Solar District Heating and actions from policy to market (SDHp2m)

REN21 & SDH webinar
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Dipl.-Ing. Laure Deschaintre

Steinbeis Research Institute for Solar and Sustainable Thermal Energy

Meitnerstr. 8
D-70563 Stuttgart
www.solites.de
District Heating – Platform for RES and efficiency technologies

- 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
252 solar thermal plant for the generation of heating and cooling with over 500 m² collector area (May 2016)
Solar district heating in Denmark

Solar District Heating in Denmark
Sum of collector area and the number of operating and upcoming plants

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
SDH projects

- 2009-2012: *SDHtake-off* ... start of the cooperation between ST and DH sectors
- 2012-2015: *SDHplus* ... measures for market introduction and business models
- 2016-2018: *SDHp2m* ... policy to market

Advanced policies and market support measures for mobilizing solar district heating investments in European target regions and countries
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
Energy to move forward
The team of Auvergne-Rhône-Alpes
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

Coordinator and contact: Steinbeis Research Institute for Solar and Sustainable Thermal Energy Systems
Dipl.-Ing. Thomas Pauschinger,
www.solites.de

Implementing authorities:

Consultant partners:

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