

Hotel's environmental labelling Calculation and certification method





Consulting firm
Software publisher
Training organisation

Introduction to environmental labelling

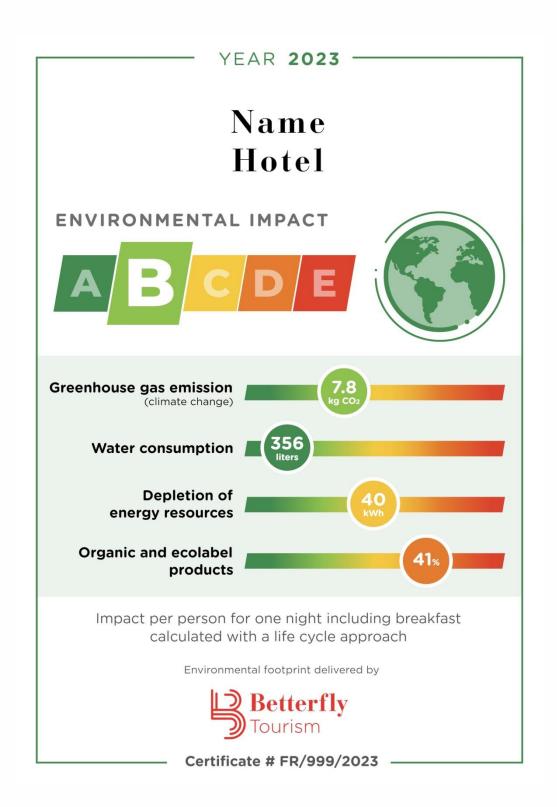
ENVIRONMENTAL LABELLING, AN IMPACT SCORE

- Indicates the environmental footprint of an overnight stay in tourist accommodation with breakfast
- Gives a grade from A to E

A RELEVANT, OBJECTIVE AND COMPARABLE ENVIRONMENTAL RATING

- Developed on the basis of the official ADEME reference framework and the Empreinte® database (formerly IMPACTS®)
- Calculated over the entire lifecycle of the bed and breakfast service, based on 4 indicators: carbon impact / water consumption / energy resource depletion / organic and eco-labelled products.
- Enabling establishments to embark on a continuous improvement process thanks to precise knowledge of their environmental impact
- Clearly and transparently informing travellers of the impact of their overnight stay in the establishment
- Official initiative supported by ADEME and the French Ministry for Ecological Transition

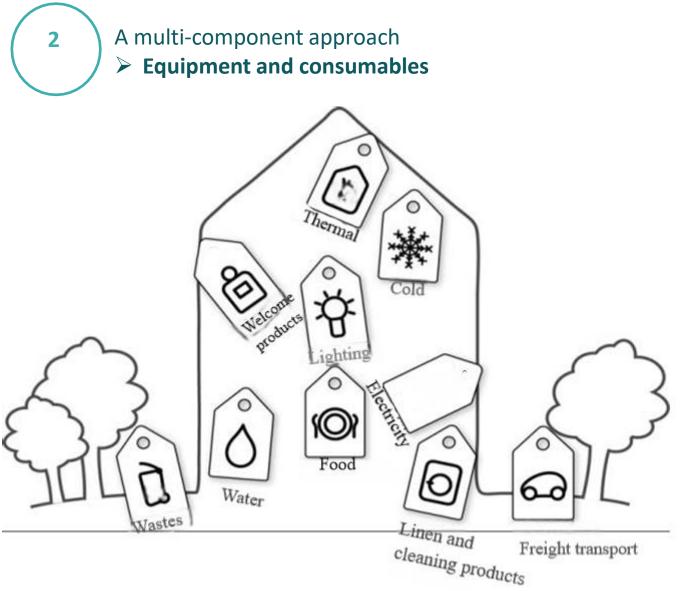
Betterfly Tourism is the only company to issue environmental labels for hotels and campsites

