



Enhancing energy efficiency and sustainability of
SMEs operating in NACE code sectors C20 to C22
and C25 to C29



Co-funded by the
European Union





Impawatt Training Module



Co-funded by the
European Union





Impawatt platform



Impawatt platform

1. Short presentation on main functionalities
2. Step by step guidance on the use of the platform



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Impawatt – Introduction



- IMPAWATT is an e-learning and energy monitoring platform offering more than 200 different training materials and tools tailored to the needs of companies in 12 countries, enabling energy and cost monitoring.
- Objective: To improve the level of knowledge and implementation of energy efficiency measures in SMEs, especially after energy audits.



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Energy Efficiency

- Energy management
- Processes (pumps, motors, fans, compressed air, process heat)
- Buildings (heating and cooling, building envelope, ventilation, BMS)
- Lighting systems
- Mobility
- Renewable energies



Energy Culture

- Motivation to implement energy management processes
- Motivating employees to change their behavior
- Training employees and reviewing their level of knowledge



Sustainable Supply Chain

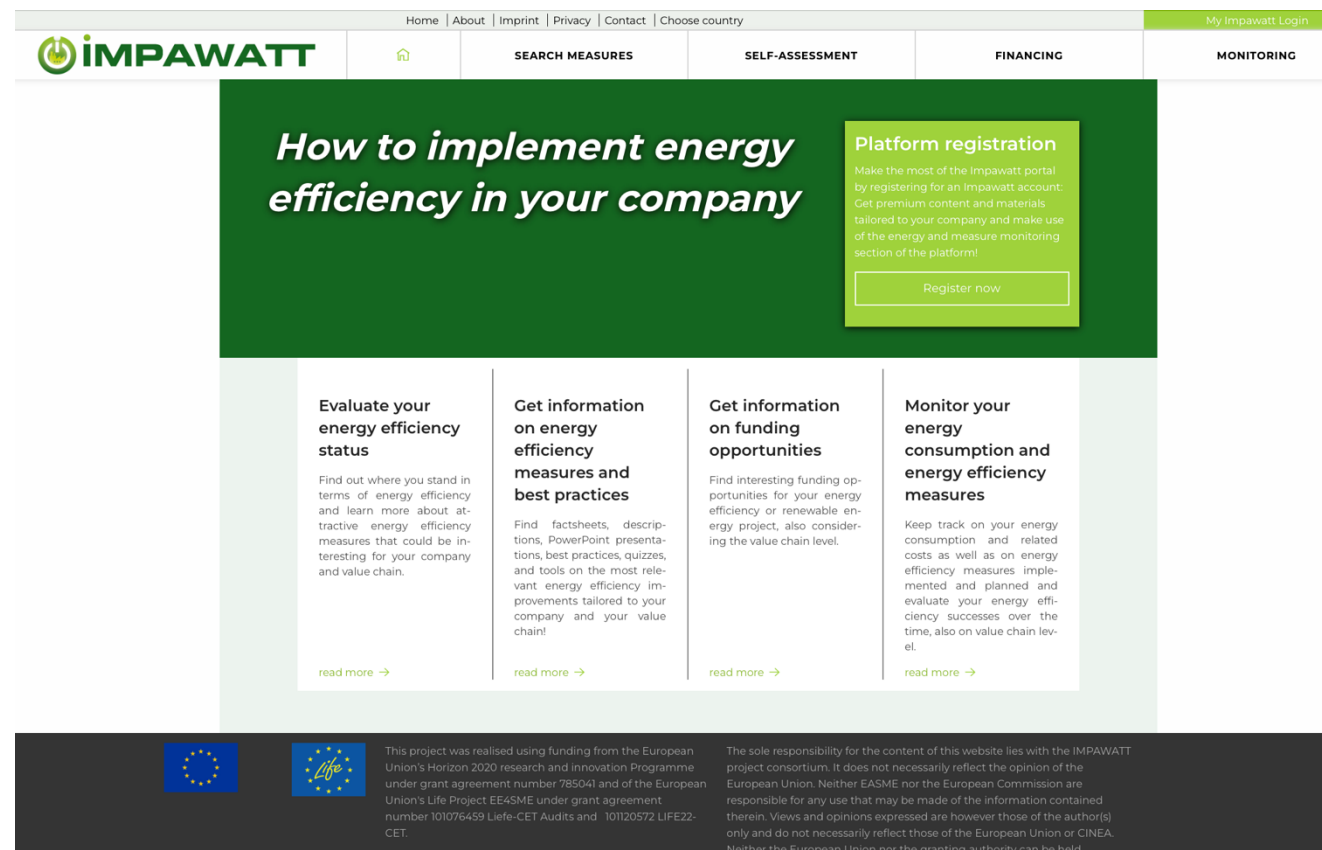
- Analysis of the life cycle
- Guidelines for life cycle costs
- Use of sustainability indicators
- Environmental labeling
- Sustainable business models





Four main platform features:

