



Smart-Community-Projekt Speyer

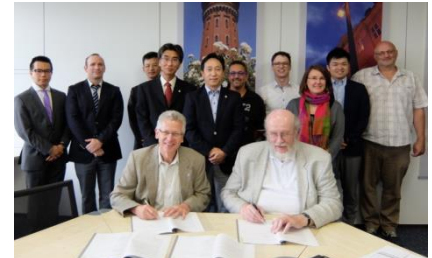
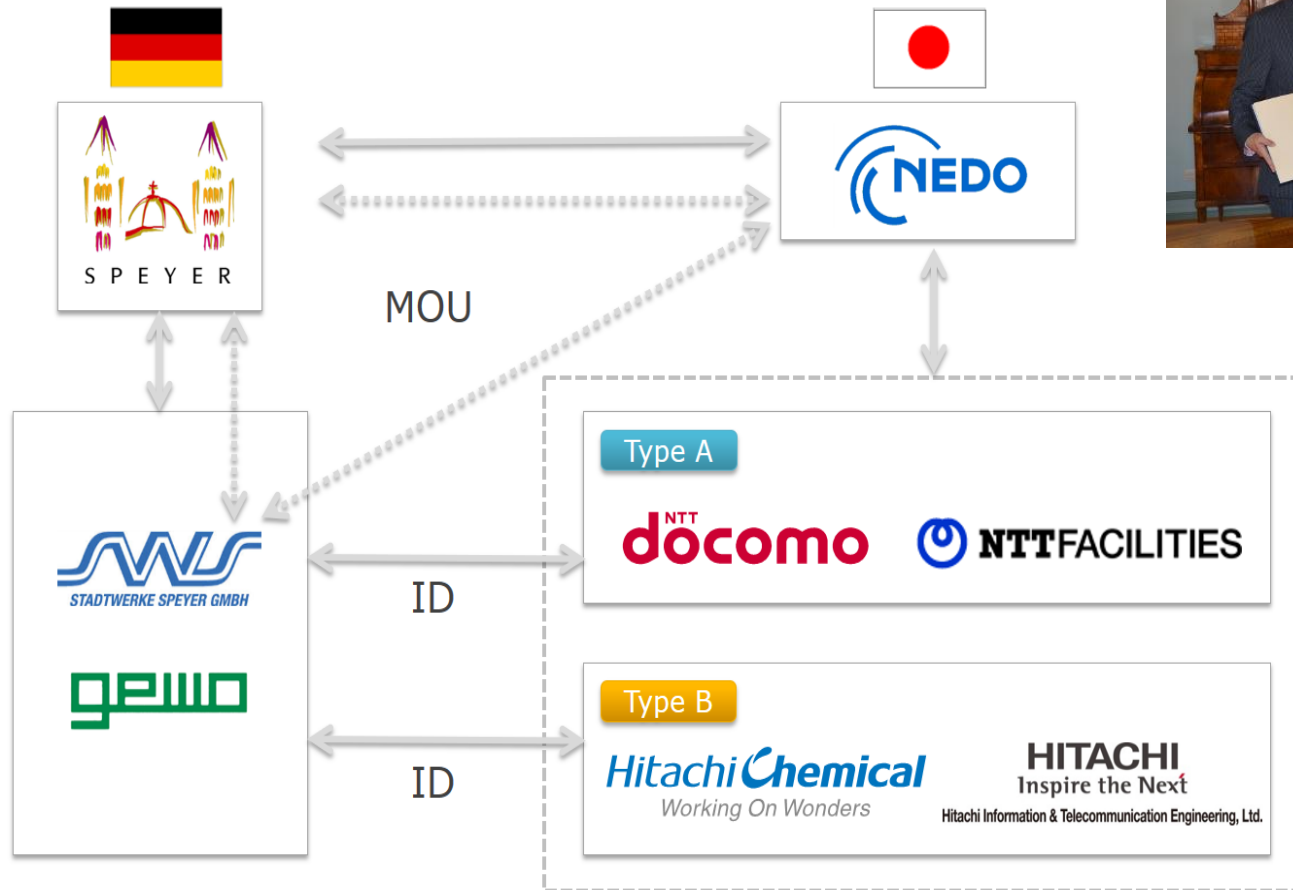
Stadtratssitzung 26. April 2018

