



INNOVATIONSLABOR
act4.energy

| *Eine Initiative von Andreas Schneemann*

MISSION
INNOVATION
AUSTRIA >> ONLINE
EVENT

13 May 2020
09:00-12:00 (Time zone UTC+2)
Energy Communities
4 Austrian Pioneering Initiatives

Mission Innovation Online Event

May 13th, 2020

Innovation Lab act4.energy – main objectives

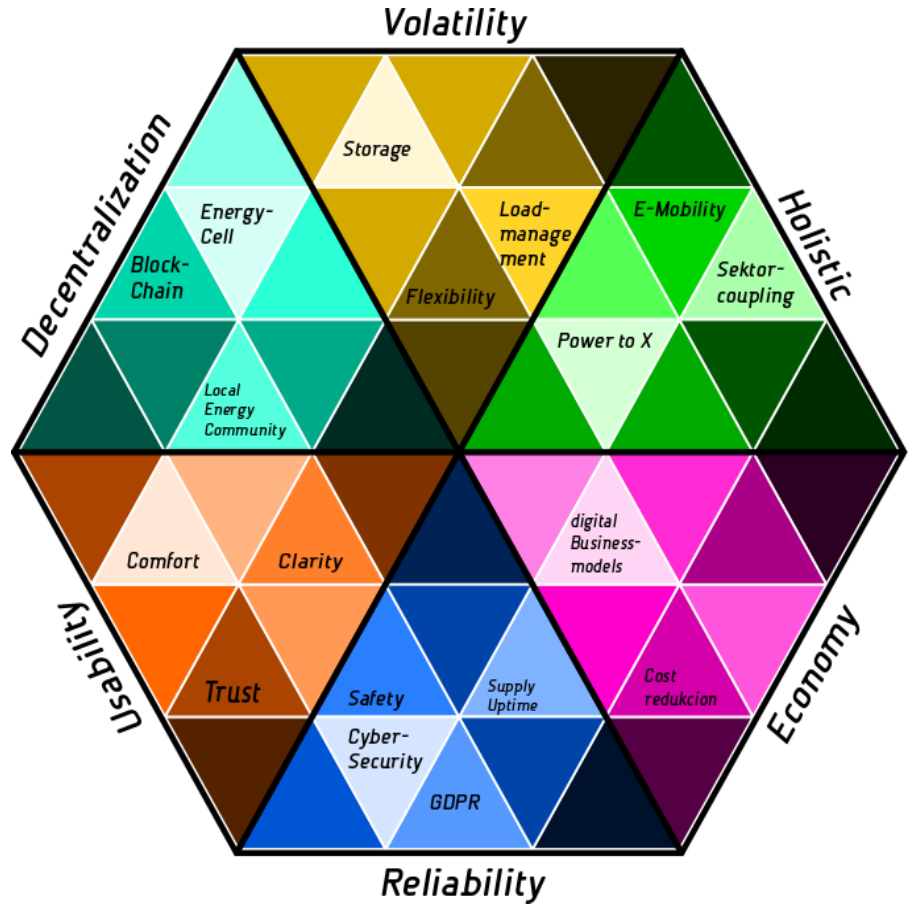
- ▣ Creation of a frame work to accelerate social transformation processes, by including research, economy, politics, administration and civil society
- ▣ Development of innovative energy-management services (identification and activation of energy-flexibility potentials)
- ▣ Systematic integration of end-users (Co-Creation process)
- ▣ Creation of innovation-ecosystems (Open Innovation)
- ▣ Development of a scalable rural model region



Working towards the Energy Transition

the 6 act4.energy challenges

- ▣ Volatility
- ▣ Decentralization
- ▣ Economic
- ▣ Holistic
- ▣ Usability
- ▣ Reliability



Energy Communities: Key goals and duties currently being worked on at act4.energy:



- ▣ **Cooperative renewable energy generation**
(electric and thermal)
- ▣ **Cooperative self - consumption**
(peer to peer trading)
- ▣ **Energy Islands, Black-out prevention**
- ▣ **Cooperative investment and financing**
- ▣ **Digital supply and demand response systems**
(flexibility aggregation)

Energy Communities: Key goals and duties currently being worked on at act4.energy:

▣ Energy Communities „on balance“

Citizen Energy Communities

for electric energy only

mostly peer-to-peer business models

▣ Local Energy Communities

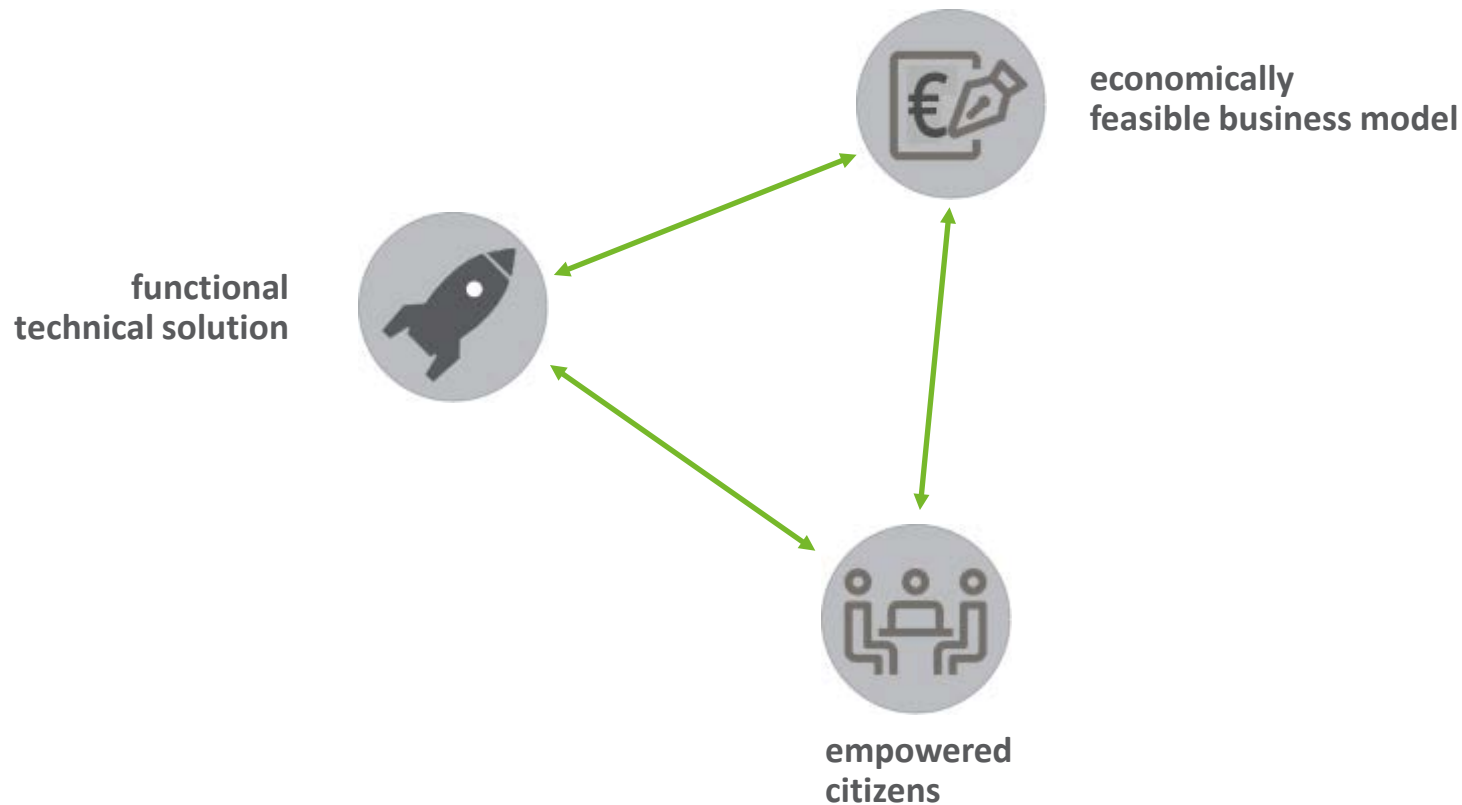
Renewable Energy Communities

all renewable energy forms

deep technical integration of participants

utilization of flexibilities, sector coupling, ...

