



English version of the adapted Impawatt platform

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Purpose of the document

The purpose of this document is to describe the English version of the adapted IMPAWATT web portal including connected features. The adaptation considers different functionalities of the portal, like:

- Improved monitoring section with data input and output in two divided sections for a better user experience
- Monthly data monitoring
- CO₂ emissions in the monitoring section
- Introducing new units for industrial production like e.g. tons or volume of product
- Adaptation of the Self-Assessment tool to the targeted sectors

1. Relation to other work packages

Input of WP3, D3.4 Compilation of Sector-Specific Best Practices, is required for the adaption of the Self-Assessment tool. The best energy efficiency practices of the target sectors have to be included and evaluated, also taking into account D3.5 Short report on the Validation of Best Practice Applicability. Both reports are due in month 18 and were not yet available at the time of the finalization of this report. Thus, the update of the Self-Assessment tool will be implemented at a later stage as soon as the deliverables are finalized.

2. Adaptation of the Monitoring Section

To provide a better overview, the monitoring section was divided into a data input and a data output section. Furthermore, the platform is now enabling monthly data entry and display in the charts:

Company energy data

Use Impavatt as energy management system including an overview of already implemented and planned energy saving measures. By entering and updating these data you can evaluate the successes of your steps towards increased energy efficiency in your company.



Figure 1: Data input and display in two separate divisions

Energy data for carrier

page.monitoring_data.company_consumption.teaser

Electricity Add consumption

Date	Consumption	
2024 - December	300 kWh	Edit Delete
2024 - November	300 kWh	Edit Delete
2024 - October	300 kWh	Edit Delete
2024 - September	300 kWh	Edit Delete
2024 - August	150 kWh	Edit Delete
2024 - July	200 kWh	Edit Delete
2024 - June	290 kWh	Edit Delete
2024 - May	300 kWh	Edit Delete
2024 - April	320 kWh	Edit Delete
2024 - March	280 kWh	Edit Delete

Figure 2: Monthly data input

As a new feature, CO₂ emission as additional parameter were included in the monitoring section. Besides the energy consumption and costs, the CO₂ emissions can now be selected and displayed. For the calculation of the CO₂ emissions the energy consumption as well as the CO₂ coefficient according to the energy carrier is considered. It is inquired together with the energy consumption and cost data.

Year *

Time frame *

Consumption * kWh

Costs * EUR

Proportion for heating in percent * % per year

CO₂-Factor * T/MWh

Figure 3: Integration of CO₂ emissions in the monitoring section

Company energy data

Use Impawatt as energy management system including an overview of already implemented and planned energy saving measures. By entering and updating these data you can evaluate the successes of your steps towards increased energy efficiency in your company.

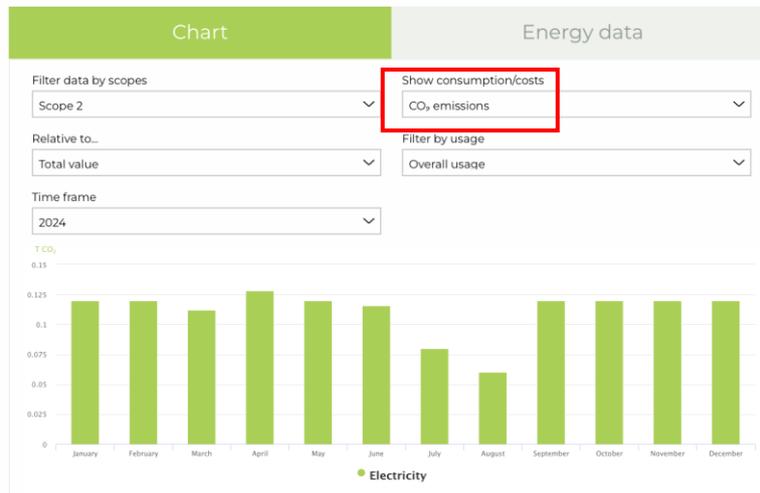
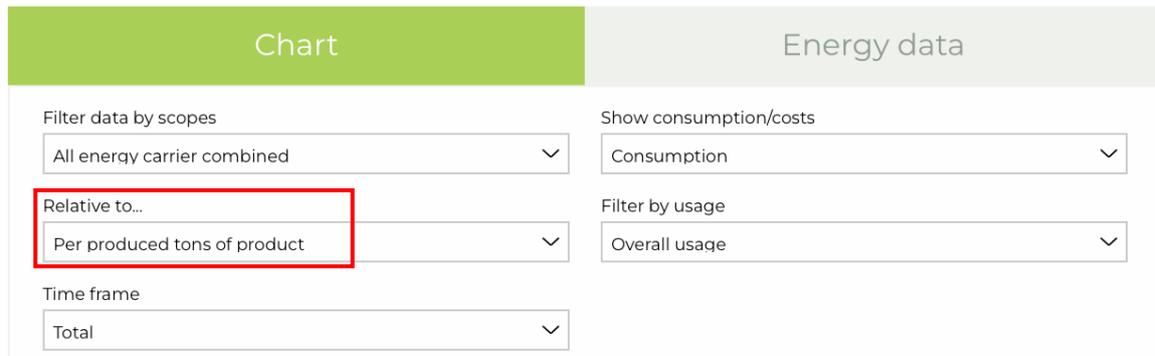


