

CELSIUS Talk: Integration of heat, power and intermittent renewables

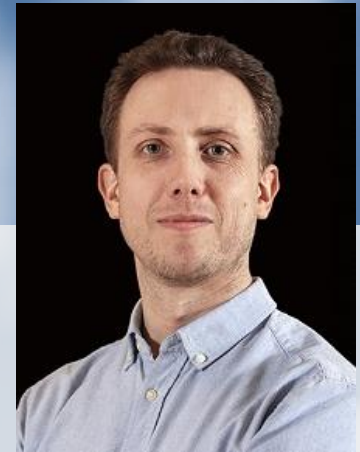
2017.10.04



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 314441.



Interaction between energy systems – the future role of thermal grids



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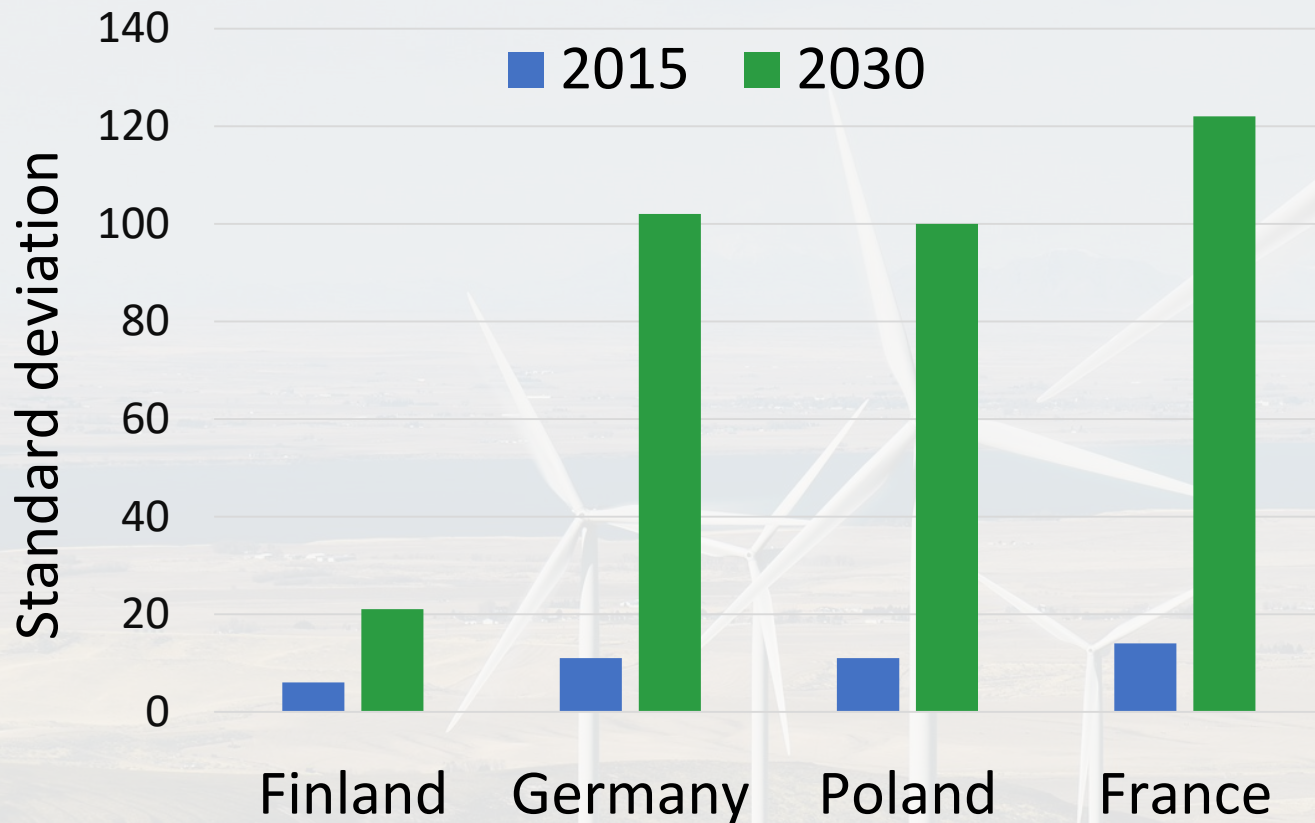