Energy Communities: Key factors for successful implementation



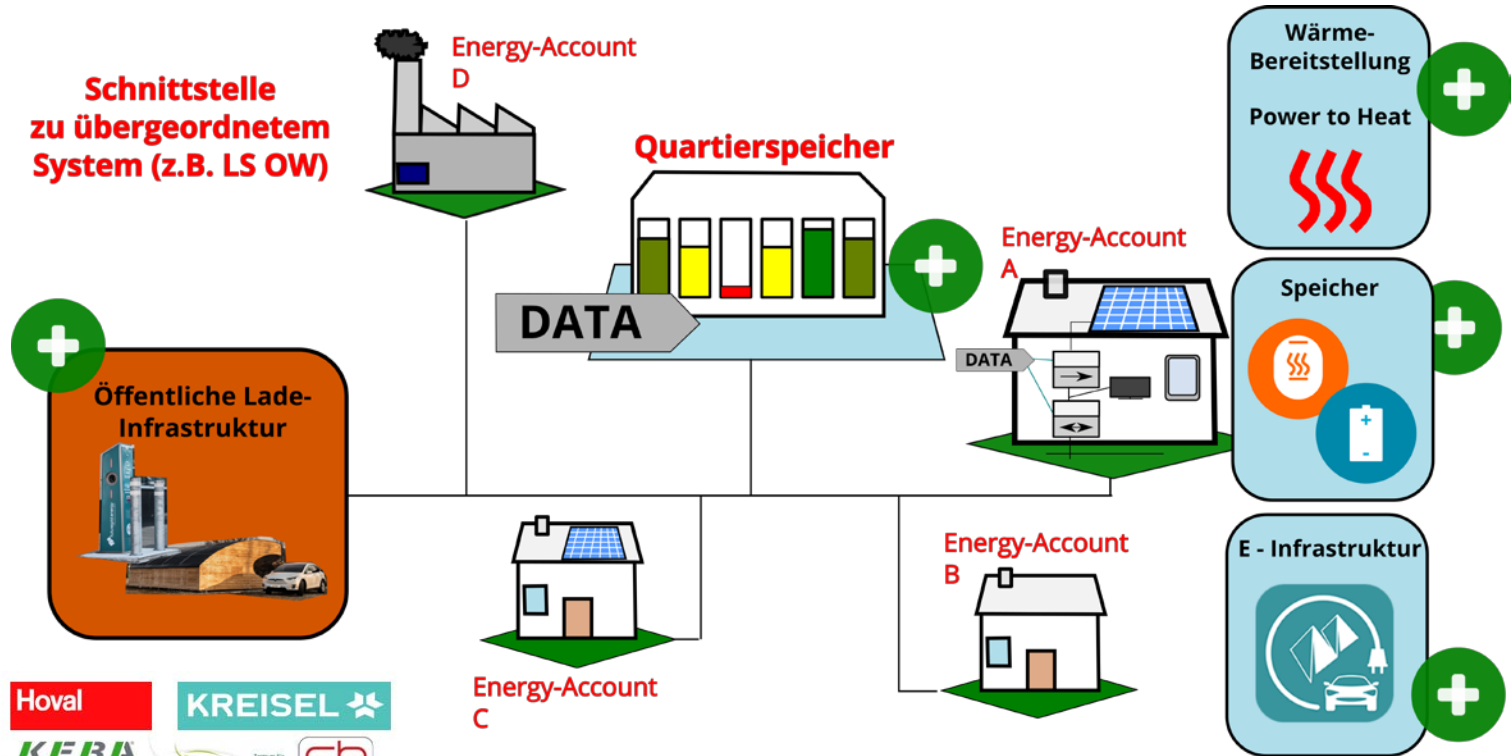
A practical example: project USC Südburgenland

