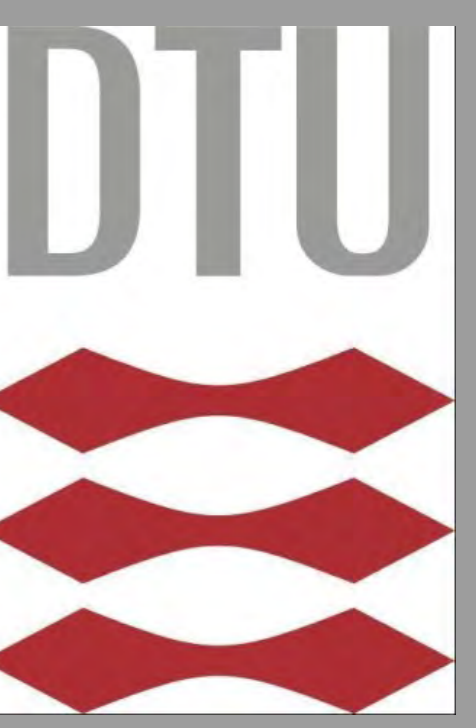


Towards a sustainable future – the role of renewable gas in future Danish energy systems

FutureGas project



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Main questions

What is the role of gas, renewable gas and the gas infrastructure in future fossil independent Danish energy systems?

Which role will gas have in the sustainable energy transition towards a decarbonized energy system?

