



Innovation Fund Denmark



AALBORG UNIVERSITY
DENMARK

Panel debate

Drivers and ownership models
- how to spread district heating in Europe

Next year:

4th INTERNATIONAL CONFERENCE ON
**SMART ENERGY SYSTEMS AND
4TH GENERATION DISTRICT HEATING**

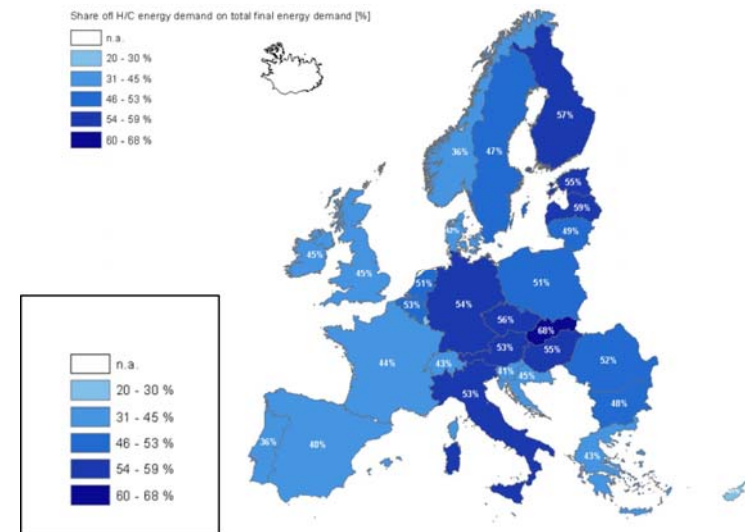
13–14 NOVEMBER 2018, AALBORG



AALBORG UNIVERSITY
DENMARK

Panel motivation from Data in Heat Roadmap Europe

- Why is the global level of DH only 8% globally and 12% in Europe? Waste heat can nearly cover the total heat demands in the current building stock in Europe?
- Why is the focus on heat demands (that is dominant) not dominant compared to electricity?
- What ownership models are suitable for “natural monopolies” and is district heating infrastructure different from gas and electricity infrastructures?
- Which of the 28 ownership paradigms being tested in the EU are facilitating innovation in the heating sector and which are not?