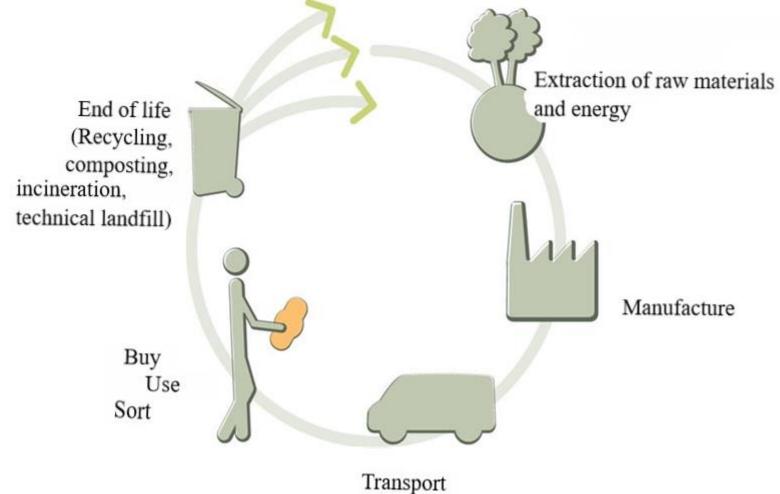




The methodology of environmental labelling







A multi-criteria approach

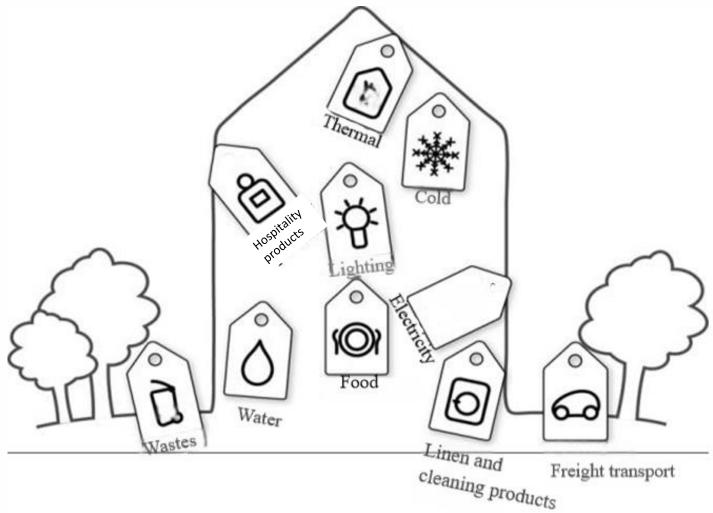
- > 4 environmental indicators
 - Impact on climate change (CO2) Life cycle water consumption
 - Consumption of non-renewable resources
 - % of actions in favour of biodiversity



The perimeter studied for a hotel

Functional unit:

«Provide overnight hotel accommodation »



Included in the scope:

Items and rooms covered by the hotel accommodation service, breakfast and wellness area if included in the overnight stay.

Electrical equipment, water (consumption and heating of domestic hot water), heating, ventilation and air conditioning, lighting, swimming pool/hammam/sauna/sports hall, green areas, transport for guests if offered, food purchases for breakfast, reception products, linen and cleaning products.

Excluded from the scope:

Restaurant, seminar room, bar, wellness area if not included in the overnight stay.

Swimming pools and balneotherapy equipment, employee transport, food purchases other than breakfast, leisure activities offered by the establishment..



