Customer engagement to support renewable energies & energy efficiency

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Digitalisation will transform the energy world as well as it did disrupt other industries.

In the dynamically connected electricity mains, ...

... the household plays a decisive role

Energy strategy as the driver ...
- No more nuclear power stations
- Development of new renewabale energies
- Pressures of cost and optimization

... with a large influence from the households
- Decentral production
- Increased electrical mobility
- Intention for self-sufficient optimized own consumption

Why tiko?
Founded in 2012 – A Joint Venture of Swisscom and Repower

Efficient heat supply

In-home energy management

Integration of Electrical mobility

Power-saving equipment

Renewable Integration

Insulation

Combined heating + power stations

PV

Batteries

Households

Bio-mass

Fuel cells

Wind

(small) Water

Industry
a 100 MW power station simply with households

Since December 2014 regular supply of grid services

6'000 households „real-time“ managed

Using electrical consumers like heaters, PV, batteries etc.
tiko – managing flexibility and more
Energy efficiency for households and grid services to support renewable energies

Aactors and sensors → Gateway → Backend/Algorithms → Front-end

- T-Sensor
- K-Box
- M-Box
- Private Cloud
- Web
- App

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tiko power - customer savings of up to 150 €/year

Features for the participants are being constantly enhanced

**Monitoring**
Detailed consumption analysis and comparison with other users

**Comfort & Savings**
Ecomode as remote control for savings

**Security**
Alarming by functional problems

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**Energy efficiency for households with electrical heating systems**
By joining tiko participants can profit from additional functionalities and support the energy turnaround

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tiko power – high precision virtual power plant

Participants are proud to be part of it
tiko communicates with each device per second

New business models can be developed

1. Heat pump
2. Night storage
3. Direct heating
4. Boiler

- Enhanced maintenance services
- Increase in energy efficiency
- Added value for the customer
Thank you