

# CELSIUS Summit 2017: The Power of Networks

## Messages of importance in round-table discussions



### Citizen engagement and pricing

*Moderated by Bengt Göran Dalman, BG Dalman AB*

- A lower price than the alternative is important; poverty is a problem
- Acceptance demands a strong commitment from both the government and city council
- Long term contracts without changes is a problem today and it will grow in the future

### Seasonal and short-term thermal storage and solar DH

*Moderated by Håkan Andersson, Skanska and Torsten Luetten, SavoSolar*

- It is important to clarify possible ways to store energy: as electricity, as rotational energy, as chemical energy, as pressure, as heat
- It is also important to explore the time frame of storage; if it is for hours, days or months
- It is valuable to find activities that has an impact on decarbonising heat supplies

### Network planning, connecting heat producers and CHP

*Moderated by Lars Larsson, Borlänge Energi AB and Lars Bern, Business Region Gothenburg*

- Leak detection to identify losses are important in the UK due to cost of energy and energy poverty. At the same time, the house standards are driven by fuel/energy prices
- Cost-effectiveness in low-temperature systems for new systems
- It is important to establish functional business models for prosumers, to answer what price is right of excess heat, and who invests in the infrastructure
- Price is the driver rather than CO<sub>2</sub> when it comes to waste heat; CO<sub>2</sub> taxes can be beneficial
- Reliability of supply; one reason why excess heat is not priced as prime energy

### District Cooling

*Moderated by Bernt Andersson, Golden Forest and Anna Svernlöv, Göteborg Energi AB*

- Society infrastructure investment: system perspective is needed
- Pricing policy for waste energy: variable over seasons for absorption chiller implementation
- Technical solutions vary depending on local conditions, free cooling, waste heat etc
- Challenge to phase out refrigerants

### Smart Home Field Test, Cologne

*Moderated by Thorsten Schneiders and Simon Rehm, University of Applied Sciences of Cologne*

- Interface between technology and news is of utmost importance
- The human factor is a strong influence and it is difficult to communicate
- We need to know more about the underlying behaviours of the heat consumers and see how we can provide suitable technical solutions

### Circular energy/economy and investments

*Moderated by Andy van den Dobbelsteen, TU Delft and Lars Holmquist, Göteborg Energi AB*

- How to export Swedish know-how
- Where are the decisions made to heat houses, cities, regions
- There is a great value in the DH infrastructure
- There is a difference in how to approach building new systems and developing existing ones