LEEDR
Low Effort Energy Demand Reduction

HOT HOUSE

Richard Buswell

Loughborough University
Leedr project

- TEDDI Call: first Round
- 1.5 million pounds
- 4 years
- Understanding routines and energy consumption in 20 family homes
• New methodologies for interdisciplinary research
Design outputs

• Digital media concepts
• Personas and linking these with numerical data
The Video Archive

This video archive contains a selection of the recordings we made with participants, so you can see, interpret and learn about these themes and ideas in your own way.

In total we worked with 20 households. We recorded full video tours and re-enactments of everyday routines, lasting approximately one hour with all 20 households. With 10 of those households we then worked closely for around two days, to explore, video record, and observe how they undertook a series of everyday activities and how they experienced these.

We were particularly interested in their uses of digital media, showering, laundry, kitchen activity and their use of heating.

A note on copyright
LEEDR is a 4-year research project that seeks to undertake, how they organise and arrange their home environment and to help protect your virtual forest; or Finite, an app that augmented reality to illustrate your energy habits with black smoke, encourage an ongoing reduction in showering time behaviour, or under pressure. And here are some of the possibilities for energy savings:

- More advanced heating controls, enabled through ICT.
- An energy harvesting system that collects the wasted energy.
- A digital management system to coordinate local resource availability.

We have already started to identify several exciting opportunities, in addition to an energy harvesting system that collects the wasted energy. The study then anticipated changes? The modelling approach here takes consumption and production and cooking, difference appliances, different occupancy and been living there for more than 4 years, nearly half for more than 10 years and of ambiguity, a feeling of connectedness, and the convenience of not having to get out of bed to switch the TV off in the night. When would you do that?

The 'parasitic' loads are less in modern combi systems might not be correct. Para...
Outputs

• Hot water future scenarios
• Behavioural models
• Insights report
• Low carbon home HWS data set
Richard Buswell
r.a.buswell@lboro.ac.uk