Projektziele

- Planung, Bau und Betrieb eines Eigenverbrauch-Systems bestehend aus Photovoltaik, Batterie und Wärmepumpe
- Evaluierung neuer Dienstleistungen zum Thema Photovoltaik Eigenverbrauch
- Optimierung der Wirtschaftlichkeit der Photovoltaiknutzung

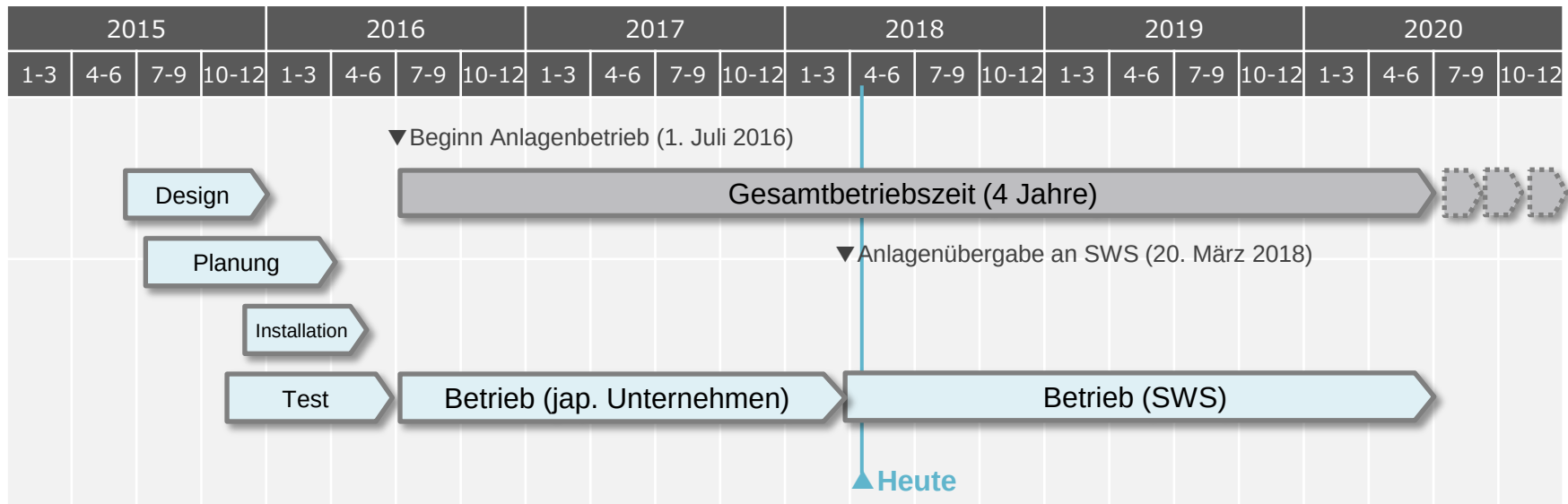


Projektstruktur



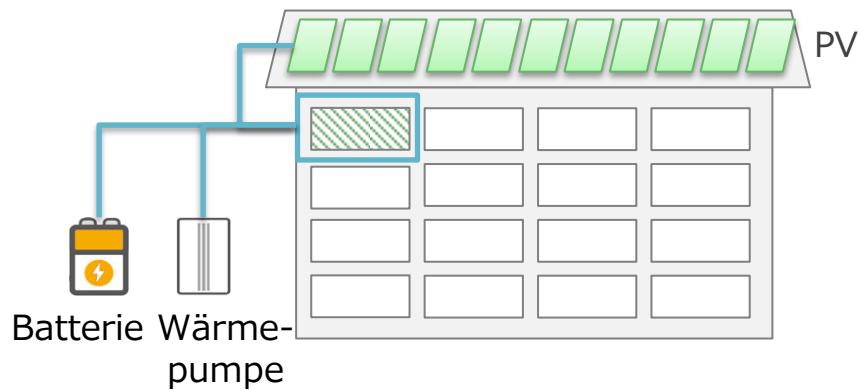
MOU: Memorandum of Understanding, ID: Implementation Document