1. Self-assessment tool
2. Library with descriptions of EE measures, presentations, best practices and tools
3. Financing tool
4. Monitoring section (energy consumption, costs and EE measures)



The screenshot shows the Impawatt website homepage. At the top, there is a navigation bar with links for Home, About, Imprint, Privacy, Contact, and Choose country. The main header features the IMPAWATT logo and a navigation menu with categories: SEARCH MEASURES, SELF-ASSESSMENT, FINANCING, and MONITORING. A 'My Impawatt Login' button is also present. The main content area is divided into several sections. A large green banner at the top left contains the text 'How to implement energy efficiency in your company'. To its right is a 'Platform registration' box with a 'Register now' button. Below these are four columns of content, each with a title and a 'read more' link: 'Evaluate your energy efficiency status', 'Get information on energy efficiency measures and best practices', 'Get information on funding opportunities', and 'Monitor your energy consumption and energy efficiency measures'. At the bottom, there is a footer with logos for the European Union and the Life project, along with a disclaimer: 'This project was realised using funding from the European Union's Horizon 2020 research and innovation Programme under grant agreement number 785041 and of the European Union's Life Project EE4SME under grant agreement number 101076459 LiefE-CET Audits and 101120572 LIFE22-CET. The sole responsibility for the content of this website lies with the IMPAWATT project consortium. It does not necessarily reflect the opinion of the European Union. Neither EASME nor the European Commission are responsible for any use that may be made of the information contained therein. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held



1. Self-Assessment tool

Evaluate your energy efficiency status

Find out where you stand in terms of energy efficiency and learn more about attractive energy efficiency measures that could be interesting for your company and value chain.

SELF-ASSESSMENT TOOL

HAVE ANY OF THE FOLLOWING MEASURES BEEN IMPLEMENTED?

BUILDING			
Walls and rooftop insulation [?]	<input checked="" type="radio"/> implemented	<input type="radio"/> not yet	<input type="radio"/> not relevant
Energy Efficient windows (glazing and frame) [?]	<input type="radio"/> implemented	<input checked="" type="radio"/> not yet	<input type="radio"/> not relevant
Sun shading devices [?]	<input type="radio"/> implemented	<input checked="" type="radio"/> not yet	<input type="radio"/> not relevant
BMS (Building Management Systems) GRMS (Guest Room Management Systems) [?]	<input checked="" type="radio"/> implemented	<input type="radio"/> not yet	<input type="radio"/> not relevant
Photovoltaic plant with storage [?]	<input type="radio"/> implemented	<input checked="" type="radio"/> not yet	<input type="radio"/> not relevant
Electric car charging stations [?]	<input type="radio"/> implemented	<input checked="" type="radio"/> not yet	<input type="radio"/> not relevant
ELECTRIC SYSTEMS			
LED Lighting [?]	<input checked="" type="radio"/> implemented	<input type="radio"/> not yet	<input type="radio"/> not relevant
Daylight and presence sensors [?]	<input checked="" type="radio"/> implemented	<input type="radio"/> not yet	<input type="radio"/> not relevant
Electricity meters to monitor energy use of equipments [?]	<input checked="" type="radio"/> implemented	<input type="radio"/> not yet	<input type="radio"/> not relevant
Inverters (variable speed drives) on pumps [?]	<input type="radio"/> implemented	<input type="radio"/> not yet	<input checked="" type="radio"/> not relevant
THERMAL SYSTEMS			
Departmental metering of thermal energy consumptions [?]	<input type="radio"/> implemented	<input checked="" type="radio"/> not yet	<input type="radio"/> not relevant
Heat recovery ventilation [?]	<input checked="" type="radio"/> implemented	<input type="radio"/> not yet	<input type="radio"/> not relevant
Solar Domestic Hot Water [?]	<input type="radio"/> implemented	<input checked="" type="radio"/> not yet	<input type="radio"/> not relevant
Geothermal heating/cooling [?]	<input type="radio"/> implemented	<input type="radio"/> not yet	<input checked="" type="radio"/> not relevant

Congratulations!

Your score is:

61

You have already implemented significant energy efficiency measures!

Here are some suggestions of measures that could be interesting for your company as well:

- Energy Efficient windows (glazing and frame)
- Sun shading devices
- Photovoltaic plant with storage
- Electric car charging stations
- Departmental metering of thermal energy consumptions
- Solar Domestic Hot Water
- Heat pumps and chillers
- Steam-heat-recovery kitchen equipment
- Energy efficiency annual targets
- Reduction of minibar in rooms
- Public transport or bicycle over car
- Green procurement
- Zero emissions delivery vehicles
- No single-use items

Please visit the [Search Measure Section](#) for further information on the afore-mentioned improvement measures. Just type the respective measure in the quick search field.

Please visit the [Financial Section](#) for information on interesting funding opportunities!

2. Library of Measures

Get information on energy efficiency measures and best practices

Find factsheets, descriptions, PowerPoint presentations, best practices, quizzes, and tools on the most relevant energy efficiency improvements tailored to your company and your value chain!

