

## SAPIF 06 March 2019 meeting

### BEIS – Katy Read slides 4 to 8

- Overview, background etc provided, particularly making connections with 'The Buildings Mission'.
- SAP 10.2 would be for adoption, sometime in 2020s
- SMETERS project aims to deliver ability to measure the actual thermal performance of the building.

### Working Groups – general: slides 9 to 11

- Reiterated the 3 main objectives and referenced the 5 generic outputs.

### WG #1 Domestic Hot Water (DHW) slides 12 to 19

- WG decided to expand their scope to include heating.
- Scope boundary is one-day of hot water storage. There afterwards, see WG #3 Home Energy Storage.
- Their next meeting is 10 April.
- **ACTION: All provide feedback to [isaac@eua.org.uk](mailto:isaac@eua.org.uk) (refer the last slide (19 of 76))**
- Overlaps: #2 Smart controls; #3 Home Energy Storage and #5 Vent & IAQ.

### WG #2 Smart controls, technologies and tariffs slides 20 to 31

- Had difficulty in defining "Smart Control" – the reason being that everyone disagreed.
- BRE noted that a functional definition would be needed so that the mechanism for reducing energy use is clear.
- **ACTION: WG#2 needs to collaborate with other WGs to identify overlaps and decide where these will be covered to minimise duplication.**
- **ACTION: WG#2 to ensure the scope of technologies covered is feasible and is prioritised appropriately to explore within the timelines.**
- **ACTION: All WGs to engage with Smart Controls WG.**
- Smart Controls span both the asset and the occupants (operation).
- Overlaps. #1 DHW; #3 Home Energy Storage; #4 Overheating; and #5 Vent & IAQ.

### WG #3 Home Energy Storage (heat & electricity) slides 32 to 47

- SAP 10 does not currently recognise home storage beyond batteries.
- There is a need to remove the barriers to enable developers to utilise home energy storage.
- 'Active buildings' the prize.
- Carbon and pricing factors are key influencers.
- Noted that the choice of metrics is important, and all groups encouraged to consider performance of the technologies they are exploring against different metrics.
- **ACTION: WG #3 to meet with BRE to understand current state of play re storage in SAP**
- Need to describe what the storage unit does, rather than explain the modelling aspect.
- **ACTION: WG #3 contact De Montford University as they have extensive experience of in-the-ground-storage.** (source: Rob Pannell)
- Overlaps: #1 DHW; #2 Smart Controls; #4 Overheating; and #5 Vent & IAQ.

'Open' – OK to share

#### **WG #4 Overheating including prevention & cooling** slides 48 to 57

- Need to accommodate Dynamic Modelling aspects (rather than Static Modelling aspects).
- Would like WG #5 Ventilation + IAQ to have input on the work, possibly as a representative.
- **ACTION: WG #4 to include passive Cooling.**

#### **WG #5 Ventilation and Indoor Air Quality (IAQ)** slides 58 to 71

- Next meeting is early April.
- Need to consider noise as a factor influencing ventilation e.g. ability to open windows.
- Notes there is a conflict with energy reduction, as need energy for operation of fans.
- **ACTION: All WGs to forward details of any one they consider could assist WG #5.**
- Overlaps: #4 Overheating.

#### **WGs' central data store** slides 73 & 74

- Purpose is for everyone to share / access / view material.
- WG internal documents best managed within each WG's own document repository.

#### **Future meetings: slide 75**

- RDL suggested four:

• June / July	Leaders / CoLeaders only	"Are we all OK?"
• October	Open to all	"How are we doing?"
• January 2020	Open to all	"Last chance before handover"
• March 2020	Leaders / CoLeaders only	Presentation of findings

#### **General**

- WG are very happy to accept offers of membership / contributions.
- Unclear how to handle new products / systems that are clearly commercially sensitive. JohnTe suggested a way to overcome this: SAPIF is not interested in how a product / system works per se, but more what its performance and criteria needed to model its performance.
- Smart Grid will be a significant factor.
- **ACTION: BRE to advise on outputs needed from each Working Group from the viewpoint of SAP11 developers within next 2-3 weeks.**
- Members / contributors do need to be engaged.
- SAP11 needs to be a model of reality that is suitable for all Devolved Administrations.
- Outputs for each WG need to address the following, as these feed into the specification for the construction of SAP 11:
  - How does it work?
  - What are the ways in which it is used?
  - What sort of performance?
  - Unintended consequences (e.g. noise, security etc)?
  - Quality of the installation (workmanship) that has a significant effect?
- Appendix Q / PCDB needs to far more easily accommodate new technologies and systems.
- If any WG has concerns – seek guidance from BEIS (Katy Read).
- If BEIS has relevant information – this will be shared with the relevant WGs.
- Suggested a SAPIF calendar would be useful for the coordination of meetings etc. This will be hosted on the central data store.
- BRE suggested that electric car charging was out of scope. However Vehicle to Grid charging could be viewed as just another battery that just happened to be on wheels; however, as the home owner will take the car with them, it should not form any part of an asset rating.

- End -