Projektzeitplan



Projektstandorte

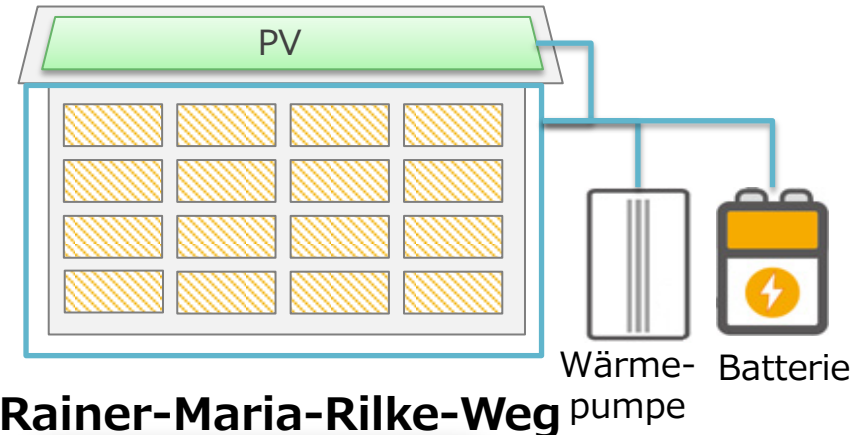
Type A



Ginsterweg



Type B



Rainer-Maria-Rilke-Weg



^{NTT}
docomo

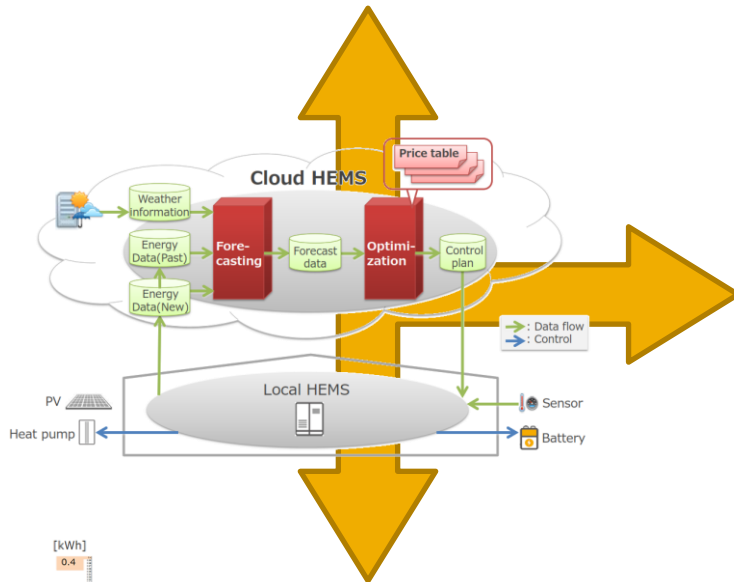
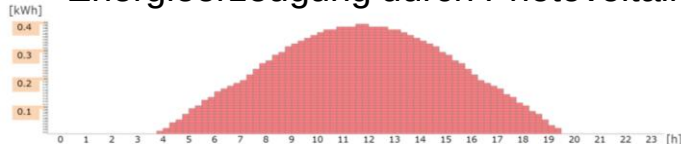
 **NTTFACILITIES**

Hitachi **Chemical**

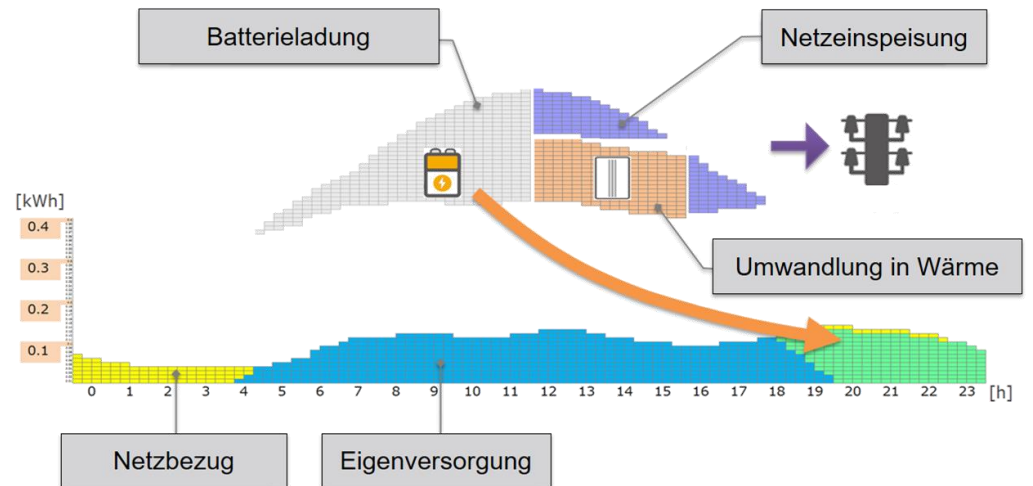
HITACHI
Inspire the Next

Projektaufbau und HEMS (Home Energy Management System)

