

**Pilot support scheme
for smart devices and efficiency service:
Der Einsparzähler ("energy-savings meter")**

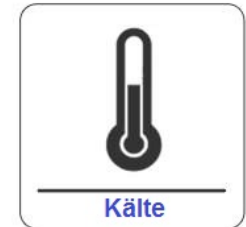
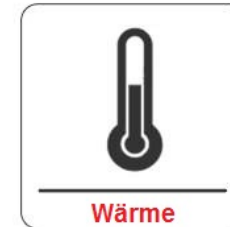
Michael Blohm

I. „Einsparzähler“ (Energy Savings Meter) are...

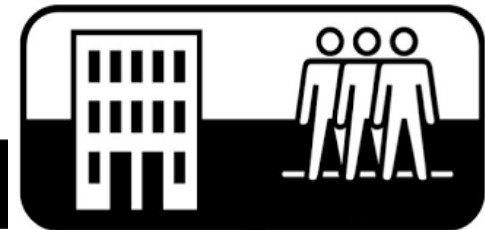
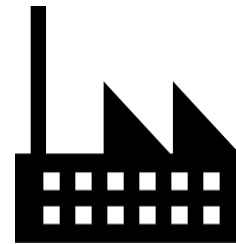
- ...pilot projects ...



- to save

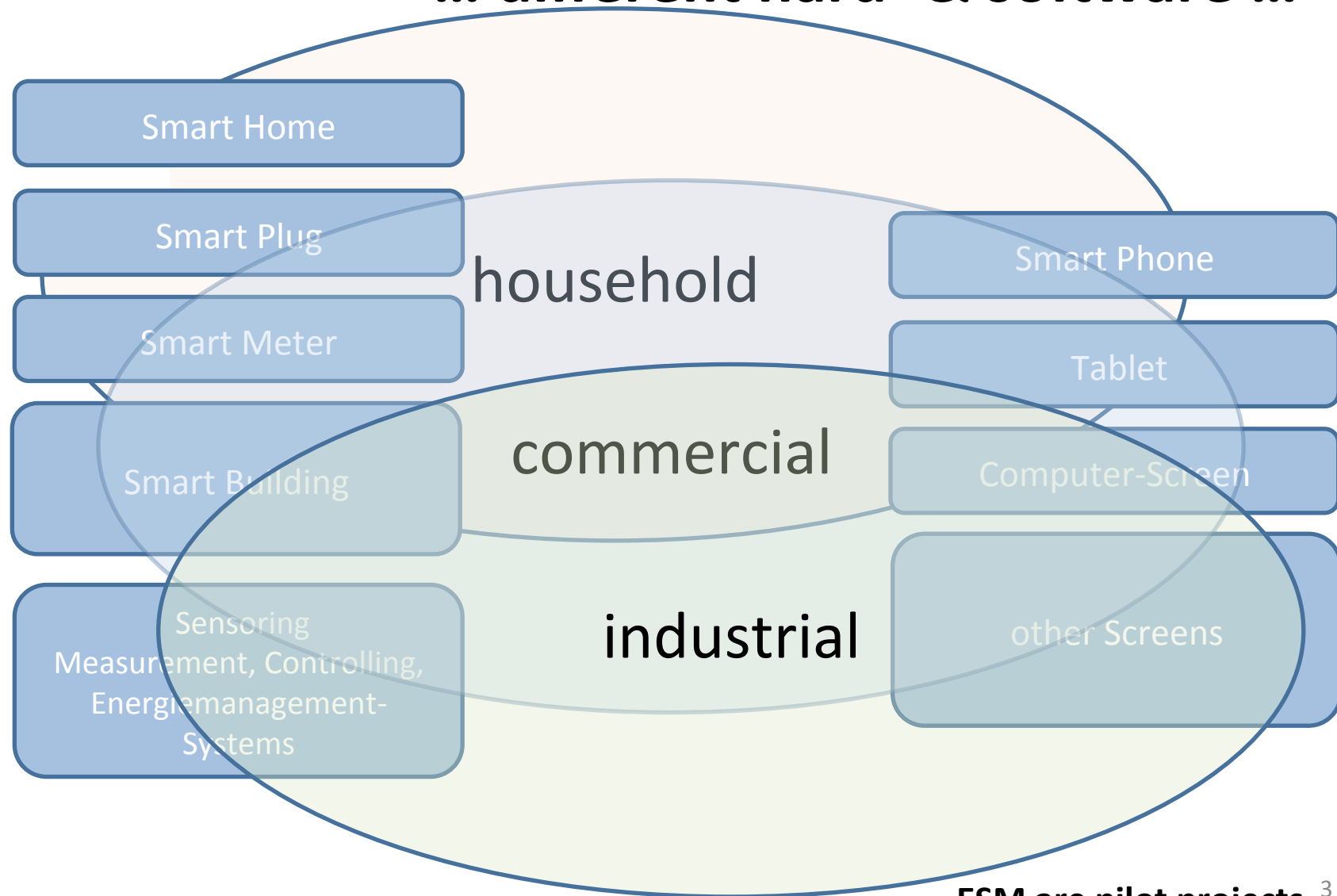


- in different sectors/
use cases ...



II. ... are based on ...

