

# GENERAL PRINCIPLES FOR ENVIRONMENTAL COMMUNICATION ON MASS MARKET PRODUCTS

## PART 27: METHODOLOGICAL GUIDE FOR THE ENVIRONMENTAL ASSESSMENT OF TOURIST ACCOMMODATIONS

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**RAPPORT FINAL**

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## Table of contents

1. Scope .....	5
2. Functional unit and reference flow .....	5
2.1. Functional unit.....	5
3. Main environmental impacts .....	6
4. Life cycle inventory data at the origin of environmental impacts .....	6
5. Relevant environmental indicators and calculation methods .....	9
6. Allocation rules between products and co-products .....	9
7. End-of-life processing.....	11
8. Assessment scope and calculation method for adopted indicators .....	11
9. Consistency between primary, secondary and semi-specific data .....	17
10. Validation method for data and results .....	19
11. Factoring in delayed greenhouse gas emissions .....	19
12. References.....	19
Annex A (informative) Granularity of Life cycle Inventories and semi-specific data values .....	20
Annex B Criteria grid.....	39
Annex C Calculating the indicator "Mass percentage of Type I eco-label products" .....	43
Annex D List of equipment commonly found at establishments .....	49
List of the organizations represented at the validation of this guide (environmental assessment platform meeting on 18 June 2015) .....	54

## Preamble

This guide was authored by the working group WG 17 "Tourist accommodations", part of the environmental assessment of mass market goods platform, headed by ADEME (Mr CAUDRON/Mr FOURDRIN) with the AFNOR secretariat (Mr BALCAEN).

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The list of organizations involved in the follow-up, drafting and/or preparation of this guide can be found at the end.

# 1. Scope

This guide is designed to provide a methodological framework for assessing the environmental impacts of tourist accommodations.

It sets out the general principles for environmental communication on mass market goods (part 0). The environmental communication indicators will be deemed compliant with the rules of the good practice guide for communication on mass market goods provided they comply with the general principles and cross-disciplinary methodological rules laid out in this part 0 and its annexes, as well as the rules specified in this sectoral guide.

This sectoral guide sets out the items mentioned in subclause A.1.1 of Annex A on general principles for environmental communication on mass market goods (part 0) Functional unit and reference flow.

## 2. Functional unit and reference flow

### 2.1. Functional unit

The functional unit retained for tourist accommodations is the following:

Accommodations category	Functional unit
Hotel services	"To provide overnight accommodation (1 night) with breakfast included"

According to INSEE, a night in the sense of an overnight stay is understood as: a customer housed for two days is counted as 2 nights, and 2 customers sharing the same room overnight shall count as 2 nights.

With regard to day use (accommodation rented for several hours): day use shall be regarded as one night.

#### Justification of the functional unit:

- The function(s)/services(s) provided (What?): to stay the night and eat a meal in the morning.
- The extent of the function or service (How much?): one night and one breakfast.
- The expected level of quality (How?): in tourist accommodations.
- The duration (service life) of the product: one night per 24-hour period or from the customer's arrival to departure with Day Use.

Main functions and secondary functions relating to hotel service can be identified:

The main functions are:

- To provide a room for overnight accommodation
- To provide catering services in the form of breakfast

The secondary functions are services added to the main functions that supplement the services offered by the hotel, such as, for example:

- To provide recreation and wellness areas (gym, pool, park, etc.)
- To provide transportation to customers (hotel shuttle, electric bikes, etc.)
- To provide a seminar room
- To offer full catering services
- Etc.

Generally speaking, night occupancy shall include all secondary functions provided free to the customer (e.g. the pool, shuttle transport) but shall exclude paying secondary functions (catering, spa and massage treatments in a spa, drinks at a bar other than the mini-bar in the room). These paying activities shall be covered by specific guides

### **3. Main environmental impacts**

The main environmental impacts for tourist accommodations are:

- Impact on climate change,
- Energy consumption,
- Water consumption,
- Purchase of goods (cleaning products, breakfast, etc.),
- Waste,
- Biodiversity.

Global warming, energy, water and product purchase impacts will be indicators to communicate. However, biodiversity and waste impacts will not be expressed by environmental indicators.

For biodiversity, the impact is considered relevant, but the lack of information on accounting for this indicator on the life cycle continues to be a sticking point.

The matter of waste is considered relevant in accounting for the local impact of the tourist accommodation business, but it is difficult to quantify the amount of waste generated daily including food waste (which may require a long-term measurement campaign that could be difficult to implement) and the amount of waste related to the construction and renovation of buildings (varying intervals depending on the establishments). In addition, this indicator is not adopted by BP X30-323-0.

Justifications on validation of impacts and associated indicators are presented in Annex B of this document. In support of this analysis, the European Ecolabel guide can be referred to; it mainly covers the impacts related to the consumption of water and energy, waste management, resource consumption (including packaging) and responsible purchasing.

### **4. Life cycle inventory data at the origin of environmental impacts**

Available environmental studies and current knowledge have identified the data at the origin of the environmental impacts mentioned above.

Two major projects have clarified the origin of the environmental impact: a study by ACCOR on the group's environmental footprint<sup>1</sup> and research by EVEA Tourisme on environmental communication for over 60 hotels since 2011.

Other bibliographical works exist on the environmental impact of the hotel industry. Unfortunately, most of this work focuses on one or two environmental impacts, such as water and energy. The research by Gossling et al (2015)<sup>2</sup> shows how few studies are available to account for the environmental impact of hotels on multiple indicators and over the entire life cycle, including upstream impact, outside of the hotel.

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<sup>1</sup> The environmental footprint of the ACCOR Group, December 2011

<sup>2</sup> New performance indicators for water management in tourism, Stefan Gossling et al. , 2015

Contributions to indicators can be summarized as follows:

Environmental indicator	Data at the origin of impacts (in descending order of importance)
Climate change	Energy consumed on site (72%) <sup>1</sup> Food products including breakfast (14.7%) <sup>1</sup> Laundry production and laundry cleaning (1.4% for laundry cleaning according to the ACCOR study – approximately 12 to 15% according to EVEA Tourisme experiments, including laundry production and daily transport) Electrical equipment manufacturing (between 5 and 10%) <sup>3</sup> Cleaning products (1 to 4%) <sup>2</sup> , amenities (2%) <sup>2</sup> and refrigerant gases (2.2%) <sup>1</sup>
Energy consumption	Energy consumed on site (80%) <sup>1</sup> Energy consumed by laundry services (6.9%) <sup>1</sup> Catering including breakfast (6.5%) <sup>1</sup> Construction, renovation and deconstruction (4.7%) <sup>1</sup> Office furniture (2.0%) <sup>1</sup>
Water consumption	Water consumption on site (80% to 86% excluding breakfast food, excluding cotton production, approximately 20 to 30% otherwise) <sup>1 and 2</sup> Consumption related to laundry services (15% <sup>2</sup> excluding cotton production and food / 12% <sup>4</sup> including cotton production and breakfast food) Water consumption for food products (0% if excluded, approximately 70% if included) <sup>5</sup>
Waste	Construction waste Waste related to energy production (for countries that use primarily coal) Waste related to activities (food, packaging for consumables) Laundry
Product purchase	Breakfast, cleaning products, amenities, textile products, garden upkeep products, pool cleaning products)
Biodiversity	Weight of the various contributors is not well known for the following items: Garden upkeep, water waste, electrical equipment, breakfast products, etc.

<sup>3</sup> Data from experiments on environmental communication led by EVEA Tourisme

<sup>4</sup> Eco-innovation project for linen rental services, 2014, EVEA Tourisme

<sup>5</sup> Study conducted by EVEA Tourisme on analysis of breakfasts 2011 – 2012.



## 5. Relevant environmental indicators and calculation methods

The environmental impacts identified above and adopted for environmental communication shall be characterized using the environmental indicators set forth in the following table. This table indicates the unit of measure and the calculation method for each impact indicator. The indicators shall be expressed using ratios of the units mentioned in the table to the functional units mentioned in Clause 1 of this sector-specific guide.

Environmental impacts	Impact indicators	Units used <sup>6</sup>
Impact on climate change	Greenhouse gas emissions	kg eq. CO <sub>2</sub>
Water consumption	Lifespan water consumption	eq. m <sup>3</sup>
Resource consumption	Depletion of non-renewable natural resources	g eq. Sb
Product purchase	Mass percentage of eco-label and organic products used  (see Annex C for the calculation method)	%

The characterization methods for the "greenhouse gas emissions", "lifespan water consumption, and "depletion of non-renewable natural resources" indicators are specified in the general principles for environmental communication on mass market goods (part 0). For the indicator "Mass percentage of eco-label and organic products used", the method is set out in Annex C of this guide.

## 6. Allocation rules between products and co-products

The allocation rules are for the hotel establishments offering activities in addition accommodation services, such as catering activities or seminar activities. Allocation rules shall then be issued in order to not count the impacts of excluded activities in the impact of a hotel night.

The following allocation rule is proposed to exclude the impact of the seminar activities offered by the hotel:

- If the area dedicated to seminar activities is less than 5% of the total area of the hotel, there is no exclusion
- If the area dedicated to seminar activities is greater than 5%, the following shall be subtracted from the hotel impact:
  - The share related to heating seminar areas: in the absence of an energy meter per area, a proportional allocation of the heated area shall be multiplied by the number of days the seminar area is heated.

<sup>6</sup> These units are linked to characterization methods and are provided as a guideline. These methods shall comply with the general principles for environmental communication on mass market goods (part 0).

- The share related to air conditioning in seminars areas: When there is no area-specific energy meter, a proportional allocation is calculated by multiplying the air-conditioned area by the number of days of use and by the total power of the air conditioning system installed in the seminar area. The same proportional allocation will be applied to refrigerant gases for air conditioning.
- all purchases and equipment linked to the seminar activity (bottled water, video projectors, etc.)
- water consumption equal to: no. of seminar person-days x (2.5 x low-flush volume for toilets in lavatories used for seminars + 0.5 of the high-flush volume + 1 min 30 seconds x sink flow rate)<sup>7</sup>

To exclude catering activities, the following allocation rule is proposed:

- Subtract from hotel activity the energy and water consumption that relates to catering. This data will be collected from meter readings or bills, whenever possible. Otherwise the following value can be deducted:
  - 4.8 kWh of electricity per person for meal service<sup>8</sup>
  - 2.2 kWh of natural gas or propane per meal served (depending on kitchen facilities)
  - 39 litres of water per meal
- Subtract from hotel activity all purchases and catering equipment (laundry, food, cleaning products, etc.)

To exclude the impact of employee housing, it is proposed to exclude:

- The share related to heating staff housing areas: if there is no area-specific energy meter, a proportional allocation will be calculated by multiplying the area heated for staff housing the number of days it is heated.
- The share related to air conditioning in staff housing areas: if there is no area-specific energy meter, a proportional allocation will be calculated by multiplying the air-conditioned area by the number of days of air conditioner use and by the total power of the air conditioning system installed in the staff housing area. The same proportional allocation will be applied to refrigerant gases for air conditioning.
- all purchases and equipment related to employee housing (bottled water, video projectors, etc.).
- Water consumption of 151 litres per day per employee<sup>9</sup>.

<sup>7</sup> Number of uses per day and use time: source EVEA Tourisme

<sup>8</sup> This data is from a survey by EVEA Tourisme on a sample of 18 restaurants and would need to be refined through additional studies.

<sup>9</sup> Source: "Household consumption and the environment", General Commission for Sustainable Development, 2011 edition, p. 16

## **7. End-of-life processing**

Waste generated by tourist accommodations is not included in the scope of the study.

## **8. Assessment scope and calculation method for adopted indicators**

The areas included in accommodation are considered to be the following:

The guest rooms and bathrooms, hallways, reception, public areas, associated technical areas, the breakfast room, the office, internal laundry, pool and associated facilities (excluding treatment rooms) garden areas, fitness room, staff offices.

