

Stakeholder Survey – Urban Heating and Cooling Transition

Aksana Krasatsenka,
Euroheat & Power / DHC+



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Accelerate the **energy transition** through the deployment of **smart and sustainable heating and cooling solutions** in **cities** and accelerating their **market uptake**.



Celsius Stakeholder Survey – Urban Heating and Cooling Transition

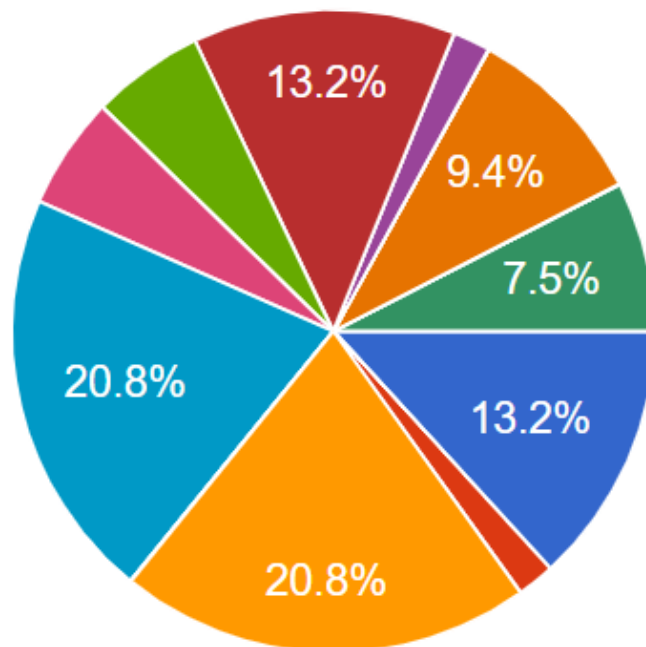


- ✓ Analyse stakeholders' **awareness and understanding** of **DHC** and its role in realising the **EU's climate and energy objectives**
- ✓ **Relevant stakeholders** include the European institutions and the wider EU policy community, representatives of civil society, industry and academia



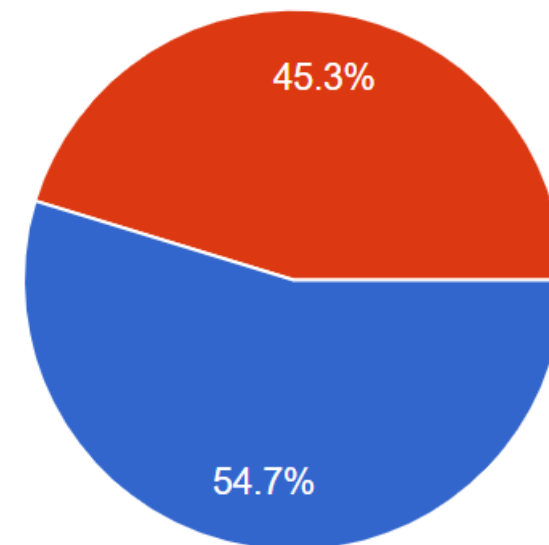
Organisation type

53 responses



- Academic - University / Institute / Res...
- Consultancy - Engineering / Design / ...
- Utility / Operator
- Association / Federation
- Municipal Sector - City / County

How much do you know about district heating & cooling (DHC)?



