

Hotel Energy Solutions Energy toolkit

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The developers' perspective

What will be presented

- ▶ The signup procedure
- ▶ Login to the toolkit
- ▶ My projects
- ▶ The questionnaire user interface
- ▶ Available reports



Supports the adoption of **energy efficiency** and **renewable energy** technologies



The solutions are in your hands for free

The toolkit is comprised of an energy benchmarking tool and a decision support sequence which provides assistance in evaluating carbon emissions and mitigation techniques through energy efficiency and renewable energy investment options. It also includes a carbon footprint calculator and and best practices of other hotels

[Overview »](#) | [Features »](#) | [Methodology »](#) | [Benefits »](#)

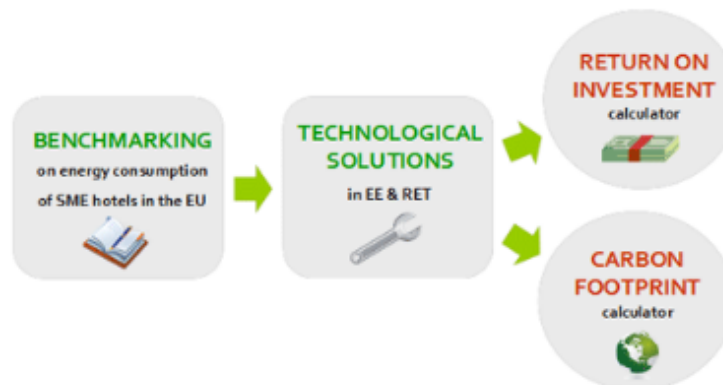
[Assess energy use](#)[Technological Solutions: Cut Energt Costs](#)[Reduce CO2 Emissions](#)[Learn More...](#)

About the e-Toolkit

The HES e-Toolkit enables Small and Medium Enterprises (SMEs) in the accommodation sector to assess their current energy use and carbon footprint against similar enterprises, and provide support in ranking practical and cost-effective energy efficiency (EE) and renewable energy (RE) investment options.

The toolkit is comprised of an energy benchmarking tool, and a decision support sequence which will provide assistance in evaluating carbon emissions and mitigation techniques through Energy Efficiency and Renewable Energy investment options. It also includes information on best practices and capacity building materials and a carbon calculator.

[Overview »](#) | [Features »](#) | [Methodology »](#) | [Benefits »](#)



Create new account – signup >>>

Fax

e-mail *

Terms of Service

Please check your Account information you've entered above (feel free to change anything you like), and review the Terms of Service below

Welcome to the "Hotel energy calculator". If you continue to browse and use this web platform you are agreeing to comply with and be bound by the following terms and conditions of use.

The term 'Hotel Energy Solution project consortium' or 'us' or 'we' refers to the official representative of the "Energy Toolkit web platform". The term 'you' refers to the user or viewer of the Energy Toolkit web platform.


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1. The content of the pages of this web platform is for your general information and use only. It is subject to change without prior notice.
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Verification

Please enter the verification code




website

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Hotel energy calculator

Use the application for free: [Sign up](#) | [Log in](#)



Log in

Use the following form to login and start using the Hotel energy calculator

User name:

[I've forgotten my password.](#)

e-mail:

Don't have an account? [Sign up now!](#)

Application Components: Benchmarking Tool - Decision Support Tool - Carbon Footprint Calculator - Learn more?

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<http://hes.e-benchmarking.org/>

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Hotel energy calculator

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My projects

Total number of projects: 4

New Hotel record	View / edit project	Delete the project	Incomplete
Pleasure	View / edit project	Delete the project	Complete 25/11/2010 11:53:00 μμ
test hotel b	View / edit project	Delete the project	Complete 22/12/2010 3:54:00 μμ
Test hotel c	View / edit project	Delete the project	Incomplete

After completing the questionnaire by clicking the link each hotelier can modify it separately

You can delete the selected project

Only when the questionnaire is fully completed the hotelier can access all the related reports

Step 1: General data >>

The screenshot displays the 'Hotel energy calculator' web application. The top navigation bar includes links for 'Home', 'About', 'Application components', and 'User guide', along with a language selector set to 'English' and a 'Go' button. Below this, the main header shows the application title and user status ('User: test_hotel'). The left sidebar contains a 'Questionnaire' section with a progress indicator (a clock divided into six segments, with the first segment highlighted) and a list of features: 'Energy related report', 'Energy solutions', 'Return on investment calculator', 'Carbon footprint', and 'Market your activities'. The main content area is titled 'Step 1: General data' and contains a form for 'Identification data'. The form fields are: 'Project name' (filled with 'Pleasure'), 'Survey completion date' (filled with '11-1-2010 9:26'), 'Year of reference' (filled with '2010'), and 'Country' (filled with 'Cyprus'). A 'Save and continue' button is located at the bottom of the form. A red oval highlights the progress clock in the sidebar, and another red oval highlights a row of six document icons in the top right of the main content area.

