WP1: Behavioural Insights - Case studies

Thermal stores for future domestic heating and hot water systems

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Two projects

Aims

1. Thermal stores
   - To understand the user requirements for future thermal stores for domestic heating and hot water systems.

2. Heat emitters
   - To understand the user requirements for future low temperature heat emitters for domestic heating.
   - To explore potential changes in behaviour that may result from the introduction of new low temperature systems.
   - To ascertain the practicalities of retrofitting new low temperature systems into existing housing stock.
Thermal stores - context mapping and interviews

Two parts

• **Part 1** - Current system use

• **Part 2** - Potential future use with a thermal store
Part 1 - Current use, behaviours and understanding

Part 1 interview explores...

- Participants current hot water system
- Current use of the system
- Planned use (heating times)
- Strategies of use (i.e. negotiation, awareness, decision making)
- How deal with unexpected events (What if…) 
- Points of user satisfaction / dissatisfaction 
- Practicalities of the system 
- Any suggested improvements
Part 2 - Future use, behaviours and requirements

Part 2 interviews

• To help visualise potential future systems (thermal stores) and future use scenarios

• To develop future requirements for thermal stores and associated appliances
Part 2 - Future use, behaviours and requirements
<table>
<thead>
<tr>
<th>Methods</th>
<th>Progress</th>
<th>Next steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online questionnaire</td>
<td>• N= 290</td>
<td>• Plan to redistribute second version to; increase sample size, gain more representative sample and to focus data collection based on results from first distribution and HW interviews.</td>
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<tr>
<td></td>
<td>• Analysis of results complete.</td>
<td>• Awaiting analysis of interviews.</td>
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<td>• Draft report produced.</td>
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<tr>
<td>Thermal stores (HW) Context mapping and interviews</td>
<td>• 30 interviews completed (combi, conventional and PV)</td>
<td>• Thematic analysis of the qualitative data using Nvivo – ongoing.</td>
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<tr>
<td>Heat emitters - Interviews and Walk through in the home</td>
<td>• Methods developed</td>
<td>• Data collection in heating season 2016-17</td>
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</table>
Thank you

Any questions?

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