30%

2014 – 2020

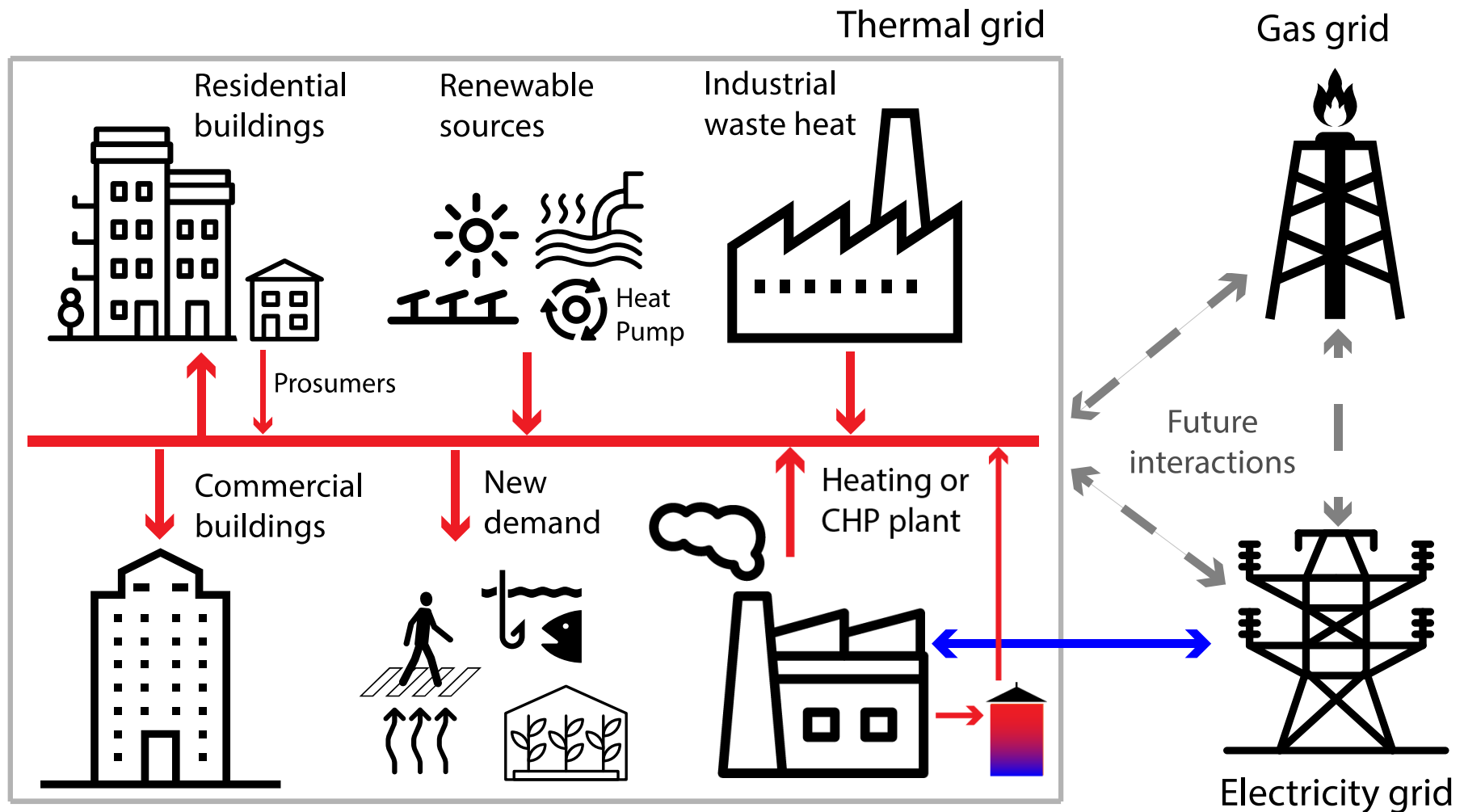
(IEA, 2016)

Electricity price volatility [EUR/MWh]