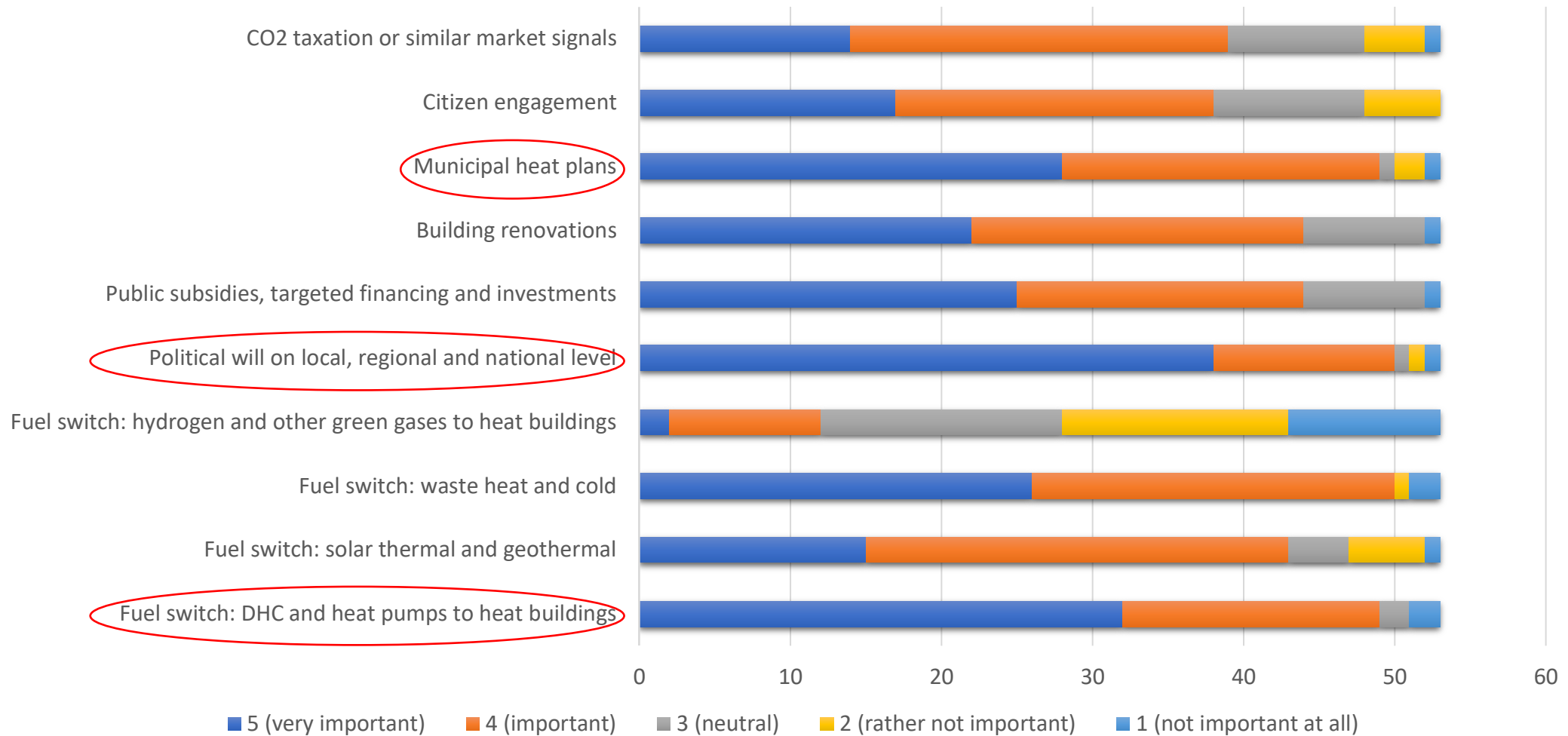
- I am an expert
- I know a bit
- I don't know anything about DHC



