Consumption Task

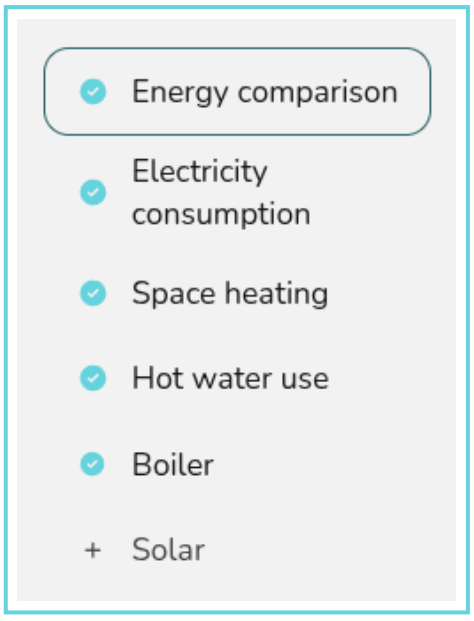
The Consumption Task gives you a complete picture of how a customer’s energy use and running costs will change when switching to a heat pump – including optional modelling for solar PV and batteries. This will help you build trust, handle cost-related questions with confidence, and present proposals that feel complete, transparent and genuinely helpful.

- Benchmark heat pump costs and savings against other energy sources
- Model how different tariffs affect costs and savings
- Include benefits when paired with solar PV and battery storage
- Forecast the long-term costs and benefits
- Present clear, data-driven projections that build confidence in your proposals.

Getting started with the Consumption task

You can access the consumption task via the **'Tasks' drop-down menu** or from the **task list** to the left on the project overview page.

When the Consumption Task opens, a popup will appear. Here, you can configure the settings for calculating the new and old system's consumption. You also have the option to factor in any benefits from solar and a battery.



Navigating the Consumption task

Once you have completed the consumption task inputs, you can then view the insights on the left. In the top right you will also have the following options:

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Edit inputs
Update the electricity, hot water and space heating consumption, energy comparison and solar information

Help
Access this help page directly.

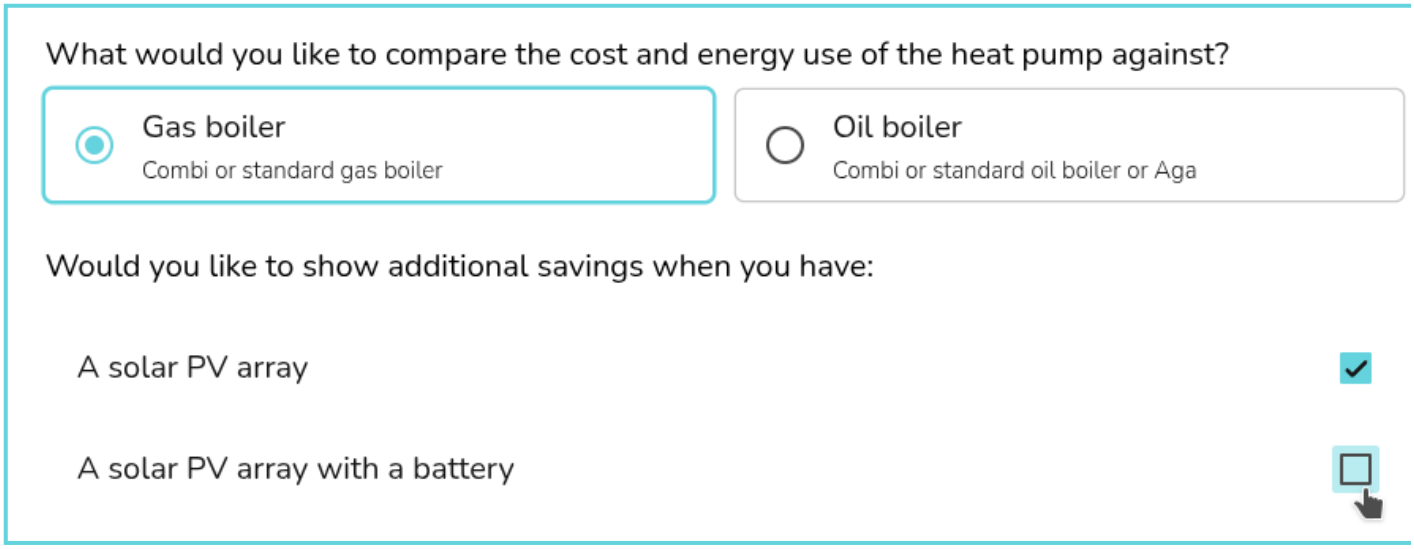
The right-hand sidebar includes options to help you navigate through the different sections of insights.