... different hard- & software ...



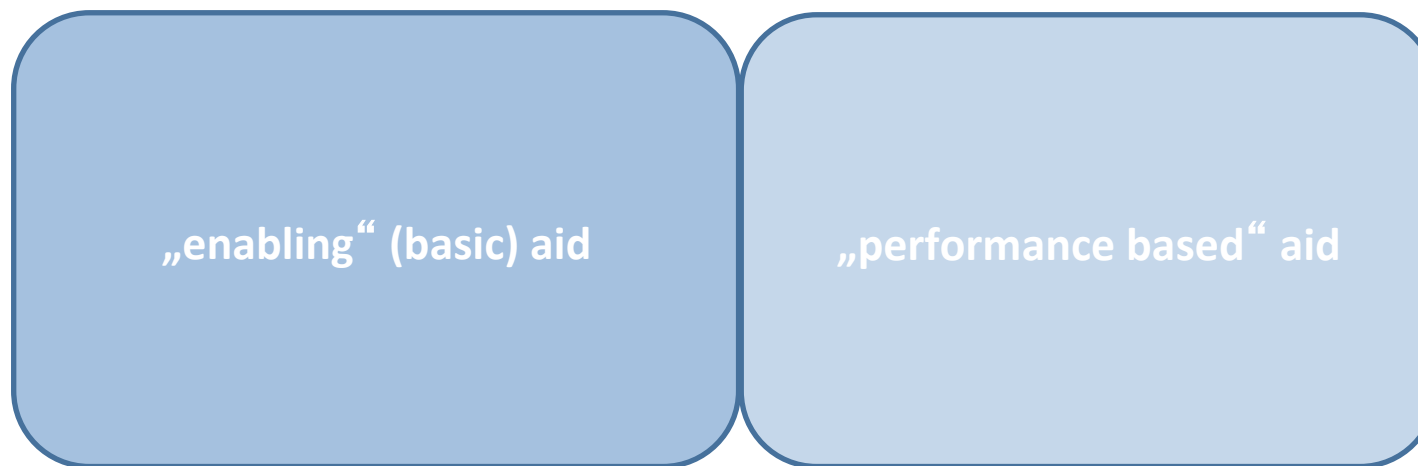
...ESM are pilot projects ...³

III. Requirements

- 1. Baseline definition**
- 2. Robust measurement methodology** incl. a precise definition of boundary of the energy system
- 3. detection of devices / machinery**
- 4. individualized user-information & „additional services“ for energy savings**
- 5. regular Performance checks (Measurement)**
- 6. IT-Security and data protection**