Energieerzeugung durch Photovoltaik



Energieverbrauch



Projektinstallationen Ginsterweg

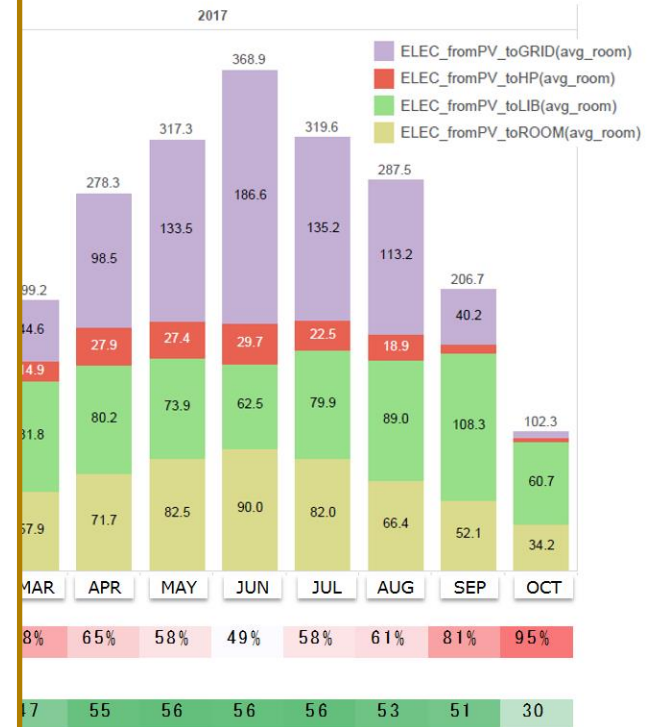
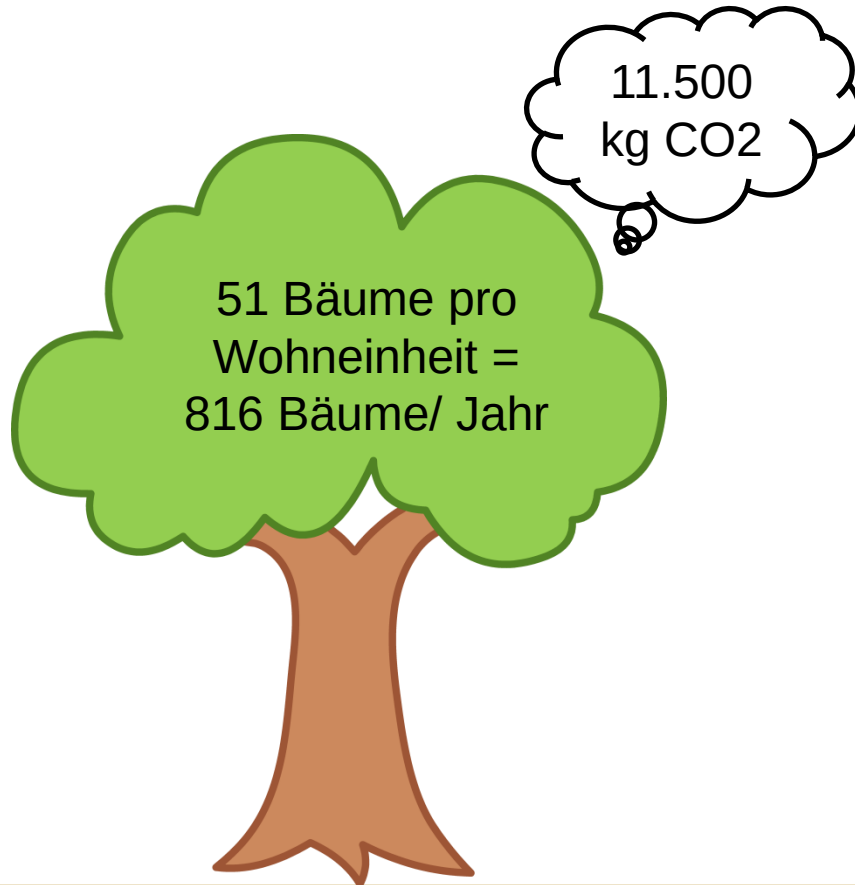