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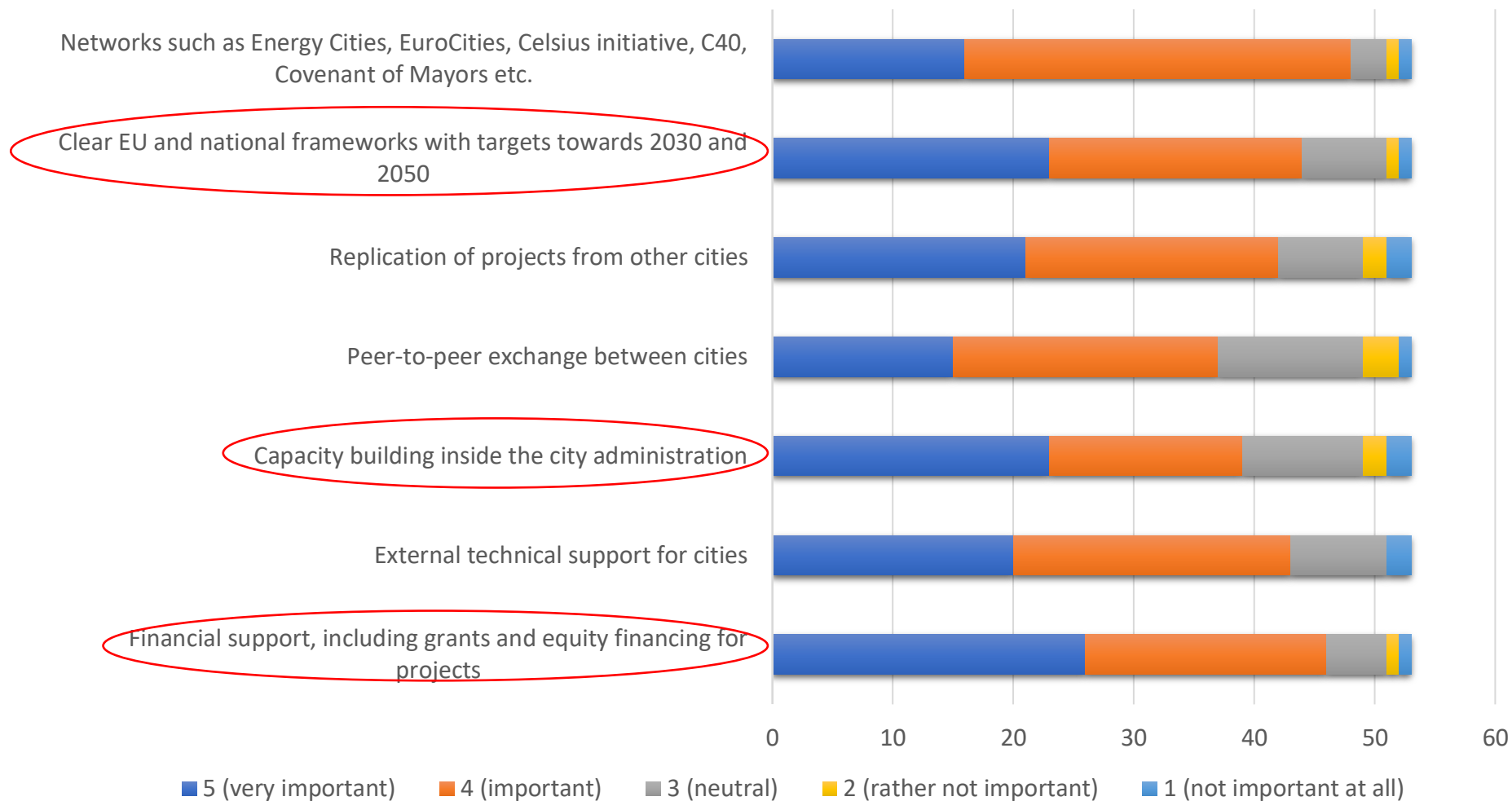