Figure 4: Display of the CO₂ emissions in the monitoring section

New units taking into account the production parameters of the targeted sectors have been introduced to the platform, like tons of product, volume of product and items of product. These units are correlated to the energy consumption, cost and CO₂ emission to display the specific values as KPIs.

Company energy data

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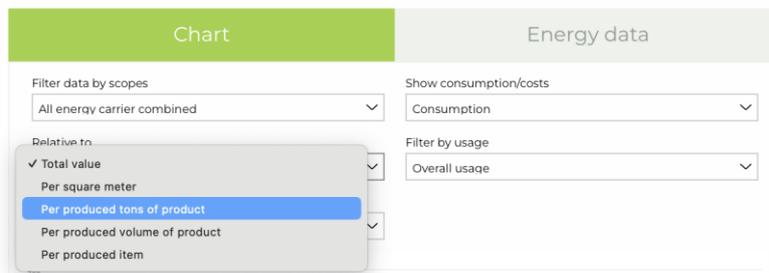


The interface is divided into two main sections: 'Chart' (green header) and 'Energy data' (grey header). Under 'Chart', there are three dropdown menus: 'Filter data by scopes' (set to 'All energy carrier combined'), 'Relative to..' (highlighted with a red box and set to 'Per produced tons of product'), and 'Time frame' (set to 'Total'). Under 'Energy data', there are two dropdown menus: 'Show consumption/costs' (set to 'Consumption') and 'Filter by usage' (set to 'Overall usage').

Figure 5: New units and KPIs

Company energy data

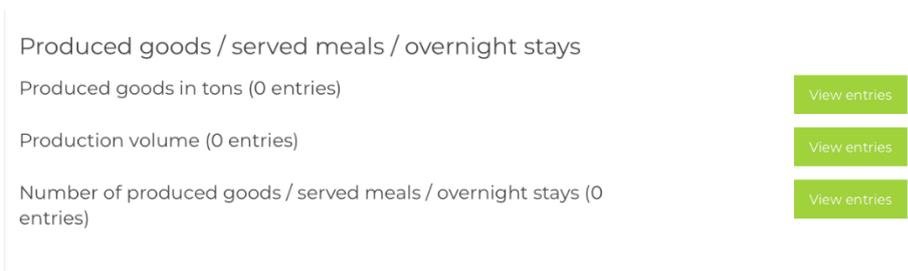
Use Impawatt as energy management system including an overview of already implemented and planned energy saving measures. By entering and updating these data you can evaluate the successes of your steps towards increased energy efficiency in your company.



This screenshot shows the 'Relative to..' dropdown menu expanded. The options listed are: 'Total value' (checked), 'Per square meter', 'Per produced tons of product' (highlighted in blue), 'Per produced volume of product', and 'Per produced item'. The rest of the interface is the same as in Figure 5.

Figure 6: Dropdown menu with new units and KPIs

The data entry form for these units is also available in the Energy Data section. The units are correlated to a specific time period, so they can be displayed as KPIs:



The 'Data Entry form Units' section lists the following units and their entry counts:

- Produced goods / served meals / overnight stays
- Produced goods in tons (0 entries)
- Production volume (0 entries)
- Number of produced goods / served meals / overnight stays (0 entries)

Each unit has a corresponding green 'View entries' button to its right.

Figure 7: Data Entry form Units

Add a new production value

Year *

Time frame *

Production value *

Figure 8: Data Entry form units and time period

3. Self-Assessment tool

As mentioned above the information needed for the adaptation of the Self-Assessment tool is not yet available. It will be included in the tool as soon as possible and will be implemented in the national platform versions.

4. Next steps

The English platform will be adapted to the national Impawatt platform versions that are due in month 15. The translation will be done by partners in close collaboration with Senercon. For those partners not yet familiar with the translation procedure and with the platform use, Senercon will offer bilateral training meetings. All training materials produced within the project will be uploaded to the English and national platform versions. Senercon will also support partners to uploading the content to their national Impawatt platforms providing bilateral meetings if required.



The present report has been prepared by Claudia Julius, Senercon.

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