> Where solar has not been included **Consumption by Supply** and **Import and Export** tabs will not display. Where a battery has not been included, **Battery Utilisation** will not display.

Consumption task inputs

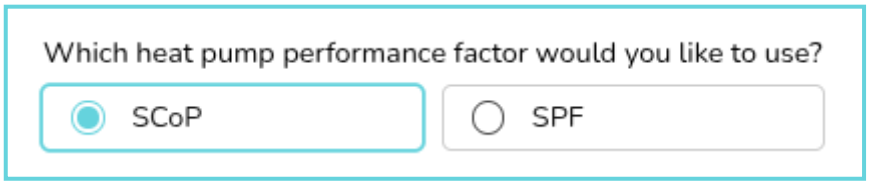
Energy comparison

Select what you would like to compare the cost and energy usage of the heat pump against for space heating and hot water. You can also select whether you'd like to factor in a solar PV array and a battery.

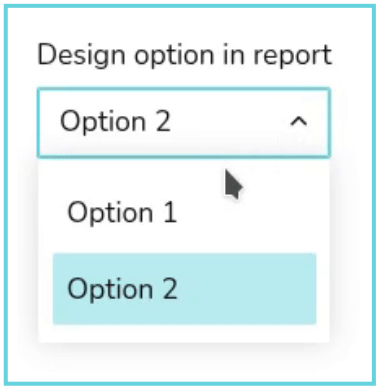


> Details for the existing gas boiler and solar system are input in later sections.

UK users can select here whether you'd like to use the SCOP (based on the heat pump and flow temperature selected in the heat pump task) or the SPF (based on MCS 031 and calculated in the the performance task). For IE users, Heatpunk will use the SCoP.



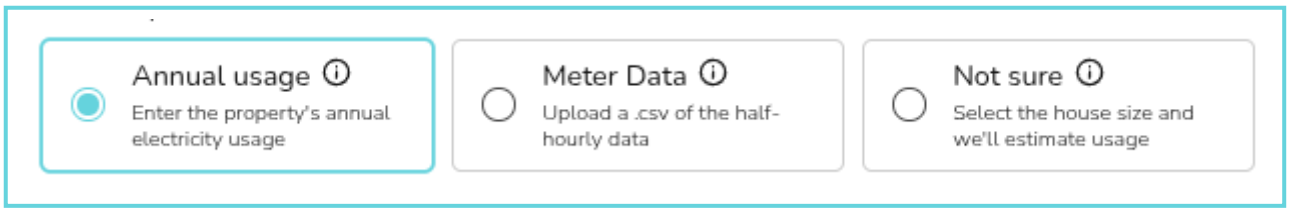
In this section you can also edit your design option:



Electricity consumption

Annual electricity consumption

You can select from the following options to set the annual consumption:



Expand the sections below for more details on these options.

Annual usage

If you know the annual consumption in kWh (for example from an electricity bill) you can enter it here in the annual usage field.

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When you use this option you can choose from a variety of domestic and commercial consumption profiles, the consumption profile determines how the energy is used within a week and throughout the year.

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The following commercial profiles are available

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Meter data

If the property has a smart meter you can upload **half-hourly** data to get a more accurate projections. The data should ideally span at least a year (but if it contains a **minimum of 6 months** our algorithm will automatically attempt to fill in gaps where they are detected).

The file must have a **.csv file extension**. If your data is in another format you can export it as csv from Excel, Google Sheets, Libreoffice or any other spreadsheet editor.

