

Theme 1: ICT for a low carbon economy and smart mobility

**ICT Policy Support Programme
Call 4 Information Day
Brussels, 14th of January 2010**

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Theme 1: ICT for a low carbon economy

Instrument

Objective

**Pilot
Type B**

1.1 ICT for Energy and Water Efficiency in social housing

i.e. housing promoted by the state, by not-for-profit organizations, or by a combination of the two, with the aim of providing affordable housing

**Thematic
Network**

1.2 ICT for water efficiency

Budget allocation: ~ 10 M €

European Commission
Information Society and Media



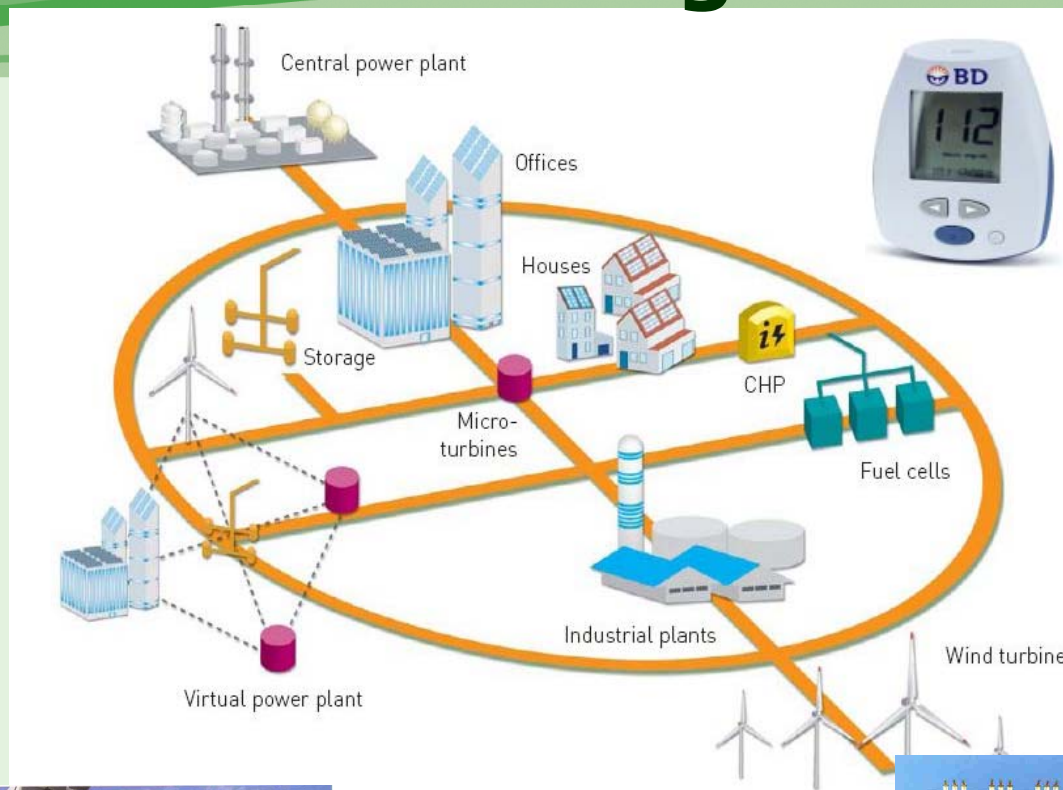
Theme 1: ICT for a low carbon economy

Objective 1.1: ICT for energy and water efficiency in social housing

Several Pilot B – 9.5 M€



Background concept: Smart Grids power grid infrastructure "adding Bits to kWh"

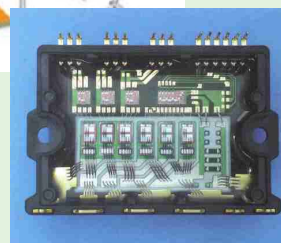


End user real time
information & participation

Central & Dispersed
intelligence



Central and
dispersed sources



Smart embedded
power electronics

European Commission
Information Society and Media



**Pilot
Type B**

Objective 1.1: ICT for energy and water efficiency in social housing

***Objective:* to improve, through ICT-based solutions, energy efficiency in social housing**

- **Pilot actions under this Objective aim to demonstrate that advanced ICT components and systems (e.g. smart metering, smart lighting, power electronics for integration and management of locally generated renewable energy sources, etc.) can contribute directly to reducing both waste of energy and water. For energy, savings on peak-consumption and annual energy use of more than 15% should be demonstrated**



**Pilot
Type B**

Objective 1.1: ICT for energy and water efficiency in social housing

Objective (cont.)