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Questionnaire

Current project: Pleasure

Step 1: General data

Step 1: General data

Identification data

Project name ? Pleasure *

Survey completion date 11-1-2010 9:26

Year of reference ? 2010 *

Country Cyprus *

Save and continue

Give your project a title. 1 min.

Energy related report

Energy solutions

Return on investment calculator

Carbon footprint

Market your activities

The clock is divided in six segments a visual way to show in which step you are.

Each step has a different hint and an estimated required time

After completing all the six steps the hotelier can use the report icons to edit each step individually

Hotel energy calculator

Project

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Questionnaire

Step 2: Hotel type, occupancy & staff

Describe key elements influencing your energy needs. 5 min.

Energy related report

Energy solutions

Return on investment calculator

Carbon footprint

Market your activities

Current project: Pleasure

Step 2: Hotel type, occupancy & staff

Hotel type

Please select your hotel type from the list

City hotel

Please select from the list

Apartment hotel

Bed and breakfast

Boarding house / Guest house

City hotel

Inn

Lodge

Motel

Residential club

Resort hotel

Spas / health establishment

Tourist hostel

Youth hostel / Tourist dormitory

Other

Occupancy

Jan-Mar

☒ Over 75%
 ☐ 50%-75%
 ☐ 25%-50%

Apr-Jun

☒ Over 75%
 ☐ 50%-75%
 ☐ 25%-50%

Jul-Sep

☒ Over 75%
 ☐ 50%-75%
 ☐ 25%-50%

Oct-Dec

☒ Over 75%
 ☐ 50%-75%
 ☐ 25%-50%
 ☐ Less than 25%
 ☐ Hotel closed

Number of guest nights sold

Number ? 1500

Hotel staff

Equivalent of full time staff ? 300

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Go

Hotel energy calculator

Project
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Questionnaire

Current project: Pleasure

Step 3: Hotel description

Gather information on your hotel building and geographical area to determine your energy needs and opportunities. 5 min.

Energy related report

Energy solutions

Return on investment calculator

Carbon footprint

Market your activities

Step 3: Hotel description

Features of building

Year of construction
 Year (YYYY)

10

Year of last major refurbishment ?
 Year (YYYY)

2000

Main type of building construction ?

☒ Detached
 ☐ Shares one wall with adjacent buildings (semi-detached or end of terrace)
 ☐ Shares two walls with adjacent buildings (mid-terrace)

Occupation of building

☒ Occupies whole building
 ☐ Occupies part of building including top floor
 ☐ Occupies part of building including ground floor
 ☐ Occupies part of building - middle floors only

Structure

☒ Steel-concrete structure
 ☐ Solid structure
 ☐ Wood structure

In different places in the application a help balloon is presented. By hovering over it help texts appear to assist the hotelier on the use of the toolkit.

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Questionnaire user interface “logic” >>>

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Questionnaire Current project: **Pleasure**

Step 4: Energy consumption (purchased from renewable and non-renewable sources)



Show all the energy sources you use currently. ⌚ 10 min.

Energy related report

Energy solutions

Return on investment calculator

Carbon footprint

Market your activities

Step 4: Energy consumption (purchased from renewable and non-renewable sources) ?

☒ Electricity ?

Type of use: ?

☒ Heating ☐ Air conditioning & Ventilation ☐ Domestic hot water ☐ Lighting

Amount of total electricity consumed ?

Unit

☐ Coal ?

☐ District Heating ?

☒ (LPG) Liquefied petroleum gas ?

Type of use: ?

☒ Heating ☐ Air conditioning & Ventilation ☐ Domestic hot water ☐ Lighting

Amount of liquefied petroleum gas ?

Unit

☐ Natural gas ?

☐ Heavy oil (e.g., heavy fuel oil, residential fuel oil) ?

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Questionnaire

Current project: Pleasure

Step 5: Renewable energy produced by the hotel

Does your hotel have installed any renewable energy sources? ?

☒ Yes ☐ No ☐ Don't know

☒ Geothermal energy (ground source heat pumps) ?

Type of use: ?

☐ Heating ☐ Air conditioning & Ventilation ☐ Domestic hot water

Renewable energy capacity installed in your hotel ?

Geothermal energy (ground source heat pumps) (kW)

Amount of renewable energy generated from this energy source in your hotel during the year of reference ?