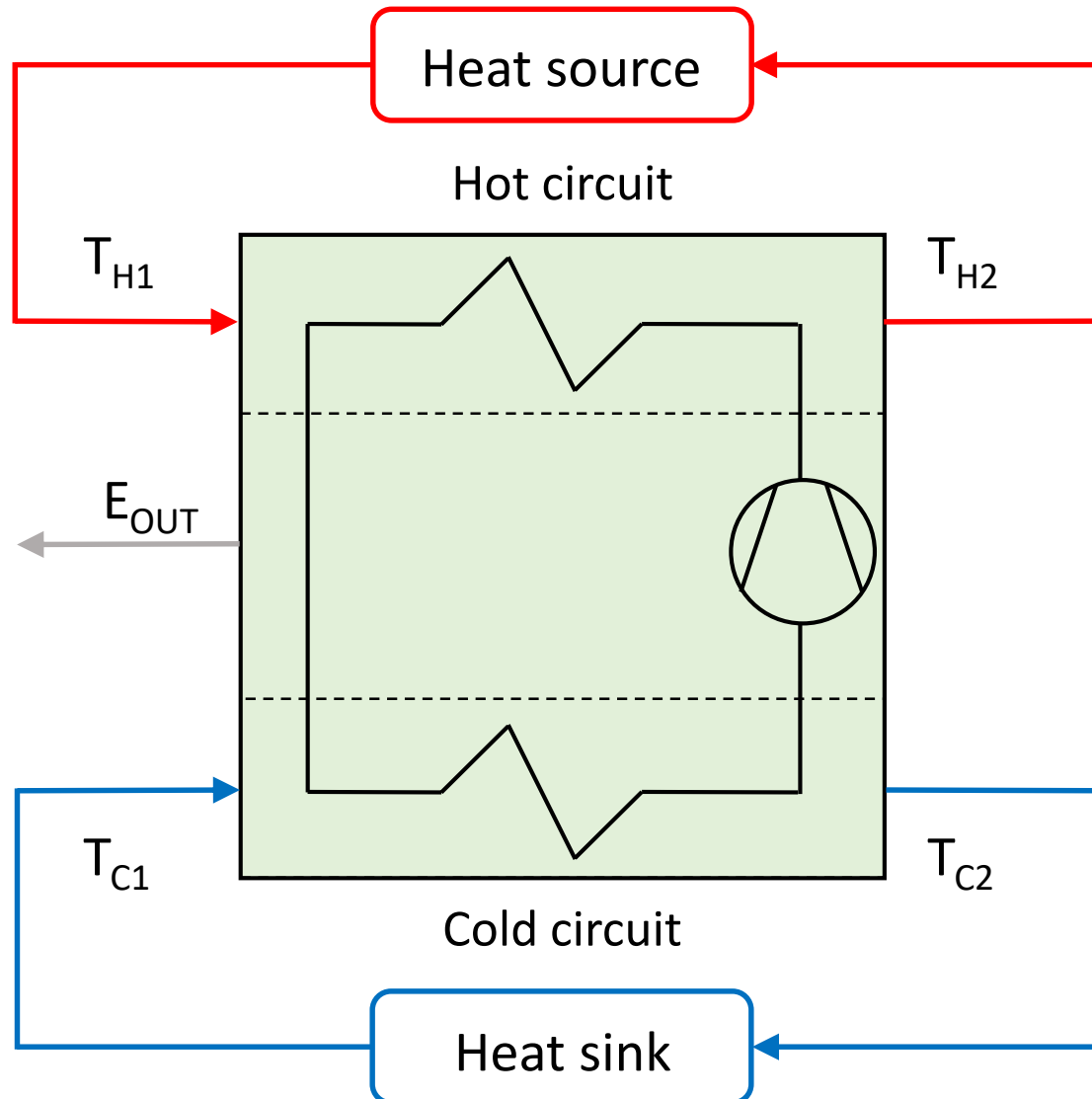


(NEPP, 2016)

