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

Heating and Cooling Research: Envisioning Tomorrow
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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
Solar District Heating – Market situation in Europe

252 solar thermal plant for the generation of heating and cooling with over 500 m² collector area (May 2016)
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
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:
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Consultant partners:
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