The perimeter studied for a campsite

Functional unit:

« Provide a one-night outdoor hotel service »

accommodation

Swimming pool/Aquatic area





Home

Bare pitches



Sanitary blocks

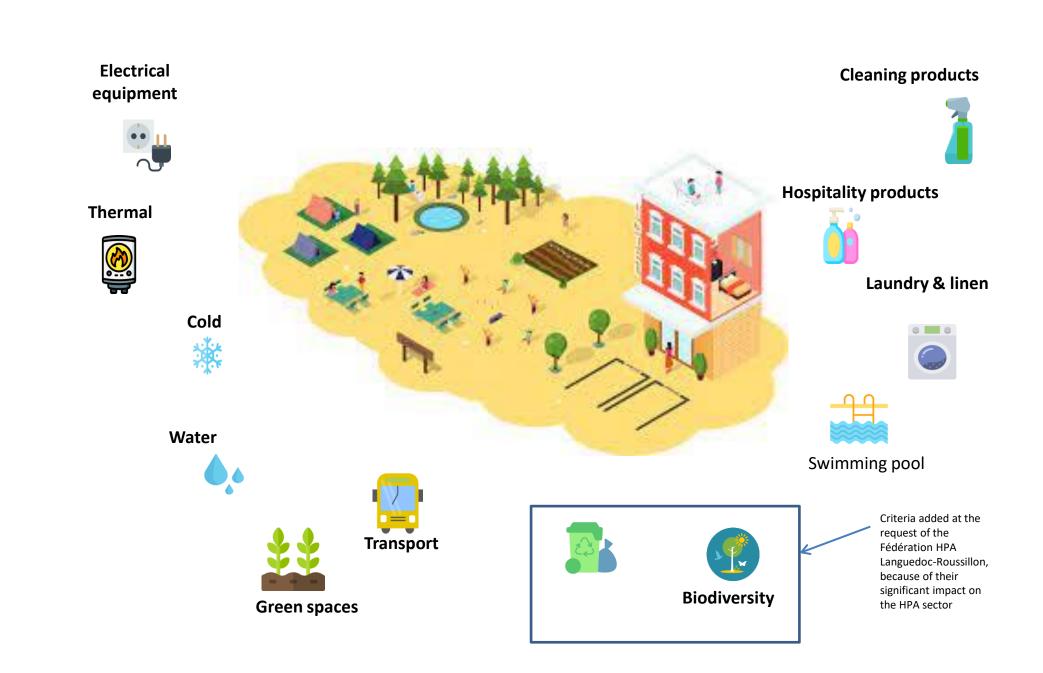
Rented



Laundry

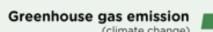


Ancillary paid services: restaurant, bar, wellness areas, bakery, grocery shop, etc. are not included in the analysis.





Understanding the 4 environmental label indicators





Climate impact expressed in kilograms of CO2 per person / overnight stay

Quantity of greenhouse gases (in kg CO2) emitted during a one-night stay in the labelled hotel, including:

- greenhouse gases generated by the establishment's energy consumption,
- emissions due to the manufacture, transport and end-of-life of equipment and consumables used in the hotel.

Water consumption 356



Water consumption in life cycle expressed in m3 per person / night

Average volume of water (in m3) consumed during a one-night stay in the labelled hotel. This includes water used for:

- showers, baths, taps and WCs, laundry, etc.
- services associated with the overnight stay (swimming pool, spa, etc.),
- the manufacture of raw materials for equipment and consumables

Depletion of energy resources





Depletion of energyenergy resources expressed in kWh per person/night

Depletion of natural resources (in kWh), such as mineral raw materials and fossil fuels, which come from deposits formed during the Earth's geological history and correspond to an exhaustible stock.

- energy used for equipment, lighting, heating and air conditioning
- raw materials for the manufacture of equipment and consumables

Organic and ecolabel



Proportion of ecological or organic products (as a % of the total mass of products used) used during a one-night stay in the labelled hotel.

Organic and eco-labelled products

expressed as a percentage of products used

This takes into account consumables bearing an ecolabel or produced by organic farming, whether they are reception, breakfast or cleaning products used by the establishment.