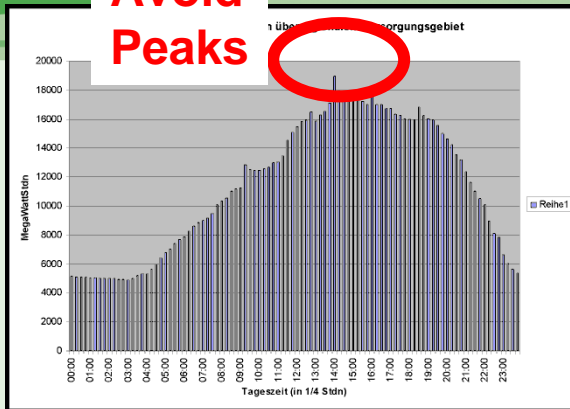
Savings should be considered at:

- **Individual end-users providing information in near real time.**
- **At neighbourhood level considering collective resources (e.g. renewable energy sources, district heating and storage)**

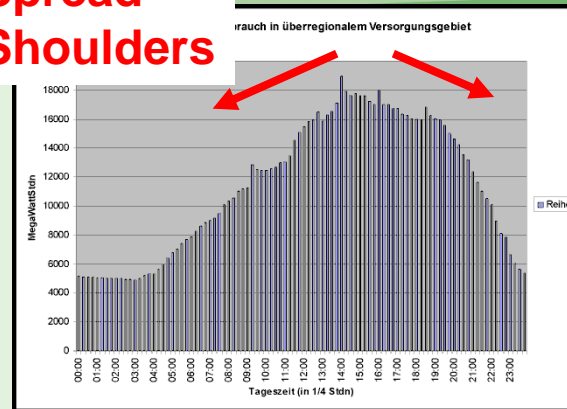


Goals for social housing pilots during one+ year

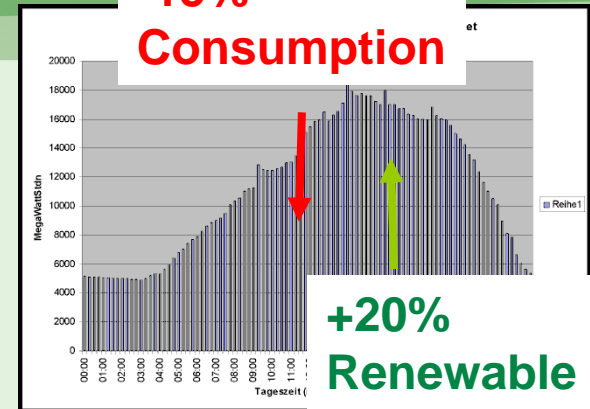
Avoid Peaks



Spread Shoulders



-15% Consumption



+20% Renewable

**+ 15%
peak load
shaving**

**+15%
consumer
energy
saving**

**+ 20%
reduction of
CO2
emissions**

Real life testing and validated functional specifications, involving a statistically significant number of users and ethical and privacy safeguards

**Pilot
Type B**

Objective 1.1: ICT for energy and water efficiency in social housing

Rational and main features of Pilots

- ✓ The emphasis is on fostering innovation in services → the pilot may need to take-up completed R&D work, may extend already tested prototype services or may combine / integrate several partial market solutions to realise a new innovative approach.
- ✓ The goal is to implement and validate an ICT based innovative service under real conditions in a cluster of social houses.
- ✓ Preconditions for funding are: involvement of public authorities and availability of the water/energy infrastructures.





Pilot
Type B

Objective 1.1: ICT for energy and water efficiency in social housing

In addition:

- Demand-driven approach including in the consortium ICT providers, distribution network operators and housing corporations
- Defining specific and realistic quantified indicators
- Validation carried out in real life conditions, for a period of at least 1 year
- Providing socio-economic evidence for ICT investments in the field
- Complying with interoperability standards

Expected impact:

- Empowering end-users to play a central role in increasing energy and water efficiency and CO2 emissions reduction.
- Enlarging the ICT market for services infrastructure



Theme 1: ICT for water efficiency

Objective 1.2: ICT for water efficiency

Thematic Network 0.5 M€



Thematic
network

Objective 1.2 ICT for water efficiency

***Objective:* providing a stakeholders forum for experience sharing and consensus building**

- Members: ICT and water companies as well as local and regional authorities
- Funding 0.5M €

The network should:

- Provide a forum to exchange good practices
- Facilitate standardised ICT solutions
- Qualify and quantify the impact of ICT on water



Thematic
network

Objective 1.2 ICT for water efficiency

Conditions and characteristics:

- The Thematic Network should be open to water distribution companies both from public and private sectors
- The focus is on how to overcome barriers to the introduction of ICT solutions for innovative water management
- Interoperability and use of common standards

Expected impact:

- Increasing the deployment of ICT tools and services for water management
- Raising user awareness on water scarcity, how to induce behavioural changes and achieve savings



More information



European Commission - Charlemagne Building

http://ec.europa.eu/information_society/events/ict4ee/2010/index_en.htm

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