

DEHEMS



Digital Environment Home Energy Management System

Find out more at www.dehems.eu
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Saving Energy At Home

The Digital Environment Home Energy Management System (DEHEMS) project is a European Union funded project looking at how technology can improve domestic energy efficiency. The project partnership includes a mix of European local authorities, private business and universities. The project is the first initiative to come out of the UK Greenshift Government Taskforce which brings together public, private and voluntary sector organisations in a common programme to maximise the effectiveness of IT in achieving 2020 emissions targets.

The Partnership

- Manchester City Council [United Kingdom]
- Technical University of Cluj-Napoca [Romania]
- Clicks and Links Ltd [United Kingdom]
- Hildebrand Technology Ltd [United Kingdom]
- Bristol City Council [United Kingdom]
- Corinex Communications [Slovakia]
- Energy Agency Plovdiv [Bulgaria]
- Ivanovo Municipality [Bulgaria]
- Institute e-Austria Timisoara [Romania]
- University of Rousse [Bulgaria]
- Birmingham Council [United Kingdom]
- University of Coventry [United Kingdom]
- The Centre [Belgium]
- University of Salford [United Kingdom]

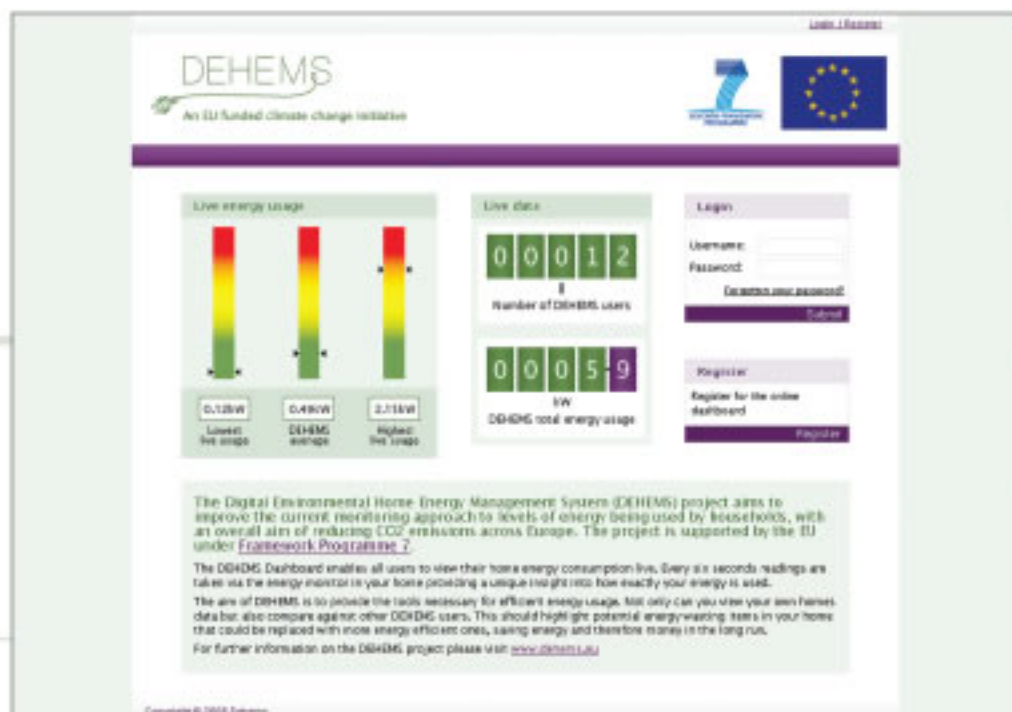
Led by Manchester City Council, DEHEMS is developing next generation smart metering for households. It is currently in the first stages of piloting in Manchester and will help households cut energy bills through a revolutionary new online energy "dashboard". This dashboard provides a range of energy use information via TV, PC and mobile which includes:

- Real-time projections for the total extra/saving for the next bill, compared to the last bill.
- Real-time energy usage for the household, compared to the neighbourhood average, measured in cost, CO2 and Kwh.
- The pattern of energy usage over the day for the household, compared to the neighbourhood average, measured in cost, CO2 and Kwh.

This dashboard will be accessible through internet enabled TV as well as PC and mobile phone.

Facts and Figures

DEHEMS recently conducted a major survey into public awareness on energy usage by household appliances. The survey tested households' awareness of the energy needed to operate different appliances at full capacity.



Over 1000 people were asked to rank the household services that used the most energy if left on at full capacity from a list of typical appliances and services. Only 17% correctly identified the most power hungry service. The ranking based on what people thought used the most energy was:

- 46% Fan Heater
- 22% Kettle
- 17% Washing Machine (On Hot Cycle)
- 9% Microwave Oven
- 5% TV
- 1% Fridge Freezer

The energy use, based on energy ratings of typical appliances*, is:

1. Washing Machine (On Hot Cycle) (2.5kWh)
2. Fan Heater (2kWh)
3. Kettle (2kWh)
4. Microwave (0.8kWh)
5. Fridge Freezer (0.25kWh)
6. TV (0.07kWh)

* This is distinct from the total power used by an appliance which multiplies power need by the time an appliance is used.