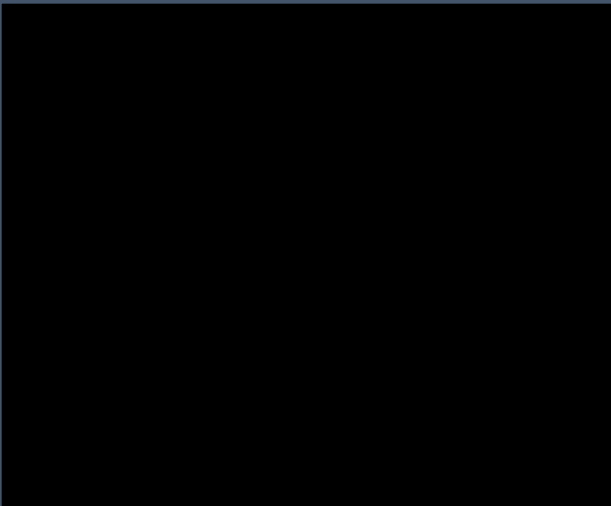


Routes into SAP – Q&A

Dr Neil Cutland, Director, Sava



- Energy in the built environment consultant.
- Specialism: low energy housing (including modelling).
- One of the people who developed MKECI (1988), NHER (1990), SAP (1993 ff).
- Have sat on SAPSIG, Ofgem's TAP, BRAC's Part L and ZC working groups.
- Currently assisting innovators in the Net Zero Heat Cohort (and SECHA today).

Please excuse any 'English-isms'

The usual ways into SAP for new tech

- (It matters: B.Regis/Standards compliance, EPCs for existing and newbuild homes, ECO, GBIS and other funding streams, UK policy modelling...)
- Engage, discuss and lobby DESNZ and its contractors (currently BRE). Then get in either
 - via the conventions list and/or a technical note
 - by making an entry in the Products Characteristics Database (PCDB)
 - by carrying out an 'Appendix Q' application
 - by explicit inclusion in the next full version of SAP

Appendix Q / PCDB / PCDF (“Special Features”)

(For new tech, consider them to be the same thing).

1. Explain the energy (cost) saving mechanism.
2. Map it onto the SAP equations if possible.
3. Prove it.
4. Evaluate the saving and plug it into SAP box 236 & 237.
 - Appendix Q tech usually needs a ‘pre-SAP calc’ spreadsheet
 - and ideally a PCDB/F entry too.

Frequently heard issues with Appendix Q

- “It takes forever”.

1. the dialogue; 2. the proof (esp. monitoring).

- “It costs a fortune”.

1. the process map; 2. the testing/monitoring.

- “The burden of proof is very high”.

Yes – but so it should be; this is science. And national policy.

- “BRE are unresponsive”.

They *really* know their stuff. But IMO they are under-resourced.

Home Energy Model (HEM)

- Previously “SAP 11”.
- Medium-resolution dynamic model (half-hour steps). With ‘wrappers’.
- It’s probably time (new tech is increasingly dynamic).
- But beware – regulatory uses will still require standard occupancy patterns.
- Latest pronouncement by DESNZ: SAP Q tech **will** be grandfathered in
- but “on a case by case basis”.
- Part L (FHS) compliance version due “2025” (England).

Over to you

- Q&A