Search measures

Now you are at the heart of the platform! The intelligent search engine for energy saving measures will help you find the best measures tailored to your company. But to be intelligent and advise you the best way, our platform has to learn more about your company and its activities.

What are you looking for?

We found 137 measures for you.

sort by Sector Branch

< 1 2 3 4 5 6 7 14 >

Energy efficiency Measure description

Heat recovery (cooling systems)

Cooling systems produce waste heat that, normally, is rejected to the environment. However, if there is a heat demand elsewhere during operation, the waste heat can be put to cover a part or fully this demand. This measure description factsheet gives recommendation and usecases for those solutions.

★★★★☆

Energy efficiency Measure description

Financial support for energy management

This sheet describes a non-exhaustive list of measures that can help companies that are interested in implementing energy management measures.

★★★★☆

Energy efficiency Power point

Advantages of registration

Using the Impawatt search engine for adequate measures is most efficient if we can tailor your search for measures to your company. Thus, the more we learn about your company, e.g. the field of activity you are working, the products you produce and the size and location of your company, the better the intelligence behind the search engine can select materials for you.

FILTER BY

ENERGY CARRIER

- Electricity
- Fuel for heating
- Heating Gas
- Wood
- District heating
- Butane
- Propane
- Fuel for mobility
- Other

MAIN TECHNOLOGIES

- Energy management
- Lighting
- Office
- Hydraulic and insulation of pipes
- Compressed air
- Cooling
- Heating of buildings and envelope
- Pumps

Search engine applying filtering criteria:

- Energy source
- Technology
- Position / Role
- Sector
- Topic
- Type of information



Impawatt – Introduction



3. Financial Tool

Financing

Find attractive funding opportunities for your energy efficiency or renewable energy project. Just click the green button to start checking your options!

FINANCIAL TOOL

Please find below the funding options:

Title: Smart & Sustainable
Entity: Malta Enterprise
State aid: De Minimis
Application deadline: 18.12.2026
Co financing Rate - Range: 50%-60%
Contact Point Email: info@businessfirst.com.mt
Contact Point Number: +00356 2542 0000
Link: <https://maltaenterprise.com/node/1848>

Title: Energy Audits for SMEs
Entity: The Energy & Water Agency
State aid: De Minimis
Application deadline:
Co financing Rate - Range:
Contact Point Email: energyefficiency@gov.mt
Contact Point Number: +00356 2229 2558
Link: <https://energywateragency.gov.mt/energyaudits/>

← Previous

Get information on funding opportunities

Find interesting funding opportunities for your energy efficiency or renewable energy project, also considering the value chain level.

Differentiated according to:

- Country / Region
- Sector
- Topic
- Type of financing



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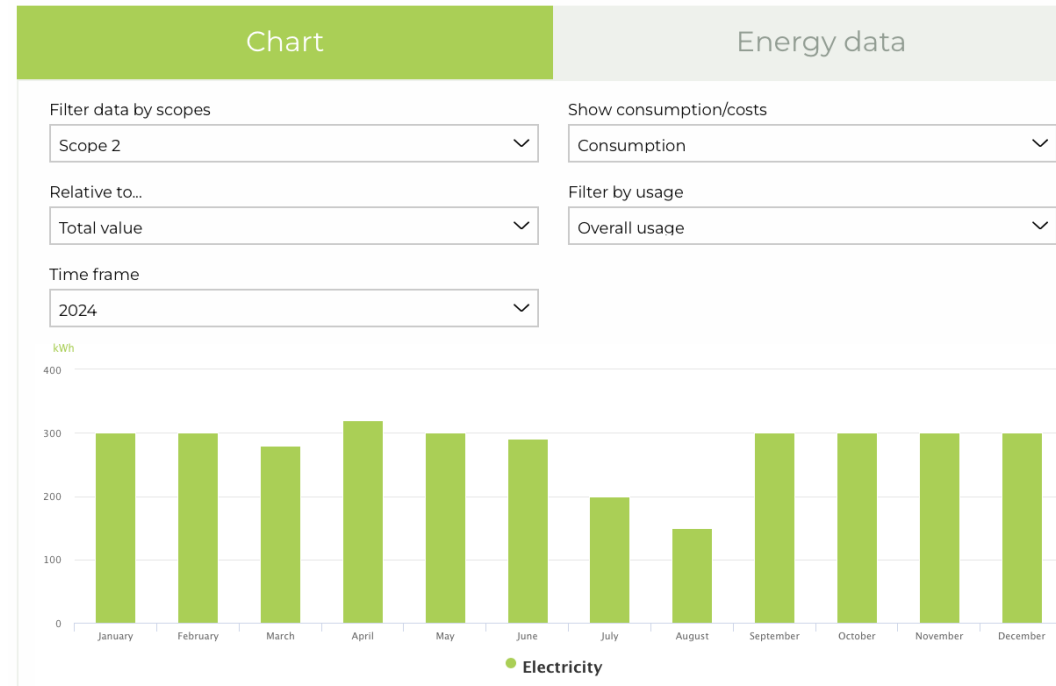
4. Monitoring

Monitor your energy consumption and energy efficiency measures

Keep track on your energy consumption and related costs as well as on energy efficiency measures implemented and planned and evaluate your energy efficiency successes over the time, also on value chain level.