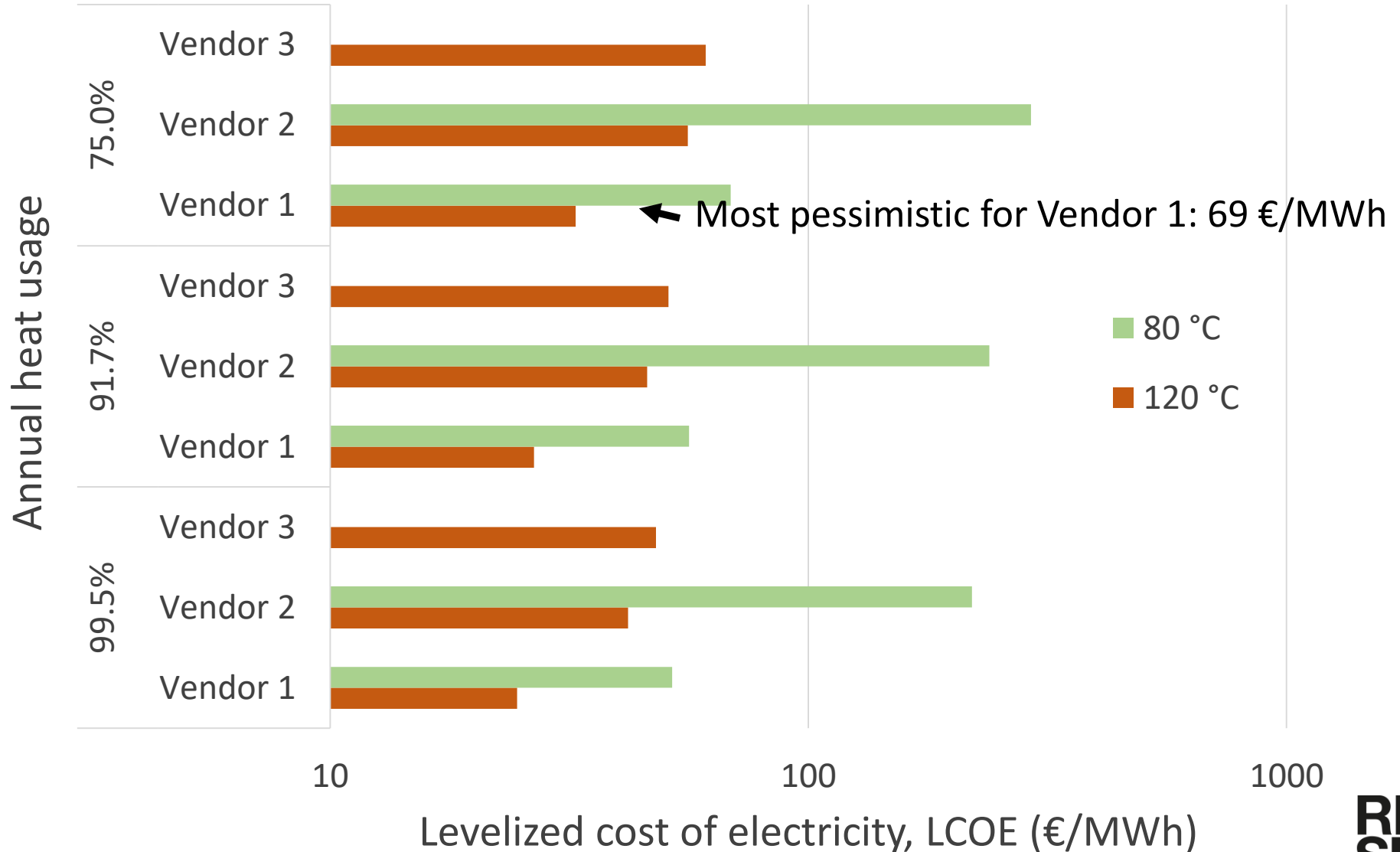
Thermal grids future



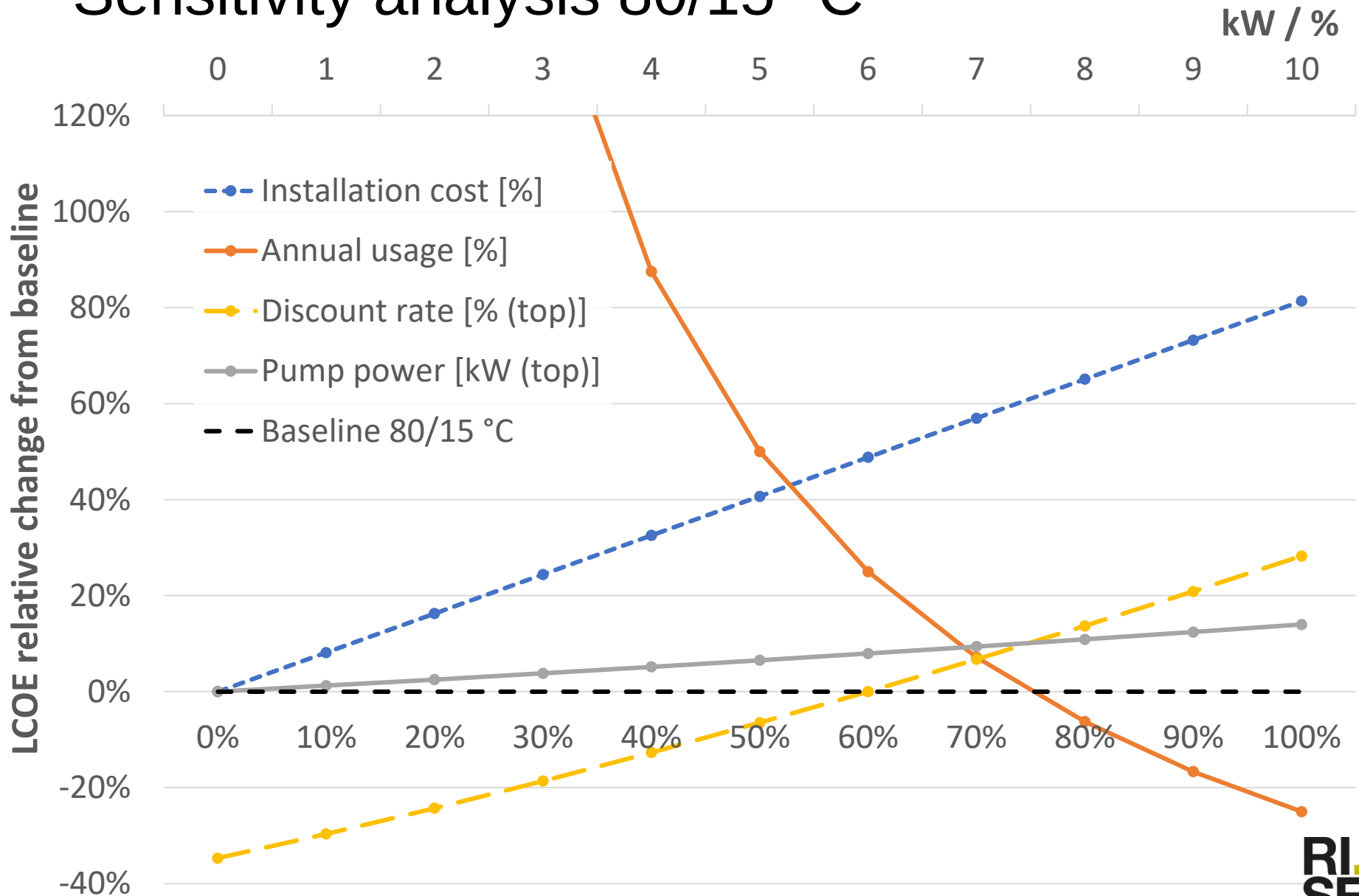