## Life cycle stages included in the scope

Poste du périmètre inclus	Commentaires	Phase du cycle de vie incluses								
		Extraction et transformation des matières premières (produit)	Transport des matières premières (produit) vers lieu de production	Transport des matières premières (emballages) vers lieu de production	Production du produit	Extraction matière première production des emballages primaires et secondaires	Transport du lieu de production vers hôtel	Utilisation	Transport vers mise au rebut	Traitement du déchet
Equipements électriques, électroniques, électroménagers	Inclure les équipements permettant d'assurer l'hébergement et le petit-déjeuner. Tous les équipements présents dans les lieux de l'hébergement sont intégrés au périmètre.	Inclus	Inclus	Exclus	Inclus	Exclus	Exclus	Inclus	Exclus	Exclus
Produits d'accueil	Inclure les produits d'accueil mis à disposition des clients dans lieux inclus dans le périmètre de l'hébergement	Inclus	Inclus	Exclus	Inclus	Inclus	Inclus	Inclus	Exclus	Exclus
Produits alimentaires	Inclure les produits alimentaires mis à disposition pour le petit-déjeuner, dans le minibar et sur les plateaux de courtoisies, le service en chambre autre que la restauration midi ou soir, ainsi que dans les lieux liés à l'hébergement en général	Inclus	Inclus	Exclus	Inclus	Inclus	Inclus	Inclus	Exclus	Exclus
Produits d'entretien	Inclure les produits d'entretien et consommables associés utilisés pour le bon entretien des lieux liés l'hébergement incluant notamment les espaces verts, les piscines, les produits lessiviels.	Inclus	Inclus	Exclus	Inclus	Inclus	Inclus	Inclus	Exclus	Exclus
Produits textiles	Inclure le textile utilisé pour la literie des chambres, l'utilisation de la salle de bain, l'utilisation de la piscine et des salles de fitness par les clients de l'hôtel, le linge de table uniquement dédié au petit-déjeuner.	Inclus	Inclus	Exclus	Inclus	Inclus	Inclus	Inclus	Exclus	Exclus
Produits textiles, cas de la location de linge	Inclure en plus de la production du linge l'impact pour le nettoyage du linge, son transport et l'utilisation de produits lessiviels	Inclus	Inclus	Exclus	Inclus	Inclus	Inclus	Inclus	Exclus	Exclus
Transport des clients	Inclure uniquement le transport assuré par l'hôtel pour ses clients sous forme de navette, généralement observé sur les derniers km ou pour les sorties durant le séjour.	Inclus	Inclus	Exclus	Inclus	Exclus	Exclus	Inclus	Exclus	Exclus
Consommation d'eau et d'énergie	Inclure les consommations d'eau et d'énergie sur site, lié à l'hébergement, ainsi que celles liées à la blanchisserie externe	Inclus	Inclus	Exclus	Inclus	Exclus	Exclus	Inclus	Exclus	Exclus
Gaz réfrigérants	Gaz réfrigérants contenus dans les dispositifs de production de chaud et de froid	Inclus	Inclus	Exclus	Inclus	Exclus	Exclus	Inclus	Exclus	Exclus

Anglais	Français
Perimeter item – included ; Comments ; Extraction and transformation of raw materials (product) ; Transport of raw materials (product) to the production site ; Transport of raw materials (packaging) to the production site ; Product production ; Extraction of raw materials production of primary and secondary packaging ; Transport from production site to hotel ; Use ; Transport to disposal ; Waste treatment ; Included ; Excluded	Poste du périmètre inclus ; Commentaires ; Extraction et transformation des matières premières (produit); Transport des matières premières (produit) vers lieu de production ; Transports des matières premières (emballage) vers lieu de production ; Production du produit ; Extraction matière première production des emballages primaires et secondaires ; Transport du lieu de production vers hôtel ; Utilisation ; Transport vers mise au rebus ; Traitement du déchet ; Inclus ; Exclus
Electrical, electronic equipment and appliances ; Amenities ; Food products ; Cleaning products ; Textiles ; Textile products, for linens rental ; Customer transport ; Water and energy consumption ; Refrigerant gases	Equipements électriques, électroniques, électroménagers ; Produits d'accueil ; Produits alimentaires ; Produits d'entretien ; Produits textiles ; Produits textiles, cas de location de linge ; Transport des clients ; Consommation d'eau et d'énergie ; Gaz réfrigérants
Include equipment used to provide accommodations and breakfast. All equipment present in accommodations facilities is included in the scope.	Inclure les équipements permettant d'assurer l'hébergement et le petit-déjeuner. Tous les équipements présents dans les lieux de l'hébergement sont intégrés au périmètre.
Include amenities products made available to customers in areas included in the accommodations scope.	Inclure les produits d'accueil mis à disposition des clients dans lieux inclus dans le périmètre de l'hébergement
Include food products made available for breakfast, in the minibar and on the courtesy tray, room service except for lunch and dinner, and in areas related to general accommodations.	Inclure les produits alimentaires mis à disposition pour le petit déjeuner, dans le minibar et sur les plateaux de courtoisies, le service en chambre autre que la restauration midi ou soir, ainsi que dans les lieux liés à l'hébergement en général
Include cleaning products and associated consumables use to maintain areas related to accommodations, including garden areas, pools and detergent products.	Inclure les produits d'entretien et consommables associés utilisés pour le bon entretien des lieux liés à l'hébergement incluant notamment les espaces verts, les piscines, les produits lessiviels
Include textiles used for room bedding, bathroom use, use of the pool and fitness room by hotel customers, and table linens used at breakfast.	Inclure le textile utilisé pour la literie des chambres, l'utilisation de la salle de bain, l'utilisation de la piscine et des salles de fitness par les clients de

	l'hôtel, le linge de table uniquement dédié au petit-déjeuner.
In addition to the production of laundry, include the impact from the transport and washing of laundry and the use of detergent products.	Inclure en plus de la production du linge d'impact pour le nettoyage du linge, son transport et l'utilisation des produits lessiviels
Include only transport provided by the hotel for its customers using a shuttle, usually for the last kms of travel or excursions during the stay.	Inclure uniquement le transport assuré par l'hôtel pour ses clients sous forme de navette, généralement observé sur les derniers km ou pour les sorties durant le séjour.
Include water and energy consumption on site related to accommodations and to external laundry services.	Inclure les consommations d'eau et d'énergie sur site, lié à l'hébergement, ainsi que celles liées à la blanchisserie externe
Refrigerant gases contained in heating and cooling production systems.	Gaz réfrigérants contenus dans les dispositifs de production de chaud et de froid

## Life cycle stages excluded from the scope

Scope item excluded	Comments
Catering other than breakfast	Service not included in the definition of an overnight stay or the scope. Paying service, open to external customers
Bar	The hotel bar is a paying service and is open to external customers. Only the mini-bar and the associated room service is included.
Seminars (weddings, corporate, etc.)	Activity other than accommodation
Sport and recreational activities	Activity other than accommodation, only facilities open to hotel customers hotel at no cost are included
Treatments, massage, beauty treatments, haircare activities	Service not included in the definition of an overnight stay or the scope. Paying service, open to external customers. All consumables related to spa treatments are excluded, as is all equipment devoted exclusively to spa treatments (ex: rain shower)
Staff housing	Excluded for consistency with organizations whose employees are housed off-premises
Customer transport	General principles for environmental communication on mass market goods (part 0): "Information related to the impacts of customer transportation to a product retail outlet is not directly integrated into the calculation of indicators, although it can be offset and made available to the consumer." Only transportation by hotel vehicles for travel to and from the hotel or during the stay are included
Employee transportation	General principles for environmental communication on mass market goods (part 0): "The following may be excluded: flows relating to employee transport between home and work and out-of-office missions."
Building construction and deconstruction  Decoration (paintings, carpets, decorative linens, light fixtures, etc.)	According to the ACCOR study, this item represents: <ul style="list-style-type: none"> <li>- 4.4% of the energy consumption</li> <li>- 4.5% of the impact on climate change</li> <li>- 1% of the water consumption</li> </ul> Moreover it is difficult for existing establishments to know the nature and quantity of materials used in their construction. For decoration, specific regulations exist for indoor air quality.

Scope item excluded	Comments
Waste generated by the hotel	<p>Several sources justify not accounting for the impact of waste:</p> <ul style="list-style-type: none"> <li>- Accor study, environmental footprint, waste management accounts for 2% of CO<sub>2</sub> emissions, as catering waste and waste 'brought' by customers is included. Excluding water for catering activities, waste management represents 0.05% of water consumption.</li> <li>- EVEA Tourisme experiment feedback for 36 hotels: less than 0.5% of impacts of the overnight stay on the CO<sub>2</sub> indicator for each establishment</li> </ul> <p>However, the impact of waste production (packaging, product materials) is accounted for.</p>
Furniture (bedding, offices, etc.)	<p>According to the ACCOR study, this item represents:</p> <ul style="list-style-type: none"> <li>- 1.9% of the energy consumption</li> <li>- 2% of the impact on climate change</li> <li>- 0.5% of the water consumption</li> </ul> <p>It should be noted that this item includes the electrical and electronic equipment in the ACCOR study. While this equipment is accounted for in this guide, the environmental weight of non-electronic furniture is even lower. Moreover, it is difficult for an operator to characterize and distinguish between various types of furniture.</p>
Leaflets and brochures	<p>General principles for environmental communication on mass market goods (part 0): "The following may be excluded: flows tied to services associated with a product or system, such as advertising, canvassing and marketing".</p> <p>This item has a negligible impact on the overall environmental balance for one night. In fact, 1 m<sup>2</sup> of paper represents less than 1% of greenhouse gas emissions.</p>
Reservation process	<p>The booking process, excluding materials and energy consumed on site, is excluded from the scope. The environmental impact is, in fact, considered relatively low compared to that of the overnight stay (see ADEME studies on the environmental impact of various electronic formats) and secondly, access to information and data from service providers is limited. Modelling of this phase may nonetheless be tested as part of projects on environmental communication in this sector.</p>



## 9. Consistency between primary, secondary and semi-specific data

Stage	Sub-stage	Primary data		Semi-specific data		Secondary data				
		Activity data, to be linked to database inventory data	Elementary flows and data not directly linked to the database	Activity data, to be linked to database inventory data	Elementary flows and data not directly linked to the database	Activity data, to be linked to database inventory data	Elementary flows and data not directly linked to the database	Generic inventory data		
								Processes	Technical representativeness	Geographical representativeness
Supply	EEE	List of electrical and electronic equipment			Lifespan of electrical and electronic equipment (see Annex D for values)			Electrical and electronic equipment	List in Annex D	
	Amenities	Description of amenities products available (from a list of sector-specific products proposed)			0% of products have a Type I environmental declaration for amenities		Amenities			
	Cleaning	Description of cleaning products available (from a list of sector-specific products proposed)		List of activity data in Annex A	0% of products have a Type I environmental declaration for cleaning products (buildings, pool and gardens)			Cleaning products	List in Annex A	
	Food	Description of products offered at breakfast (from a pre-set list)			0% of products have an "Organic Agriculture" (France or Europe) or "product from a High Environmental Value farm" label for food products			Breakfast products		

Stage	Sub-stage	Primary data		Semi-specific data		Secondary data				
		Activity data, to be linked to database inventory data	Elementary flows and data not directly linked to the database	Activity data, to be linked to database inventory data	Elementary flows and data not directly linked to the database	Activity data, to be linked to database inventory data	Elementary flows and data not directly linked to the database	Generic inventory data		
	Textiles	- Material, mass and manufacturing location, - Lifespan in number of washings for textiles		Laundry mass by linen type and by hotel category	0% of products have a Type I environmental declaration for textiles			Imported textile product (towelling and flat linens)	Towelling production Flat linens production	World (import)
	Transportation	- local purchase (yes / no)				Generic data available in Annex A		Modes of transportation	- Transport vehicles	National (France)
Energy		- Energy bills - % renewable electricity produced and not connected to the grid						Electricity Production of heat	- Electricity mix - 4 types of energy: coal, biomass, fuel oil and gas	National (France)
Water		Water bill						Water	Public water	National (France)
Air conditioning / Cooling			Quantity of refrigerant gases reintroduced over the year							
Customer transport	Shuttles	- Distance travelled - Type of vehicle						Modes of transportation	- Transport vehicles	National (France)
Laundry		-Quantity of laundry washed - Quantity of laundry subcontracted for washing		Laundry environmental ratios in Annex A				- Energy	- Electricity mix - Energy mix	- Nationale (France)
								- Water	- Public water	National (France)
								- Detergent products	- Average detergent product	National
								- Modes of transportation	- Transport vehicles	National (France)

## 10. Validation method for data and results

The validation method for data and the results of the environmental communication considered for the "tourist accommodation" category is the following:

Operators keep a file for each product reference no. containing primary (or specific) data. Validation consists in:

- ensuring the reproducibility of indicator calculations based on the file content
- looking for evidence of the information contained in the file, using sampling.

