

Decarbonising Industrial Heat: Challenge or Opportunity for European Competitiveness?

4 December 2018, Brussels

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COGEN Europe Members

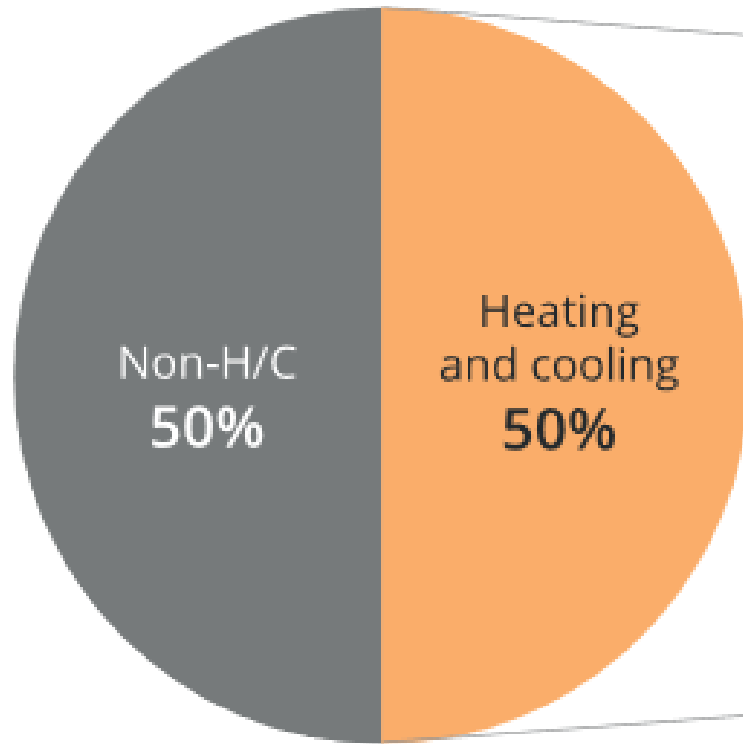
NATIONAL ASOCIATIONS



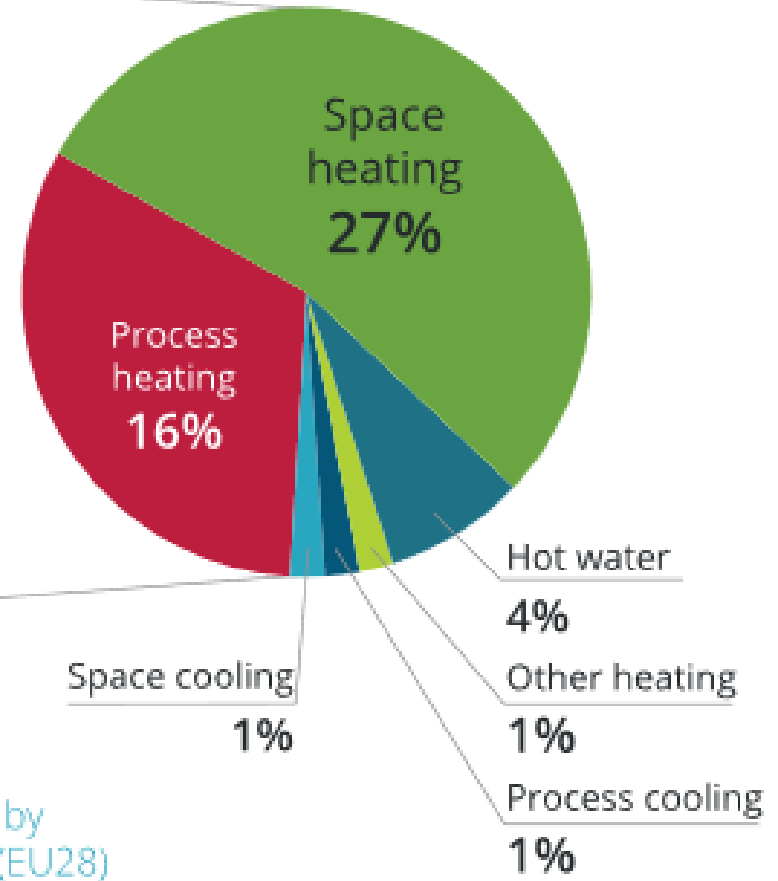
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Why a focus on industrial heat?