> Note that there are many different CSV formats for smart meter data, and we don't support all of them yet. If your upload doesn't work, please send us the spreadsheet at help@easy-pv.co.uk or help@easy-pv.ie and we will see if we can add the format. You can also download our sample spreadsheet here and change your data into this format.

Not sure

If you don't know the electricity consumption in the property and it's domestic, you can use a typical values for the size of property provided here.

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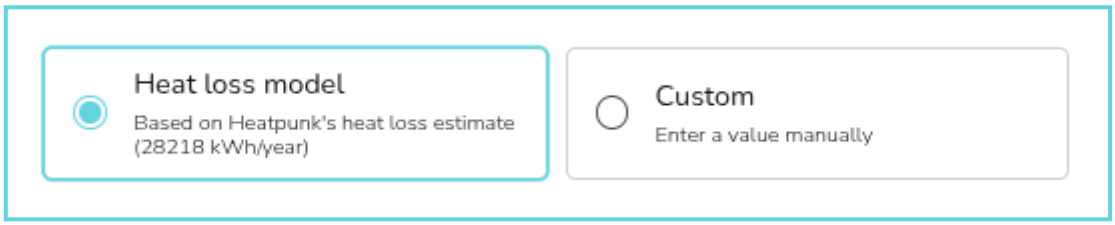
These options will assume a domestic consumption profile.

Tariffs

Here you should select the tariffs used. You can select from the drop down or you can create and select a new tariff by selecting **+ New import/export tariff**. Read more about creating tariffs here.

Space heating

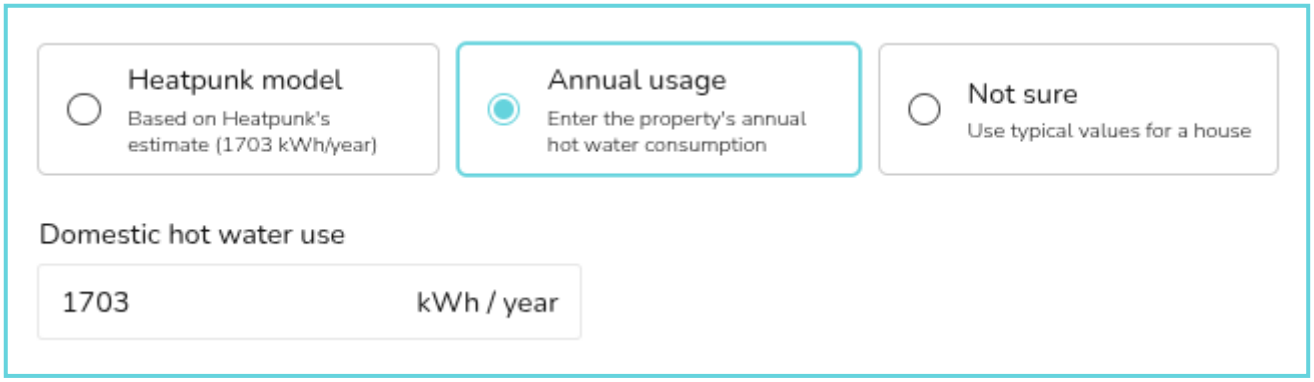
Choose the annual space heating demand using Heatpunk's heat loss model or by entering a custom value.



This, along with the relative efficiencies of the systems, will be used to estimate the annual electricity or gas consumption required for this level of heating.

Hot water use

Choose between the **Heatpunk model**, inputting a **custom value** or selecting from **typical values** based on house size.