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.

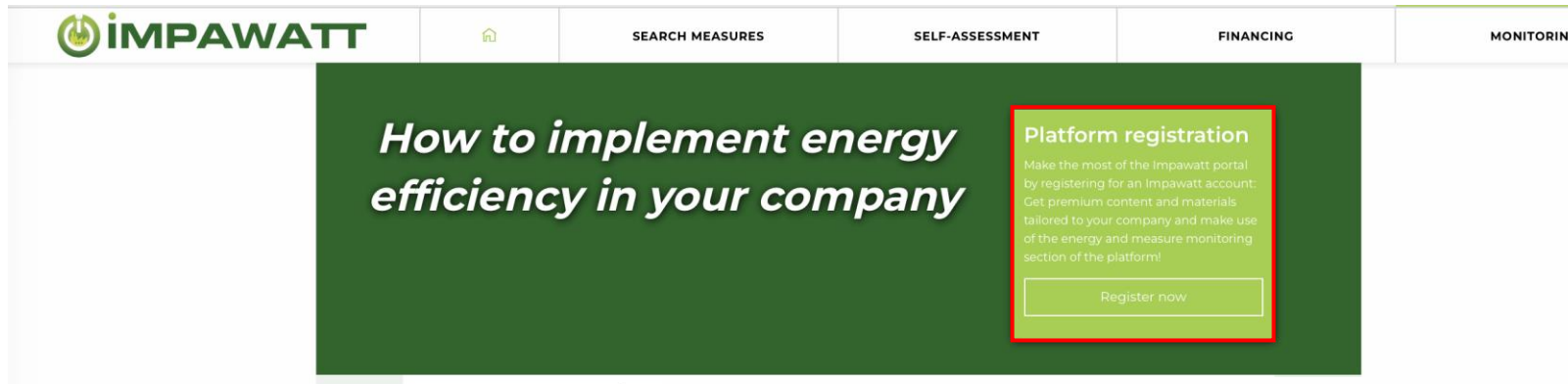


- Energy consumption, cost and CO2 emissions
- Total and specific values (per m2, product, tons of product)
- Scope 1, 2 and 3 level
- Energy efficiency improvements including time stamps
- Dynamic display of performance indicators over time periods

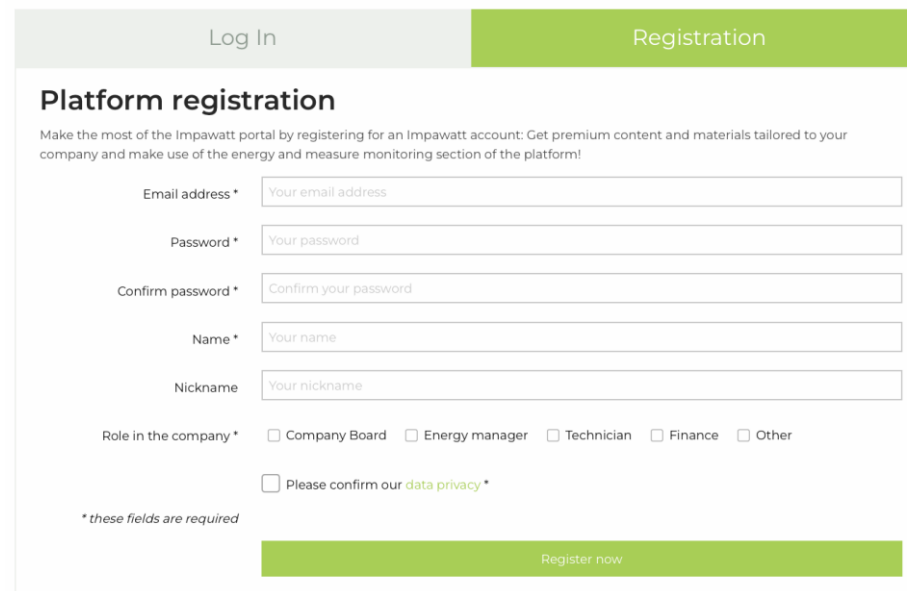




1. Registration of a Company Account



- Confirmation email will be sent: You have to click on the link to finalize the registration
- Look at spam folder
- Contact us, if you didn't receive it



The registration form is titled 'Platform registration' and includes the following fields and options:

- Email address *
- Password *
- Confirm password *
- Name *
- Nickname
- Role in the company *
 - Company Board
 - Energy manager
 - Technician
 - Finance
 - Other
- Please confirm our [data privacy](#) *

