

The Future of SAP and RdSAP

PEPA Conference

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Department for
Energy Security
& Net Zero





Agenda

1. RdSAP 10

2. Home Energy Model



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RdSAP 10





RdSAP10 Changes

- The RdSAP specification has been developed by BRE and the **RdSAP Advisory Group**, which includes representatives from the accreditation schemes.
- The Government is committed to making the **RdSAP methodology more robust, and supportive of our Net Zero objectives**.
- We appreciate the time and resource impact it will have on assessors, and we want to ensure the transition is as smooth as possible.

1. Ventilation parameters allow for:
a) Details of heatloss via chimneys, flues, fans (in place of defaults);
b) Pressure test can be used if available.

2. PV
a) Calculation accounts for exported electricity;
b) Solar PV battery and divertors introduced.

3. Roof insulation
a) More details of insulation added

4. Wall area and insulation
a) Rate of heatloss via walls was revised,
b) Details updated for solid brick and stone walls
c) Wall area is more accurate as a result of accurate measurement of windows



5. Approach to Room Roof revised
a) Types of RR differentiated
b) RdSAP10 allows for the actual details of RR walls and accounts for gable(s).

6. Windows
a) All windows are measured;
b) Table of windows expanded
c) this allows accurate estimate of wall area and heatloss via walls.

7. Window shutters introduced
a) Uninsulated shutters
b) Insulated shutters

8. Floor insulation and ventilation
a) More options for insulation added



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RdSAP10 Delivery & Timeline

Full delivery is now expected in the early summer. We will give as much notice of the final date as possible.

We are working with BRE and the accredited schemes to get the software ready for a stable release.

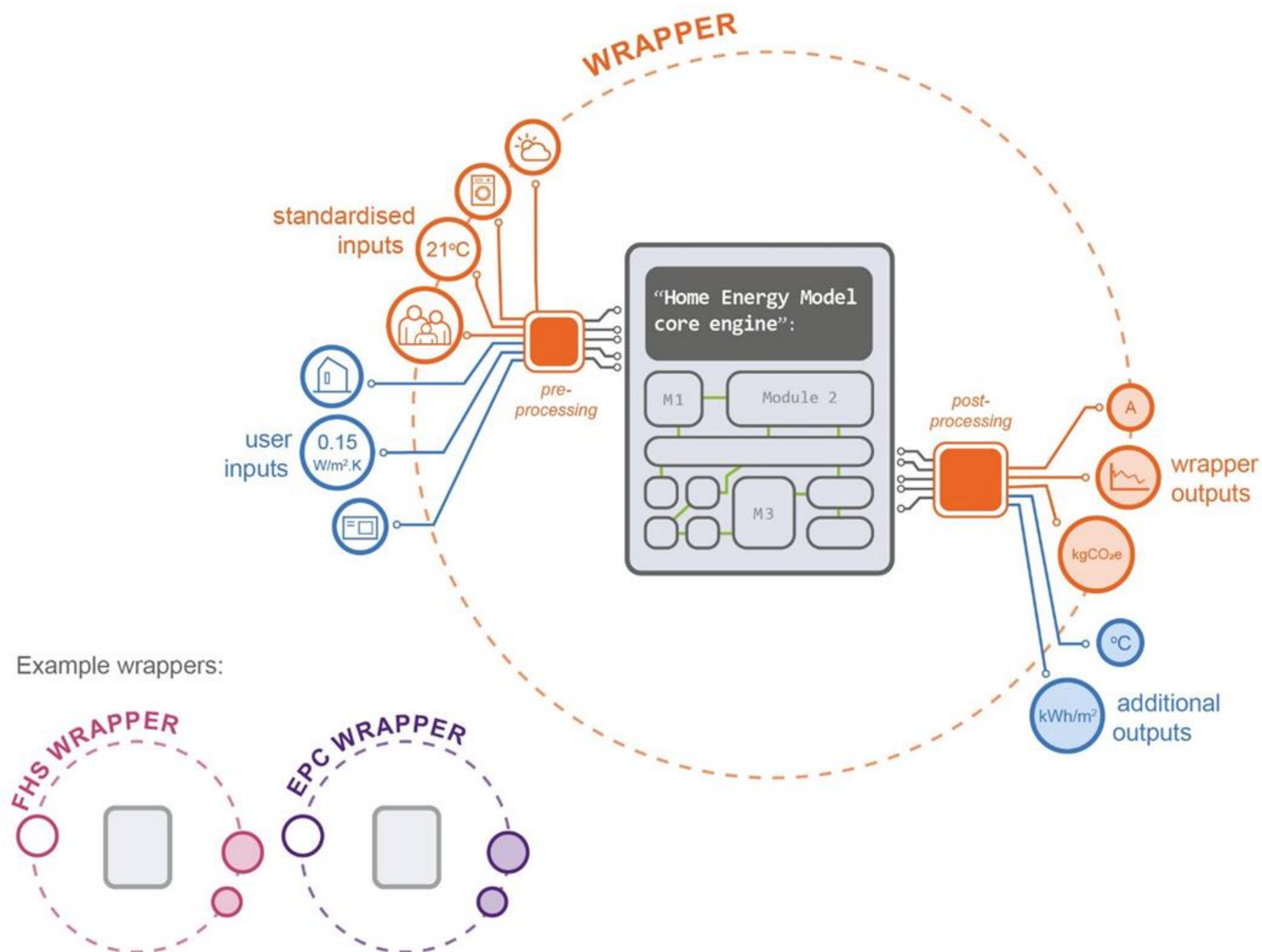
There have been two RdSAP10 conventions meetings so far. The next is due to take place on May 14th.