Projektinstallationen Rainer-Maria-Rilke-Weg



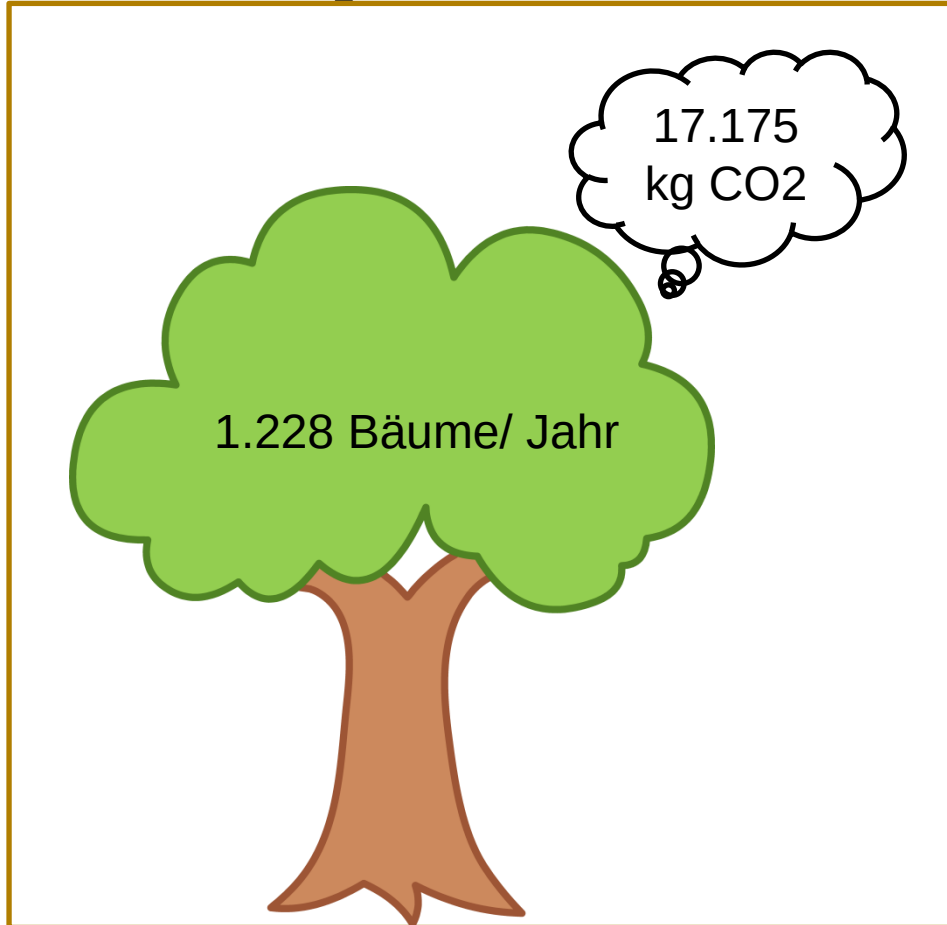
Projektergebnisse

- 49% bis 100% durchschnittlicher Eigenverbrauch der 16 Haushalte
- Wärmepumpe 25% - 62%
- Photovoltaik-Anteil (Autarkie)

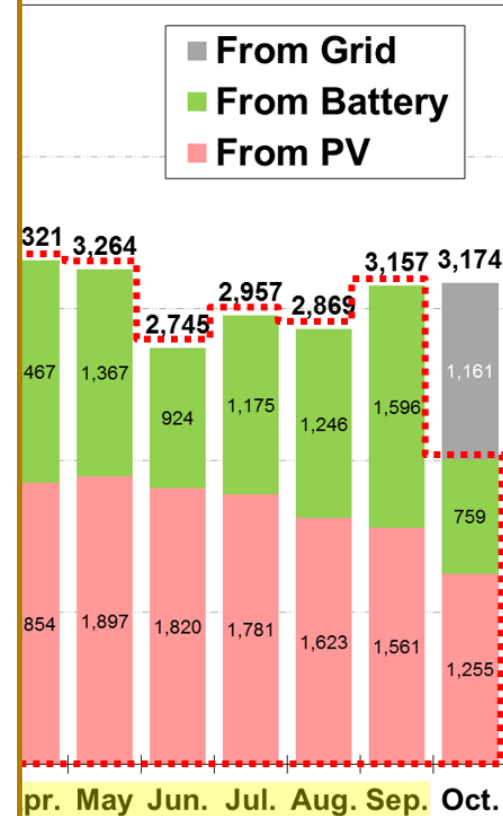


Eigenversorgungsrate

- 84% Eigenverbrauch



ik-Anteil (Autarkie)