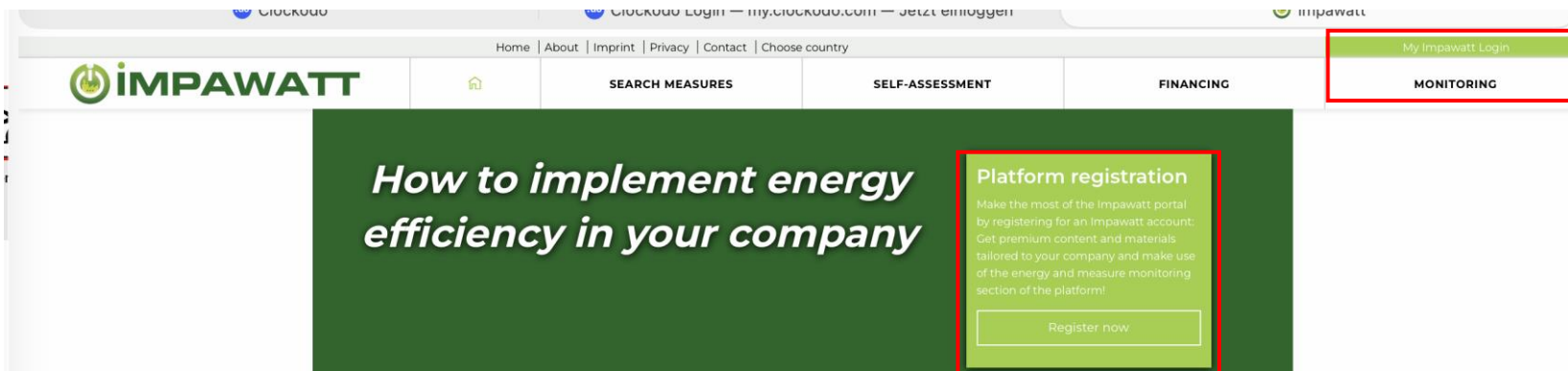
* these fields are required

Register now

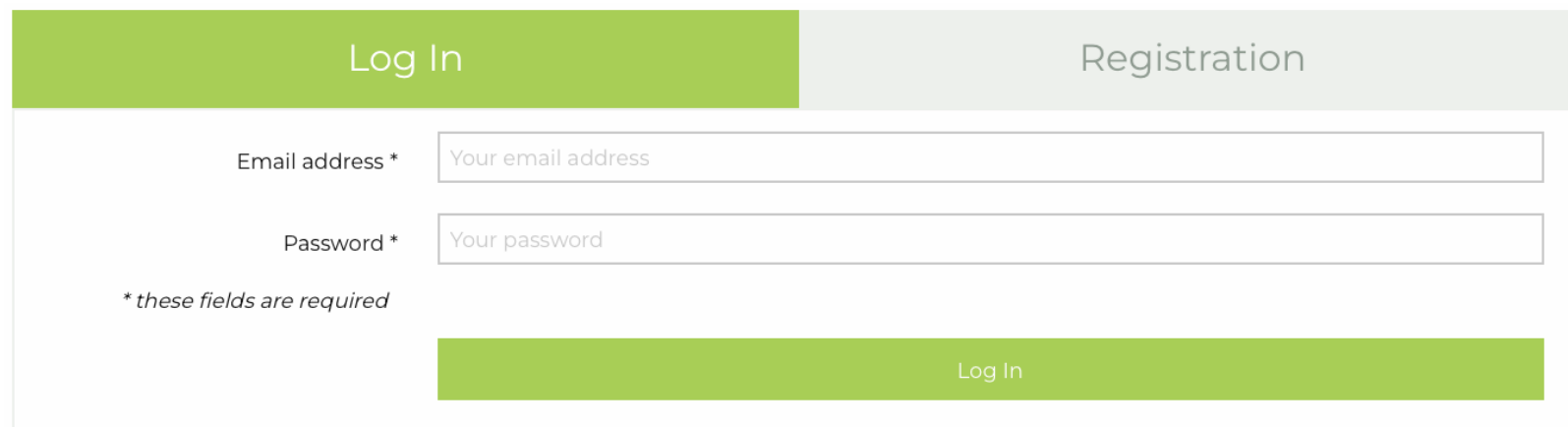




2. Login



- Click on green field *My Impawatt Login*
- Or on *Platform registration*
- Login with email address and Password



Log In Registration





Email address *

Password *

* these fields are required



3. Create your Profile

 Company profile Please include your company profile data in this section to get the most of the platform and its individual advising on energy saving measures tailored to your company. EDIT PROFILE DATA	 Your measures Please include all energy efficiency measures you have already implemented including date of implementation. Please also add measures planned. Please be as detailed as possible, so this section may serve you as an inventory of measures and helps assess their success. EDIT MEASURES
 Energy data & monitoring Please enter energy consumption data including dates in this section which will be combined with the measure section to evaluate the successes of energy saving measures. You will get an overview on energy consumed in your company. ENERGY DATA	 Find suitable measures If you have filled in your company profile you will get a pre-selection of energy saving measures and subjects tailored to your company. Please tick or un-tick the search boxes if you would like to have a more restricted or a more general selection on measures. SEARCH

- *Dashboard with different fields of activities*
- **Checkbox with steps required to fill in all data**

My Impawatt

To get the most of Impawatt we invite you to enter your company's profile data and to update the measures and energy data section frequently. Please click on the actions points below to enter new information or access the energy and measure monitoring section.

