

When looking out of the window is not enough: Informing The Design of In-Home Technologies for Domestic Energy Microgeneration

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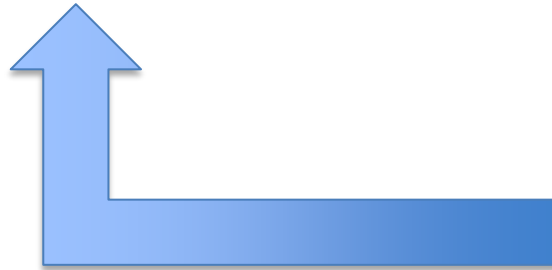
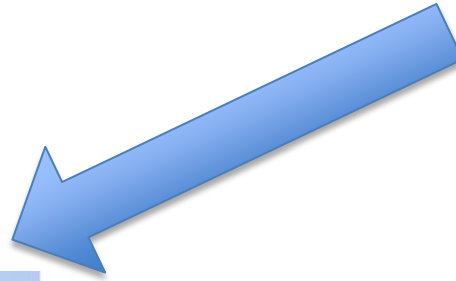


How can I contribute?

People as co-producers of energy



Feed In Tariff - FIT

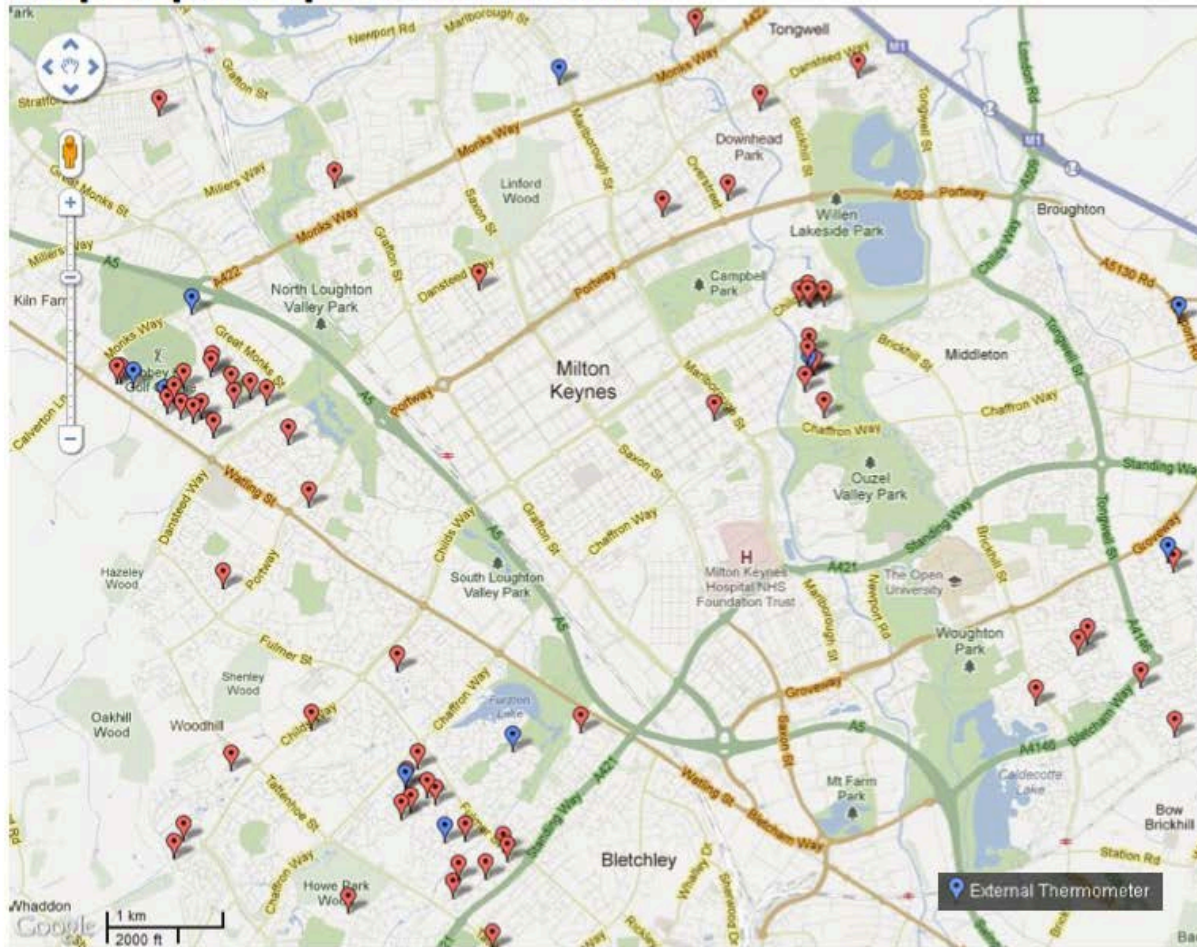


People can't know

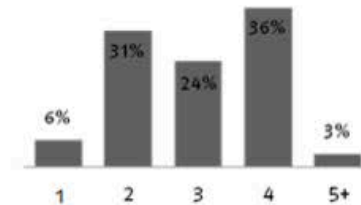
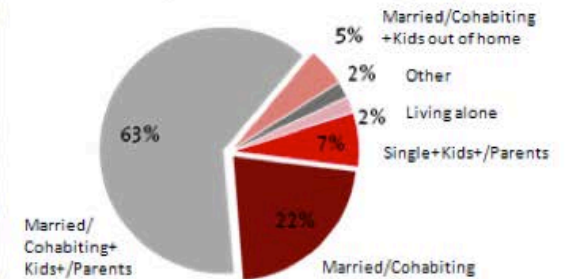