Information about creating the environmental information shall be accessible to everyone, in a free and transparent manner under appropriate conditions (i.e. report, website, etc.). This information relates to the hypotheses, data acquisition methods, the link between primary (or specific) and secondary (or generic) data, emissions factors, and the assessment's limitations.

There is no obligation to communicate the data necessary to calculate the impact indicators to the consumer.

However, this data shall still be kept for the inspection authorities, specifying and recording (within the limits of process confidentiality):

- the primary (or specific) data
- the secondary (or generic) data sources
- the default values adopted.

## 11. Factoring in delayed greenhouse gas emissions

Accounting for delayed greenhouse gas emissions is not relevant for this category of services.

## 12. References

- The environmental footprint of the ACCOR Group, December 2011
- New performance indicators for water management in tourism, Stefan Gossling et al. , 2015
- Data from experiments on environmental communication led by EVEA Tourisme
- Certification guide for the European Community eco-label, tourist accommodation services, AFNOR
- Energy use in hotels: Analysis of data from research studies, UNWTO, 2010
- Hotel Carbon Measurement Initiative Methodology, WTTC and ITP, 2011

## Annex A (informative)

### Granularity of Life cycle Inventories and semi-specific data values

Annex A presents all consumable products that may be present in hotels. The purpose of this Annex is to provide data on the nature and amount of consumables used in connection with the use of semi-specific data.

This data is from a study conducted in 2015 by EVEA Tourisme on a sample of 43 hotels in France.

Consumables category	Families	Process	Summarized technical representativeness	Format	Detailed technical representativeness	Geographical representativeness	Included in Indicator % Organic or Ecological	Product quantity Cat. 1 star	Product quantity Cat. 2 stars	Product quantity Cat. 3 stars	Product quantity Cat. 4 stars	Product quantity Cat. 5 stars
Breakfast foods	Bakery	Breads	Baguette or fresh bread	N/A	White bread representative of the French market Fresh product, paper bag packaging Conventional or organic product	France	Yes	61 g	61 g	142 g	183 g	200 g
Breakfast foods	Bakery	Breads	Baguette or frozen bread	N/A	White bread representative of the French market Frozen product, cardboard and plastic film packaging Conventional or organic product	France	Yes	61 g	61 g	142 g	183 g	200 g
Breakfast foods	Bakery	Breads	Fresh roll	Individual format	White bread representative of the French market Frozen product, cardboard and plastic film packaging Conventional or organic product	France	Yes	63 g	152 g	129 g	107 g	107 g
Breakfast foods	Bakery	Breads	Frozen roll	Individual format	White bread representative of the French market Frozen product, cardboard and plastic film packaging Conventional or organic product	France	Yes	63 g	152 g	129 g	107 g	107 g
Breakfast foods	Bakery	Sandwich bread	Sliced sandwich bread	N/A	White bread representative of the French market Frozen product, plastic film packaging Conventional or organic product	France	Yes	137 g	137 g	100 g	64 g	64 g
Breakfast foods	Bakery	Rusks	Individual rusks	Individual format	Industrial rusks representative of the French market Product in cardboard and plastic film (in packs of two) packaging Conventional product	France	Yes	2 g	2 g	2 g	2 g	2 g

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Breakfast foods	Bakery	Rusks	Large size rusks	Large format	Industrial rusks representative of the French market Product in cardboard and plastic film packaging Conventional product	France	Yes	2 g	2 g	2 g	2 g	2 g
Breakfast foods	Bakery	Biscuits	Individually-packed biscuits	Individual format	Industrial biscuit representative of the French market Product in cardboard and plastic film (in packs of two) packaging Conventional or organic product	France	Yes	7 g	7 g	3 g	3 g	3 g
Breakfast foods	Bakery	Biscuits	Large size biscuits	Large format	Industrial biscuit representative of the French market Product in cardboard and plastic film packaging Conventional or organic product	France	Yes	7 g	7 g	3 g	3 g	3 g
Breakfast foods	Bakery	Brioche	Brioche	N/A	Industrial brioche representative of the French market Product packaged in plastic bag Conventional product	France	Yes	20 g	31 g	35 g	40 g	45 g
Breakfast foods	Bakery	Crepes	Crepes	Individual format	Industrial crepe representative of the French market Product packaged in plastic bag Conventional product	France	Yes	9 g	9 g	50 g	27 g	27 g
Breakfast foods	Bakery	Cakes	Individually-packaged cakes	Individual format	Industrial plain cake representative of the French market Product packaged in individual plastic bag Conventional product	France	Yes	7 g	7 g	7 g	3 g	3 g
Breakfast foods	Bakery	Cakes	Large size cake	Large format	Industrial plain cake representative of the French market Product packaged in large plastic bag (400 g) Conventional product	France	Yes	8 g	8 g	14 g	34 g	6 g
Breakfast foods	Bakery	Pancakes	Pancakes	Individual format	Industrial pancakes representative of the French market Product packaged in plastic bag (in packs of 2) and 2 kg box Conventional product	France	Yes	5 g	5 g	5 g	5 g	5 g
Breakfast foods	Bakery	Pastries	Large pastries - fresh	Individual format	Croissant or chocolate croissant representative of the French market Fresh product, paper bag packaging Conventional or organic product	France	Yes	120 g	190 g	190 g	190 g	190 g
Breakfast foods	Bakery	Pastries	Large pastries - frozen	Individual format	Croissant or chocolate croissant representative of the French market Frozen product, cardboard packaging - 120 pieces Conventional or organic product	France	Yes	100 g	150 g	150 g	150 g	150 g

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Breakfast foods	Bakery	Pastries	Small pastries - fresh	Individual format	Croissant or chocolate croissant, 30 to 50 g per piece, representative of the French market Fresh product, paper bag packaging Conventional or organic product	France	Yes	100 g	150 g	150 g	150 g	150 g
Breakfast foods	Bakery	Pastries	Small pastries - frozen	Individual format	Croissant or chocolate croissant, 30 to 50 g per piece, representative of the French market Frozen product, cardboard packaging - 120 pieces Conventional or organic product	France	Yes	90 g	120 g	120 g	120 g	120 g
Breakfast foods	Cold cuts	Ham	Sliced ham	Large format	Cooked ham representative of the French market Fresh product packed in plastic wrap. Conventional product	France	Yes	11 g	11 g	35 g	35 g	35 g
Breakfast foods	Cold cuts	Eggs	Eggs to be hard boiled	N/A	Fresh eggs representative of the French market Product in cardboard or plastic packaging Conventional or organic product	France	Yes	6 g	8 g	8 g	8 g	8 g
Breakfast foods	Cold cuts	Eggs	Scrambled eggs	Large format	Scrambled egg preparation representative of the French market Fresh product packed in plastic wrap. Conventional product	France	Yes	6 g	8 g	8 g	8 g	8 g
Breakfast foods	Cold cuts	Eggs	Eggs for preparing pastries on site	N/A	Fresh eggs representative of the French market Product in cardboard or plastic packaging Conventional or organic product	France	Yes	30 g	55 g	55 g	92 g	95 g
Breakfast foods	Cold cuts	Streaky bacon	Streaky bacon	Large format	Streaky bacon representative of the French market Fresh product packed in plastic wrap. Conventional product	France	Yes	4 g	4 g	8 g	8 g	8 g
Breakfast foods	Cold cuts	Roasted chicken	Roasted chicken	Large format	Pre-cooked roasted chicken preparation to be reheated, representative of the French market Fresh product packaged in plastic bag Conventional product	France	Yes	5 g	5 g	5 g	5 g	9 g
Breakfast foods	Cold cuts	Salami	Salami	Large format	Salami representative of the French market Sliced, fresh product packed in plastic wrap. Conventional product	France	Yes	4 g	4 g	4 g	4 g	4 g
Breakfast foods	Cold cuts	Sausages	Sausages	Large format	Sausages representative of the French market Fresh product packed in plastic bag. Conventional product	France	Yes	5 g	7 g	12 g	12 g	16 g

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Breakfast foods	Various food	Cereals	Individual cereal packs	Individual format	Cereals representative of the French market Conventional or organic product Packaged in individual cardboard boxes and plastic bags	France	Yes	3 g	3 g	5 g	4 g	4 g
Breakfast foods	Various food	Cereals	Large format cereals	Large format	Cereals representative of the French market Conventional or organic product Packaged in 1 kg cardboard box and plastic bag	France	Yes	6 g	11 g	26 g	5 g	8 g
Breakfast foods	Various food	Jams	Jams - individual plastic jar	Individual format	Fruit-based jam or jelly, representative of the French market Conventional or organic product Packaged in individual plastic jars	France	Yes	19 g	32 g	38 g	38 g	38 g
Breakfast foods	Various food	Jams	Jams - individual glass jar	Individual format	Fruit-based jam or jelly, representative of the French market Conventional or organic product Packaged in individual glass jars	France	Yes	19 g	32 g	38 g	38 g	38 g
Breakfast foods	Various food	Jams	Large format jams	Large format	Fruit-based jam or jelly, representative of the French market Conventional or organic product Packaged in large format glass jars	France	Yes	19 g	33 g	36 g	16 g	16 g
Breakfast foods	Various food	Crumble/ pie	Sweet pie	Large format	Fruit pie, representative of the French market Packaged in large format plastic container	France	Yes	4 g	4 g	4 g	4 g	4 g
Breakfast foods	Various food	Flour	Flour for preparing pastries on site	Large format	Wheat flour, representative of the French market Conventional or organic product Packaged in 5 kg bag	France	Yes	11 g	11 g	11 g	20 g	30 g
Breakfast foods	Various food	Sugar	Sugar for preparing pastries on site	Large format	Granulated sugar, representative of the French market Conventional or organic product Packaged in 5 kg bag	France	Yes	11 g	11 g	11 g	20 g	30 g
Breakfast foods	Various food	Flour	Flour for bread prepared on site	Large format	Wheat flour, representative of the French market Conventional or organic product Packaged in 5 kg bag	France	Yes	50 g	60 g	89 g	89 g	89 g
Breakfast foods	Various food	Yeast	Yeast for bread and brioche prepared on site	Large format	Yeast for bread and pastries, representative of the French market Packaged in 5 kg bag	France	Yes	10 g	10 g	15 g	15 g	15 g