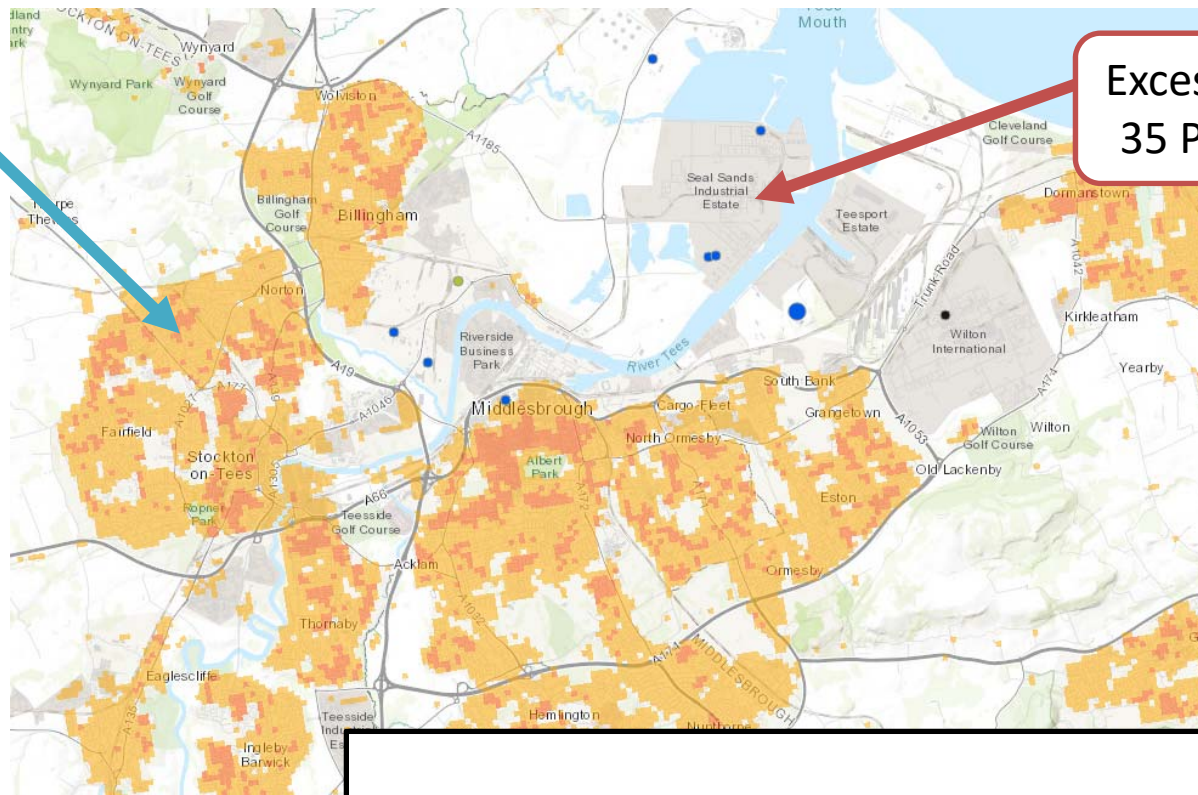
#SES4DH2017



AALBORG UNIVERSITY
DENMARK

Heat Demand
Suitable for DH
10 PJ/Year

Excess Heat
35 PJ/Year



AALBORG UNIVERSITY
DENMARK



This project has received funding from the European Union's
Horizon 2020 research and Innovation programme under grant agreement No. 695989.

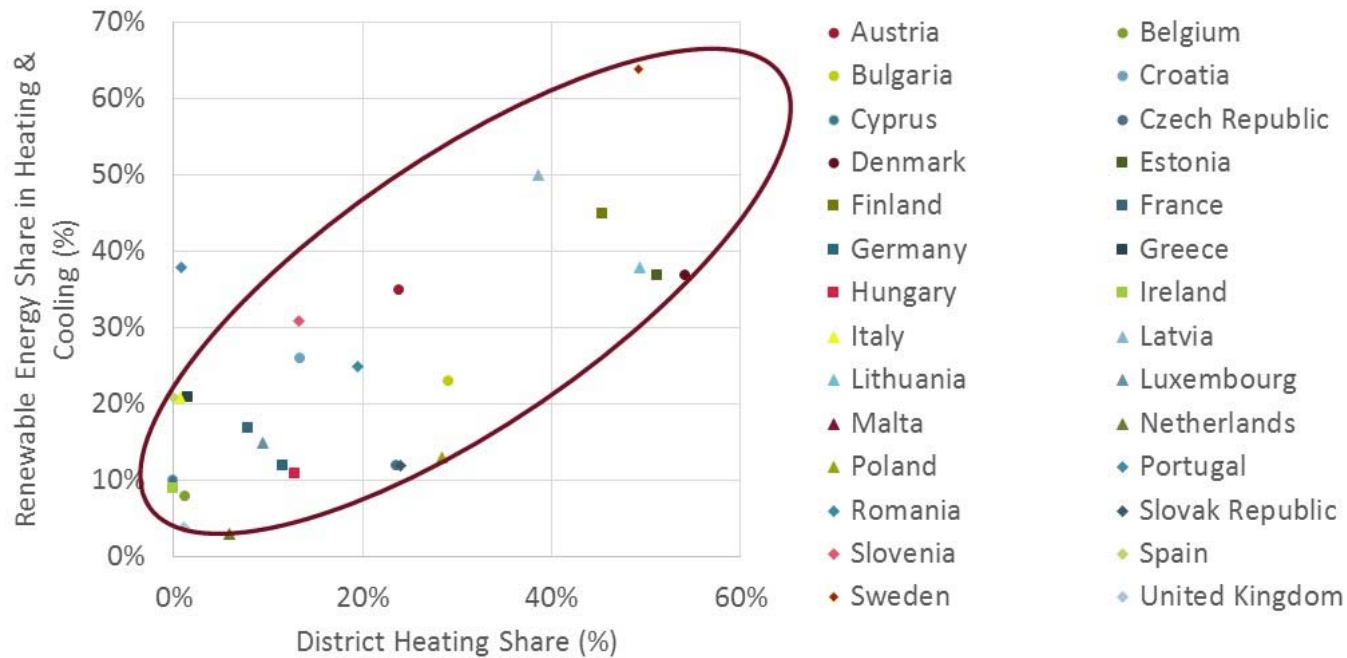
Pan-European Thermal Atlas: www.heatroadmap.eu
Case Study: Middlesbrough, UK (350,000 People)



AALBORG UNIVERSITY
DENMARK

Proven Technology!

Renewable Energy vs. District Heating



Why is the market share with district heating so different throughout Europe and why is the level of renewable energy significantly different from one country to another?



AALBORG UNIVERSITY
DENMARK

Panel debate

Drivers and ownership models - how to spread district heating in Europe



- Eva Hoos, Policy Officer, Energy Efficiency (DG ENERGY)
- Katrina Folland, coordinator, CELSIUS
- Ingo Weidlich, Professor, HafenCity University Hamburg
- Søren Djørup assistant professor, Aalborg University
- Brian Vad Mathiesen, Professor, Aalborg University



#SES4DH2017