Danish energy target

Danish energy system by 2050

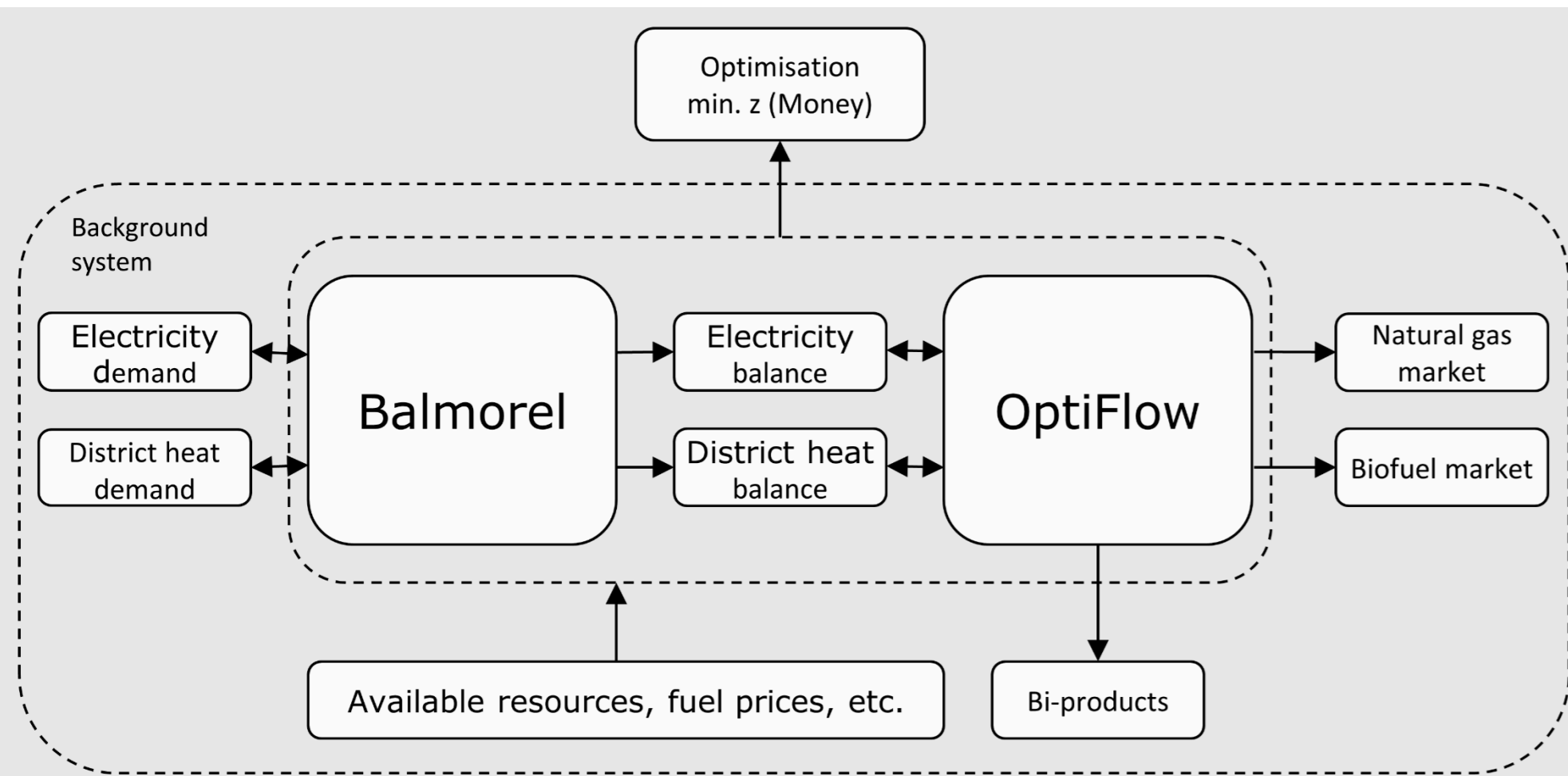
- Independent of fossil fuels



Future use of RE-gas

- 1) Renewable gas from renewable resources
- 2) Existing gas infrastructure allows seasonal storage
- 3) Renewable gas can be used in the transportation sector, in industrial processes, and to generate power in peak load situations
- 4) Renewable gas can be converted into liquid fuels