URBANER SPEICHERCLUSTER SÜDBURGENLAND
Smart Cities Demo

powered by klima+ energie fonds

Dieses Projekt wird aus Mitteln des Klima- und Energiefonds im Rahmen seiner Smart-Cities-Initiative gefördert. | www.smartcities.at

Goal: formation of storage clusters (i.e. Energy Communities) to exploit, bundle and market micro - flexibilities



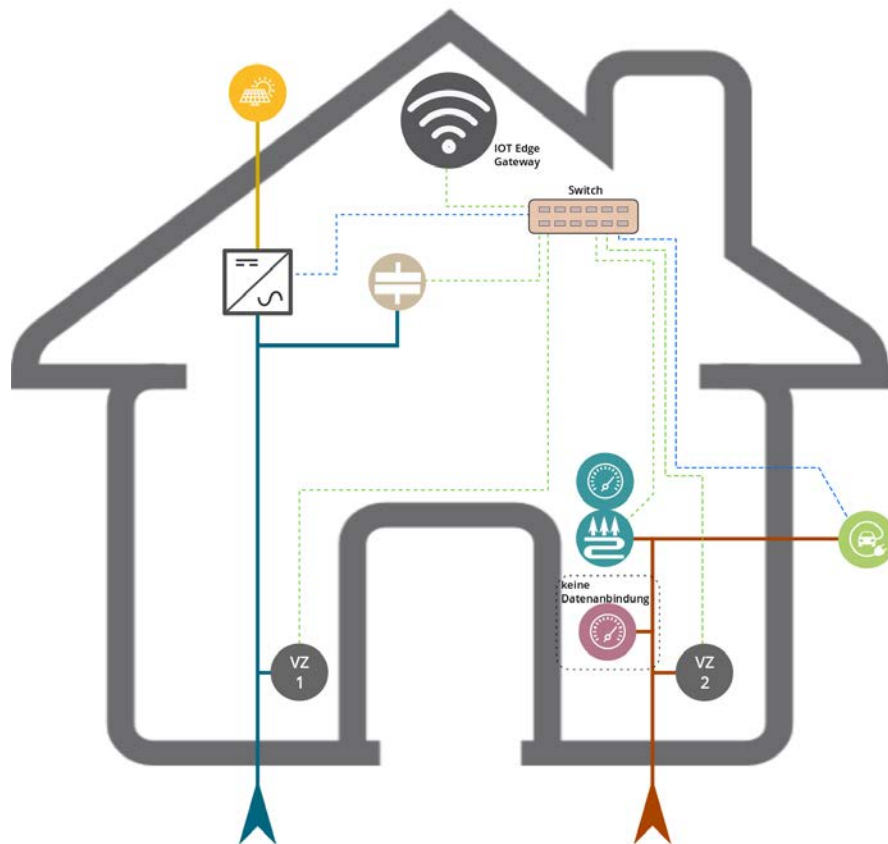
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A practical example: project USC Südburgenland