Focus groups with 75 households

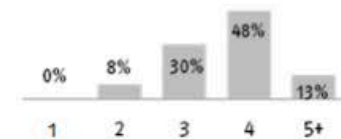
Map of participant distribution



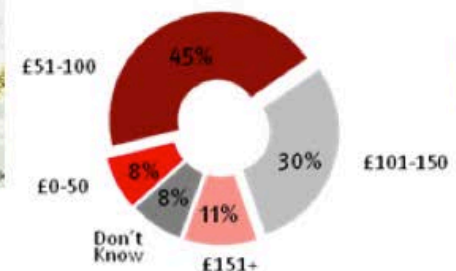
Participant Demographics



People in Household



No of bedrooms



Monthly Energy Cost

How do people experience
microgenerated energy?

How can ICT support them?

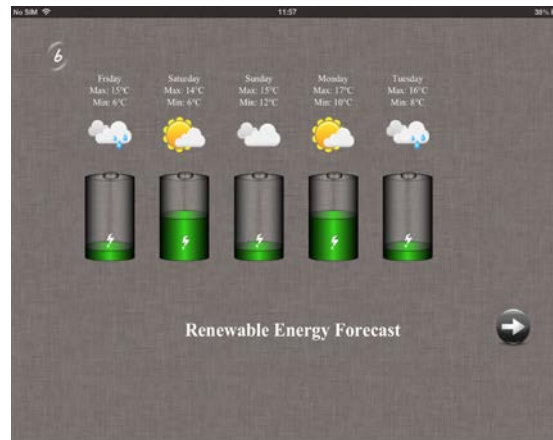
Demand Shifting

- *“We now switch on (appliances) when the sun is out – so that’s happened with the introduction of solar panels...”*
- *“the sun was out, so the washing machine was on. It would be nice if I could do the ironing – but I don’t know how much ...”*

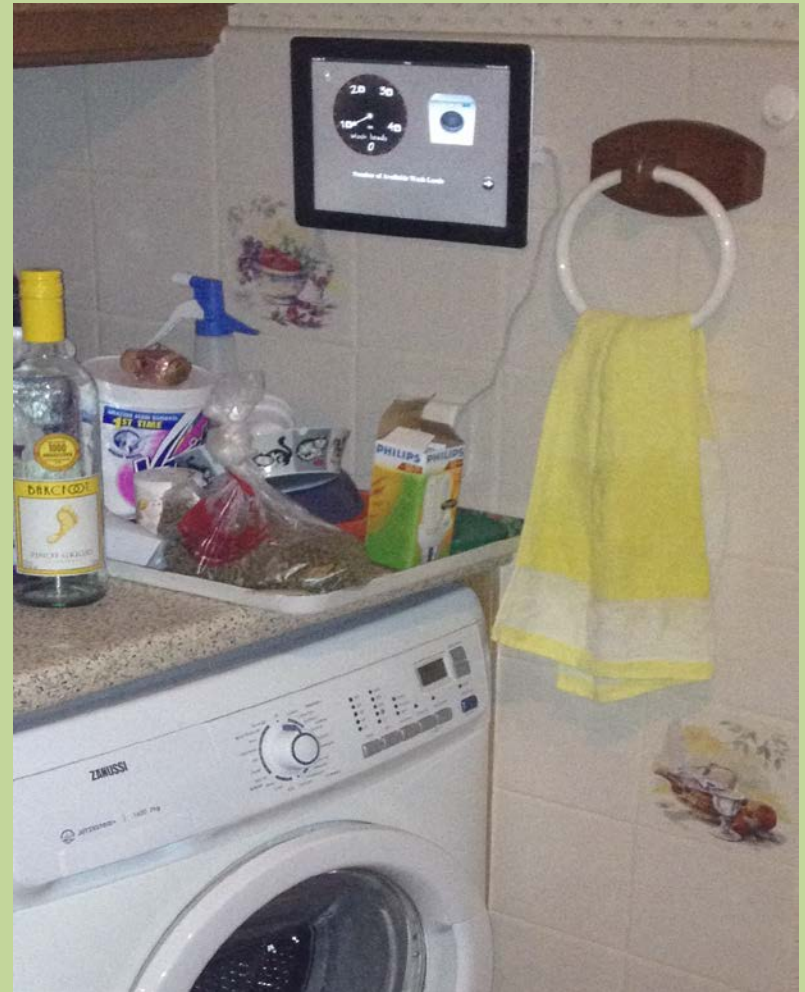
Estimating generation of energy



metaphors



Living with metaphors



By September 2012 there were over 360,000 residential installations in the UK with a constant pace of over 1,200 installations per week.

Keirstead: "there is a danger that if behavioural responses to microgeneration technologies are not considered now, when consumer technologies and protocols are still being developed, then the industry could find that households become locked into behaviours that may be undesirable in the longer term"