



# *Making It Work*

Swantje Gähns

Institute for Ecological Economy Research



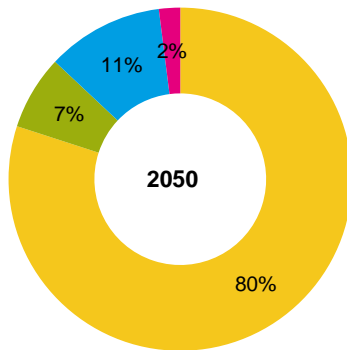
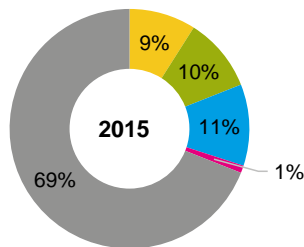


# Why should we make it work?

## Prosumers can contribute largely to the decarbonisation of the energy system in the EU

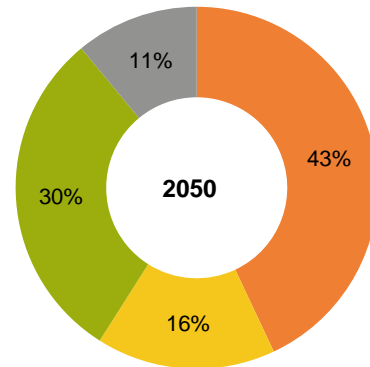
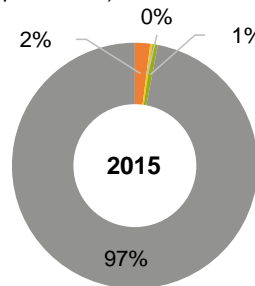
Potential use of energy carriers for heating and cooling in the residential sector

- Electricity (Heat Pumps)
- Biomass
- District heating
- Solar heating
- Others (non-renewable)



Potential for electricity generation in the residential sector

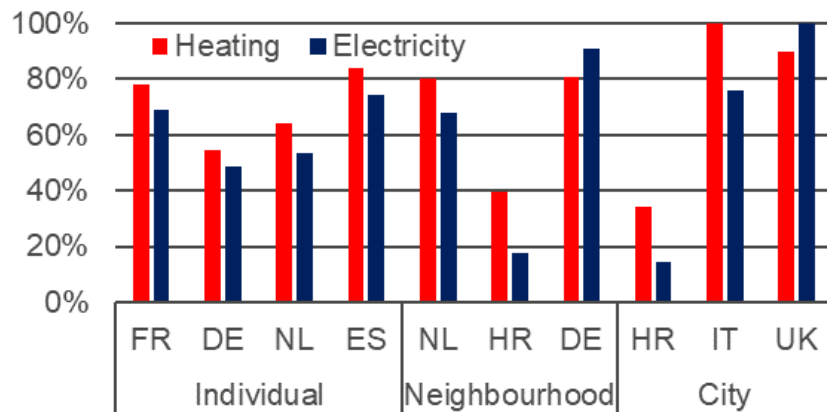
- Solar PV rooftops
- Solar PV ground-based
- Wind (collective)
- Other (non-prosumers)



# Use the produced energy locally!

- The research of the PROSEU project shows that in most modelled cases, prosumers can achieve rather **high renewable self-sufficiency** for both the heating and the electricity sector.
- CO<sub>2</sub> emission reductions can **reach up to 100%** in both sectors, by using energy storage.
- To raise **acceptance and participation**, self-sufficiency should be increased mindfully.

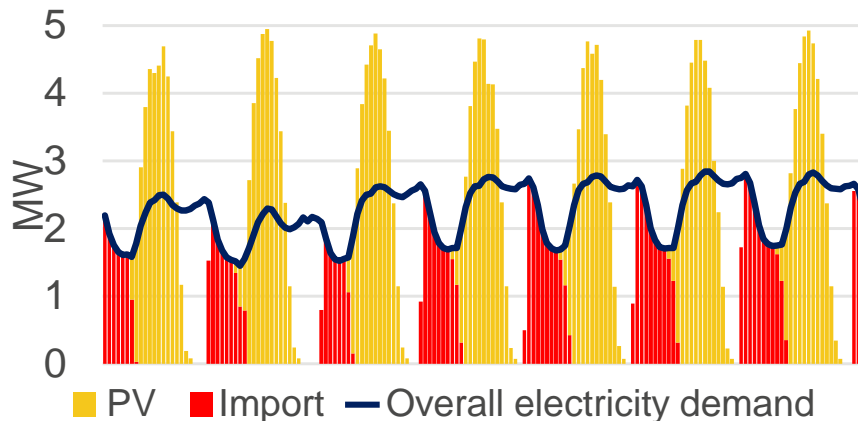
## Share of self-sufficiency 2050 Scenario



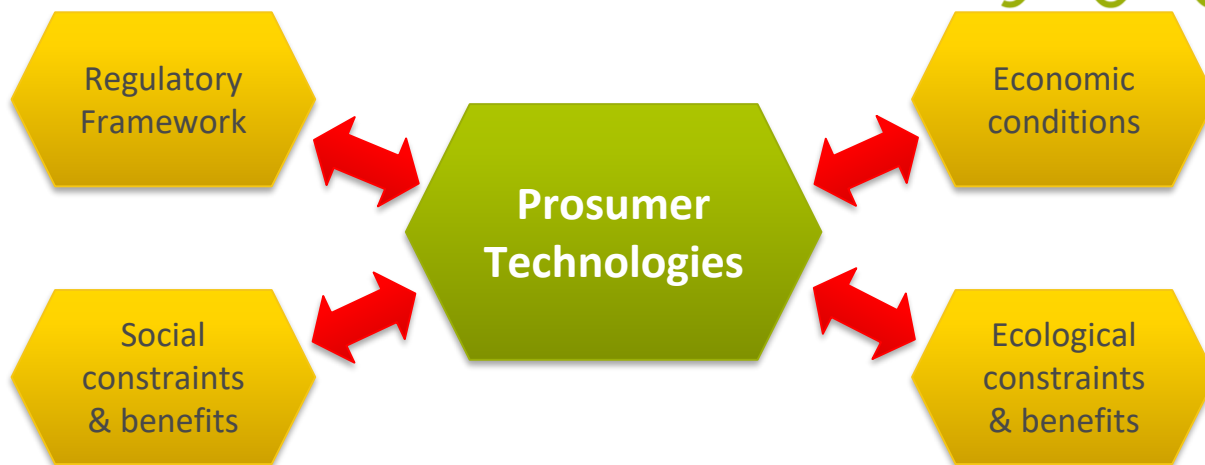
# Share the produced energy regionally!

- Sharing electricity in a community can **flatten load curves** and **increase self-demand**.
- In addition sharing can lead to a better understanding of energy consumption and spill over effects.
- **Energy communities** should explore options for installing prosumer technologies and schemes for operation.

## Example of power load on city level



# Technologies must be seen in the overall context



**Implementation and mainstreaming of prosumer technologies need an overall approach that considers all aspects**



# Thanks for your attention!



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