Boiler

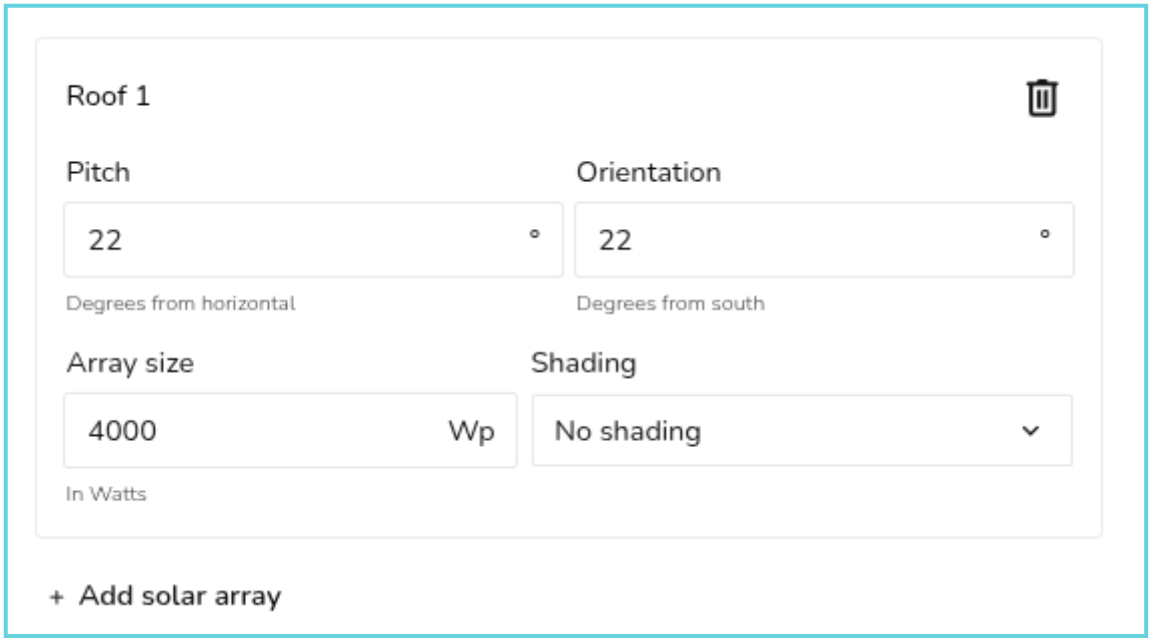
In this section you are specifying important details about the existing system to help estimate the current running costs and potential savings. What displays here depends on what option you are comparing with.

1. **Gas tariff / Oil price**: this will be used to estimate the customers current boiler running costs to be compared with the heat pump running costs.
2. **Boiler efficiency**: this will be used to estimate how much gas/oil is needed to meet the space heating and hot water demand.
3. **Standing charge (optional, if comparing with gas boiler)**: this will be added as an additional saving if the customer will be able to disconnect from gas.

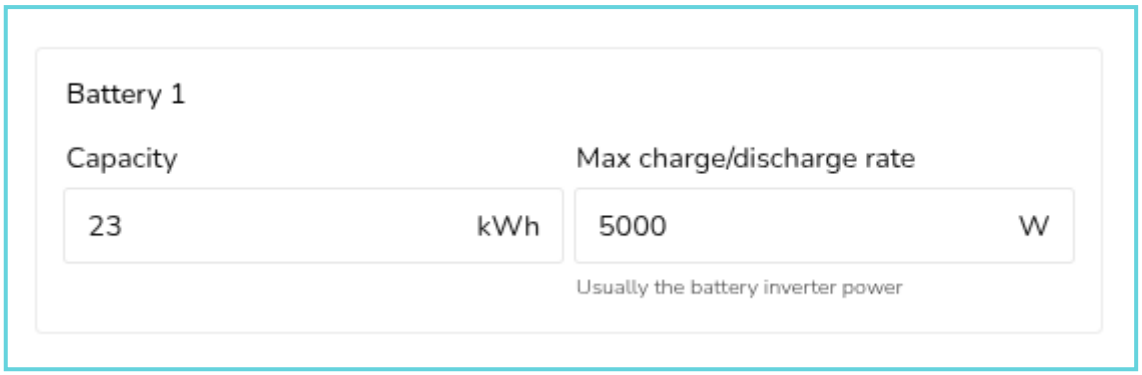
Solar

Here you can model a solar array and battery. Select these options under the **Energy Comparisons** tab if you would like to include them in the model.

For each roof, input the **pitch**, **orientation**, **array size** and **level of shading**. Add new solar arrays as necessary.



If a battery is being included, add the **capacity** and **charge rate**.



> This will then be used to estimate the performance using the method stipulated in MCS 032. If you're using Easy PV - see where you can find these values here.

Revision #21
Created 28 November 2025 14:22:39 by Daisy
Updated 23 April 2026 15:39:01 by Daisy