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Breakfast foods	Various food	Honey	Single serving honey	Individual format	Honey representative of the French market Conventional or organic product Packaged in glass or plastic jar	France	Yes	5 g	5 g	5 g	5 g	5 g
Breakfast foods	Various food	Honey	Large format honey	Large format	Honey representative of the French market Conventional or organic product Packaged in large format glass jar	France	Yes	2 g	2 g	2 g	2 g	2 g
Breakfast foods	Various food	Chocolate mousse	Chocolate mousse	Individual format	Chocolate mousse, representative of French market Packaged in individual plastic tubs	France	Yes	4 g	4 g	8 g	8 g	8 g
Breakfast foods	Various food	Chocolate spread	Single-serving chocolate spread	Individual format	Chocolate spread, representative of French market Packaged in individual plastic tubs	France	Yes	4 g	18 g	20 g	21 g	21 g
Breakfast foods	Various food	Chocolate spread	Large format chocolate spread	Large format	Chocolate spread, representative of French market Packaged in large format glass jar	France	Yes	1 g	1 g	3 g	5 g	5 g
Breakfast foods	Various food	Syrups (maple, agave, etc.)	Maple syrup	Large format	Maple syrup, representative of the French market Packaged in large format glass bottle	France	Yes	1 g	1 g	1 g	1 g	1 g
Breakfast foods	Fruit	Fruit compote	Individual fruit compote	Individual format	Fruit compote, representative of the French market Conventional or organic product Packaged in aluminium or plastic tubs	France	Yes	15 g	15 g	20 g	20 g	20 g
Breakfast foods	Fruit	Fruit compote	Large format compote	Large format	Fruit compote, representative of the French market Conventional or organic product Packaged in glass jar or can	France	Yes	7 g	7 g	7 g	16 g	16 g
Breakfast foods	Fruit	Fresh fruit	Apple for apple sauce made on site	N/A	Apple representative of French market Packaged in small crate	France	Yes	45 g	45 g	45 g	45 g	45 g
Breakfast foods	Fruit	Fresh fruit	Orange for fresh-squeezed juice	N/A	Orange representative of French market Packaged in small crate	France	Yes	150 g	244 g	306 g	306 g	306 g
Breakfast foods	Fruit	Fresh fruit	Self-serve fruit	N/A	Mix of fresh fruit (35% citrus, 25% bananas, 12% kiwi, 12% apples, 6% pears, 5% grapes, 5% nectarines and peaches) representative of French market Packaged in small wood crate	France	Yes	22 g	103 g	137 g	137 g	137 g



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Breakfast foods	Fruit	Fresh fruit	Fresh fruit for fruit salad prepared on site	N/A	Mix of fresh fruit (35% citrus, 25% bananas, 12% kiwi, 12% apples, 6% pears, 5% grapes, 5% nectarines and peaches) representative of French market Packaged in small wood crate	France	Yes	103 g	103 g	137 g	137 g	137 g
Breakfast foods	Fruit	Dried fruit	Dried fruit	Large format	Mixed dried fruit (apricots, prunes, figs and dates), representative of the French market Packaged in plastic bag	France	Yes	4 g	4 g	25 g	25 g	25 g
Breakfast foods	Fruit	Nuts	Nuts	Large format	Mixed nuts representative of the French market Packaged in plastic bag	France	Yes	5 g	5 g	5 g	5 g	5 g
Breakfast foods	Fruit	Fruit in syrup	Fruit in syrup	Large format	Fruit in syrup, representative of the French market Packaged in cans	France	Yes	21 g	21 g	44 g	44 g	44 g
Breakfast foods	Fruit	Frozen fruit	Frozen fruit	Large format	Frozen fruit for food preparations, representative of the French market Packaged in plastic bag	France	Yes	1 g	1 g	1 g	1 g	4 g
Breakfast foods	Fruit	Fruit salad	Fruit salad	Large format	Prepared fruit salad, representative of the French market Packaged in 3 kg plastic tub	France	Yes	105 g	105 g	57 g	37 g	17 g
Breakfast foods	Teas and coffees	Chocolate	Powdered chocolate	N/A	Powdered chocolate, representative of the French market Packaged in individual packets Conventional or organic product	France	Yes	9 g	13 g	18 g	18 g	18 g
Breakfast foods	Teas and coffees	Chocolate	Chocolate beverage	N/A	Ready-to-drink chocolate beverage, representative of the French market Packaged in cartons	France	Yes	81 ml	81 ml	81 ml	81 ml	81 ml
Breakfast foods	Dairy products	Butter	Single-serving butter	Individual format	Butter representative of the French market Packaged under plastic wrap (10 g) Conventional or organic product	France	Yes	9 g	9 g	11 g	17 g	26 g
Breakfast foods	Dairy products	Butter	Large format butter	Large format	Butter representative of the French market Packaged under plastic wrap (500 g) Conventional or organic product	France	Yes	7 g	7 g	10 g	12 g	15 g
Breakfast foods	Dairy products	Butter	Large format butter for food prepared on site	Large format	Butter representative of the French market Packaged under plastic wrap (500 g) Conventional or organic product	France	Yes	15 g	20 g	30 g	35 g	40 g

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Breakfast foods	Dairy products	Soft curd cheese	Single-serving soft curd cheese	Individual format	Soft curd cheese representative of the French market Packaged in individual plastic jars Conventional or organic product	France	Yes	3 g	4 g	3 g	3 g	3 g
Breakfast foods	Dairy products	Soft curd cheese	Large format soft curd cheese	Large format	Soft curd cheese representative of the French market Packaged in 5 kg plastic tub Conventional or organic product	France	Yes	30 g	30 g	24 g	24 g	14 g
Breakfast foods	Dairy products	Hard cheese	Single-serving hard cheese	Individual format	Hard cheese representative of the French market Packaged individually in plastic film Conventional or organic product	France	Yes	3 g	3 g	9 g	17 g	20 g
Breakfast foods	Dairy products	Hard cheese	Large format hard cheese	Large format	Hard cheese representative of the French market Large format packaging Conventional or organic product	France	Yes	20 g	20 g	12 g	17 g	20 g
Breakfast foods	Dairy products	Soft cheese	Single-serving soft cheese	Individual format	Soft cheese representative of the French market Packaged individually in plastic film Conventional or organic product	France	Yes	4 g	4 g	9 g	17 g	20 g
Breakfast foods	Dairy products	Soft cheese	Large format soft cheese	Large format	Soft cheese representative of the French market Large format packaging Conventional or organic product	France	Yes	10 g	10 g	12 g	17 g	20 g
Breakfast foods	Dairy products	Milk	Milk	Large format	Cow's milk, representative of the French market Packaged in 1 l cardboard cartons Conventional or organic product	France	Yes	100 g	122 g	147 g	142 g	142 g
Breakfast foods	Dairy products	Milk	Milk for food preparation on site (pastries, yoghurt, bread, etc.)	Large format	Cow's milk, representative of the French market Packaged in 1 l cardboard cartons Conventional or organic product	France	Yes	30 ml	40 ml	50 ml	50 ml	50 ml
Breakfast foods	Dairy products	Yoghurt	Yoghurt	Individual format	Yoghurt representative of the French market Packaged in individual jars (plastic, terracotta or glass) Conventional or organic product	France	Yes	213 g	213 g	240 g	265 g	265 g
Breakfast foods	Teas and coffees	Coffee	Coffee	Individual format	Ground coffee in individual capsules, representative of the French market Organic or conventional product	France	Yes	5 g	5 g	5 g	5 g	5 g

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Breakfast foods	Teas and coffees	Coffee	Instant coffee	Individual format	Freeze-dried coffee in individual plastic packets, representative of the French market Organic or conventional product	France	Yes	1 g	1 g	1 g	1 g	1 g
Breakfast foods	Teas and coffees	Coffee	Coffee	Large format	Ground coffee packaged in 250 g, 500 g, 1 kg or 5 kg packages, representative of the French market Organic or conventional product	France	Yes	3 g	15 g	24 g	23 g	24 g
Breakfast foods	Teas and coffees	Sugar	Sugar	Individual format	Granulated sugar, bulk or cubes, representative of the French market Packaged in individual papers and cardboard Organic or conventional product	France	Yes	3 g	7 g	13 g	7 g	10 g
Breakfast foods	Teas and coffees	Artificial sweetener	Artificial sweetener	Individual format	Artificial sweetener, representative of the French market Packaged in paper in 0.5 g doses in a cardboard box	France	Yes	1 g	1 g	1 g	1 g	1 g
Breakfast foods	Teas and coffees	Tea	Teabags	Individual format	Tea in bags, representative of the French market Packaged in individual paper and plastic film packets, in a cardboard box Organic or conventional product	France	Yes	1 g	1 g	1 g	1 g	1 g
Breakfast foods	Teas and coffees	Tea	Loose tea	Large format	Gunpowder tea, representative of the French market Packaged in a metal box or plasticized paper packets Organic or conventional product	France	Yes	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Matches	Matches	Individual format	Matches in small cardboard box, representative of the French market	France	No	2 g	2 g	2 g	2 g	2 g
Amenities	Various amenities	Bandage	Bandage	Individual format	Plastic bandage, representative of the French market	France	No	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Mixer	Mixer	Individual format	Plastic or wood mixer for mixing liquids, representative of the French market	France	No	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Candies	Candies	Individual format	Candies in individual plastic packets, representative of the French market Conventional product	France	Yes	3 g	3 g	5 g	6 g	6 g
Amenities	Welcome tray	Chocolate	Candies	Individual format	Chocolates in individual plastic packets, representative of the French market Conventional product	France	Yes	3 g	3 g	7 g	6 g	7 g

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Amenities	Various amenities	Shower cap	Shower cap	Individual format	Plastic shower cap, representative of the French market	France	No	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Slippers	Slippers	Individual format	Cloth slippers, representative of the French market Packaged in plastic bag	France	No	4 g	4 g	4 g	26 g	30 g
Amenities	Various amenities	Cotton swabs	Cotton swabs	Individual format	3-packs of cotton swabs, representative of the French market Packaged in plastic bag	France	No	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Packaged pencil	Pencil	Large format	Wood pencil, representative of the French market Packaged in plastic film	France	No	1 g	1 g	2 g	2 g	2 g
Amenities	Various amenities	Paper coaster	Paper coaster	N/A	Round paper coaster, representative of the French market	France	No	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Cotton pads	Cotton pads	Individual format	Cotton pads, representative of the French market Packaged in individual plastic bags of two	France	Yes	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Shoe sponge	Shoe sponge	Individual format	Shoe polish-soaked PU foam sponge, representative of the French market Packaged in individual plastic packets	France	Yes	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Plastic cup	Plastic cup	Individual format	Clear polystyrene cup, representative of the French market Individually packaged in plastic film	France	No	12 g	12 g	12 g	12 g	12 g
Amenities	Various amenities	Paper cup	Paper cup	Individual format	Paper cup, representative of the French market Individually packaged in plastic film	France	No	20 g	20 g	20 g	20 g	20 g
Amenities	Various amenities	Plant sugar cup	Plant sugar cup	Individual format	Sugar cane-derived cup, representative of the French market Individually packaged in plastic film	France	No	27 g	27 g	27 g	27 g	27 g

