







WIR SCHAFFEN
IHRE INDIVIDUELLE
ENERGIELÖSUNG













WIR SCHAFFEN IHRE INDIVIDUELLE ENERGIELÖSUNG



WIR REALISIEREN DIE VERNETZTE **ENERGIEZUKUNFT**











AGENDA

- Introduction
 - Initial Situation
 - Project objectives

- Main part
 - Location
 - System description

- Final part
 - Planned results
 - Innovation laboratory









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INITIAL SITUATION

Project in the Austrian Research Promotion Agency's Smart Cities initiative (8. Call Smart Cities Demo 2016)

New types of consumers ("prosumers") enter the market of the low voltage net

in the section of non-time-based consumer

The precursory project Loadshift Oberwart showed that there are huge potentials of energy flexibilities

Collaborative partners

















Andreas Stecker | 20 March 2018







The project Urban Storage Cluster Südburgenland follows the approach to arrange these energy flexibilities in clusters in order to maximize the usage of local provided renewable energies and to ensure the possibility to trade these services







PROJECT OBJECTIVES

- The development and realization of an livinglab test bed of a storage-based holistic (consumer-, building-, storage-, charging station across) energy management system to handle and to market small energy flexibilities
- Implementation of electric quarter storage system and single storage systems (accumulators, thermal storages in combination with heat pumps and mobile storages)
- To establish a visual user interface

- > To demonstrate the application of the invented energy account
- > To activate and to market the non-time-based consumer energy flexibilities
- Efficient use of local excess energy
- Creating incentives for the change to e-mobility



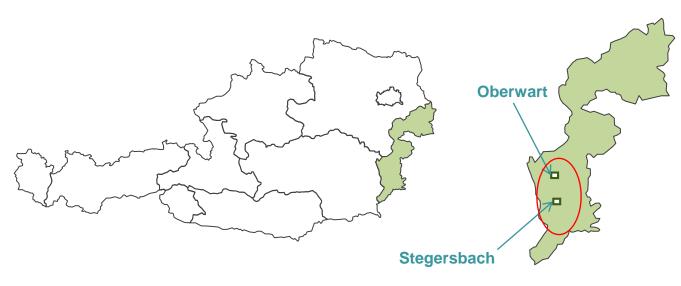




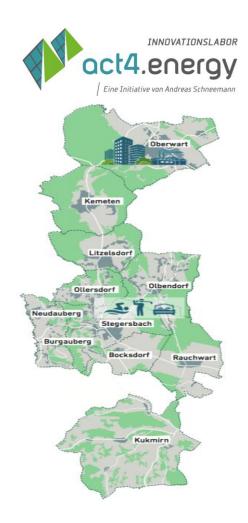
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LOCATION



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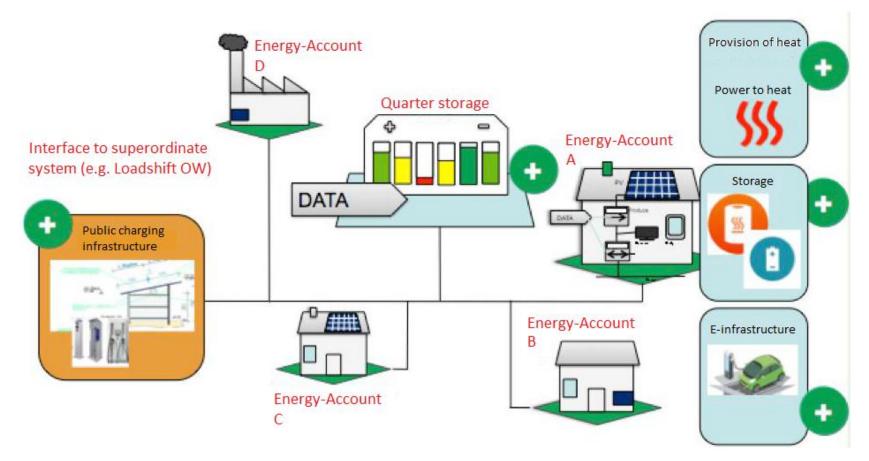








SYSTEM DESCRIPTION





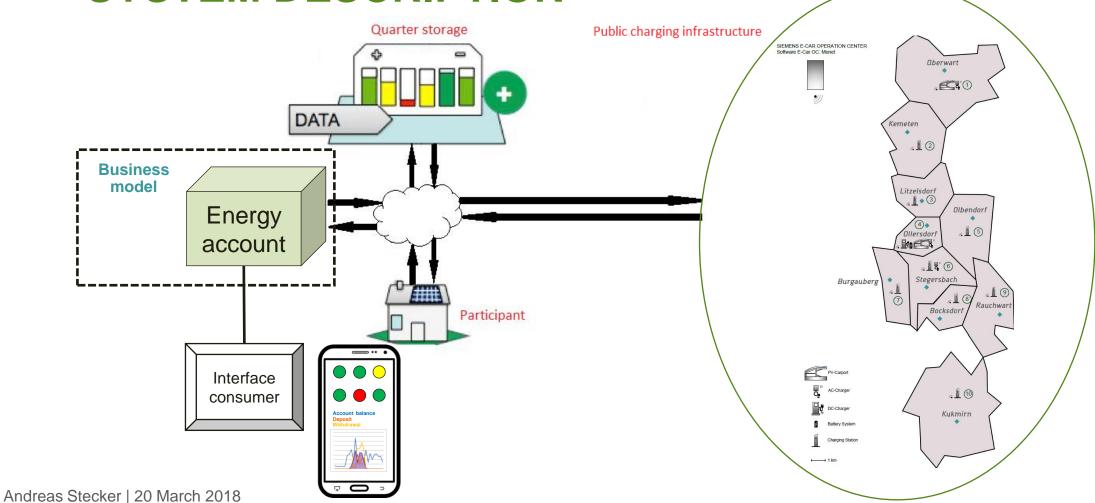


















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PLANNED RESULTS

- Feasible solutions concerning the handling and the marketing of energy flexibilities
- Representation of the relevant frame conditions and the realization data of quarter storages
- Development of a subscriber-specific standard for cluster participants
- Developed / adapted, tested and verified components and software systems
- Established interface to superordinate system

- Development of the visual interface for the consumer (consumer interface)
- Judicial aspects, business and public participant models
- Informed, experimental recorded statements / concerning experiences / barriers / factors of success / potentials / usability as well as recommended actions and conclusions by active cluster-participants







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INNOVATION LABORATORY



www.act4.energy/

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- Access to infrastructure for testing in real life environment
- Co-creation and open innovation processes
- Regional simulation and development by innovation
- Learn- & demonstration space
- Consulting & coaching







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THANK YOU FOR YOUR ATTENTION!



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