

Analysing conflicting energy and climate targets between municipalities, energy utilities and housing companies in Sweden

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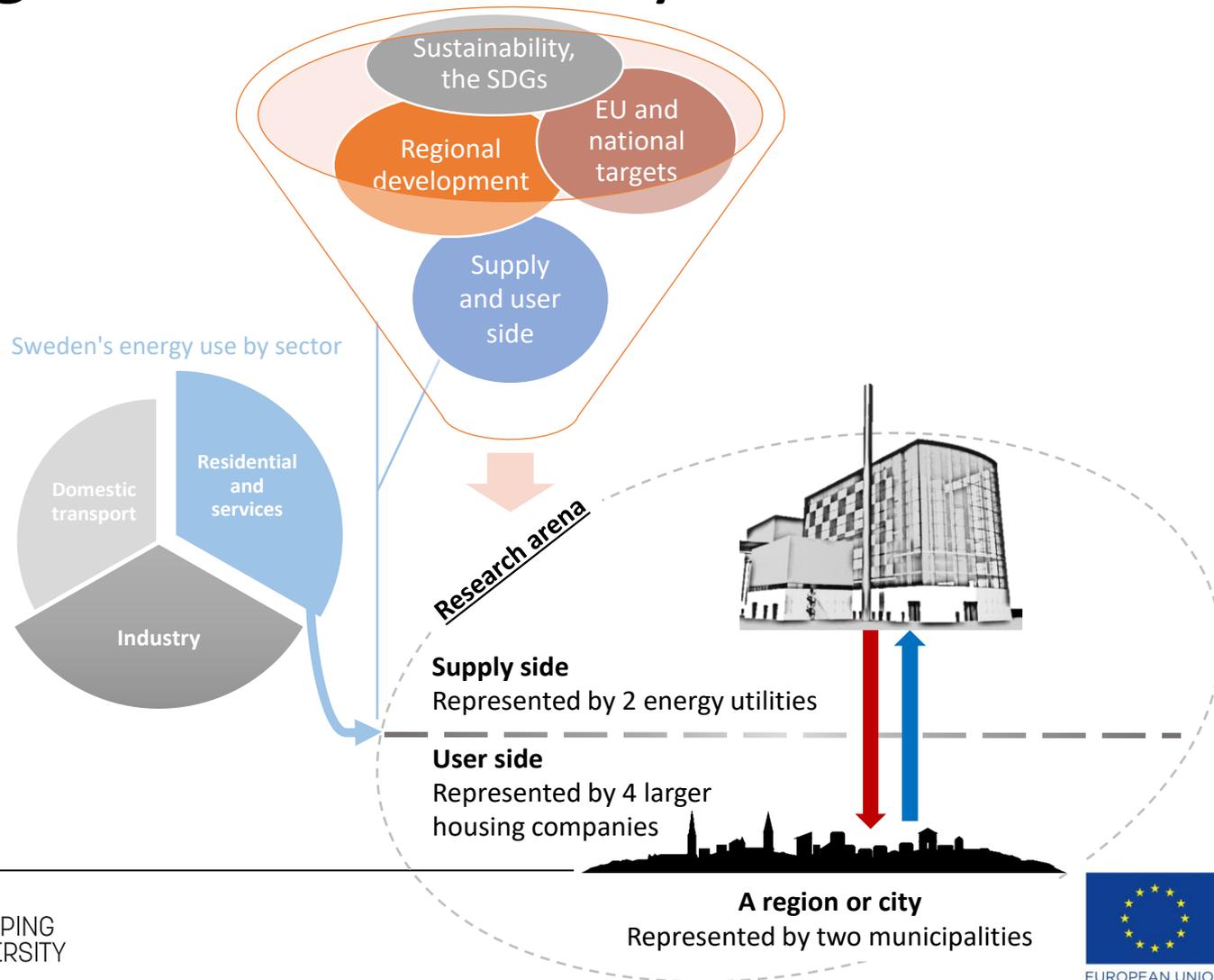
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Background to the study

- A research project that aims to increase cooperation between energy utilities, housing companies, and academia.
 - The fourth-largest metropolitan area in Sweden, with 300,000 inhabitants.
 - Actors:
 - Two energy utilities, and
 - Four larger housing companies with varied building portfolios.