Aktuelles und Ausblick

Mieterstrom

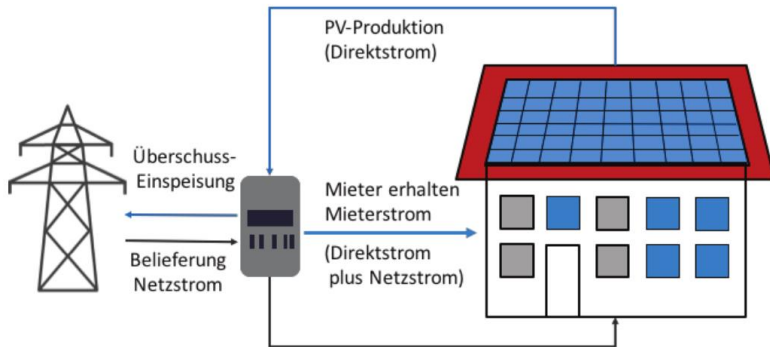
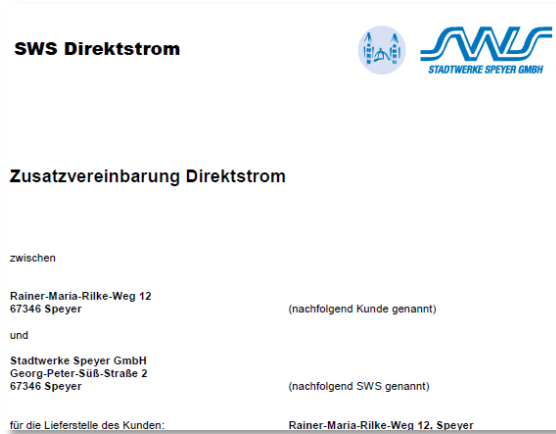
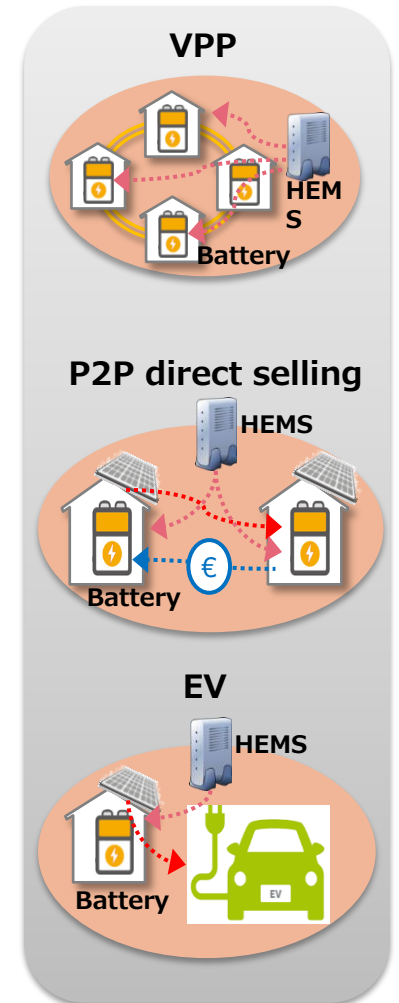
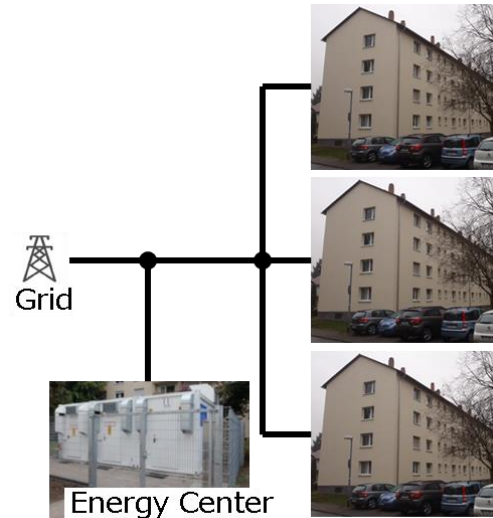