IV. aid / mode of payment

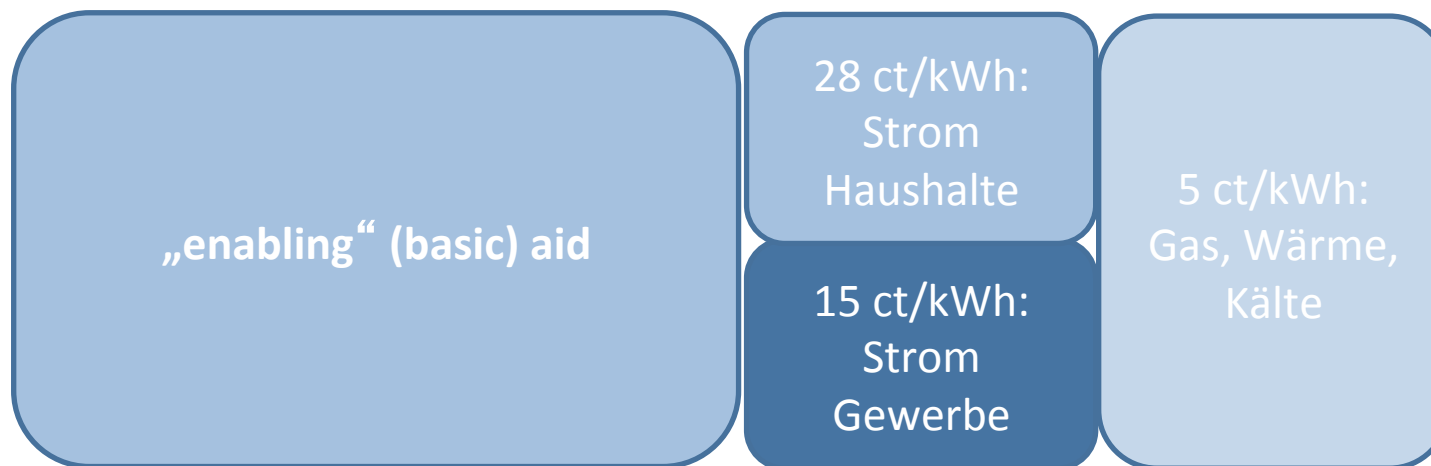
Overall amount of state aid is cut in two parts:



1) 50% based on „project costs“

2) 50% based on „saved energy“
(in ct/kWh)