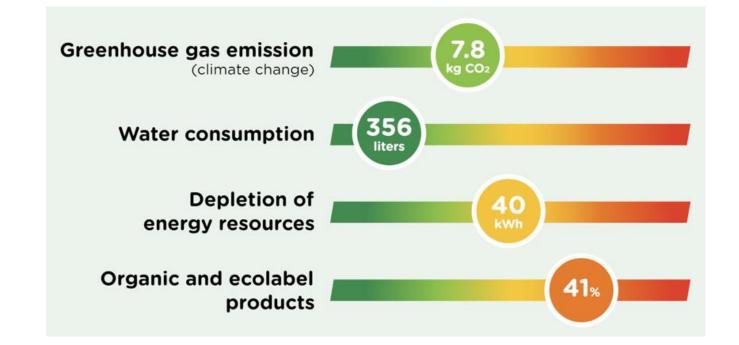


Understanding the colour of cursors

The colours of the cursors are displayed according to the indices per indicator.

Example for CO2 (same values for the 3 other indicators):

- Indicator index below 35 = dark green
- Indicator index between 35 and <48 = light green
- Indicator index between 48 and <59 = yellow
- Indicator index between 59 and <77 = orange
- Indicator index above 77 = red



- Makes it easier for the establishment or consumer to understand whether it is a good C close to a B or a bad C close to a D
- Facilitates analysis by the consultant
- Visibility on immediate courses of action, at least for organic products and water
- Room for improvement at first: improve the colour of the cursors even before improving the score, as the school can take things one step at a time.

Ac	commodation	standards (in	France)		
Note bearings	Α	В	С	D	E
Average overall index	< 35	35 - 48	48 -59	59 - 77	> 77
Indicator bearings					
Greenhouse	763	62 964	0.64 10.63	10.62 12.06	N12 96
gas emission (kg CO2)	< 6,3	6,3 - 8,64	8,04 - 10,02	10,62 - 13,86	>13,86
Water consumption (L)	< 385	385 - 528	528 - 649	649 - 847	>847
Depletion of energy	> 38,5	38,5 - 52,8	52,8 - 64,9	64,9 - 84,7	>84,7
resources (kWh)	/ 50,5	30,3 - 32,0	32,6 - 04,5	04,5 - 64,7	~ o4,7
Organic and ecolabel	< 40,5	18,4 - 40,5	12,6 - 18,4	6,9 - 12,6	> 6,9
products (%)	×40,5	10,4 - 40,5	12,0 - 10,4	0,5 - 12,0	/0,5



Focus on the 3 life cycle indicators

Greenhouse gas emissions

related to energy and water consumption in the hotel; the manufacture and transport of electrical and electronic equipment; the manufacture and transport of consumables.

Life cycle water consumption

related to energy consumption in the hotel; the manufacture of electrical and electronic equipment; the manufacture of consumables. Also includes on-site water consumption: swimming pool, bathrooms and toilets in the accommodation area, water points in communal areas, etc.

Consumption of non-renewable resources

Depletion of the environment of non-renewable mineral and fossil resources such as natural gas, coal, oil, etc. Consumption of non-renewable resources linked to the consumption of energy and water in the hotel industry, the manufacture and transport of electrical and electronic equipment, and the manufacture and transport of consumables.

Examples of impacts in France (ex	tract from the Wingg	gy database - source	ADEME)
Unit	CO2 (kg)	WATER (m³)	RESSOURCES (kWh)
1 kWh Electricity	0,1058	0,0095	1,0096
1 kWh Natural gas	0,2610	0,0002	0,3482
1 m3 Mains water	0,1687	1,1354	1,4000
1 kg Electrical machinery and equipment	5,8433	0,2919	702,2281
1 kg Cotton	27,6548	6,1364	80,1860
1 kg Moisturising cream	1,7808	0,1365	11,1293
1 L Multi-purpose cleaning product	0,6866	0,0332	3,9849



Focus on the organic and eco-labelled products indicator

The overall score, between 0 and 100%, is calculated on the basis of the average mass of labelled products made available by the establishment. The labels taken into account in the score are:

- Food:













- Reception products:













- Cleaning products:













- Textiles:









Source: https://agirpourlatransition.ademe.fr/particuliers/labels-environnementaux



The stages in the environmental labelling process



Account activation on our WINGGY® software tool



Data collection and modelling by the establishment

Data relating to the facility for year N-1 (surface area, attendance, services, equipment, etc.) and water and energy consumption (invoices)

- •Excel document for data collection / completion of data in the software by the facility
- Verification of data by the Betterfly Tourism team



On-site visit by a Betterfly Tourism consultant

- •Survey of equipment and consumables, interviews to find out about working habits
- Verification of data collected beforehand on site

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Publication of an environmental label and presentation of an action plan

- ☐●Finalisation of data modelling in the software and validation of the environmental label by the Betterfly Tourism consultant.
- •Analysis of the data according to the 4 indicators and presentation of an action plan for the establishment



Monitoring points and label updates

•Support for the accommodation in implementing the actions and annual updating of the label to assess the impact of the actions taken.



Preparing for the audit

A few weeks before the audit: telephone meeting with the accommodation provider

30-minute to 1-hour meeting to set the audit date and duration (1 to 2 days recommended for the most complex establishments) and present the list of data to be collected by the hotel:

- General information
- Technical information on equipment
- Energy, water and linen bills
- Description of consumables installed

Explanation by the auditor of the essential data collection points Send audit schedule with details of interviews with department managers. Confirmation that a technical manager will be present on the day of the audit

A few days before the audit (D-14): verification of documents received

- Follow-up for receipt of documents and additional information if necessary
- Verification of documents received
- Preparation by the auditor of additional questions to be asked during the audit
- Pre-modelling of the information received or verification of the data modelled by the establishment with the supporting documents sent
- Sending of an email to confirm the audit schedule and meetings with the various managers
- Preparation of audit equipment: guide, computer or tablet, bottle of water, graduated bucket and stopwatch for measuring flow rates, camera or mobile phone for taking photos, tape measure, etc.



Examples of data to be collected upstream by the hotel

General information about the establishment and visitor numbers

Contact details, description, type of rooms, information about the building, number of rooms, number of days open per year, number of breakfasts per year, number of overnight stays...

Fluid consumption

Water and energy bills, type of heating, details of electrical or solar equipment, etc.

Textiles

Data on linen management in the establishment (hire, external cleaning, purchase and cleaning managed by the establishment), type of textile, size, weight, material, etc.

Consumables

Breakfast and hospitality products

Additional information

Office equipment, cleaning products for green spaces, refrigerant gases, etc.