NEXT STEPS

- Complete / Edit your company profile
- Enter your planned / already implemented measures
- Enter your consumption data and costs
- Check your monitoring

3. Create your Profile

Company Basic Setup

Company Additional Setup

Company name *

Registration number (VAT, ...)

Country *

City *

Location / Site (Address)

Contact phone number

NACE Category *

NACE (Sector) *

Company / Site size * employees

Building / Site purpose *

<input type="checkbox"/> Catering	<input checked="" type="checkbox"/> Hotel
<input type="checkbox"/> Office	<input type="checkbox"/> Production site
<input type="checkbox"/> Restaurant	<input type="checkbox"/> Storage
<input type="checkbox"/> Store	

Main energy consuming equipment *

<input checked="" type="checkbox"/> Energy management	<input checked="" type="checkbox"/> Lighting
<input checked="" type="checkbox"/> Office	<input type="checkbox"/> Hydraulic and insulation of pipes
<input type="checkbox"/> Compressed air	<input checked="" type="checkbox"/> Cooling
<input checked="" type="checkbox"/> Heating of buildings and envelope	<input type="checkbox"/> Pumps
<input type="checkbox"/> Fans	<input type="checkbox"/> Steam
<input type="checkbox"/> Industrial furnaces	<input checked="" type="checkbox"/> Renewables
<input type="checkbox"/> Heat pumps and heat recovery	<input checked="" type="checkbox"/> Mobility

Sector / Branch (5-10 groups) *

Description of activity

** these fields are required*

Company Basic Setup

Company Additional Setup

Yearly overall energy consumption * kWh

Yearly overall energy cost * EUR

Energy carrier #1

Carrier *

Average proportion for heating % per year

Energy carrier #2

Carrier *

Average proportion for heating % per year

Hint: If you have more energy carriers in your company, please press the 'add carrier' button below.


Gross floor area * m²

Heated gross floor area m²

Number of produced goods / served meals / overnight stays

** these fields are required*


4. Access the Library of Measures



Your measures

Please include all energy efficiency measures you have already implemented including date of implementation. Please also add measures planned. Please be as detailed as possible, so this section may serve you as an inventory of measures and helps assess their success.

[EDIT MEASURES](#)



Find suitable measures

If you have filled in your company profile you will get a pre-selection of energy saving measures and subjects tailored to your company. Please tick or un-tick the search boxes if you would like to have a more restricted or a more general selection on measures.

[SEARCH](#)

Search measures

Now you are at the heart of the platform! The intelligent search engine for energy saving measures will help you find the best measures tailored to your company. But to be intelligent and advise you the best way, our platform has to learn more about your company and its activities.

What are you looking for? [START SEARCH](#)

We found 73 measures for you.

sort by:

1 2 3 4 5 8 >

Energy efficiency

Power point ⓘ

Securing your photovoltaic project

Description on the different steps to take to plan and install PV panels

★ ★ ★ ★ 0 all ratings ▼ [show content](#)

Energy efficiency

Power point ⓘ

Benefits of energy efficiency - How to convince management/employees - WHY ENERGY SAVING IS IMPORTANT

This presentation can be used by top management, technical experts, and energy managers to convince their counterparts to implement energy efficiency measures and support capacity training of the staff. It contains information on:

- Benefits of energy efficiency
- Impacts of climate change
- Import dependence
- Energy costs
- Price volatility
- EU and national targets
- Energy efficiency as most important "fuel"
- Subsidies
- Energy-saving potential
- Main drivers and multiple benefits
- Barriers

FILTER BY

ENERGY CARRIER

- Electricity
- Fuel for heating and cooling
- Heating Gas
- Wood
- District heating
- Butane
- Propane
- Fuel for mobility
- Other

MAIN TECHNOLOGIES

- Energy management
- Lighting
- Office
- Hydraulic and insulation of pipes
- Compressed air
- Cooling
- Heating of buildings and envelope
- Pumps
- Fans
- Steam
- Industrial furnaces
- Renewables
- Heat pumps and heat recovery
- Mobility

ROLE

- Company Board
- Energy manager
- Technician
- Finance
- Other

SECTOR BRANCH



Searching for Content

- Pre-selection of content is shown according to your profile data
- Click or un-click filters to modify pre-selection
- Find content that fits to your profile, e.g.
 - Compressed air
 - Pumps
 - Fans
 -

Energy efficiency Measure description ⓘ

Heat recovery (compressed air)

This factsheet shows how the emitted heat from the compressors can be recovered for further use.

★ ★ ★ ★ ★ 0 all ratings ▾ show content

Energy efficiency Measure description ⓘ

Reduction of compressed air leakages

Reduction of leakage in compressed air network allows generally high energy savings with limited investments. This factsheet gives you more information on this interesting energy efficiency measure.