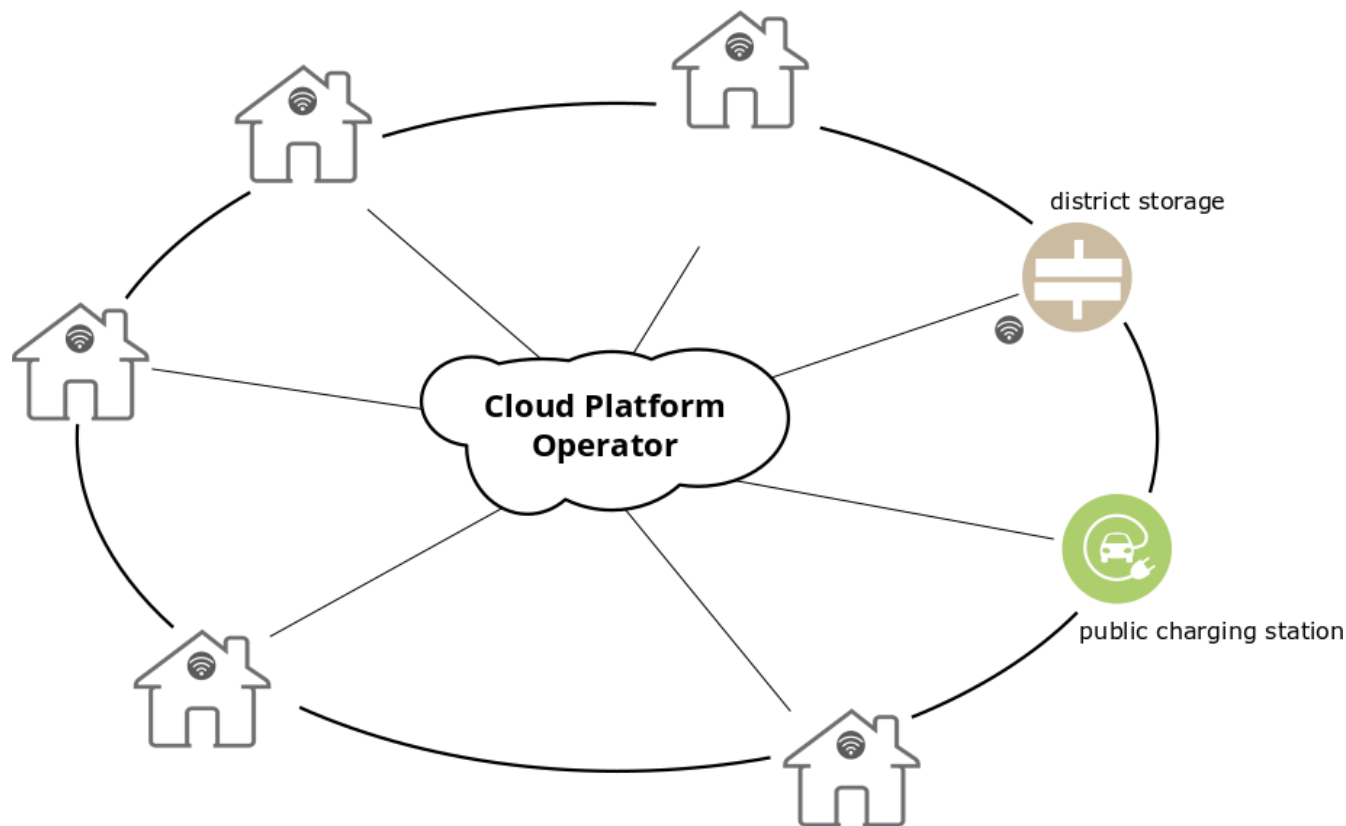
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A practical example: project USC Südburgenland



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- Marketing of the bundled flexibilities
- Energy Account



A practical example: project USC Südburgenland



Information



Communication



Cooperation

A practical example: project USC Südburgenland

Goal: formation of storage clusters (i.e. Energy Communities) to exploit, bundle and market micro - flexibilities

- technical development is finalized
- Pilot household is implemented and running
- Additional participants are being added in Q2/2020
- Operation, data acquisition and analysis until Q3/2021

Other Energy Community projects within Innovation Lab act4.energy:

SonnWende+ (Stadt der Zukunft)

focus on blockchain solutions for energy communities

CLUE (ERA-Net)

focus on integration of E-Mobility

2 Horizon 2020 projects to be started in Q3/2020

focus on replicability, solution templating, citizen empowerment

ENCHANT - Horizon 2020 consortium



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Thank you for your attention!

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