Our Winggy® interface



Visitor numbers

Annual attendance Other services



Building & businessSurface area of facility



Water & energy bill

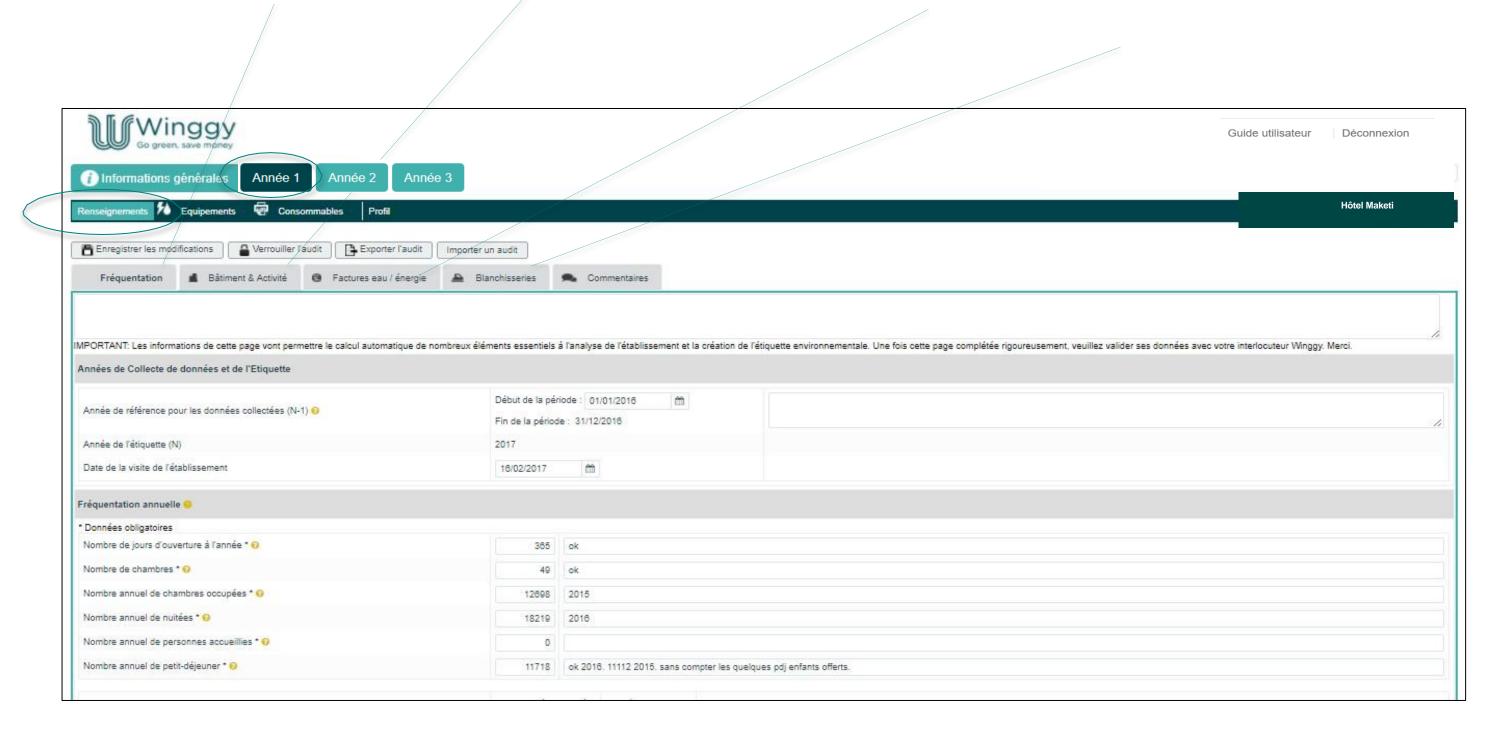
Hotel water and energy consumption



Laundries

Laundry data and consomption

This only applies to hotels that use an external laundry service to clean their linen.





On-site audit - typical day

Objective: to collect the information needed todraw up a balance sheet for the company

	1		
9h – 11h	Interview with the General Manager - Reminder of the objectives and context of environmental labelling and auditing. - Confirm the schedule for each interview with head of departments - Presentation of the hotel by the GM - Overview of the data collected beforehand and the ones to be collected on site - Quick tour of the establishment	General Manager	2h
11h-12h30	Interview with the Maintenance Manager - Presentation of the hotel technical operation by the maintenance Manager and question by the consultant - Tour of technical facilities - Discussions to identify best practices and solutions. - Topics covered: Heating, ventilation, air conditioning, lighting, green spaces, domestic hot water, swimming pools, refrigerant gases	Maintenance Manager	1,5 h
ay 1 : afterr	ioon		
14h-14h45	Interview with the Breakfast Manager Presentation of the Breakfast operating process, Discussions to identify best practices and solutions.	Breakfast Manager	45 min
14h45- 15h30	Interview with Housekeeping Manager Presentation of the Room operating process, tour of the backoffice and laundry spaces to see the cleaning products, linen, cleaning equipments etc. Discussions to identify best practices and solutions.	Housekeeping Manager	45 min
15h30- 17h30	Hotel Audit by the conslutant (consultant can be autonomous) - Breakfast spaces - 5 rooms from different categories on différent floors if possible: the consultant will make an inventory of the equipments and consumable in the room and measure waterflow (tap, showers and bath) - Tour of all public spaces and back office to make an inventory of consumables and equipments		2 h