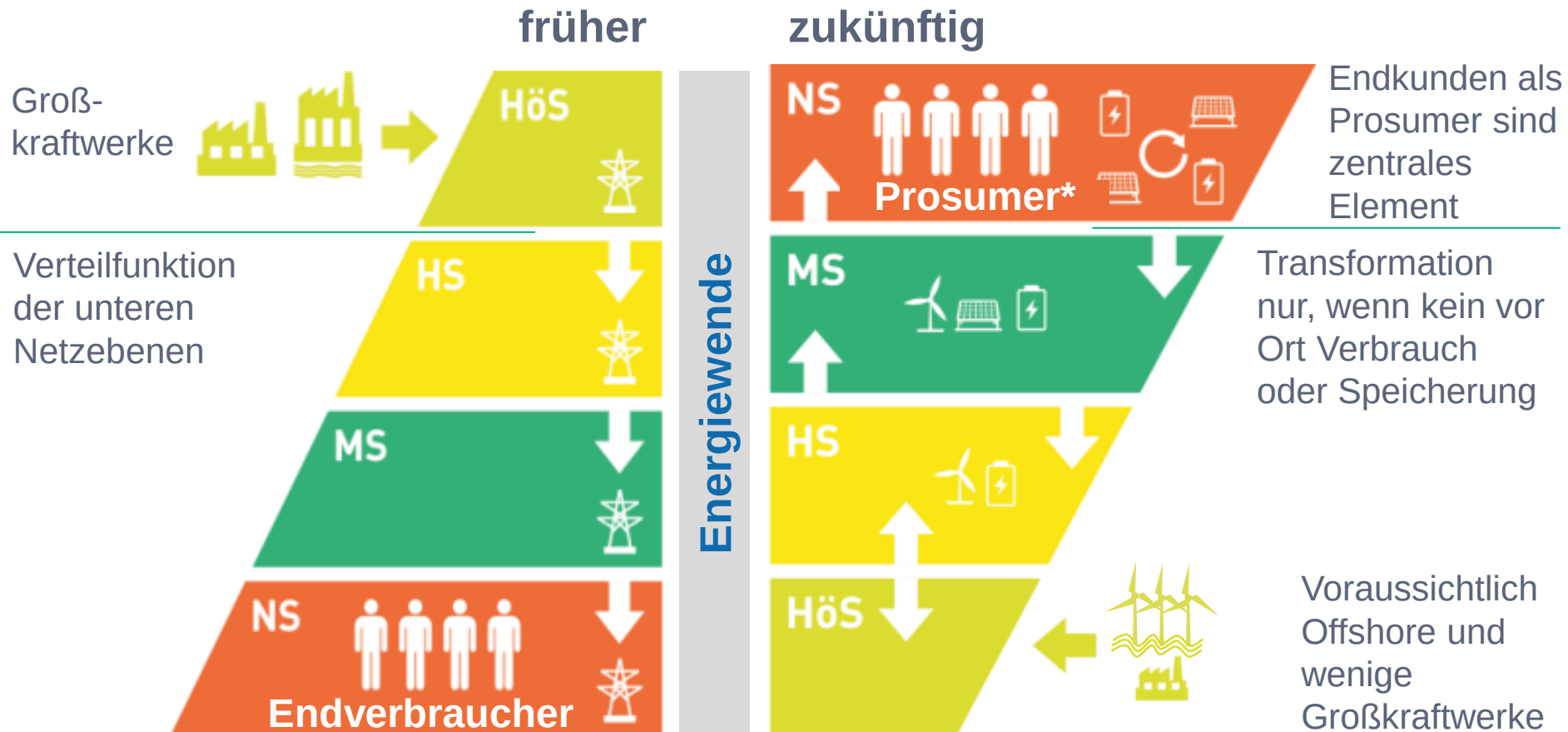
Abbildung 1: Definition Mieterstrom (Quelle: Urbane Energie GmbH)

