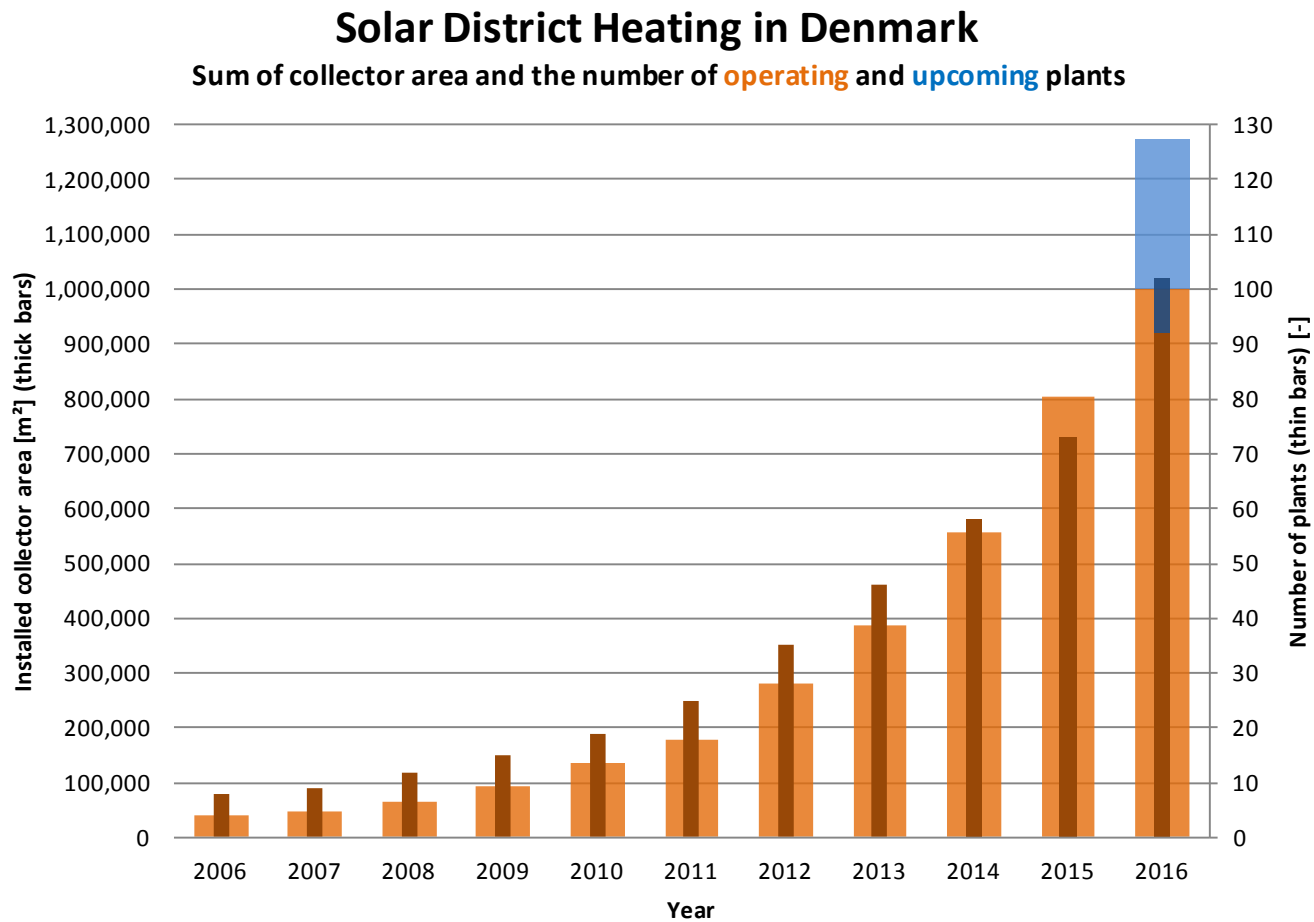
- biomass (heat plants, CHP)
- solar thermal
- geothermal
- CHP
- industry surplus heat
- power-to-heat from RES (electric boilers, heat pumps)
- thermal energy storage