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Amenities	Various amenities	Nail file	Nail file	Individual format	Nail file, representative of the French market Individually packaged in paper bag	France	No	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Tissues	Individual-pack tissues	Individual format	Cellulose tissues, representative of the French market Individually packaged in plastic bags by three	France	No	5 g	5 g	3 g	g	g
Amenities	Various amenities	Tissues	Box tissues	Large format	Cellulose tissues, representative of the French market Packaged in cardboard box	France	No	5 g	5 g	11 g	13 g	13 g
Amenities	Various amenities	Comb	Comb	Individual format	Plastic comb, representative of the French market Packaged in paper bag	France	No	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Stuffed toy	Stuffed toy	Individual format	Stuffed toy representative of French market Packaged in plastic bag	France	Yes	1 g	1 g	1 g	1 g	1 g
Amenities	Various amenities	Pen	Pen	Large format	Plastic pen, representative of the French market Packaged in cardboard box	France	No	1 g	1 g	1 g	3 g	5 g
Amenities	Bodycare products	Shower gel	Shower gel	Individual format	Shower gel representative of the French market Packaged in individual 8 ml plastic bottles Conventional or organic product	France	Yes	15 ml	20 ml	22 ml	22 ml	25 ml
Amenities	Bodycare products	Shower gel	Shower gel	Large format	Shower gel representative of the French market Packaged in 300 ml plastic pump bottles Conventional or organic product	France	Yes	15 ml	21 ml	22 ml	13 ml	12 ml
Amenities	Bodycare products	Shampoo	Shampoo	Individual format	Shampoo representative of the French market Packaged in individual 8 ml plastic bottles Conventional or organic product	France	Yes	15 ml	22 ml	48 ml	49 ml	36 ml
Amenities	Bodycare products	Shampoo	Shampoo	Large format	Shampoo representative of the French market Packaged in 300 ml plastic pump bottles Conventional or organic product	France	Yes	15 ml	21 ml	22 ml	22 ml	25 ml

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Amenities	Bodycare products	Shampoo/shower gel	Shampoo/shower gel	Individual format	Shampoo/shower gel representative of the French market Packaged in individual 8 ml plastic bottles Conventional or organic product	France	Yes	15 ml	22 ml	48 ml	49 ml	49 ml
Amenities	Bodycare products	Shampoo/shower gel	Shampoo/shower gel	Large format	Shampoo/shower gel representative of the French market Packaged in 300 ml plastic pump bottles Conventional or organic product	France	Yes	15 ml	21 ml	22 ml	22 ml	22 ml
Amenities	Bodycare products	Body lotion	Body lotion	Individual format	Body lotion representative of the French market Packaged in 30 ml plastic bottles	France	Yes	5 ml	5 ml	5 ml	6 ml	10 ml
Amenities	Bodycare products	Perfume	Perfume	Individual format	Perfume representative of French market Packaged in 50 ml glass bottles	France	No	8 ml	8 ml	8 ml	8 ml	8 ml
Amenities	Bodycare products	Liquid soap	Liquid soap	Individual format	Liquid soap representative of the French market Packaged in individual bags Conventional or organic or Ecolabel product	France	Yes	5 ml	5 ml	5 ml	5 ml	5 ml
Amenities	Bodycare products	Liquid soap	Large format liquid soap	Large format	Liquid soap representative of the French market Packaged in 5 L plastic containers Conventional or organic or Ecolabel product	France	Yes	8 ml	8 ml	15 ml	16 ml	16 ml
Amenities	Bodycare products	Bar soap	Individual bar soap	Individual format	Bar soap representative of the French market Packaged in plastic bags or individual boxes Conventional or organic or Ecolabel product	France	Yes	20 g	20 g	20 g	20 g	43 g
Amenities	Bodycare products	Bubble bath	Bubble bath	Individual format	Liquid bubble bath representative of the French market Packaged in 150 ml plastic bottles	France	Yes	5 ml	5 ml	5 ml	5 ml	5 ml
Amenities	Kits	Sewing kit	Sewing kit	Individual format	Sewing kit (1 needle, 1 safety pin, 5 spools black thread, 2 buttons), representative of the French market Packaged in plastic film	France	No	2 g	2 g	4 g	4 g	4 g
Amenities	Kits	Dental care kit	Dental care kit	Individual format	Dental care kit (toothbrush, mini tube of toothpaste), representative of the French market Packaged in plastic film and cardboard box	France	Yes	1 g	1 g	1 g	1 g	1 g

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Amenities	Kits	Shaving kit	Shaving kit	Individual format	Shaving kit (1 shaver, one tube shaving cream), representative of the French market Packaged in plastic film and cardboard box	France	Yes	1 g	1 g	1 g	1 g	1 g
Amenities	Kits	Skincare kit (2 cotton swabs/2 cotton pads)	Skincare kit (2 cotton swabs/2 cotton pads)	Individual format	Skincare kit (2 cotton swabs/2 cotton pads), representative of the French market Packaged in plastic film and cardboard box	France	No	1 g	1 g	1 g	1 g	1 g
Amenities	Teas and coffees	Coffee	Coffee	Individual format	Ground coffee in individual capsules, representative of the French market Organic or conventional product	France	Yes	5 g	10 g	10 g	15 g	17 g
Swimming pool amenities	Various amenities	Pool shoes	Pool shoes	Individual format	EVA pool shoes representative of the French market Packaged in plastic bag	France	No	15 g	20 g	25 g	35 g	43 g
Cleaning products	Air freshener	Aerosol air freshener	Aerosol air freshener	N/A	Aerosol air freshener representative of the French market Packaged in spray can with propellant	France	Yes	1 ml	1 ml	1 ml	1 ml	1 ml
Cleaning products	Air freshener	Liquid air freshener	Liquid air freshener	N/A	Liquid air freshener representative of the French market Packaged in plastic bottle with wick Conventional product	France	Yes	2 ml	3 ml	4 ml	5 ml	5 ml
Cleaning products	Surface detergent	Isopropyl alcohol	Isopropyl alcohol	Large format	Isopropyl alcohol (mixture of denatured ethanol CH <sub>3</sub> -CH <sub>2</sub> -OH with methanol CH <sub>3</sub> OH) representative of the French market Packaged in 1 L plastic bottle	France	Yes	1 ml	1 ml	1 ml	1 ml	1 ml
Cleaning products	Surface detergent	Degreaser	Degreaser - 5 L container	Large format	Degreaser representative of the French market Packaged in 5 L plastic bottle Conventional or Ecolabel product	France	Yes	6 ml	8 ml	8 ml	8 ml	8 ml
Cleaning products	Surface detergent	Degreaser	Spray degreaser - 750 ml	N/A	Degreasing cleanser representative of the French market Packaged in 750 ml plastic spray bottles Conventional or Ecolabel product	France	Yes	6 ml	8 ml	8 ml	8 ml	8 ml

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Cleaning products	Surface detergent	Degreaser	Degreaser wipes	Individual format	Degreasing cleanser representative of the French market Packaged as fabric wipe Conventional or Ecolabel product	France	Yes	1 ml	1 ml	1 ml	1 ml	1 ml
Cleaning products	Surface detergent	Disinfectant	Disinfectant	Large format	Non-concentrated disinfectant powder, representative of the French market Packaged in 5 L plastic containers	France	Yes	4 ml	4 ml	7 ml	5 ml	5 ml
Cleaning products	Surface detergent	Disinfectant	Concentrated disinfectant	Large format	Concentrated disinfectant powder, representative of the French market Packaged in 5 L plastic containers	France	Yes	1 ml	1.5 ml	2.0 ml	2.0 ml	2 ml
Cleaning products	Surface detergent	Bathroom detergent	Toilet cleaner gel	N/A	Toilet cleaner gel representative of the French market Packaged in 750 ml plastic bottles Conventional or Ecolabel product	France	Yes	19 ml	19 ml	19 ml	19 ml	19 ml
Cleaning products	Surface detergent	Multi-purpose cleanser	Cleaning product - 5 L container	Large format	Multi-purpose cleanser representative of the French market Packaged in 5 L plastic containers Conventional or Ecolabel product	France	Yes	3 ml	9 ml	9 ml	9 ml	9 ml
Cleaning products	Surface detergent	Multi-purpose cleanser	Concentrated cleaning product - 5 L container	Large format	Multi-purpose, concentrated cleanser representative of the French market Packaged in 5 L plastic containers Conventional or Ecolabel product	France	Yes	2 ml	2 ml	2 ml	2 ml	2 ml
Cleaning products	Surface detergent	Multi-purpose cleanser	Cleaning product - 750 ml bottle	N/A	Multi-purpose cleanser representative of the French market Packaged in 750 ml plastic spray bottles Conventional or Ecolabel product	France	Yes	3 ml	9 ml	9 ml	9 ml	9 ml
Cleaning products	Surface detergent	Floor cleaner	Floor cleaner - 5 L container	Large format	Floor cleaner representative of the French market Packaged in 5 L plastic containers Conventional or Ecolabel product	France	Yes	3 ml	11 ml	9 ml	7 ml	7 ml
Cleaning products	Surface detergent	Floor cleaner	Concentrated floor cleaner - 5 L container	Large format	Concentrated floor cleaner representative of the French market Packaged in 5 L plastic containers Conventional or Ecolabel product	France	Yes	2 ml	3 ml	2 ml	2 ml	2 ml
Cleaning products	Surface detergent	Glass cleaner	Glass cleaner - 5 L container	Large format	Glass cleaner representative of the French market Packaged in 5 L plastic containers Conventional or Ecolabel product	France	Yes	10 ml	10 ml	17 ml	16 ml	10 ml



Consumables category	Families	Process	Summarized technical representativeness	Format	Detailed technical representativeness	Geographical representativeness	Included in Indicator % Organic or Ecological	Product quantity Cat. 1 star	Product quantity Cat. 2 stars	Product quantity Cat. 3 stars	Product quantity Cat. 4 stars	Product quantity Cat. 5 stars
Cleaning products	Surface detergent	Bleach-based products	Bleach - 1 L container	Large format	Bleach product (sodium hypochlorite) representative of the French market Packaged in a 5 L container	France	Yes	7 ml	7 ml	5 ml	5 ml	3 ml
Cleaning products	Surface detergent	Bleach-based products	Bleach - 5 L container	Large format	Bleach product (sodium hypochlorite) representative of the French market Packaged in a 1 L container	France	Yes	7 ml	7 ml	5 ml	5 ml	3 ml
Cleaning products	Surface detergent	Bleach-based products	Plastic bleach recharge	Large format	Bleach product (sodium hypochlorite) representative of the French market Packaged in 250 ml plastic doses	France	Yes	5 ml	5 ml	4 ml	4 ml	3 ml
Cleaning products	Surface detergent	Bleach-based products	Bleach tablets	Individual format	Sodium hypochlorite tablets representative of the French market Packaged in plastic bottles x 150	France	Yes	3 g	3 g	3 g	3 g	3 g
Cleaning products	Laundry detergent	Liquid fabric softener	Liquid fabric softener in bottles	Large format	Fabric softener representative of the French market Packaged in 1 L plastic bottles Conventional or Ecolabel product	France	Yes	6 ml	6 ml	6 ml	6 ml	6 ml
Cleaning products	Laundry detergent	Liquid fabric softener	Concentrated liquid fabric softener in bottles	Large format	Concentrated liquid fabric softener representative of the French market Packaged in 1 L plastic bottles Conventional or Ecolabel product	France	Yes	2 ml	2 ml	2 ml	2 ml	2 ml
Cleaning products	Laundry detergent	Liquid fabric softener	Concentrated liquid fabric softener - refill	Large format	Concentrated liquid fabric softener representative of the French market Packaged in 250 ml plastic doses Conventional or Ecolabel product	France	Yes	2 ml	2 ml	2 ml	2 ml	2 ml
Cleaning products	Laundry detergent	Whitening agent	Powdered whitening agent	Large format	Laundry whitening agent representative of the French market Packaged in 25 kg bag	France	Yes	2 g	2 g	2 g	2 g	2 g
Cleaning products	Laundry detergent	Fabric softener	Liquid fabric softener	Large format	Liquid fabric softener representative of the French market Packaged in 5 L container Conventional or Ecolabel product	France	Yes	4 g	4 g	4 g	4 g	4 g
Cleaning products	Laundry detergent	Liquid stain remover	Liquid stain remover	Large format	Liquid stain remover representative of the French market Packaged in 1 L plastic bottle Conventional or Ecolabel product	France	Yes	3 ml	6 ml	8 ml	8 ml	6 ml