Organic Rankine cycle



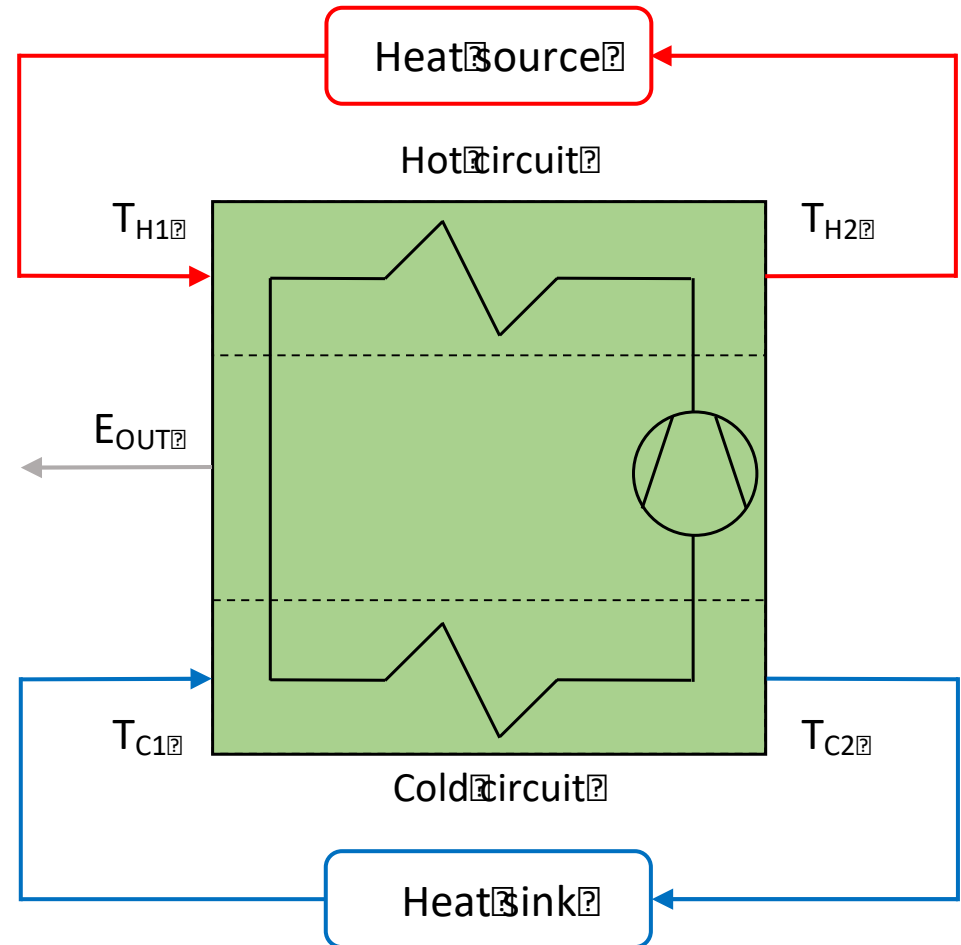