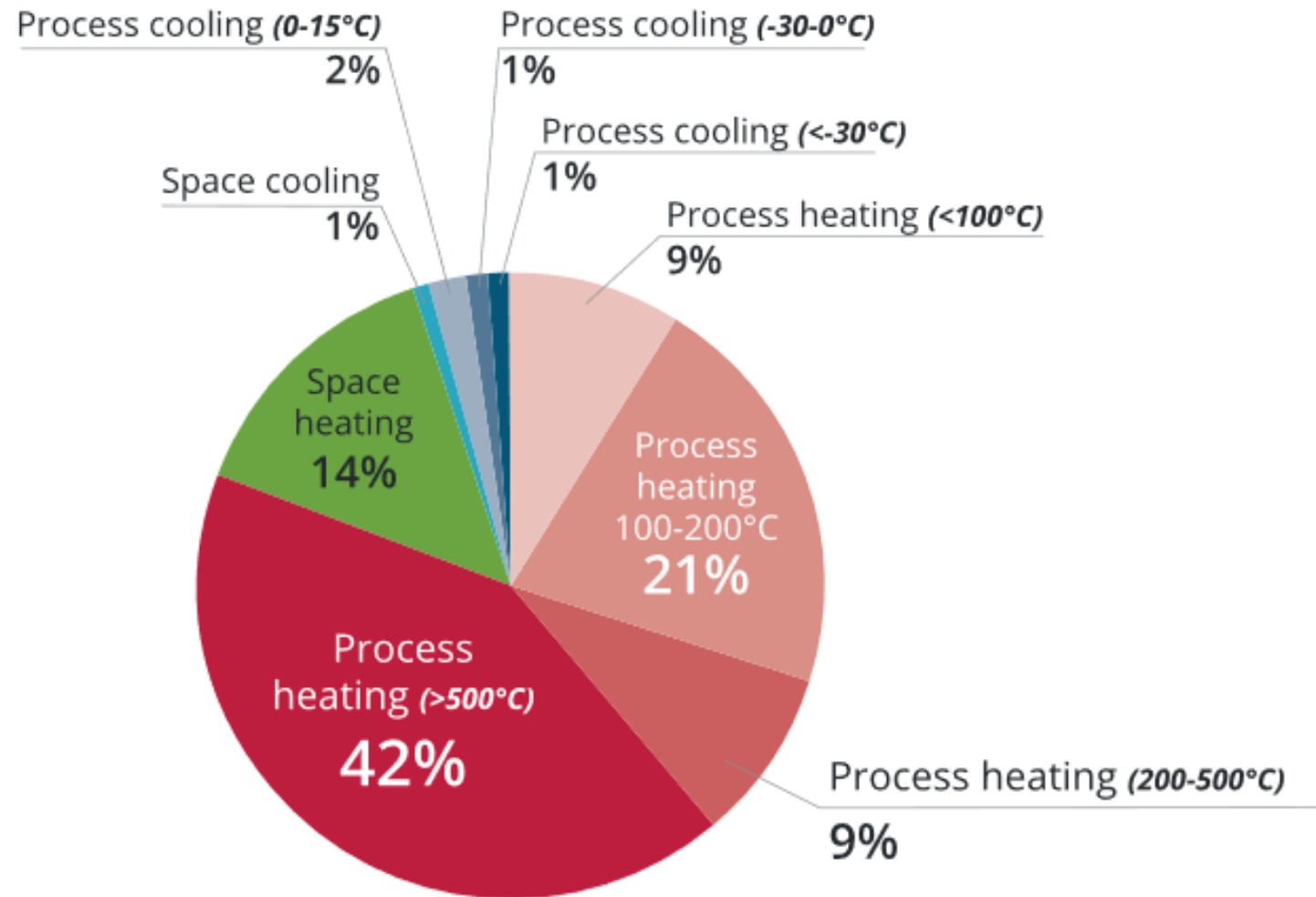
Total final energy in 2015 (EU28)



H&C final energy by end-use in 2015 (EU28)

The Challenges of Tackling Industrial Heat - I

- High temperatures required in many industries
- In some cases continuous supply