Topics Important to Achieve a Fast Heat Transition in Cities

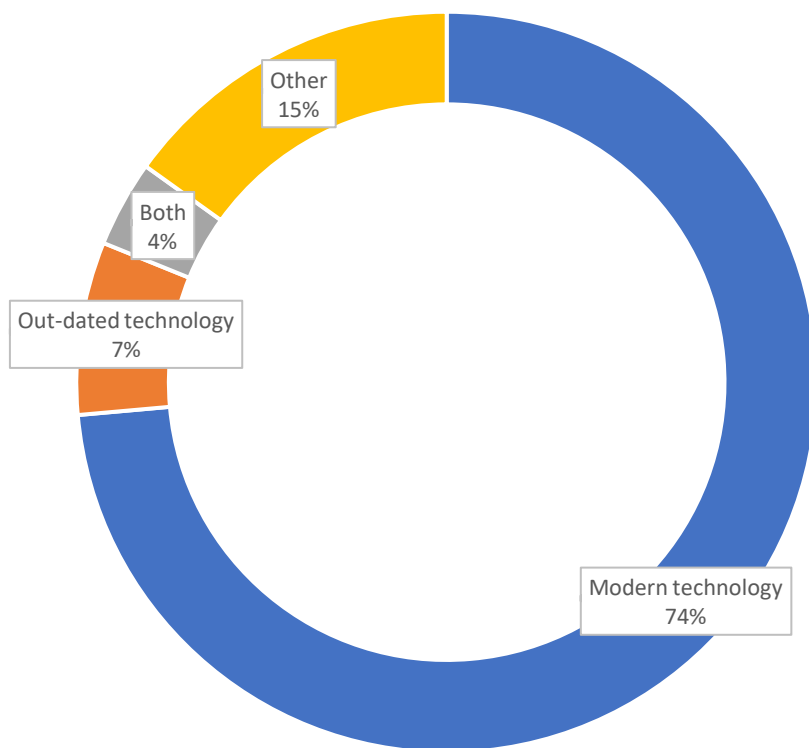




Factors to Empower Cities in their Heat Transition



District Heating and Cooling Networks are...

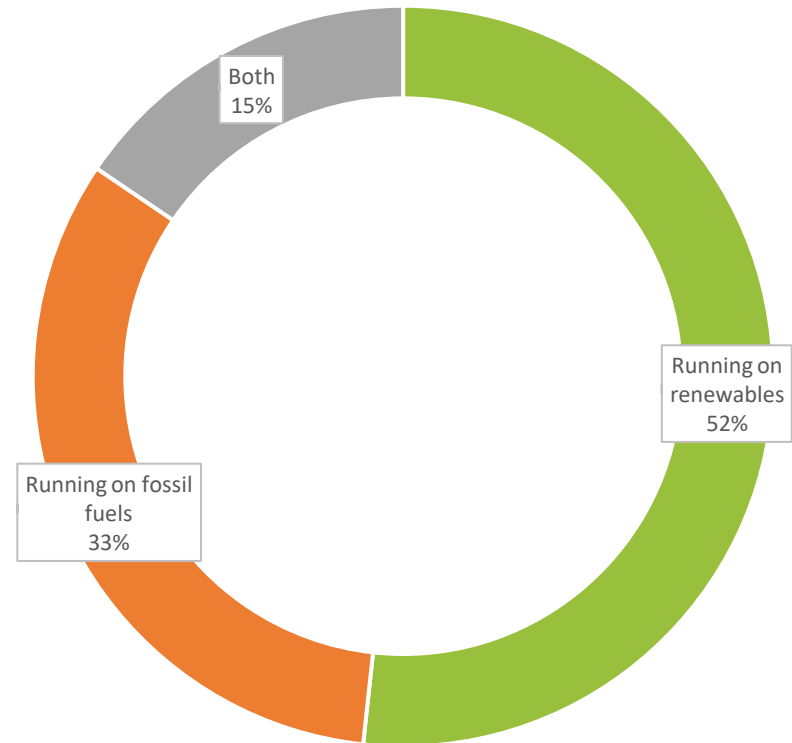


- *A well-known technology that requires modernisation*
- *an established and future-proofed technology in urban areas*
- *It's an old technology that is still improving with different generations*
- *an old and well tested method to achieve system efficiency*
- *an important technology that can be modern (4GDH) but also out-dated (1GDH)*
- *A key to a successful Energy Transition of the heating sector*
- *promising*