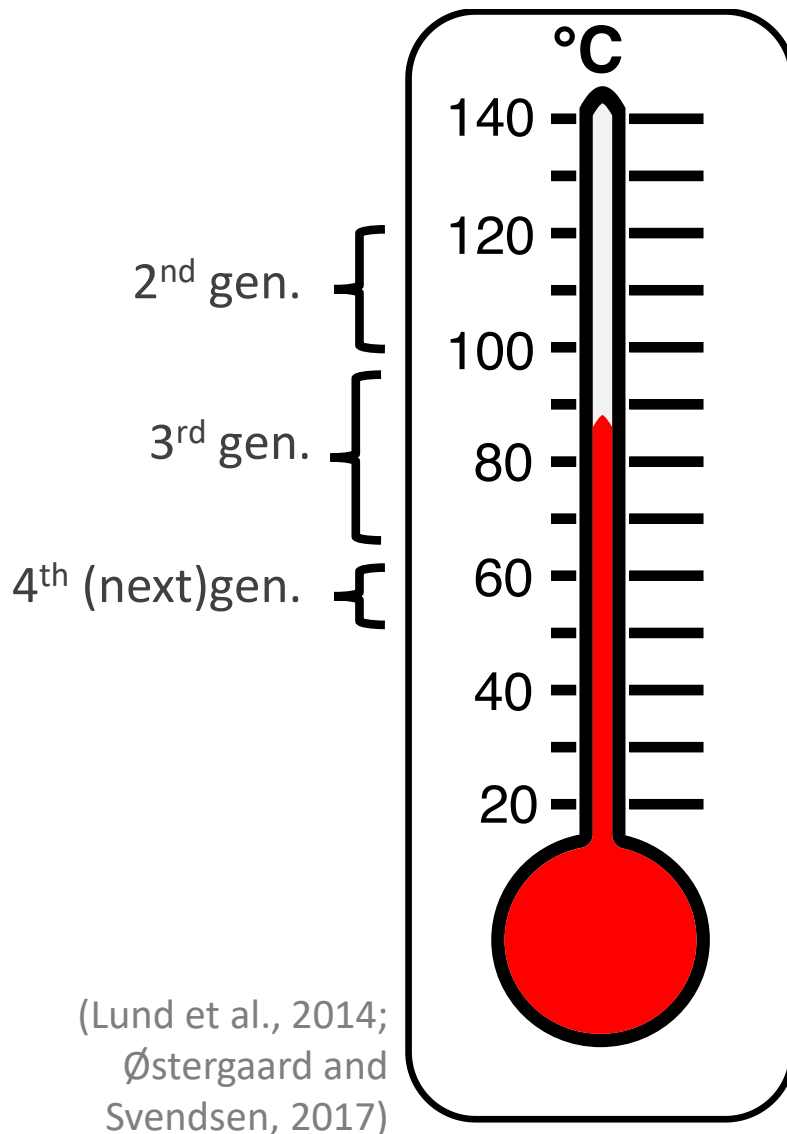
Levelised cost of electricity 20 °C sink