Consumables category	Families	Process	Summarized technical representativeness	Format	Detailed technical representativeness	Geographical representativeness	Included in Indicator % Organic or Ecological	Product quantity Cat. 1 star	Product quantity Cat. 2 stars	Product quantity Cat. 3 stars	Product quantity Cat. 4 stars	Product quantity Cat. 5 stars
Cleaning products	Laundry detergent	Liquid laundry detergent	Small size liquid laundry detergent	Small size	Liquid laundry detergent representative of the French market Packaged in 20 L plastic bottle Conventional or Ecolabel product	France	Yes	10 ml	15 ml	19 ml	19 ml	25 ml
Cleaning products	Laundry detergent	Liquid laundry detergent	Large format liquid laundry detergent	Large format	Liquid laundry detergent representative of the French market Packaged in 3 L plastic bottle Conventional or Ecolabel product	France	Yes	10 ml	15 ml	19 ml	19 ml	25 ml
Cleaning products	Laundry detergent	Powdered laundry detergent	Large format powdered laundry detergent	Large format	Powdered laundry detergent representative of the French market Packaged in 20 kg big bags Conventional or Ecolabel product	France	Yes	13 g	15 g	15 g	13 g	15 g
Cleaning products	Laundry detergent	Powdered laundry detergent	Small size powdered laundry detergent	Small size	Powdered laundry detergent representative of the French market Packaged in 5 kg boxes Conventional or Ecolabel product	France	Yes	13 g	15 g	15 g	13 g	15 g
Cleaning products	Various cleaning products	Drain cleaner	Product to unclog pipes	Large format	Product to unclog pipes representative of the French market Packaged in large format plastic bottle	France	Yes	1 ml	1 ml	1 ml	2 ml	2 ml
Cleaning products	Various cleaning products	Liquid descaling product	Liquid descaling product	Large format	Product for descaling toilets representative of the French market Packaged in large format plastic bottle	France	Yes	1 ml	1 ml	10 ml	13 ml	13 ml
Cleaning products	Various cleaning products	Powdered descaling product	Powdered descaling product	Large format	Powdered product for descaling toilets representative of the French market Packaged in large format plastic bottle	France	Yes	1 g	1 g	1 g	2 g	2 g
Cleaning products	Various cleaning products	Oil for hardwood floors	Oil for hardwood floors	Large format	Oil for hardwood floors, representative of the French market Packaged in metal bottles	France	Yes	1 ml	1 ml	1 ml	3 ml	3 ml
Cleaning products	Various cleaning products	Paper bags	Paper bin liner	N/A	Paper bin liner, representative of the French market Packaged in cardboard box	France	No	2 g	2 g	3 g	4 g	6 g
Cleaning products	Various cleaning products	Plastic bin liners	Plastic bin liners	N/A	Plastic bin liner, representative of the French market Packaged in cardboard box	France	No	24 g	24 g	44 g	47 g	21 g

Consumables category	Families	Process	Summarized technical representativeness	Format	Detailed technical representativeness	Geographical representativeness	Included in Indicator % Organic or Ecological	Product quantity Cat. 1 star	Product quantity Cat. 2 stars	Product quantity Cat. 3 stars	Product quantity Cat. 4 stars	Product quantity Cat. 5 stars
Cleaning products	Various cleaning products	Softening salts	Softening salts	Large format	Softening salts, representative of the French market Packaged in plastic container	France	Yes	7 g	7 g	7 g	7 g	7 g
Cleaning products	Various cleaning products	Regenerating salt	Regenerating salt	Large format	Softening salts, representative of the French market Packaged in plastic container	France	Yes	2 ml	2 ml	2 ml	2 ml	2 ml
Cleaning products	Various cleaning products	Vinegar	White vinegar	White vinegar	White vinegar representative of the French market Packaged in 1 L plastic bottle	France	Yes	20 ml	38 ml	59 ml	59 ml	59 ml
Cleaning products	PPE	Gloves	Single-use gloves	Large format	Single-use vinyl gloves, representative of the French market Packaged in cardboard boxes of 100	France	No	1 g	1 g	2 g	2 g	2 g
Cleaning products	PPE	Gloves	Reusable cleaning gloves	Individual format	Reusable latex gloves, representative of the French market Packaged in plastic film by 3	France	No	1 g	1 g	1 g	1 g	1 g
Cleaning products	Paper	Roll hand towels	Roll hand towels	Large format	Cloth towel roll, rented, representative of the French market	France	No	14 g	14 g	21 g	21 g	21 g
Cleaning products	Paper	Roll hand towels	Roll hand towels	Large format	Cellulose fibre paper towels, representative of the French market Conventional or Ecolabel product	France	No	2 g	2 g	2 g	2 g	2 g
Cleaning products	Paper	Tissues	Tissues	Large format	Cellulose fibre tissues, representative of the French market Packaged in cardboard box Conventional or Ecolabel product	France	No	2 g	5 g	11 g	13 g	15 g
Cleaning products	Paper	Paper tablecloth	Paper tablecloth	Large format	Paper tablecloth, representative of the French market Packaged in cardboard box	France	No	272 g	272 g	272 g	272 g	272 g
Cleaning products	Paper	Toilet tissue	Toilet tissue	N/A	Cellulose fibre tissues, representative of the French market Packaged in plastic film Conventional or Ecolabel product	France	No	115 g	115 g	215 g	262 g	300 g
Cleaning products	Paper	Paper serviettes	Paper serviettes	N/A	Cellulose fibre serviettes, representative of the French market Packaged in plastic film	France	No	16 g	16 g	16 g	48 g	48 g

Consumables category	Families	Process	Summarized technical representativeness	Format	Detailed technical representativeness	Geographical representativeness	Included in Indicator % Organic or Ecological	Product quantity Cat. 1 star	Product quantity Cat. 2 stars	Product quantity Cat. 3 stars	Product quantity Cat. 4 stars	Product quantity Cat. 5 stars
Cleaning products	Dishwashing product	Rinsing liquid	Rinsing liquid	Large format	Liquid rinsing agent for dishwasher, representative of the French market Packaged in 5 L plastic bottle	France	Yes	3 ml	3 ml	3 ml	6 ml	6 ml
Cleaning products	Dishwashing product	Dishwashing powder	Dishwashing powder	Large format	Dishwashing powder representative of the French market Packaged in boxes, loose or tablets Conventional or Ecolabel product	France	Yes	1 g	1 g	2 g	5 g	5 g
Cleaning products	Dishwashing product	Dishwashing liquid	Dishwashing liquid	Large format	Non-concentrated dishwashing liquid, representative of the French market Packaged in 5 L plastic bottle Conventional or Ecolabel product	France	Yes	9 ml	9 ml	9 ml	9 ml	9 ml
Cleaning products	Dishwashing product	Dishwashing liquid	Dishwashing liquid	Individual format	Non-concentrated dishwashing liquid for hand washing, representative of the French market Packaged in 750 ml plastic bottle Conventional or Ecolabel product	France	Yes	13 ml	17 ml	20 ml	30 ml	30 ml
Cleaning products	Soap	Liquid hand soap	Liquid hand soap	Large format	Liquid soap representative of the French market Packaged in 5 L plastic containers Conventional or Ecolabel product	France	Yes	5 ml	10 ml	4 ml	5 ml	11 ml
Cleaning products	Soap	Liquid black soap	Sugar soap	Large format	Liquid sugar soap representative of the French market Packaged in 1 L plastic containers Conventional or Ecolabel product	France	Yes	2 g	2 g	2 g	2 g	2 g
Swimming pool cleaning products	Surface detergent	Disinfectant	Disinfectant	Large format	Non-concentrated disinfectant powder, representative of the French market Packaged in 5 L plastic containers	France	Yes	20 ml	20 ml	20 ml	20 ml	20 ml
Swimming pool cleaning products	Surface detergent	Disinfectant	Concentrated disinfectant	Large format	Concentrated disinfectant powder, representative of the French market Packaged in 5 L plastic containers	France	Yes	5 ml	5 ml	5 ml	5 ml	5 ml
Swimming pool cleaning products	Swimming pool hygiene	Flocculant	Flocculant	Large format	Aluminium polychlorosulphate flocculant solution representative of the French market Packaged in 20 L containers		Yes	36 ml	36 ml	36 ml	36 ml	36 ml
Swimming pool cleaning products	Swimming pool disinfection	Chlorine	Chlorine	Large format	Sodium hypochlorite solution (15%) representative of the French market Packaged in 20 L containers		Yes	120 ml	120 ml	120 ml	120 ml	120 ml

Consumables category	Families	Process	Summarized technical representativeness	Format	Detailed technical representativeness	Geographical representativeness	Included in Indicator % Organic or Ecological	Product quantity Cat. 1 star	Product quantity Cat. 2 stars	Product quantity Cat. 3 stars	Product quantity Cat. 4 stars	Product quantity Cat. 5 stars
Room Service and Mini-bar	Mini-bar	Alcohol	Hard liquor	Individual format	Hard liquor representative of the French market Packaged in mini glass bottles	France	Yes	1 ml	1 ml	3 ml	3 ml	3 ml
Room Service and Mini-bar	Mini-bar	Beers	Beers	Individual format	Beer representative of the French market Packaged in aluminium or glass cans Organic or conventional product	France	Yes	11 ml	11 ml	26 ml	30 ml	30 ml
Room Service and Mini-bar	Mini-bar	Savoury snacks	Savoury snacks	Individual format	Savoury snacks, representative of the French market Packaged in small plastic bags	France	Yes	2 g	2 g	2 g	2 g	2 g
Room Service and Mini-bar	Mini-bar	Sweet snacks	Sweet snacks	Individual format	Sweet snacks, representative of the French market Packaged in small plastic bags	France	Yes	3 g	3 g	3 g	3 g	3 g
Room Service and Mini-bar	Mini-bar	Non-alcoholic beverages and sodas	Sodas and fruit juices	Individual format	Soda or fruit juice, representative of the French market Packaged in aluminium or glass cans Conventional or organic product	France	Yes	8 ml	8 ml	144 ml	144 ml	144 ml
Room Service and Mini-bar	Mini-bar	Champagne	Champagne	Individual format	Champagne, representative of the French market Packaged in 375 ml glass bottles Conventional or organic product	France	Yes	3 ml	3 ml	3 ml	13 ml	20 ml
Room Service and Mini-bar	Mini-bar	Water	Mineral water	Individual format	Mineral water, representative of the French market Packaged in small plastic bottles (50 cl)	France	No	140 ml	230 ml	360 ml	360 ml	360 ml
Room Service and Mini-bar	Mini-bar	Wines	Wine	Individual format	Wine representative of the French market Packaged in 0.25 L small plastic bottle	France	Yes	3 ml	4 ml	5 ml	6 ml	7 ml

### **Semi-specific activity data to describe outsourced laundry services**

This data results from two projects:

- the hotel environmental communication experiment and the data obtained from a sample of 20 laundries
- the eco-innovation project for laundry rental services for hotels, a project led by EVEA Tourisme (2014)

	<b>Default values</b>	<b>Assumptions</b>
Distance from hotel (km):	150	High assumption – sample max: 190 km (one case)
Type of vehicle used:	50% less than 3.5 t and 50% between 75 and 16 t	Sample average for eco-laundry project
cleaning product consumption (g/kg of laundry):	43	Sample maximum
Number of laundry rotations before end-of-life:	71.0	Sample minimum
water consumption (l/kl of laundry):	16.5	Sample maximum
Percentage of end-of-life recycling:	60	Sample average
If the laundry uses electricity:	2.84 kWh of electricity	Sample maximum for laundries using 100% electricity
If the laundry uses gas:	1 kWh of electricity and 2 kWh of gas	Sample maximum for laundries using gas
If the laundry uses fuel oil:	1 kWh of electricity and 7.5 kWh of fuel oil	Sample maximum for laundries using fuel oil

### **Generic activity data to describe merchandise transport**

A transport scenario that is representative of the market is proposed for each consumable, specifying the distance travelled by vehicle type upstream of the hotel.

