

Making It Work

Swantje Gährs Institute for Ecological Economy Research

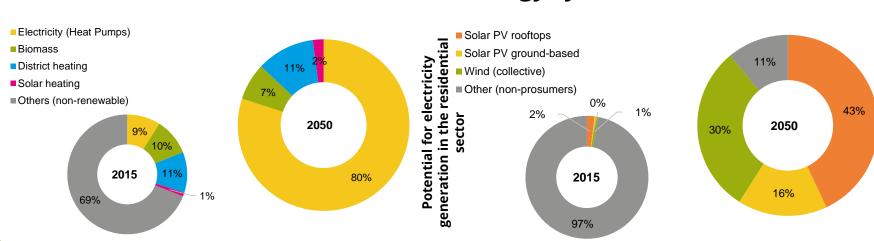






Why should we make it work?

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



/ 02 February 2021

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

Prosumer Inspiration Event

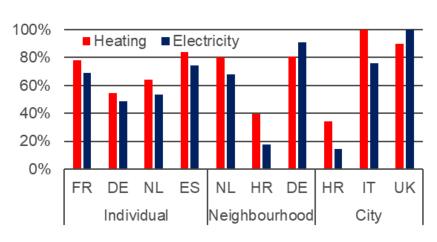
Source: Gährs et al. (2020). Key technical findings and recommendations for prosumer communities



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.
- CO₂ 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

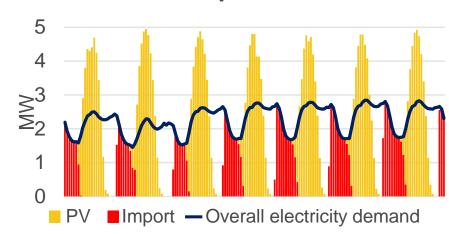




Share the produced energy regionally!

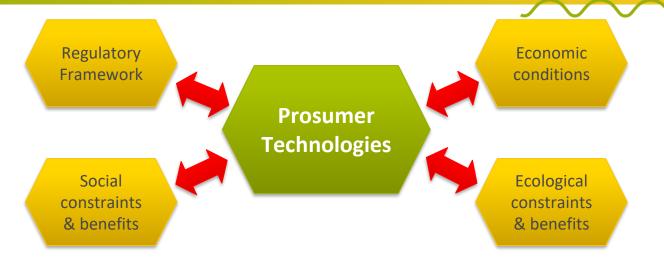
- Sharing electricity in a community can flatten load curves and increase selfdemand.
- In addition sharing can lead to a better understanding of energy consumption and spill over effects.
- Energy communities should explore options for installing prosumer technologies and schemes for operation.

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!



























This project received funding from the EU's Horizon 2020 research and innovation programme under grant agreement N°764056. The sole responsibility for the content of this document lies with the authors. It does not necessarily reflect the opinion of the EU.