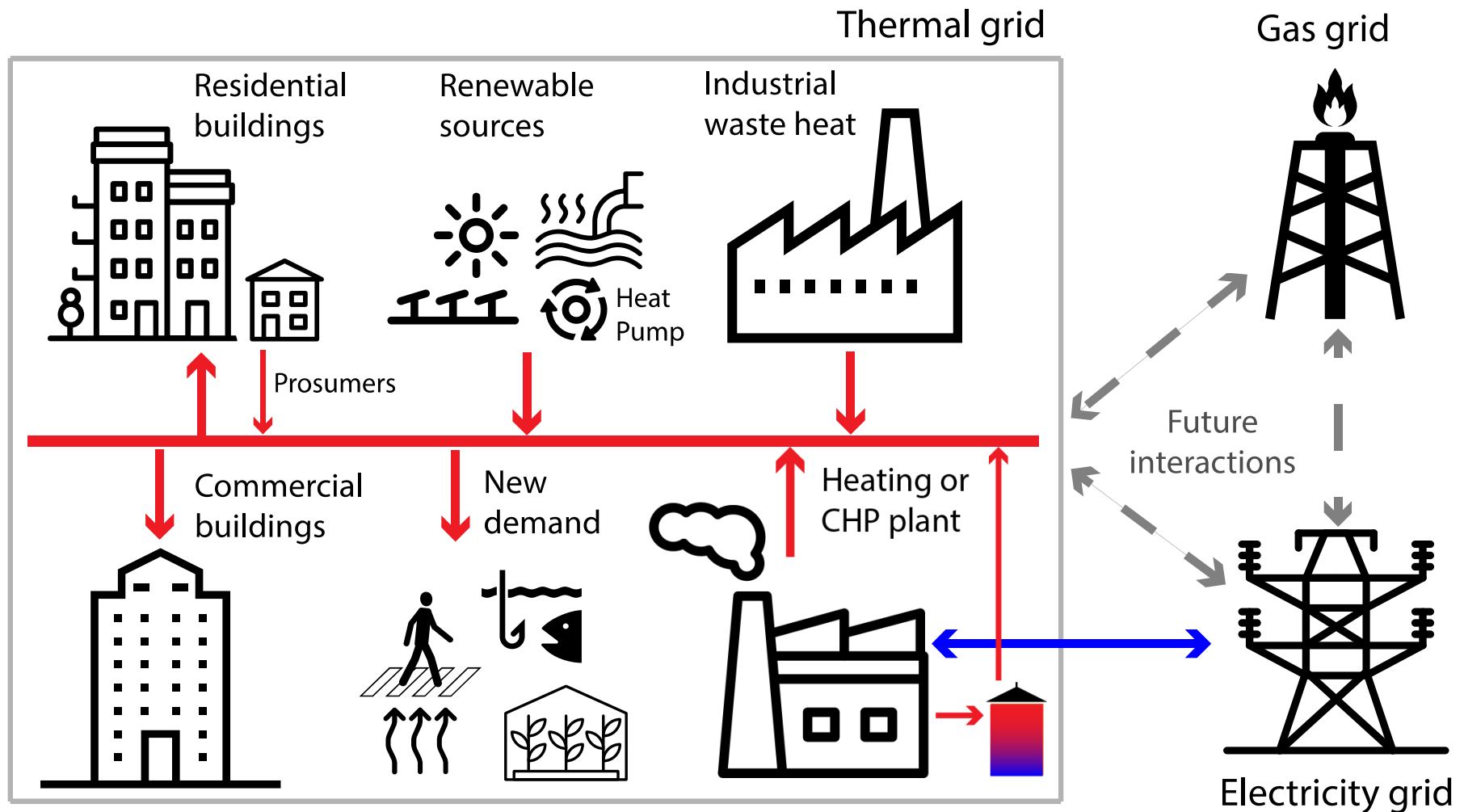
Sensitivity analysis 80/15 °C



Applications



Thermal grids future



Thank-you!

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Built Environment
Energy and circular economy

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