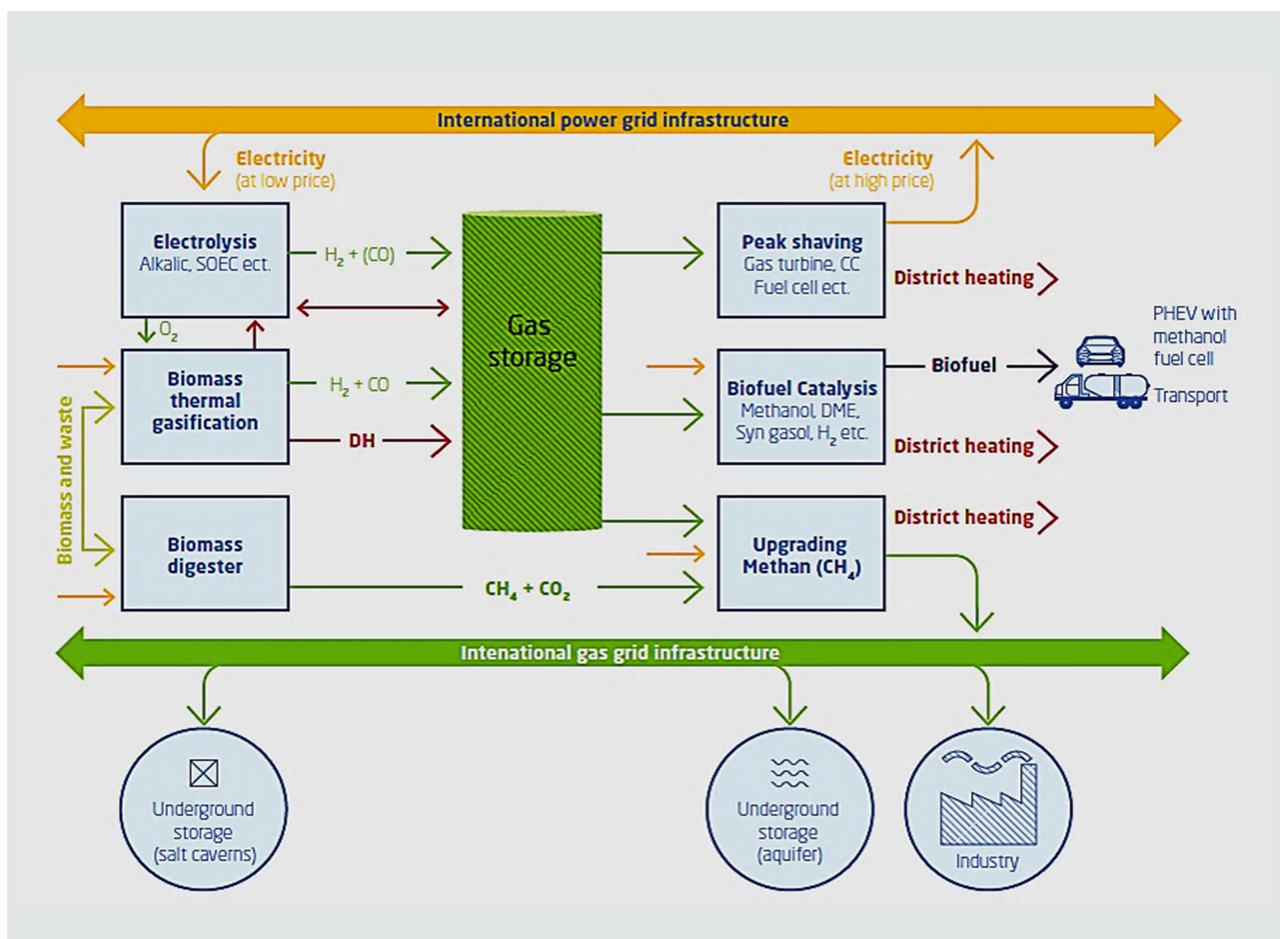
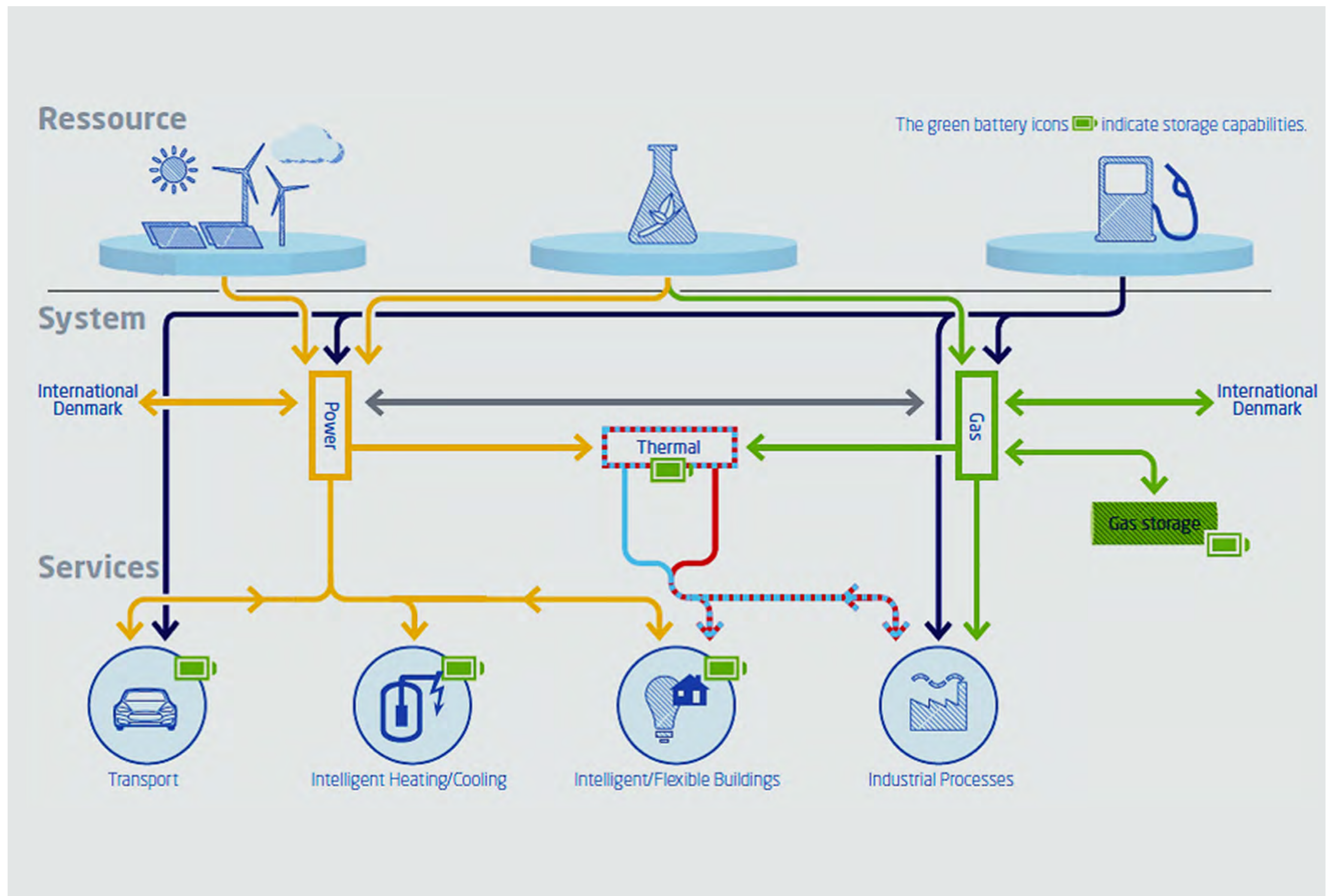
Modelling framework



Funding



Method and system overview



Source: DTU International Energy Report 2015 – Energy system integration for the transition to non-fossil energy systems, DTU National Laboratory for Sustainable Energy, 2015

Open source



Results

Support stakeholders and policy makers in making strategic decisions