RdSAP10 comes with some new data collection requirements, which may require new training.



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Home Energy Model





Home Energy Model: Key Changes

1

Modular:

The model will have a core engine and policy-specific wrappers e.g. for building regulations compliance or EPCs

2

More transparent:

We will make the code publicly available

3

More accurate:

Increased time resolution from monthly to half-hourly

4

New delivery model:

Energy Calculation as a Service

5

Products and new technologies:

Revised database of product characteristics and how new technologies are recognised in the model



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Home Energy Model Consultations

- 1. Home Energy Model consultation:**
explains overhaul to SAP methodology,
seeks views on approach taken by new
model
- 2. Home Energy Model: Future Homes
Standard assessment consultation:**
seeks views on proposed methodology for
demonstrating compliance with FHS
- 3. Home Energy Model: FHS assessment
consultation tool**
- 4. Home Energy Model technical
documentation**
- 5. Home Energy Model reference code**



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The Home Energy Model

Making the Standard Assessment Procedure
fit for a net zero future

Closing date: [XX] Month 2023

[Month] 2023



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Home Energy Model Consultations

The consultations have now closed.

We received over 150 responses, including from PEPA and member organisations – thank you!



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DRAFT – GOVERNMENT POLICY



Key Timelines and Next Steps

Ahead of implementation in 2025:

- We will publish Government Responses to both the HEM and FHS assessment wrapper consultations in 2024.
- DLUHC will consult on changes to the EPC in the coming months.
- Following this, we will consult on the full EPC wrapper methodology for HEM later in 2024.
- Interim updates to HEM and associated wrappers will be released throughout 2024.
- We will develop further features, including all technologies currently featured in SAP 10.2, and all existing Appendix Q technologies.
- We will rebuild the PCDB.
- We will undertake further validation to ensure the model is as robust as possible.
- We will speed the model up.





Things to look out for:

- Simplification of HEM:FHS inputs following consultation feedback.
- We will develop user guidance and training for Part L assessors as the HEM:FHS model is finalised (from summer 2024).
- Appendix Q technologies will no longer be entered into HEM through a separate process.
- The methodology for assessing existing dwellings (for HEM:EPC) is now in early development. It will differ from both RdSAP and the consultation web interface for HEM:FHS.
- We will engage with schemes in advance of the full consultation and aim to give as much early warning of changes as possible.
- We will begin conventions and user guidance development as early as possible, and these will run up to eventual release (and beyond as needed).





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Thank you