



Energy Saving Meters

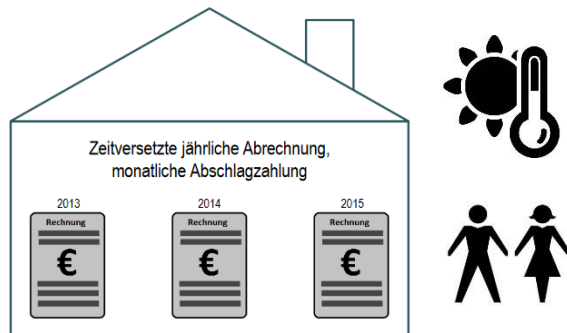
Using Real Performance Data to Drive Real Performance

Geneva, 31st of October 2017

Metering Real Performance is Crucial for Business Models, Standards, Incentivation, Political Effectiveness

As-Is-State:

Time-delayed annual feedback, monthly payment

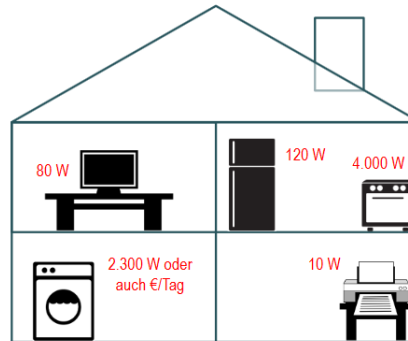


Problems:

- No information about single uses and influencing variables
- No feedback-incentivation
- Weak indication of energy efficiency

Objective:

Real-time-feedback on real energy performance



Advantages:

- Use-specific information
- Real-time feedback
- Automated user recommendations
- High feedback-incentivation (>12%)
- Normalization of influencing variables
- Indication of real efficiency

Energy Efficiency Meter



Quelle: CSIRO Science Image

Examples –applies to thermal energy, buildings industry etc.

The basis for:

- **Innovative Business and Financing Models**
- **Policy Evaluation**
- **Outcome-Based Standards**
- **Efficiency-Tariffs**
- ...



Metering Real Energy Efficiency: Some Practices and Approaches

OpenEE (US)



Open-Source software (MIT-License)
for private companies, utilities and regulators

www.openee.io

MEETS (Seattle)



Transaction structure (incl. utilities, regulators, investors, building owners, architects, standards organization...)

www.meetscoalition.org

Einsparzähler (DE)

(Energy Savings
Meter)



Funding scheme for pilot projects using metered performance.

Technology open, buildings, homes, companies.

50/50 funding for enabling and metered performance:

- 28 ct/kWh elect.-savings in Homes
- 15 ct/kWh elect. savings others
- 5 ct/kWh nat. gas, heat, cooling
- add. funding for open source (2ct), smart meter gateway (2ct), load-management readiness (2ct)

goo.gl/6vcj84