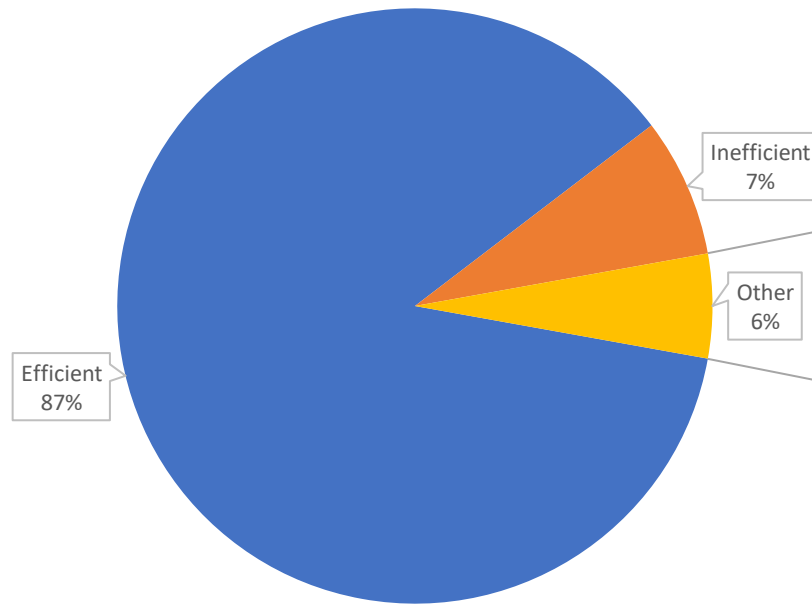


District Heating and Cooling Networks are...

- *Depends on the local conditions*
- *should be running on renewables but they need to transition like all other energy systems*
- *must be transformed to low-temperature distribution systems with high shares of waste heat or renewable heat*
- *Currently not good enough but have a large potential for decarbonisation*



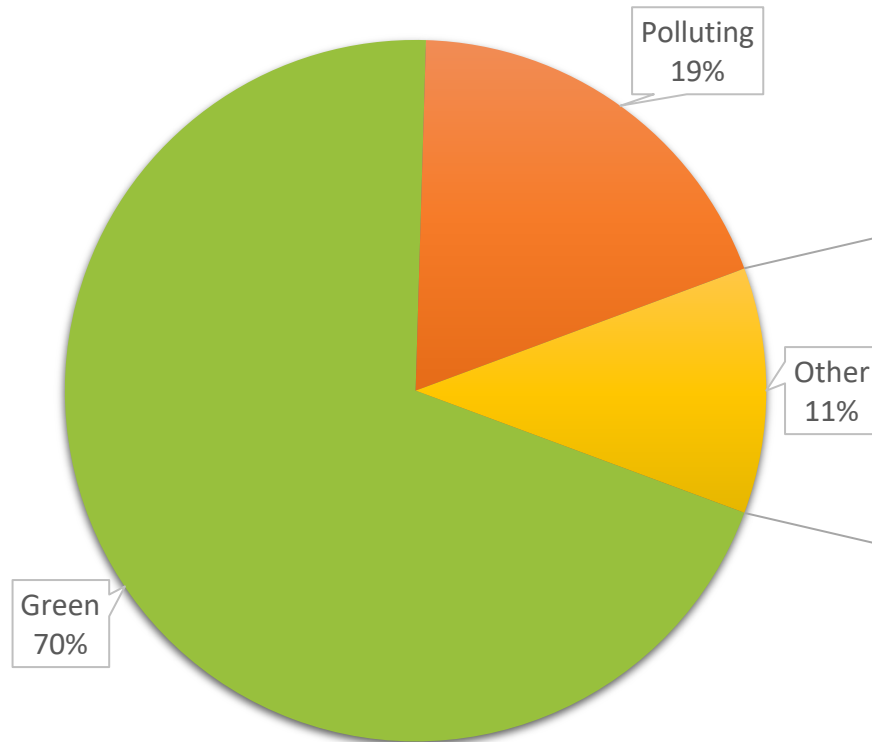
District Heating and Cooling Networks are...



- *some are inefficient but the path to make them more efficient is well documented*
- *Efficiency is related to system age and energy sources*
- *Efficient when exploit renewables and low temperature fluid*
- *very varied, but should all be brought to high performance*



District Heating and Cooling Networks are...