★ ★ ★ ★ ★ 0 all ratings ▾ show content

Energy efficiency Measure description ⓘ

Optimisation of compressed air users / appliances

The optimisation of compressed air users and appliances allows interesting energy savings.

★ ★ ★ ★ ★ 0 all ratings ▾ show content

Energy efficiency Measure description ⓘ

Optimisation of the pressure in the system (compressed air)

In many systems the operating pressure is much higher than actually needed. Studies have shown that the pressure level can be reduced by up to 1 bar without influencing productivity. Reducing the pressure allows high energy savings with almost no investment costs. This factsheet explains how to implement this measure.

★ ★ ★ ★ ★ 0 all ratings ▾ show content

Searching for Content

- Different Content Types can be selected
- Quiz is particular: you can test the quiz first (click on test) and get the results
- Or download it to (click on take part), so it is connected to your account
- You can invite colleagues to do quizzes
- You will see an anonymous overview on the results achieved by invited colleagues for each question of the quiz

CONTENT TYPE

- Measure description
- Quiz
- Factsheet
- Tool
- Power point

List of my quizzes

[Add a quiz](#)

Quiz name
Quiz mobility
Quiz cooling
Quiz office
Quiz lighting
Quiz renewables
Quiz heating building envelope
Quiz on Sustainability indicators
Quiz fans
Quiz insulation pipes and heat distribution
Quiz energy management
Quiz compressed air
Quiz compressed air

100% completed!

Quiz energy management

You scored 7 out of 11 points!

1) What savings can be made by monitoring and analysing consumption?

- a) 1 to 2%
- b) 3 to 5%
- c) 5 to 15%

2) What information should be included in an Energy Saving Action Plan?

- a) An estimate of the savings generated by each action
- b) An estimate of the cost of each action
- c) The details of the tasks to be carried out for each action

3) What can an independent expert bring to the company's Energy Performance?


- a) A feasibility study
- b) An energy audit
- c) Nothing

4) What is the weight of electricity supply in the electricity bill?

- a) About 50%
- b) About 70%
- c) 100%




5. Enter Energy Efficiency Measures



Company profile

Please include your company profile data in this section to get the most of the platform and its individual advising on energy saving measures tailored to your company.


EDIT PROFILE DATA



Your measures

Please include all energy efficiency measures you have already implemented including date of implementation. Please also add measures planned. Please be as detailed as possible, so this section may serve you as an inventory of measures and helps assess their success.


EDIT MEASURES



Energy data & monitoring

Please enter energy consumption data including dates in this section which will be combined with the measure section to evaluate the successes of energy saving measures. You will get an overview on energy consumed in your company.

ENERGY DATA





Find suitable measures

If you have filled in your company profile you will get a pre-selection of energy saving measures and subjects tailored to your company. Please tick or un-tick the search boxes if you would like to have a more restricted or a more general selection on measures.

SEARCH

Company measures Click on tiny green + sign

Please update this section collecting planned and implemented energy measures frequently to get an overview and evaluate successes.

Implementation date	Measure category	Measure title	
2024-11-20	Office	Running time, energy manager configuration, automatic shutdown programming ... (offices)	<div style="border: 1px solid red; padding: 2px;">+</div>  

[← back to the dashboard](#)

Company measures Fill in data marked with *

Please update this section collecting planned and implemented energy measures frequently to get an overview and evaluate successes.

Implementation status * already implemented planned

Implementation date *

Measure category *

Measure title *

Measure description *

Energy savings (calculated) kWh/a

Energy savings (implementation) kWh/a

Investment cost (calculated) EUR

Investment cost (implementation) EUR

Payback period years

Energy share of investment cost %


Implementation comment

Energy savings calculation



6. Enter Energy Data


Click on view consumption



Company profile

Please include your company profile data in this section to get the most of the platform and its individual advising on energy saving measures tailored to your company.


[EDIT PROFILE DATA](#)



Your measures

Please include all energy efficiency measures you have already implemented including date of implementation. Please also add measures planned. Please be as detailed as possible, so this section may serve you as an inventory of measures and helps assess their success.


[EDIT MEASURES](#)



Energy data & monitoring

Please enter energy consumption data including dates in this section which will be combined with the measure section to evaluate the successes of energy saving measures. You will get an overview on energy consumed in your company.

[ENERGY DATA](#)



Find suitable measures

If you have filled in your company profile you will get a pre-selection of energy saving measures and subjects tailored to your company. Please tick or un-tick the search boxes if you would like to have a more restricted or a more general selection on measures.

[SEARCH](#)

Energy Monitoring

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.

Chart
Energy data

Scope 1 ⓘ

Scope 1 emissions are emissions that are directly produced by your company, as a result of fuel, gas and wood combustion for heating purposes, operational processes and transport with the company's vehicles. ×

Heating Gas (1 entries) https://www.bing.de

View consumptions

Scope 2 ⓘ

Scope 2 emissions are indirect emissions that occur at power plants e.g. producing electricity and district heating. ×

Electricity (1 entries)

View consumptions
Add energy carrier to company

Weather adjusted consumption?