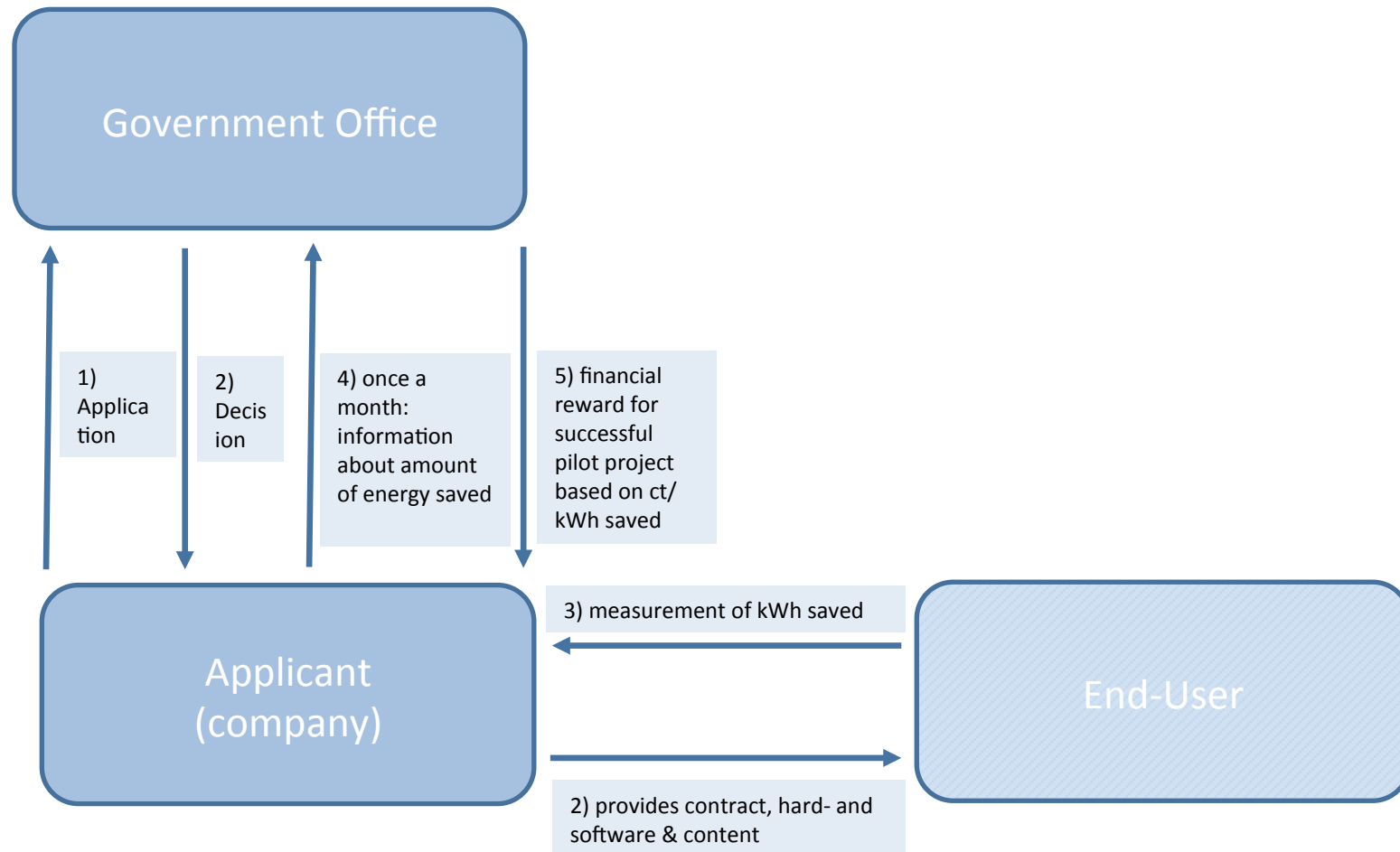
V. aid / mode of payment



based on project costs

in ct/kWh
performance based

VI. Overall Design: Functions and Procedures





Thank you

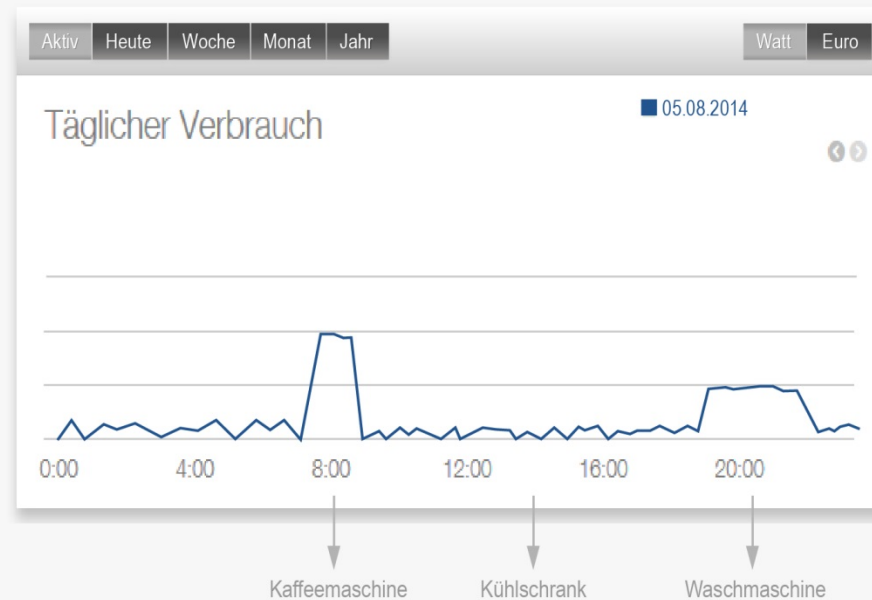
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Annex

(examples of visualisation)

II: Visualisation in Smart Energy System

Energie



- device detection i.e. via algorithms
(„digital fingerprint“)
- **Information to the end-user**
- individualised,
- based on the devices of the end-consumer
- continuous
- in real time