Background to the study



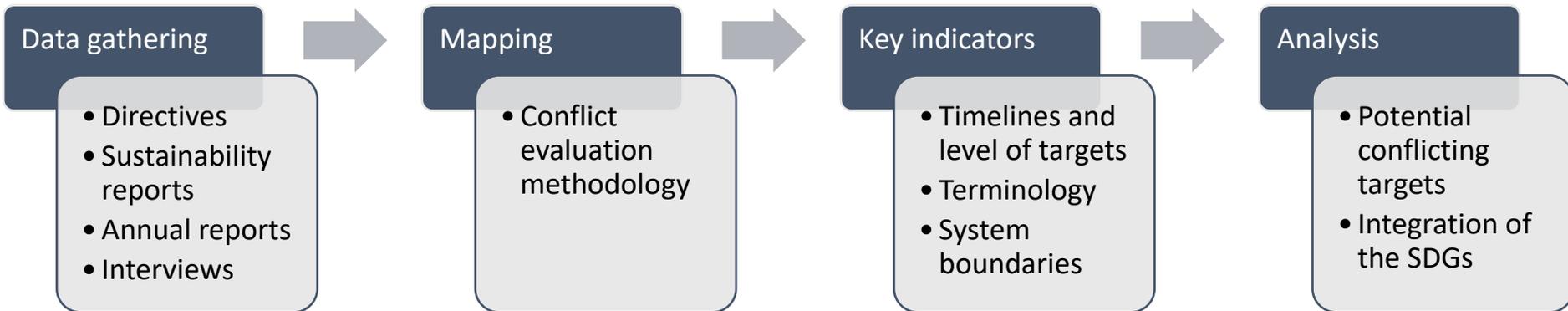
Aim of the study

- The aim is to analyse energy and climate targets among municipalities, energy utilities, and larger housing companies.
 - What parameters may lead to conflict?
 - How well are the SDGs integrated?
- The analysed targets are categorized as:
 - Climate impact,
 - Efficient energy use, and
 - Share of renewable resources.

Main contributions:

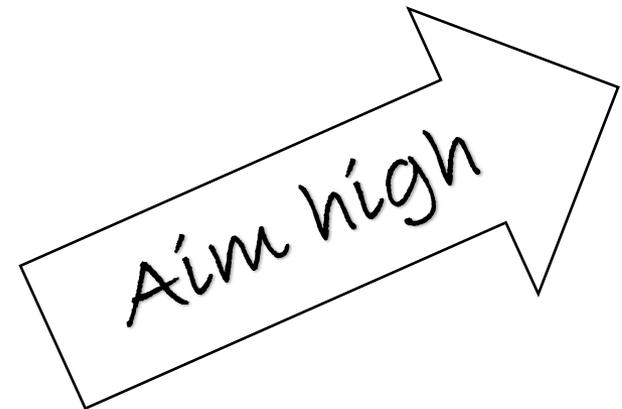


Method



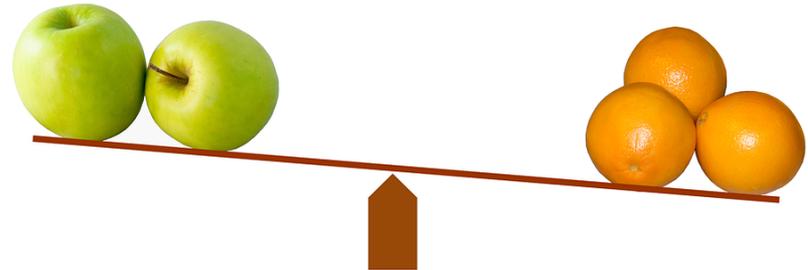
Findings- Timelines and levels

- All targets at a regional and company level incorporate and fulfil the overall targets.
- Furthermore, the targets are ambitious!
 - The year of fulfilment occur up to 20 years before national targets.
 - Challenges?



Findings- Terminology

- Different terminology may confuse and complicate comparisons.



Climate neutral, carbon neutral, net-zero GHG emission, or eliminate carbon footprint

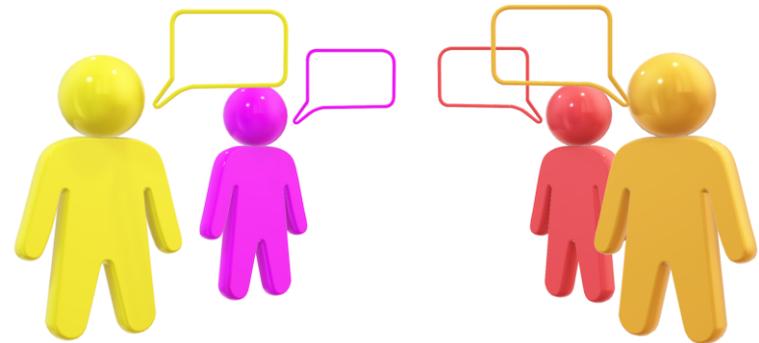
Total energy use or delivered energy

Energy intensity or energy efficiency

Renewable energy or recycled energy

Findings- System boundaries

- Different system boundaries call for communication and integration!
- For example,
 - Municipalities use geographical demarcations, whilst the studied companies look to their own operations.
 - The housing companies look to their properties but may lack knowledge of the energy system they operate within.



General findings

- In general, sustainability was communicated through the three dimensions of economy, social and environmental.
- However, recent development indicates that the SDGs are incorporated.
 - *Everyone is talking about sustainability. That's good! But do we all understand each other?*

Thank you for your attention