Configure climate adjustment and annually changing building areas to get more out of your data!

Configure chart

Scope 3 (1 entries) ⓘ

Scope 3 emissions are the emissions of the actors of your value chain resulting from activities like e.g. transport and other services and the production of goods. ×

Add scope 3 consumption

6. Enter Energy Data

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

Enter values for produced goods to evaluate the energy performance

Produced goods / served meals / overnight stays

Produced goods in tons (0 entries)

View entries

Production volume (0 entries)

View entries

Number of produced goods / served meals / overnight stays (0 entries)

View entries

Produced goods / served meals / overnight stays

Add production value

There are no entries yet.

Back to overview

Add production value

Add a new production value

Year *

Time frame *

Production value *

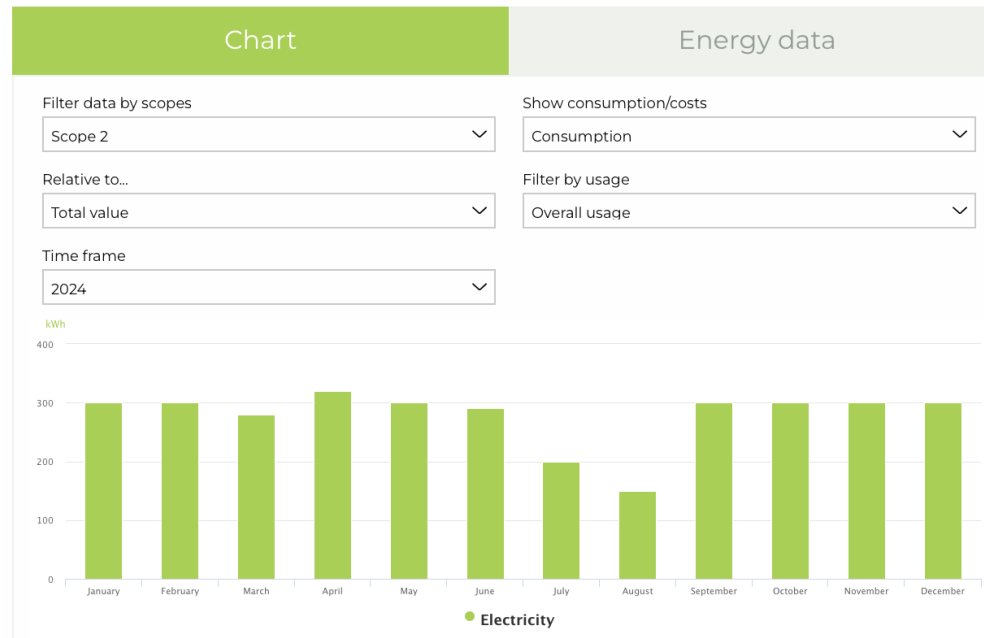
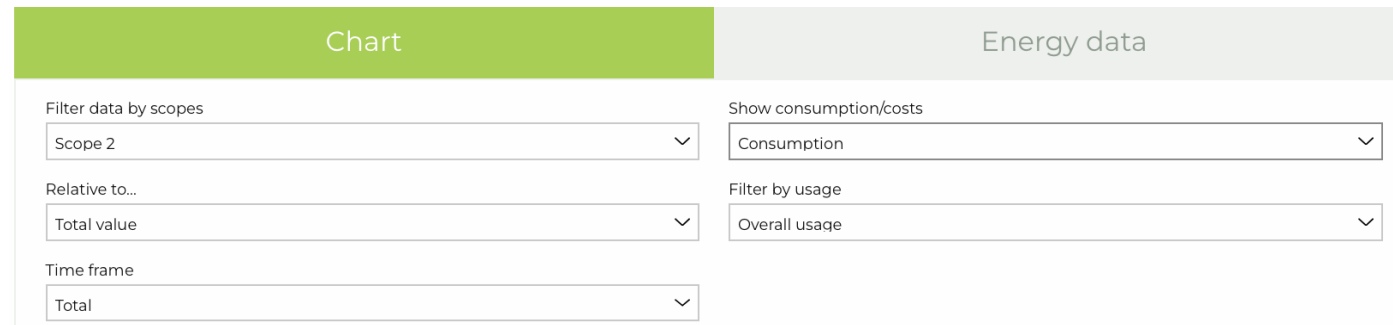
back

Save

7. Monitoring: Data Display

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.

Check the scroll down menus for the display of different parameters

8. Collaboration

- Invitation to account
- Invitation to quizzes

Company users and invitations

Here you can invite a colleague or an employee to jointly administer the selected company from your Impawatt account. But be careful: Invited members can edit all entered data, so you should trust them.

Invitation *

Company's connected user

Email address

claudia.julius@senercon.eu (You)

Invitations

Here you can invite colleagues or employees to take part on the quiz or survey. Please enter the e-mail address of the person you want to invite to the quiz

Invitation *



**Thank you for your
attention!**

Claudia Julius

Claudia.Julius@senercon.de



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