Key points of solar thermal energy in district heating networks



- Emission-free and really renewable
- Local activity
- Possible everywhere, high availability, however need for areas
- Mature and available on the market
- Power up to 150 MW
- Solar fraction up to 50 %
- Stable heat costs under 50 €/MWh, before incentives!
- New opportunities in the heating market

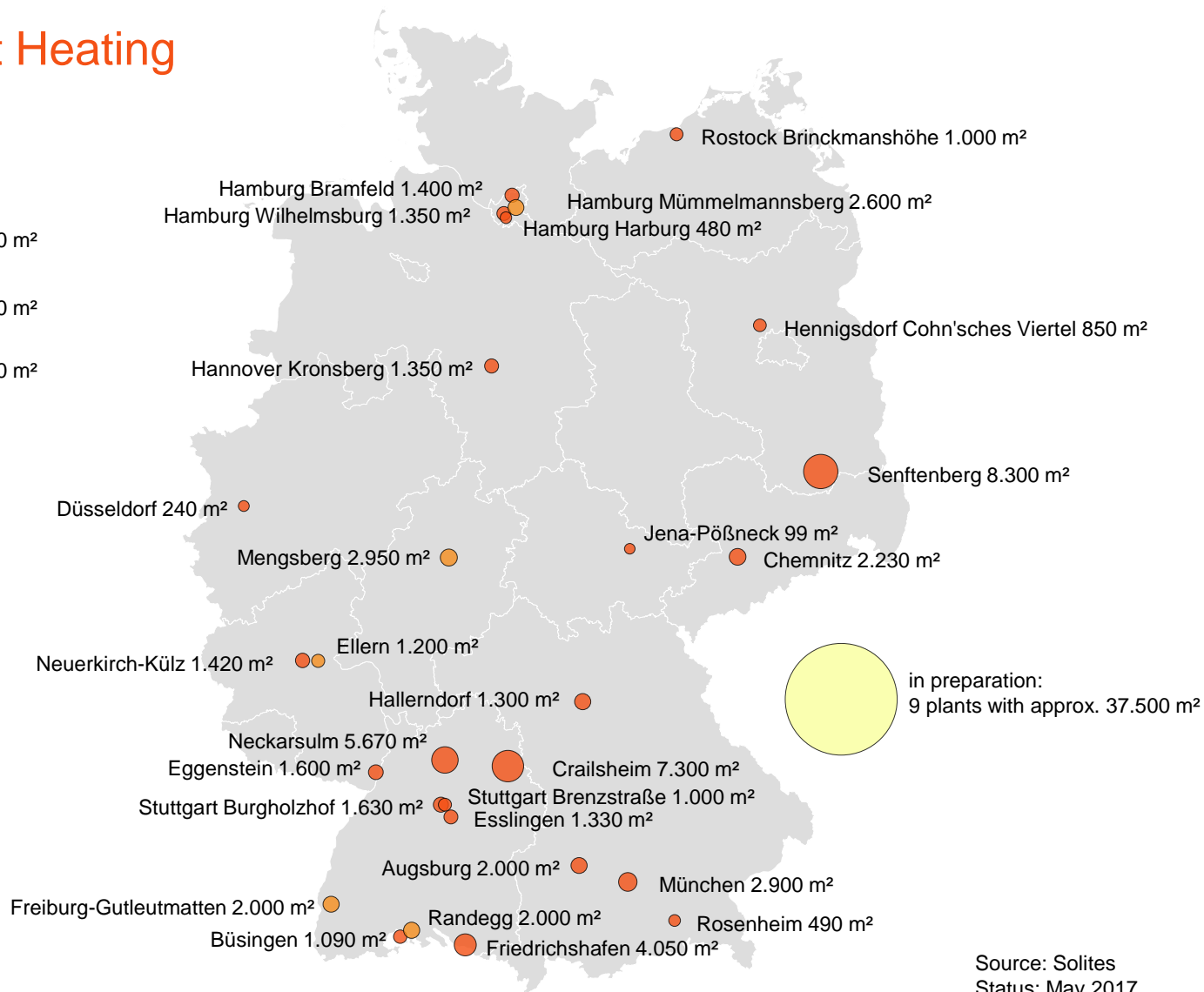
Solar district heating in Denmark



Source: Planenergi, DK

Solar District Heating in Germany

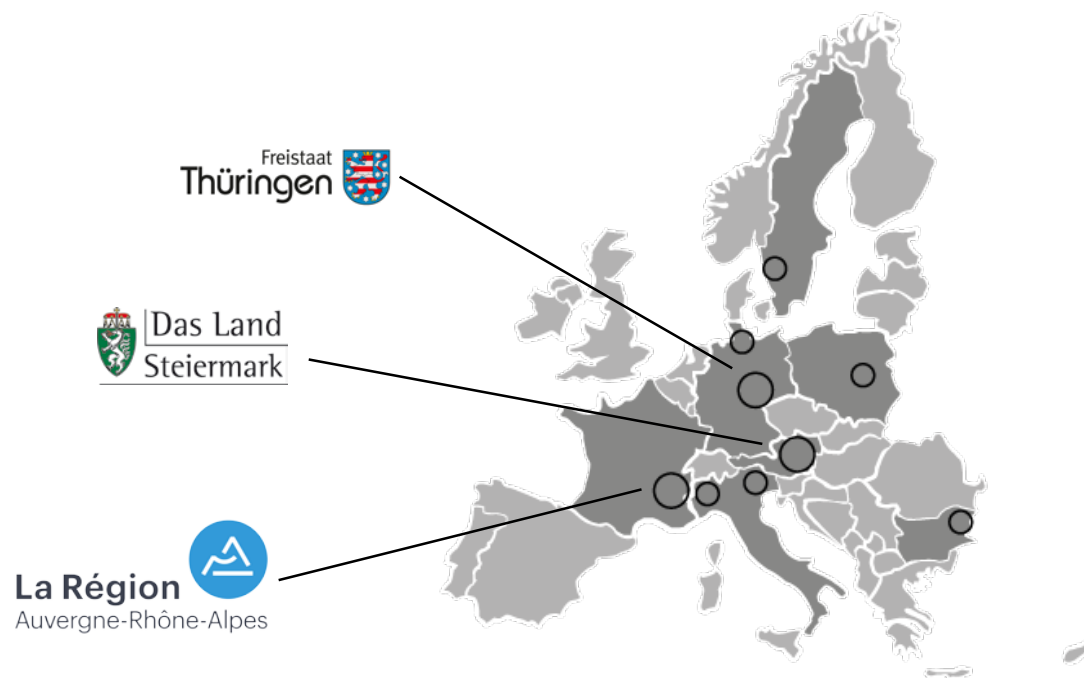
- in operation:
approximately 49.600 m²
- in planning:
approximately 10.750 m²
- in preparation:
approximately 37.500 m²



Source: Solites
Status: May 2017

SDHp2m ... from policy to market

- Focus on regional authorities
- Bridging the gap between policy and market
- Advanced policy and support measures for SDH



Six follower regions:

- Varna (BG)
- Veneto, Valle d'Aosta (IT)
- Västra Götaland (SE)
- Mazowsze (PL)
- Hamburg (DE)

Aims

- Establish solar thermal as 'normal' heat producer in DHC markets and processes
 - Information, capacity building, support to market actors, sustainability
 - Consideration in projects by DHC operators, utilities and municipalities
- Create a SDH favourable framework (policy, regulations, heat planning and urban planning, areas)
- Use strong interest in RES DHC by regional policy makers and authorities
- Continuation of vital international cooperation, transfer and coaching

Status of work

- All regions created active stakeholder groups
- Detailed action plans have been set up
- Implementation going on

- Hot topics:
 - RES DHC supporting regional laws
 - practical regulations and procedures (e.g. areas, heat planning)
 - access to financing
 - specific financial support
 - direct addressing of market actors in specific sectors
 - events and follow-up support



The SDHp2m project



www.solar-district-heating.eu

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Implementing
authorities:



Consultant
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Supported by:



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691624

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