Lighting inventory



Flow meter measurements



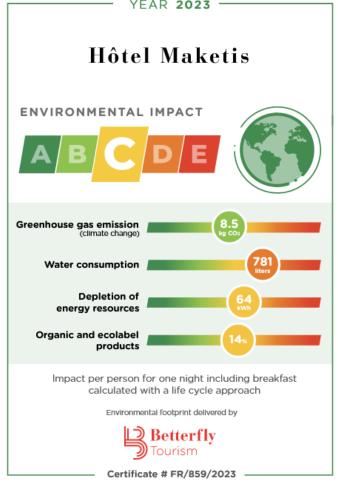
Energy audits

Data modelling verification procedure

1) Verificat	ion - General information / Information
Objective: check at	ttendance (nights) + energy and water allocation
General informa	ations
Contact details co	mpleted
Number of stars +	Services completed
Attendance	
Is the year of the I	abel the current year 2024? On data collection2023?
Is the number of n	lights fair and consistent? (highest number among other attendance numbers)
Report the numbe	r of nights here
	completed and consistent? : Number of days, Number of rooms, Number of rooms
	of people accommodated, Number of breakfasts
	culated data is consister. (* **O, No. of people/ch,
	er services: consistent data?
Building & Activ	
Type of energy and	d equipment: completed and cohe ent
Surfaces complete	d?
Water/energy b	
	ill CHECKING WITH INVOICES
	Total gross consumption: completed and coherent?
Water	Services outside the scope:Quickly check if exclusions make sense
	Consumption Establishment: If manual result indicated, check if logical and why it is different from automatic calculation.
	Establishment consumption (m3): Report the number of winggy here
	Establishment consumption (L/night): Check if the number calculated on the right is consistent? Value usually between 100 and 140 l/night for a high-performance hotel, 150/190 l for a mid-range hotel and more than 190 l for a poorly performing establishment. Beyond 250 l/night significant probability of leak. Swimming pool: allow between 25 and 60 liters more per person
electricity	CHECKING WITH INVOICES
	Total gross consumption: completed and coherent?
	Services outside the scope:Quickly check if exclusions make sense
	Consumption Establishment: If manual result indicated, check whether it is logical and why it is different from the automatic calculation.
	Establishment consumption (kWh): Report the number of winggy here

Validation of the label and report with action plan





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Betterfly Tourism environmental ruler

ENVIRONMENTAL IMPACT





Certificate # FR/859/2023

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Betterfly Tourism environmental letter



Certificate # FR/859/2023

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Environmental Summary



Project Name

Hotel name

Adress Postal Code

Audit date
Date of reporting:
Consultant Betterfly Tourism:



28 rue de Strasbourg 44 000 Nantes +33 (0)2 40 74 69 24



Updating the label (N+1 and subsequent years)

- 1. The Betterfly Tourism team makes contact with the establishment to explain the update process
- 2. Gathering information on the basis of year n-1:
 - Water and energy consumption: annual summary (last invoice of the year with summary)
 - Annual attendance: number of overnight stays, occupancy rate, number of rooms sold, etc.
 - Annual quantities: Laundry cleaning, swimming pool and green space maintenance products, refrigerant gases, etc.
- 3. Updating information in Winggy® software on the Information + Equipment + Consumables tabs
- 4. Transmission of supporting documents to the consultant
 - Water and energy consumption: Annual summary (last bill of the year with summary) or all bills for the year
 - Summary of annual visitor figures
 - Annual linen summary + mail from the laundry
 - Photos or invoices for organic and eco-labelled products
- 5. Data verification and the label validated by the Betterfly Tourism consultant



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