Geothermal energy (ground source heat pumps)

Unit

☐ Geothermal energy for swimming pools

☐ Aerothermal heat pumps ?

☐ Micro hydropower

☐ Solar photovoltaic electricity ?

Please select from the list

Please select from the list

Kilowatt hour (kWh)

Megawatt hour (MWh)

TeraJoule (TJ)

GigaJoule (GJ)

MegaJoule (MJ)

million BTU (mmBtu)

Therm (thm)

Energy related report

Energy solutions

Return on investment calculator

Carbon footprint

Market your activities

Energy units are very crucial for the calculations that are taking place in the available reports. CO2 emission and energy related report are based upon those units.

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Questionnaire

Energy related report

Energy solutions

Return on investment calculator

Carbon footprint

Market your activities

Current project: **Pleasure**

You have complete the questionnaire! The following reports are available:

Energy related report

Assessing your hotel's current energy use/efficiency and carbon footprint.

Energy solutions

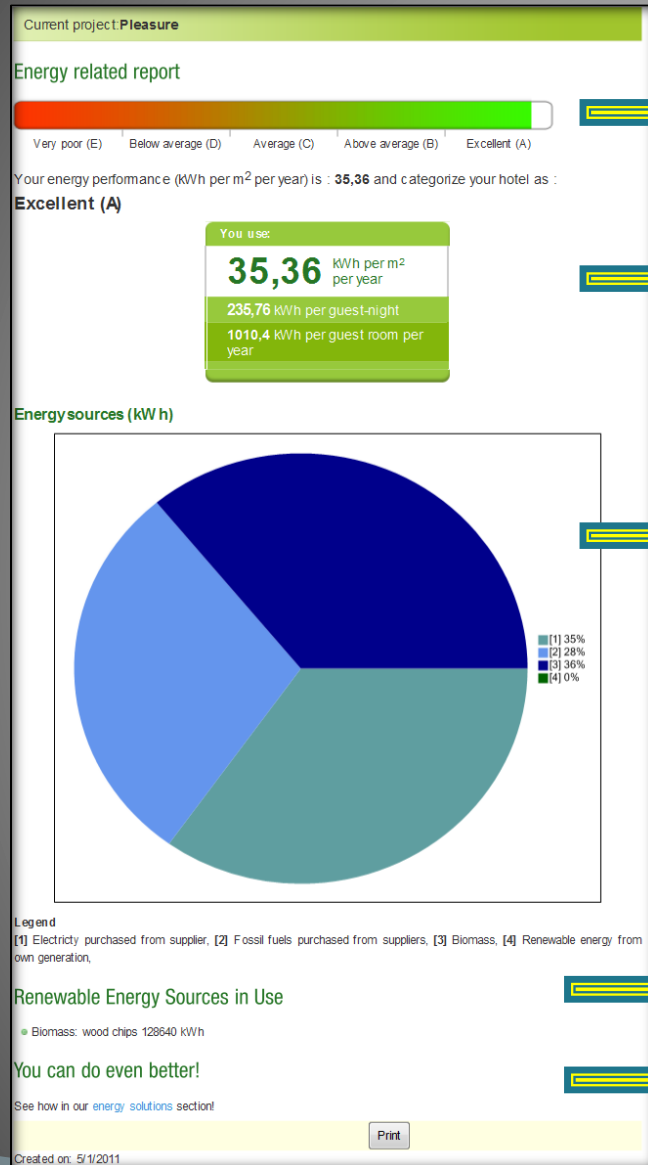
Assessing your hotel's current energy use/efficiency and carbon footprint.

Carbon footprint

Measuring your hotel's impact on our climate by estimating the total set of greenhouse gases (GHG) emissions.

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Energy related report >>>



Energy benchmark

Energy indices

Percentages of energy sources to total energy use

Renewable energy sources in use

Link to energy solution report

Questionnaire

Energy related report

Energy solutions

Return on investment

Carbon footprint

Market your activities

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Questionnaire

Energy related report

Energy solutions

Return on investment

Carbon footprint

Market your activities

Current project: Pleasure

Energy Solutions

Proposed energy saving solutions for your hotel

Prevention of air infiltration and of unnecessary outdoor air supply

Air infiltrations at doors and windows as well as continuously open entrance doors are a big source of energy loss in a hotel. Solutions to prevent those losses exist and can result in significant savings of energy.

Technologies covered

Indicative cost

Draught proofing ~ 200 € installed

Heating / Cooling

Read more .

Energy saving light bulbs

Read more .

General electricity

Read more .