- *we need to be aware that not all are operating in a green way - coal, gas and out of date and inefficient systems*
- *This is dependent upon the energy sources and system efficiency*
- *Highly efficient with the potential to be green*
- *a key infrastructure in cities*

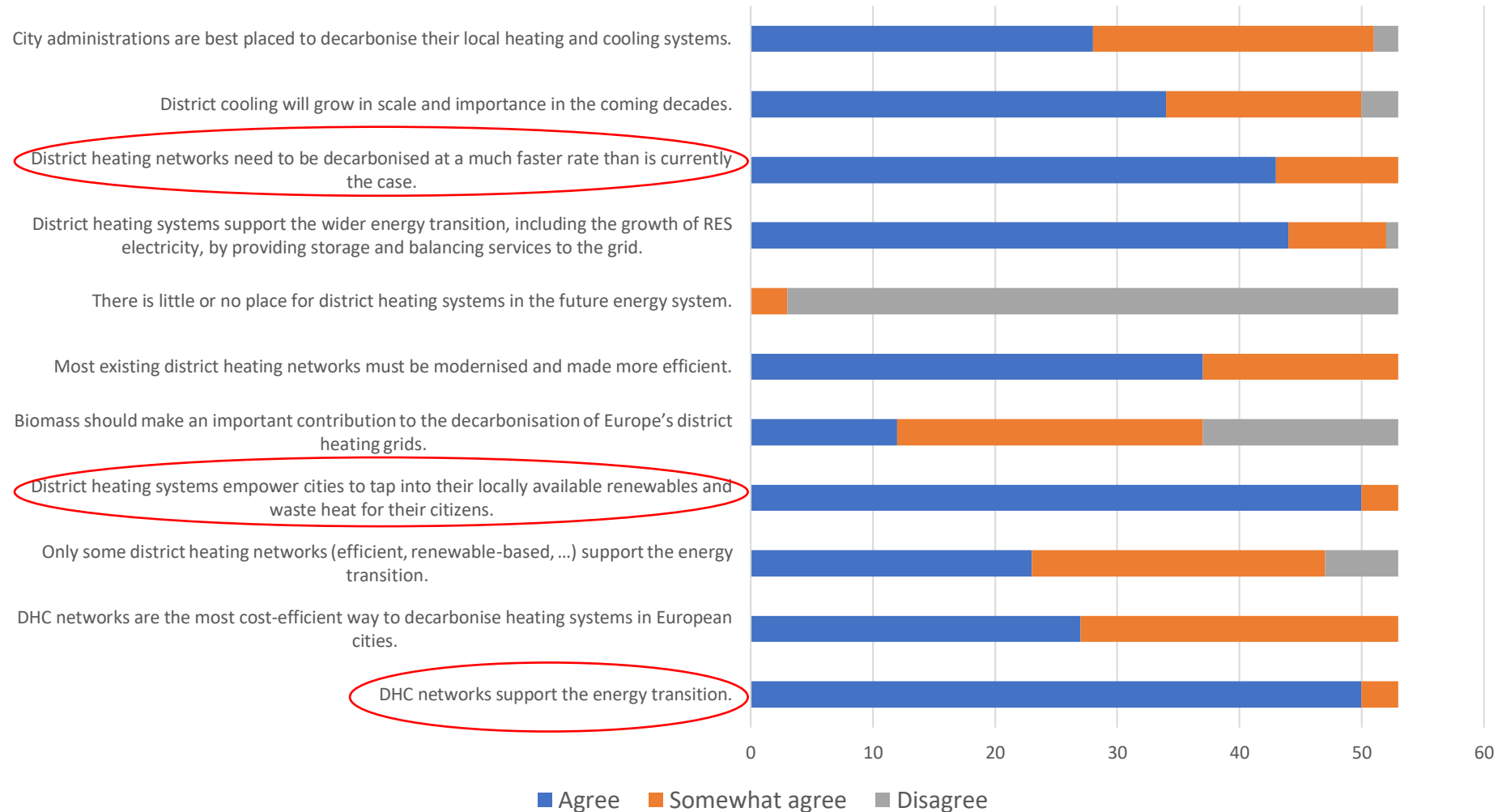
District Heating and Cooling Networks are...