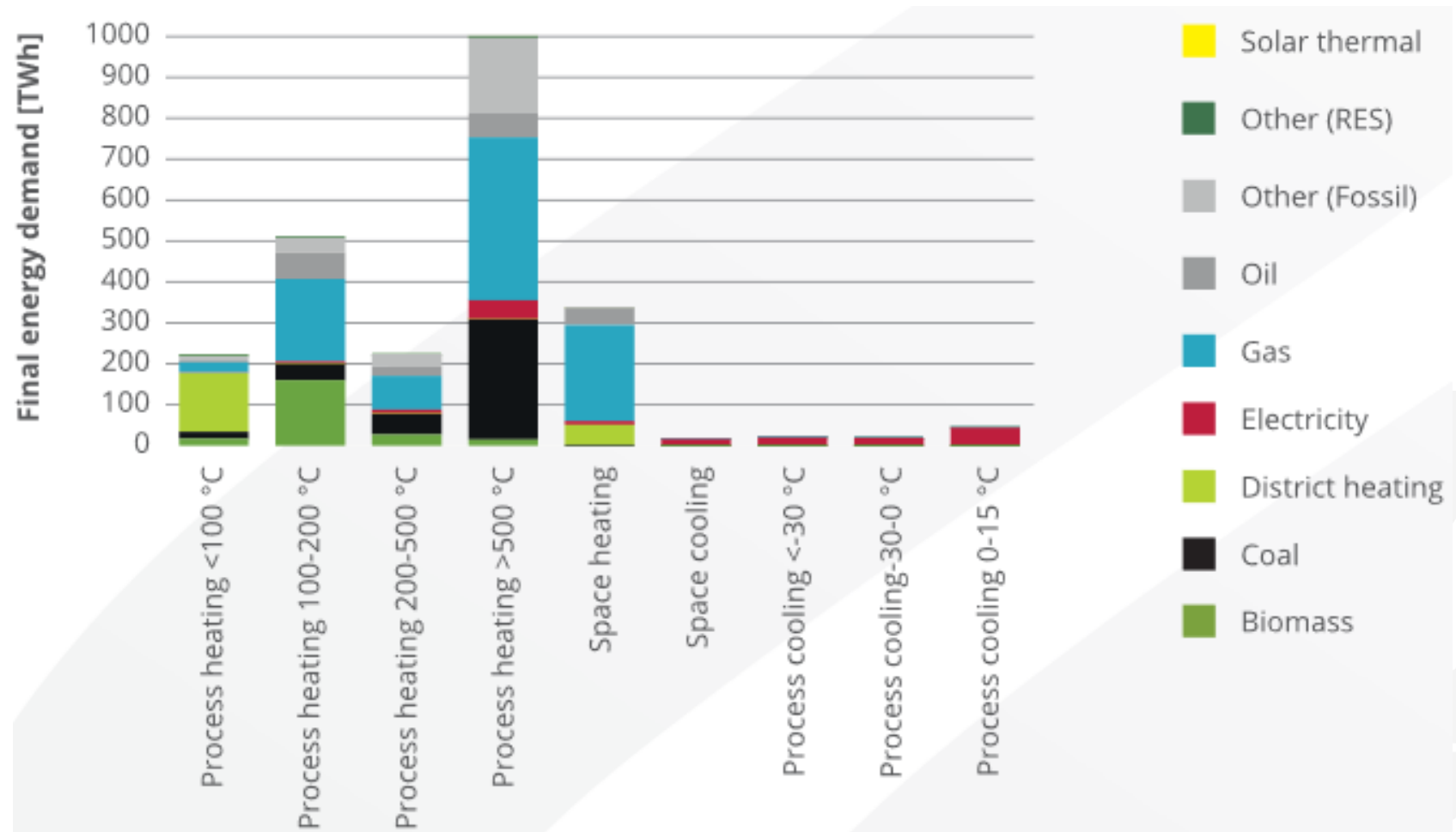
The Challenges of Tackling Industrial Heat - II

Many key questions to debate:

What role for electrification?

Where can fuel switch best deliver?

...



Industry end-use and energy carrier (EU28, 2015)

Cost-effectively Decarbonising Industrial Heat

- **Need dedicated approaches to meet the varying heat needs of energy users** (industry, SMEs, public buildings, households)
- Ensure cost-effectiveness and safeguard competitiveness of Europe's Industry
- Secure supply of energy (e.g. continuity of heat supply)
- Consider all storage solutions (electricity, heat and chemical)

Maximising Cogeneration's Benefits in the Future Energy System

- **Apply 'Energy Efficiency first' principle**
 - Prioritise efficient supply of energy (focus on primary energy savings)
 - Use ALL energy sources efficiently, including renewable fuels
 - Set cogeneration as default for thermally produced heat and power
- **System approach needed, not silo approach (e.g. electricity or heat only)**
 - Ensure level playing field between technologies, networks and services delivering decarbonisation, renewable integration and wider system benefits in cost-effective way