When the product is produced locally (within 150 km of the hotel), the following scenario is proposed: distance of 150 km travelled by truck with a GVWR between 3.5 and 7.5 tons.

## Annex B

### Criteria grid

	Greenhouse gas emissions	Water consumption	Product waste production	Total primary energy consumption	Percentage of organic and ecological products	Aquatic ecotoxicity	Air acidification	Depletion of non-renewable natural resources	Biodiversity
<b>Relevance</b>									
Assessment of an environmental impact in the product category and which is attributable to the product	Mandatory								
Impact importance		Represents more than the daily consumption of a French person High impact to limit water consumption in areas that are often fragile	Approximately 33% of the production of daily residual waste from the daily life of a French person High impact of waste management for accommodations and tourist and seasonal local authorities	Represents more than the average daily consumption of a French person	Possible health-related impact on customers and professionals and impact on sustainable purchasing	N/A	Not studied as impact redundant	High, as impact redundant with energy and water	Yes
Differentiation for a majority of products on the market (comparability)		Yes	Yes	Yes	Yes	Yes, according to the type of consumables used	Not studied as impact redundant	Yes	Not studied as impact is difficult to quantify

	Greenhouse gas emissions	Water consumption	Product waste production	Total primary energy consumption	Percentage of organic and ecological products	Aquatic ecotoxicity	Air acidification	Depletion of non-renewable natural resources	Biodiversity
Redundancy with other indicators		No	Partial redundancy with depletion of non-renewable natural resources	Partial redundancy with climate change and depletion of non-renewable natural resources	No	No	Redundancy with climate change	Redundancy with water and energy consumption and waste generated	Not studied as impact is difficult to quantify
Promotes eco-design options		Yes, the establishment's choice of equipment and the laundry processing choices	Yes, the choice of consumables, in particular, (large format) and the rate at which linens are changed, for example	Yes, the choice of equipment and good practices	Yes	Yes	Not studied as impact redundant	Yes	Not studied as impact is difficult to quantify
<b>Implementation, feasibility</b>									
Possibility/ease of implementation for the database		Yes on site. More difficult for the entire cycle and for consumable water consumption	Yes on site. More difficult for the entire cycle and for consumable production	Yes on site, with secondary data for consumables		Characterization factors should be developed to qualify all consumables (especially cleaning and amenities)	Yes	Yes	Not studied, as characterization method was not defined
Accessibility to the primary data required for the firm to characterize the indicator		Yes, the impacts are mainly due to the use phase (excluding catering) by the choice of equipment. Breakfast represents only approximately 50% of the impact of the overnight stay if the life cycle is accounted for	The impacts are mainly due to the use phase. Describing the consumables used (bills) it is possible to calculate the amount of waste generated and to estimate the quantities recycled.	The impacts are mainly due to the use phase, which can be verified by the company's bills	Yes, quantities may be calculated using the establishment's bills	Difficult, as the composition of all consumables and their packaging would need to be studied	Not studied as impact redundant	Not studied as impact redundant	Not studied as impact is difficult to quantify



	Greenhouse gas emissions	Water consumption	Product waste production	Total primary energy consumption	Percentage of organic and ecological products	Aquatic ecotoxicity	Air acidification	Depletion of non-renewable natural resources	Biodiversity
<b>Consistency</b>									
Consistency with the recommendations issued by the ADEME/AFNOR platform (general, methodology WG, sector-specific WGs)		Yes Only flow indicator allowed by the general principles for environmental communication (part 0)	No. As per the general principles for environmental communication (part 0), impact indicators are preferred over flow indicators.	No. As per the general principles for environmental communication (part 0), impact indicators are preferred over flow indicators.	No. As per the general principles for environmental communication (part 0), impact indicators are preferred over design indicators.	Yes	Yes	Yes	Yes
Life cycle scope		No because production of consumables not accounted for	No because production phase of consumables not accounted for	No because production phase of consumables not accounted for	No because focuses solely on consumables	Yes	Yes	Yes	Not studied, as characterization method was not defined
Product/packaging scope		No because production of consumables not accounted for	Yes	No	No	Yes	Yes	Yes	Not studied, as characterization method was not defined
Consistency with other communicated indicators		Yes, even if a flow indicator	Yes, even if a flow indicator	Yes, even if a flow indicator	Yes, even if a design indicator	Yes	Yes	Yes	Not studied, as characterization method was not defined
<b>Robustness, reliability</b>									
Scientific and international recognition		In the ILCD handbook (draft)	Not in the ILCD handbook (draft)	Not in the ILCD handbook (draft)	Not in the ILCD handbook (draft)	In the ILCD handbook (draft)	In the ILCD handbook (draft)	In the ILCD handbook (draft)	In the ILCD handbook (draft)
Methodological robustness		Temporary methodology defined in the general principles (part 0)	No methodology defined in the general principles (part 0)	No methodology defined in the general principles (part 0)	No methodology defined in the general principles (part 0) Uncomplicated method of calculation	Usetox Classification II/III in the ILCD handbook (draft.)	Recipe 2008. Consensus method	EDIP 97 (2004). Classification II in the ILCD handbook (draft.)	No methodology defined in the general principles (part 0)

	Greenhouse gas emissions	Water consumption	Product waste production	Total primary energy consumption	Percentage of organic and ecological products	Aquatic ecotoxicity	Air acidification	Depletion of non-renewable natural resources	Biodiversity
Reliability of the modelling component (computation rule)		Value related to the use phase. High accuracy with establishment measurements	Value related to the use phase. High accuracy with bills and data weighted by product type	Value related to the use phase. High accuracy and ability to verify using bills	Value related to the use phase. High accuracy and ability to verify using bills	Good The impact lies in the chemical composition (formula) of the consumables	Not studied as impact redundant	Good, linked to energy and all available consumables and equipment	Not studied as impact is difficult to quantify
Expected reliability of primary data		Impacts are primarily due to the use phase, which features specific data	Good	Good	Good	Good (formula of consumables)	Not studied as impact redundant	Good	Not studied as impact is difficult to quantify
Reliability of the secondary data available			A database was created to quantify waste by category of consumable. Good to average reliability (need for greater sample size) - ability to weigh on site			Usetox is a recent method, which is therefore little or not available in characterised databases. In addition, characterisation factors for detergents, cosmetics, food products and textiles have yet to be fully developed.	Not studied as impact redundant	Database available for materials / energy	Not studied as impact is difficult to quantify
<b>Conclusion</b>	Indicator adopted	Indicator adopted	Indicator not selected because it is not preferred under the general principles (part 0) and is difficult to quantify.	Indicator not adopted	Indicator adopted	Indicator not adopted	Indicator not adopted	Indicator adopted	Indicator not adopted because not quantifiable

## Annex C

### Calculating the indicator "Mass percentage of Type I eco-label products"

Calculation by product category	Weighting	Purchasing indicator calculation
Food (0 to 100%)	Linear	Overall score (0 to 100%)
Amenities (0 to 100%)	Linear	
Textiles (0 to 100%)	Linear	
Site cleaning (0 to 100%)	Linear	
Pool cleaning (0 to 100%)	Linear	
Garden upkeep (0 to 100%)	Linear	

#### **Calculating the score for "food products" (breakfasts, mini-bars, courtesy trays)**

The score is between 0 and 100% and is calculated using the average mass of labelled/certified products made available by the establishment. The labels taken into account for the score are:

- Organic Agriculture (France or Europe)
- product from a High Environmental Value farm label

$$\text{Food score} = \text{mass of food products with a label} / \text{total mass of food products}$$

#### **Calculating the score for "amenities"**

The score is between 0 and 100% and is calculated using the average mass of products made available by the establishment bearing a Type I Eco-label, which indicates that the product is compliant with NF EN ISO 14024 (ex: European Ecolabel) and

$$\text{Amenities score} = \text{mass of amenities products with a Type I Eco-label} / \text{total mass of amenities products}$$

#### **Calculating the score for "textiles"**

The score is between 0 and 100% and is calculated using the average mass of products made available by the establishment bearing a Type I Eco-label, which indicates that the product is compliant with NF EN ISO 14024 (ex: European Ecolabel)

**Textiles score = mass of textile products with a Type I Eco- label / total mass of textile products**

**Calculating the score for "cleaning products" (rooms, common areas, breakfast)**

The score is between 0 and 100% and is calculated using the average mass of products bearing a Type I Eco-label, which indicates that the product is compliant with NF EN ISO 14024 (ex: European Ecolabel)

**Cleaning score = mass of cleaning products with a Type I Eco-label / total mass of cleaning products**

**Calculating the score for "cleaning products" for pools**

The score is between 0 and 100% and is calculated using the average mass of products bearing a Type I Eco-label, which indicates that the product is compliant with NF EN ISO 14024 (ex: European Ecolabel)

**Cleaning score = mass of cleaning products with a Type I Eco-label / total mass of cleaning products**

**Calculating the score for "upkeep products" for gardens**

The score is between 0 and 100% and is calculated using the average mass of products bearing a Type I Eco-label, which indicates that the product is compliant with NF EN ISO 14024 (ex: European Ecolabel)

**Cleaning score = mass of cleaning products with a Type I Eco-label / total mass of cleaning products**

**List of consumables accounted for in the calculation of the Organic and Ecological score**

This list may be subsequently refined according to feedback.

For food products at breakfast, the following are accounted for in the method:

- Baguette or bread
- Roll
- Sandwich bread
- Rusks
- Biscuits
- Brioche
- Crepes
- Cakes

- Pancakes
- Pastries
- Ham
- Eggs
- Streaky bacon
- Roasted chicken
- Salami
- Sausages
- Cereals
- Jams
- Sweet pie
- Flour
- Sugar
- Artificial sweetener
- Yeast
- Honey
- Chocolate mousse
- Chocolate spread
- Maple syrup
- Fruit compote
- Fruit
- Dried fruit
- Nuts
- Fruit in syrup
- Fruit salad
- Powdered chocolate
- Chocolate beverage
- Butter
- Soft curd cheese

- Cheeses
- Milk
- Single-serving yoghurt
- Coffee
- Tea

For food products in the mini-bar, the following are accounted for in the method:

- Hard liquor
- Beers
- Savoury snacks
- Sweet snacks
- Sodas and fruit juices
- Champagne
- Wine

For amenities, the following are accounted for in the method:

- Candies
- Cotton pads
- Shoe sponge
- Stuffed toy
- Shower gel
- Shampoo
- Shampoo/shower gel
- Shower gel
- Body lotion
- Liquid soap
- Bar soap
- Bubble bath
- Dental care kit
- Shaving kit

For cleaning products, the following are accounted for in the method:

- Aerosol air freshener
- Liquid air freshener
- Isopropyl alcohol
- Degreaser
- Spray degreaser
- Degreaser wipes
- Disinfectant
- Concentrated disinfectant
- Toilet cleaner gel
- Cleaning product
- Concentrated cleaning product
- Glass cleaner
- Bleach
- Bleach tablets
- Liquid fabric softener
- Concentrated liquid fabric softener
- Powdered whitening agent
- Liquid fabric softener
- Liquid stain remover
- Liquid laundry detergent
- Powdered laundry detergent
- Product to unclog pipes
- Liquid descaling product
- Powdered descaling product
- Oil for hardwood floors
- Softening salts
- Regenerating salt
- White vinegar
- Rinsing liquid

- Dishwashing powder
- Dishwashing liquid
- Liquid hand soap
- Sugar soap

For pool cleaning products, the following are accounted for in the method:

- Concentrated disinfectant
- Flocculant
- Chlorine

For garden upkeep products, all fertilizers, pesticides and pest control products are accounted for.