- *there will be the future only if the boundary conditions allow in some countries*
- *It's a local product that has to be situational*
- *part of an integrated fully electrified (renewable) energy system*
- *important not to forget the past (especially all the warmth DH brought, even if not done in a most efficient way)*





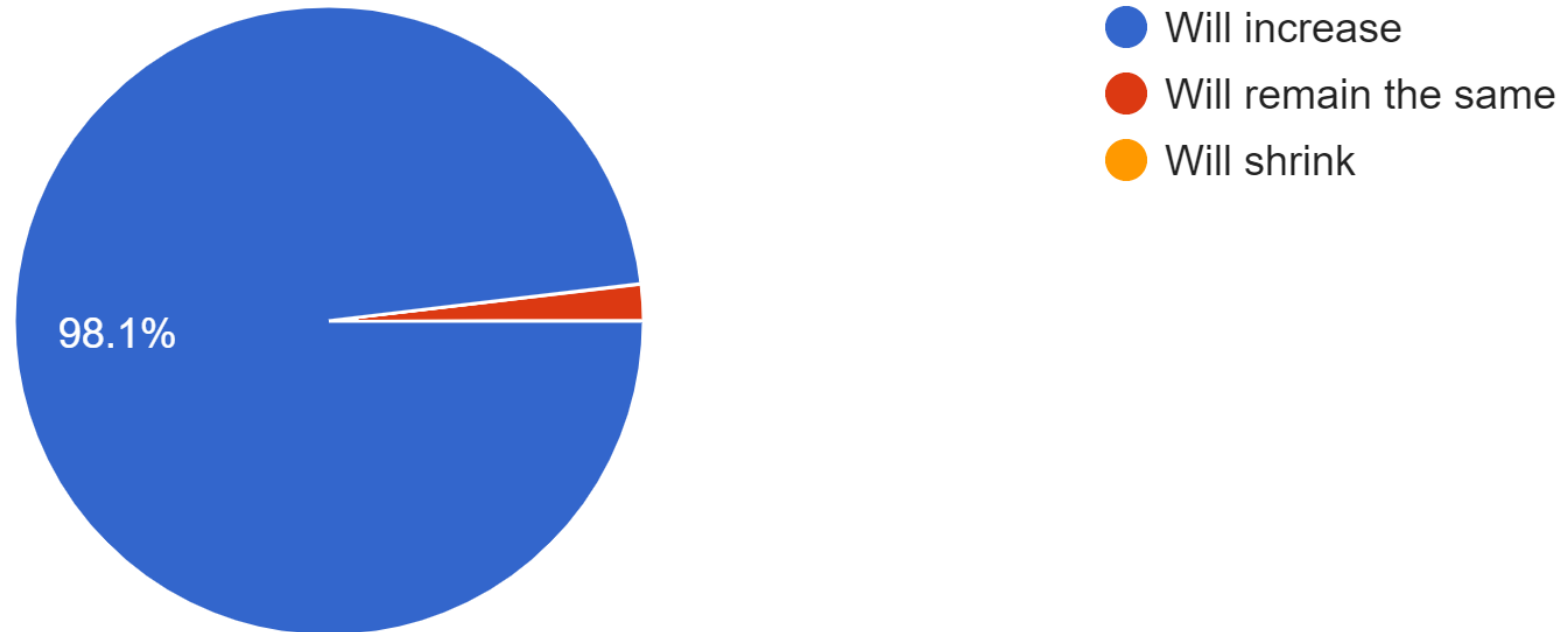
Rate the Statements





Today, DH accounts for about 13% of the heating and cooling in Europe. According to you, which role will district heating and cooling networks play in the future energy system, especially in cities?

53 responses



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