

Consumption task

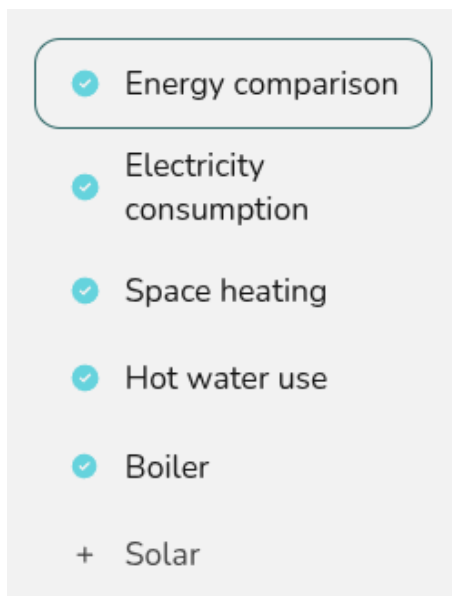
The Consumption task gives you a complete picture of how a customer's energy use and running costs will change when switching to a heat pump – including optional modelling for solar PV and batteries. This will help you build trust, handle cost-related questions with confidence, and present proposals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

 ground or type unknown	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.

Generation

Consumption by Supply

Consumption by Demand

Import and Export

Battery Utilisation

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.

What would you like to compare the cost and energy use of the heat pump against?

☒ Gas boiler
Combi or standard gas boiler

☐ Oil boiler
Combi or standard oil boiler or Aga

Would you like to show additional savings when you have:

A solar PV array☒

A solar PV array with a battery☐

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

heatpунк.co.ukUK 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).

heatpунк.ieFor IE users, Heatpунк will use the SCoP.

Which heat pump performance factor would you like to use?

☒ SCoP

☐ SPF

In this section you can also edit your design option:

Design option in report

Option 2 ^

Option 1

Option 2

Electricity consumption

Annual electricity consumption

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



Annual usage ⓘ

Enter the property's annual electricity usage



Meter Data ⓘ

Upload a .csv of the half-hourly data



Not sure ⓘ

Select the house size and we'll estimate usage

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.

 or type unknown

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.

 or type unknown

The following commercial profiles are available

 or type unknown

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.

image.png or type unknown

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.

☒ **Heat loss model**
Based on Heatpunk's heat loss estimate
(28218 kWh/year)

☐ **Custom**
Enter a value manually

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.

☐ **Heatpunk model**
Based on Heatpunk's estimate (1703 kWh/year)

☒ **Annual usage**
Enter the property's annual hot water consumption

☐ **Not sure**
Use typical values for a house

Domestic hot water use

1703

kWh / year

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.

Roof 1

Pitch

22°
Degrees from horizontal

Orientation

22°
Degrees from south

Array size

4000 Wp
In Watts

Shading

No shading

+ Add solar array

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

Battery 1

Capacity

23 kWh

Max charge/discharge rate

5000 W
Usually the battery inverter power

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](#).

Still Need Help? / Want to know more?

- **Related FAQs:** Check out our [Performance and Consumption task FAQs](#) for answers to common questions
- **Further guides:** Take a look at our [Performance and Consumption task help guides](#)
- **Live training:** [Book onto a live demo session](#) to see this feature in action

Contact Support: If you've got further questions, get in touch with our support team at **help@heatpunk.co.uk** (UK) or **help@heatpunk.ie** (IE). *If you are experiencing a bug, to help us look into your issue faster, please include the email address of your account, the name of the project and screenshots of any unexpected behaviour.*

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