## Annex D

### List of equipment commonly found at establishments

Families	Generic equipment - Process	Detailed technical representativeness	Default lifespan (years) <sup>10</sup>
Video, TV, Stereo	Digital screen	Digital screen, approx. 260 g, 8"	5
Video, TV, Stereo	Stereo system	Stereo system between 9 and 50 W	5
Video, TV, Stereo	TNT decoder	TNT decoder	5
Video, TV, Stereo	TV demodulator	Demodulator unit for TV reception	5
Video, TV, Stereo	DVD player	DVD player representative of the domestic French market	5
Video, TV, Stereo	Clock radio for iPod and iPhone	Clock radio for iPod and iPhone	5
Video, TV, Stereo	LCD television	LCD television, variable sizes, representative of the domestic French market	5
Video, TV, Stereo	Video projector	Video projector, portable or fixed, representative of the French market	5
Food preparation	Professional standing mixer	Electric standing mixer, 5 to 40 L capacity, steel and stainless steel	5
Food preparation	Professional blender/mixer	Professional blender/mixer, 1.5 to 4 L bowl	5
Food preparation	Juicer	Juicer, stainless steel bowl	5
Food preparation	Cold drink dispenser	Professional cold drink dispenser	5
Food preparation	Hot drink dispenser	Hot drink dispenser, between 220 and 400 mm wide	5
Food preparation	Water fountain	Refrigerated water fountain, one or two spigots	5
Food preparation	Milk and Hot chocolate heaters	Water bath milk heater, between 5 and 20 L	5
Food preparation	Advancing washer	Advancing washer, stainless steel, capacity between 1300 and 3500 mm long	5
Food preparation	Hood washer	Hood washer, stainless steel	5
Food preparation	Front-loading washer	front-loading washer, stainless steel frame, approx. 600 x 600 x 850 mm	5
Food preparation	Domestic dishwasher	Domestic dishwasher, representative of the French market	5
Food preparation	Front-loading glass washer	Glass washer, stainless steel, 400 to 470 mm wide, 850 mm high	5
Food preparation	Professional coffee machine (percolator)	Professional percolator (coffee machine), 1, 2 or 3 displays, stainless steel body	5
Food preparation	Professional coffee machine (container)	Professional coffee machine (container), one or two tanks, stainless steel body	5

<sup>10</sup> Source: international accounting standards  
Environmental communication methodology for tourist accommodations

<b>Families</b>	<b>Generic equipment - Process</b>	<b>Detailed technical representativeness</b>	<b>Default lifespan (years)<sup>10</sup></b>
Food preparation	Domestic coffee maker	Domestic coffee maker, representative of the French market	5
Food preparation	Professional coffee machine on electric hotplate	Professional coffee machine on electric hotplate to maintain temperature, 185 to 370 mm wide (one or two spigots), stainless steel body	5
Food preparation	Professional whipped cream machine	Professional whipped cream machine	5
Food preparation	Kneading machine	Kneading machine, 28 to 52 cm wide	5
Food preparation	Electric coffee grinder	Electric coffee grinder	5
Food preparation	Domestic electric citrus juicer	Domestic electric citrus juicer	5
Food preparation	Professional electric citrus juicer	Professional electric citrus juicer	5
Food preparation	Ice cream maker	Professional ice cream maker	5
Food preparation	Professional electric bread slicer	Electric bread slicer, all stainless steel	5
Food preparation	Yoghurt maker	Yoghurt maker, between 8 and 24 yoghurt capacity	5
Cleaning	Domestic vacuum cleaner	Vacuum cleaner, representative of the domestic French market	5
Cleaning	Professional vacuum cleaner	Professional vacuum cleaner, representative of the French market	5
Cleaning	Professional floor washer	Professional floor washer, representative of the French market	5
Cleaning	Steam cleaner	Professional steam cleaner, representative of the French market	5
Food refrigeration	Refrigerated cabinet	Negative or positive cold refrigerated cabinet, volume between 305 and 1700 L	5
Food refrigeration	Negative cold chamber	Negative cold chamber, variable volume, representative of the French market	5
Food refrigeration	Positive cold chamber	Positive cold chamber, variable volume, representative of the French market	5
Food refrigeration	Professional freezer	Freezer, between 90 L and 735 L	5
Food refrigeration	Refrigerated cooler	Square refrigerated cooler (between 1000 and 1400 mm wide or rectangular (1400 mm to 2000 mm wide), stainless steel body	5
Food refrigeration	Professional ice maker	Professional ice maker, production capacity between 20 and 150 kg of ice in 24 hours, stainless steel	5
Food refrigeration	Refrigerated bar unit with glass	Refrigerated unit for beverages, with glass, horizontal or vertical 1 to 4 doors for low unit 1 to 2 doors for vertical unit	5
Food refrigeration	Domestic refrigerator	Domestic refrigerator between 90 L and 700 L	5

<b>Families</b>	<b>Generic equipment - Process</b>	<b>Detailed technical representativeness</b>	<b>Default lifespan (years)<sup>10</sup></b>
Food refrigeration	Refrigerated base unit	Refrigerated base unit, with door or drawer, variable width, stainless steel body	5
Food refrigeration	Horizontal refrigerated display case	Horizontal refrigerated display case, between 1000 mm and 1700 mm wide, one or two levels	5
Food refrigeration	Vertical refrigerated display case	Vertical refrigerated display case, between 600 mm and 1400 mm wide, between 1200 mm and 1800 mm high	5
Hotel equipment	Shoe polishing machine	Shoe polishing machine, 1 or 2 brushes	5
Hotel equipment	Mini-bar	Professional mini-bar, with display window or without, 30 to 50 L	5
Hotel equipment	Wall-mounted hair-dryer	Wall-mounted hair-dryer	5
Hotel equipment	Portable hair-dryer	Portable hair-dryer	5
Hotel equipment	Terminal for magnetic cards	Terminal for magnetic cards	5
Food preparation	Water bath	Electric or gas water bath, variable width (400, 600, or 800 mm), stainless steel body	5
Food preparation	Domestic kettle	Electric kettle, representative of the domestic French market	5
Food preparation	Plate warmer	Plate warmer, one or two doors, stainless steel body	5
Food preparation	Beverage heater	Beverage heater, between 2 and 6 beverages, stainless steel body	5
Food preparation	Water heater	Water heater, between 3 and 25 L, stainless steel body	5
Food preparation	Crepe maker	Crepe maker, one or two hot plates, stainless steel body	5
Food preparation	Egg cooker	Egg cooker, 8-egg capacity, stainless steel body	5
Food preparation	Professional convection oven	Gas or electric, stainless steel cooking body, between 400 mm and 600 mm wide	5
Food preparation	Professional baking oven	Gas or electric, stainless steel cooking body, between 600 mm and 1250 mm wide	5
Food preparation	Domestic microwave oven	Domestic microwave oven, representative of the domestic French market	5
Food preparation	Professional microwave oven	Professional microwave oven, stainless steel body, 500 mm wide	5
Food preparation	Professional combination oven	Gas or electric, stainless steel cooking body	5
Food preparation	Gas stovetop	Gas stovetop, 2 to 5 burners, 400 and 1200 mm wide, stainless steel casing	5
Food preparation	Electric stovetop	Electric stovetop, 2 to 5 burners, 400 and 1200 mm wide, stainless steel casing	5
Food preparation	Professional stovetop	Stovetop with 2 to 6 burners, gas or electric, 1 or 2 doors, between 400 and 800 mm wide, stainless steel body	5
Food preparation	Professional fryer	Electric or gas fryer, 400 or 600 mm wide, stainless steel body	5

<b>Families</b>	<b>Generic equipment - Process</b>	<b>Detailed technical representativeness</b>	<b>Default lifespan (years)<sup>10</sup></b>
Food preparation	Domestic toaster	Electric toaster, representative of the domestic French market, 2 toasting slots	5
Food preparation	Professional toaster	Electric toaster, 2 to 4 toasting slots, stainless steel	5
Food preparation	Infrared lamp	Infrared warming lamp	5
Food preparation	Heated, ventilated bottom unit	Heated, ventilated bottom unit, 1 to 3 doors, stainless steel	5
Food preparation	Mini electric oven	Multi-purpose mini electric oven, stainless steel	5
Food preparation	Gas cooktop	Gas cooktop, 400 or 600 mm wide, stainless steel body	5
Food preparation	Electric cooktop	Electric, induction or infrared cooktop, 400 or 600 mm wide, stainless steel body	5
Food preparation	Infrared ramp	Infrared ramp for warming	5
Food preparation	Plate warmer	Plate warmer	5
Heating and cooling	Electric towel rack	Electric towel rack	5
Heating and cooling	Mobile radiator	Mobile radiator	5
Heating and cooling	Fan coil (air-conditioning)	Fan coil (air-conditioning)	5
Office equipment	Personal inkjet printer	Personal inkjet printer	5
Office equipment	Personal laser printer	Personal laser printer	5
Office equipment	Inverter	Inverter	5
Office equipment	Mini PC	Mini PC	5
Office equipment	Personal computer (tower)	Personal computer (tower)	5
Office equipment	Laptop computer	Laptop computer	5
Office equipment	Server rack	Server rack, representative of the French market	5
Office equipment	Telephone	Telephone	5
Others	Water softener	Water fountain	10
Others	Wifi hotspot	Wifi hotspot or Wifi transmitter, representative of the French market	5
Others	Recording cash register	Recording cash register, representative of the French market	5
Others	Ventilation unit or HVAC	Ventilation unit or HVAC, according to the power installed	10
Others	Mobile air-conditioning unit	Mobile air-conditioning unit, representative of the French market	10
Others	Wall or ceiling-mounted air-conditioner	Wall or ceiling-mounted air-conditioner, according to the power installed, representative of the French market	10
Others	Domestic washing machine	Domestic washing machine, variable capacity, representative of the French market	5

<b>Families</b>	<b>Generic equipment - Process</b>	<b>Detailed technical representativeness</b>	<b>Default lifespan (years)<sup>10</sup></b>
Others	Professional washing machine	Professional washing machine, variable capacity, representative of the French market	5
Others	Professional photocopier	Professional photocopier, representative of the French market	5
Others	Beer pump	Beer pump, one or two spigots	5
Others	Heat pump	Air / Air or Air / Water heat pump, according to the power installed	10
Others	Domestic clothes dryer	Domestic clothes dryer, variable capacity, representative of the French market	5
Others	Professional clothes dryer	Professional clothes dryer, variable capacity, representative of the French market	5
Others	Telephone switchboard	Telephone switchboard, representative of the French market	5
Lighting	Incandescent light bulb	Incandescent light bulb, representative of the market	2
Lighting	LED bulb	LED bulb, representative of the market	10
Lighting	Halogen bulb	Halogen bulb, representative of the market	3
Lighting	Low-consumption bulb	Low-consumption bulb, representative of the market	5
Lighting	Fluorescent tube	Fluorescent tube, representative of the market	5
Lighting	High-yield fluorescent tube	High-yield fluorescent tube, representative of the market	10
Other	Videosurveillance camera	Videosurveillance camera, representative of the market	5

## **List of the organizations represented at the validation of this guide (environmental assessment platform meeting on 18 June 2015)**

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CNIEL  
CODDE – CONCEPTION DEVELOPPEMENT DURABLE ET  
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## ABOUT ADEME

The French Environment and Energy Management Agency (ADEME) participates in the implementation of public policy in the areas of the environment, energy and sustainable development. The agency provides expertise and advisory services to businesses, local authorities and communities, government bodies and the general public, in order to help them strengthen their environmental action. It also helps finance projects, from research to implementation, in the areas of waste management, soil conservation, energy efficiency and renewable energy, air quality and noise abatement.

ADEME is a public agency under the joint authority of the Ministry of Ecology, Sustainable Development and Energy, and the Ministry for Higher Education and Research.



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