Key card systems to switch off electricity in guestrooms

Read more .

Solar Photovoltaic

Read more .

Use renewable energy!

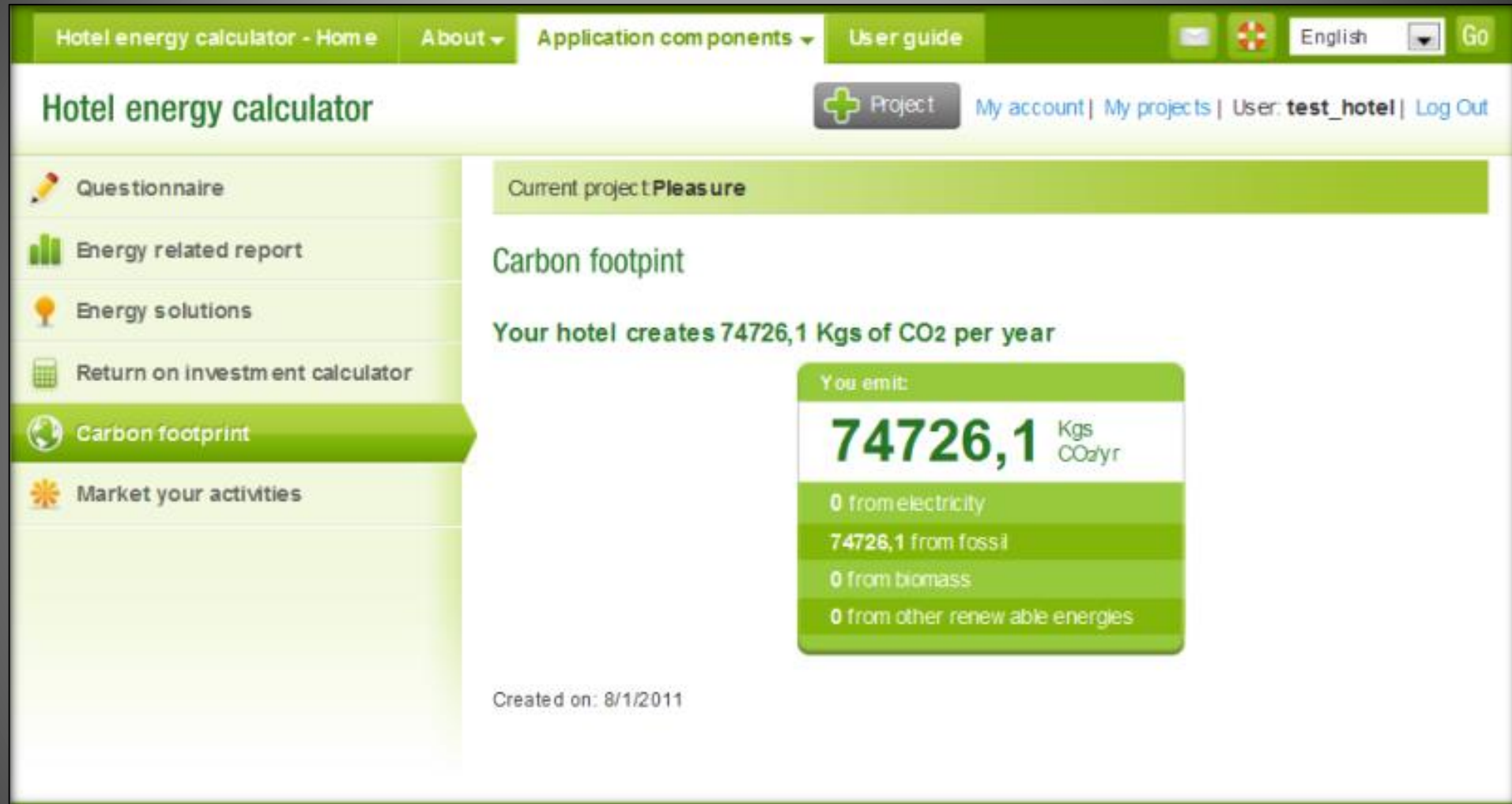
Read more .

Read more .

How to go further

Obtain in-depth recommendations: ask for an [energy audit of your hotel](#)

Involve your staff: see [how to train them on energy issues](#)



Hotelenergysolutions.net
 Increasing the competitiveness & sustainability of the EU accommodation sector

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Support

For questions related to technical issues, you can contact Mr. Isidoros Passas by clicking [here](#)

For questions related to the project "Hotel Energy Solutions", you can contact Ms. Claudia Lisboa by clicking [here](#)

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Thank you



<http://hes.e-benchmarking.org/>

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