Aktiv Heute Woche Monat Jahr

Watt Euro

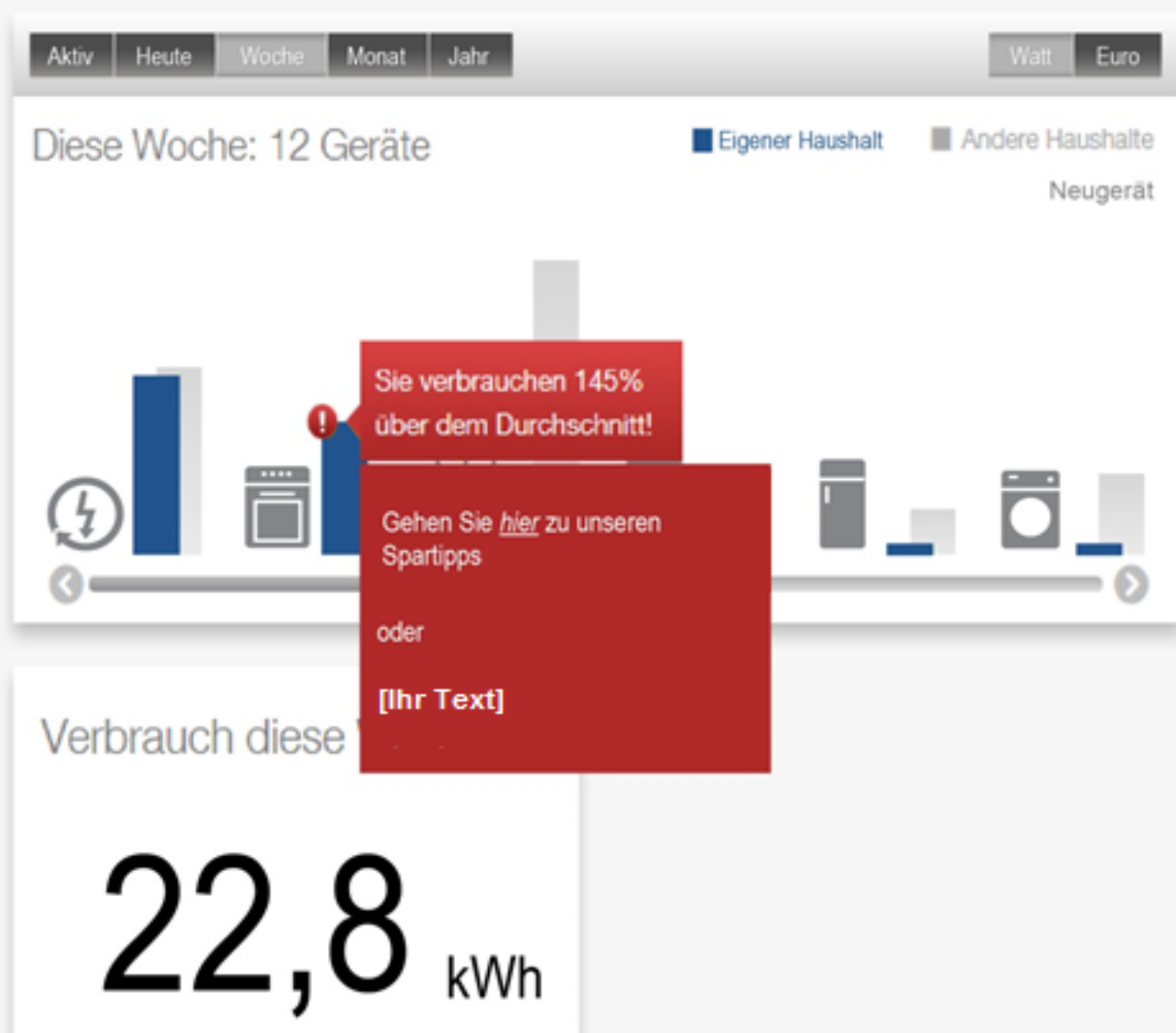
Diese Woche: 12 Geräte

■ Eigener Haushalt ■ Andere Haushalte



Verbrauch diese Woche

22,8 kWh



Energie

Verbrauch

Einsparung

Aktiv

Heute

Woche

Monat

Jahr

Watt

Euro

Diese Woche: 12 Geräte

■ Eigener Haushalt

■ Andere Haushalte

Backofen:
Einsparung diese
Woche

Diese Woche: 2,1 kWh
= 0,49 EUR

Waschmaschine:
Einsparung diese
Woche

Diese Woche: 3,2 kWh
= 0,73 EUR



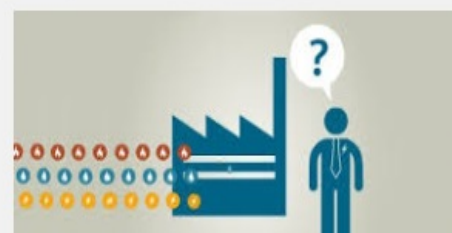
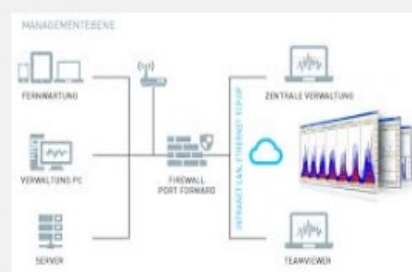
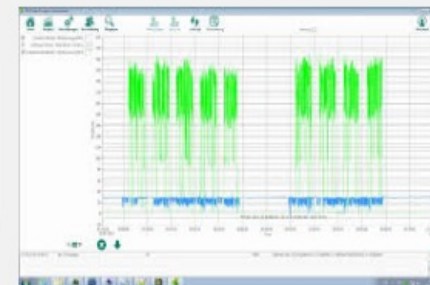
Eingesparte Kosten
diese Woche



2,18 EUR

Eingesparte Energie
diese Woche

8,5 kWh



Universal model of an energy system in the context of the „Einsparzähler“