- Virtuelles Kraftwerk
- Quartiersversorgung
- Elektromobilität
- Per to per



Das Energiesystem wird dezentraler und komplexer

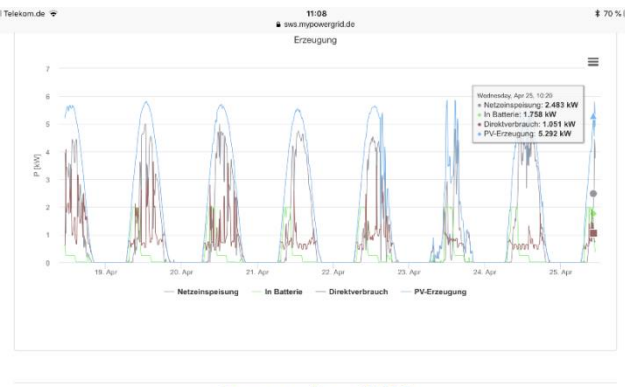
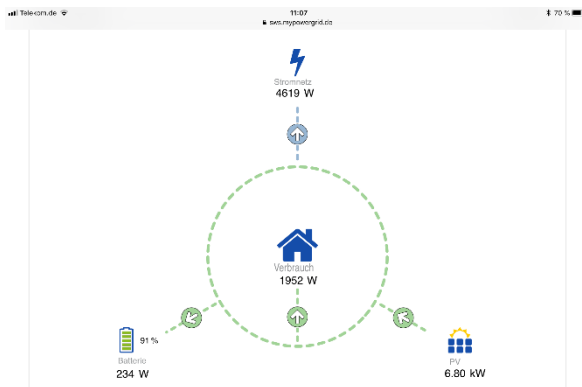
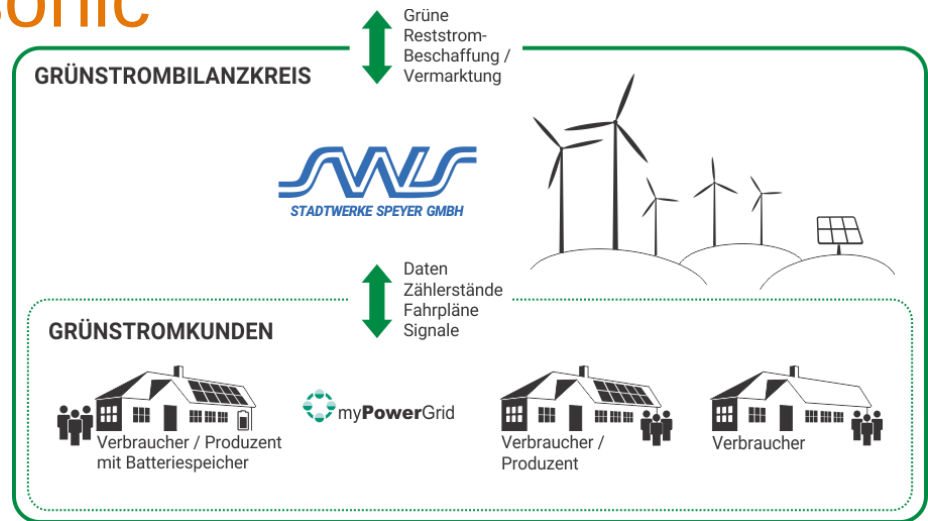
* $\text{Producer} + \text{Customer} \rightarrow \text{Prosumer}$



GreenPowerGrid und sideproject mit Panasonic

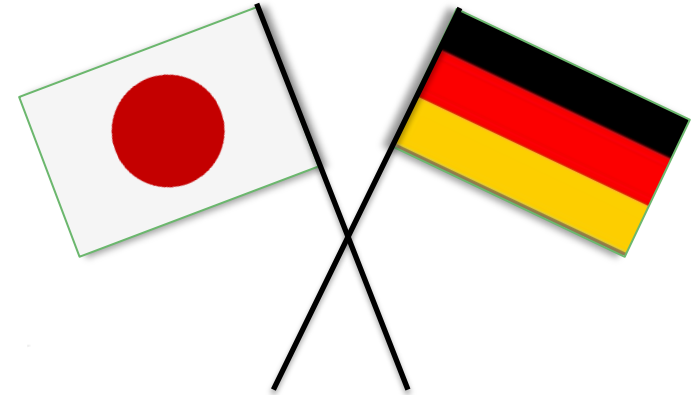


Foto: Timo Amberger



Panasonic 

Vielen Dank! Fragen?



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