



Hotel Marylanza Suites & Spa



ENVIRONMENTAL STATEMENT

Period: 01 January to 31 December 2022

Document drawn up on: 27 January 2023



(EC) European Parliament and Council Regulation nº 1221/2009 of 25 November 2009.
Commission Regulation (EU) 2017/1505 of 28 August 2017, amending Appendices I, II and III to Regulation (EC) Nº 1221/2009.
Commission Regulation (EU) 2018/2026 of 19 December 2018, amending Appendix IV to Regulation (EC) Nº 1221/2009.



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1 - INTRODUCTION

The Environmental Statement is a public document through which the establishment discloses information on the activities conducted and the assessment and improvement of the organisation's environmental performance to all the stakeholders and entities requesting the same.



This Environmental Statement published by Hotel Marylanza Suites & Spa illustrates the organisation's transparency and environmental commitment in compliance with European Parliament and Council (EC) Regulation Nº 1221/2009 of 25 November 2009, Commission Regulation (EU) Nº 2017/1505 of 28 August 2017, amending its appendices I, II and III, and Commission Regulation (EU) Nº 2018/2026 of 19 December 2018, amending its appendix IV.

We at Inversiones Marylanza S.L are aware of the main concerns of our current society and we are aware of the great importance the protection of the environment represents.

Hotel Marylanza Suites & Spa has been investing in an environmental policy and the monitoring of the same ever since the organisation was founded. The company continues to study and implement the possible reforms within its operational structure on a daily basis, striving to align the economic results with the development of its environmental values.

The Senior Management and the Human Resources Department have developed an awareness raising policy in relation to environmental values geared to all our personnel, through training courses, conferences and meetings. Our programme enables us to improve any deviations detected in the achievement of our environmental goals, and, in turn, to acquire new commitments to improve through the analysis of new possibilities (technologies, human, etc.) applicable to our establishment.

The establishment's Environmental Management System has been certified in accordance with ISO 14001 and the EMAS Regulation since 2012 under **Reg. nº ES-IC-000100**. As such, as an associated company, we enjoy the collaboration of **Excelencia Turística de Tenerife** (Tenerife Tourism Excellence), an entity whose mission is to promote improvements and innovation and to contribute to the competitiveness and development of our tourist destination.

This Environmental Statement covers the period from 01.01.2022 to 31.12.2022. Due to the exceptional circumstances generated by the COVID-19 pandemic, information is only available for the first two and a half months of the year 2020 and for the last five months of the year 2021, coinciding with the time for which the hotel was open to the public.

1.1 - Awards and Distinctions

The establishment holds the following awards and distinctions:

Award/Distinction	Scope	Years
Travelife Gold Award	Social Responsibility	2012 - 2022
Blue Star	Quality	2016 - 2018
Ecolíderes Oro	Environment	2014 - 2022
Tripadvisor Excellence	Quality	2010 - 2022
Holiday Check Quality Selection	Quality	2013 - 2022

2 - PRESENTATION OF THE ESTABLISHMENT

2.1 - Data on the establishment

Facility	HOTEL MARYLANZA SUITES & SPA	Beds:	434
Activities:	Hospitality and Catering	Rooms:	217
Category:	4-star	Construction date:	2005 - 2006
Company:	Inversiones Marylanza S.L	Opening date:	October 2006
Address:	C / Los Arenales, 20 38650 Arona	E-mail:	info@marylanza.com
Telephone:	922 787 816	Website:	www.marylanza.com

Location



2.2 - Services provided

Hotel Marylanza Suites & Spa provides its customers with accommodation, catering and complementary services.

ACCOMMODATION

The hotel boasts 217 accommodation units, all of which feature an independent bedroom, an equipped kitchen, a lounge, and a balcony or terrace. The rooms are equipped with a safe, air conditioning, alarm clock, radio, mini bar and satellite TV.



Reception: 24/7 service, currency exchange, car hire, excursions, sale of tickets and bookings for shows, safe, etc.

RESTAURANTS

Main restaurant *Tagoror*: serves a buffet breakfast, lunch and dinner. Serves a regional and international thematic buffet two or three times a week.

Speciality restaurant *Kentia*: a creative cuisine well-known for the presentation and quality of the products on offer.

Teppanyaki restaurant *Orijama*: a unique gastronomic experience providing a combination of oriental dishes and Canary Island ingredients and flavours.

Pool Snack Bar *La Palapa*: serves snacks, lunch and salads.

Lobby Bar / *Rincón Taste*: a selection of tapas, wine by the glass and coffee from around the world.

Room service: a la carte service from 8 a.m. to 10 a.m. and from 1 p.m. to 9 p.m.

Belingá ballroom: live music and international shows.

COMPLEMENTARY SERVICES

Swimming pool: towel, hammock, parasol and lifeguard service.

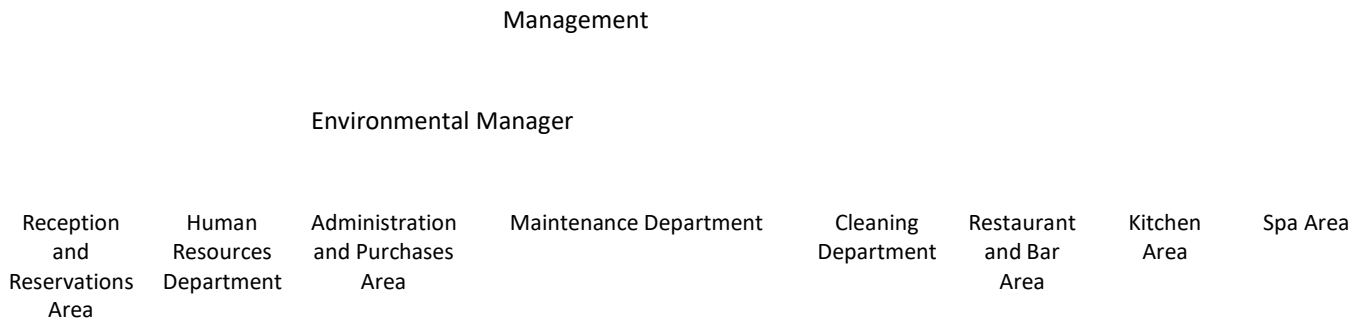
Spa: circuits and treatments geared to all needs.

Gymnasium: weight training room, bicycles, sauna, Turkish baths, tennis and squash courts...



Other services: library, snooker room, cards room, Internet access, ADSL Wi-Fi area.

3 - THE COMPANY'S ORGANISATIONAL CHART



4 - DESCRIPTION OF THE MANAGEMENT STRUCTURE

The establishment's senior management is responsible for the management system. Moreover, each area has an environmental manager for each process, as a means of ensuring a sound structure to support our management system.

The Environmental Management System (EMS) is a voluntary instrument that enables us to plan, manage and improve our environmental performance based on three fundamental pillars: compliance with environmental regulations, continuous improvement and the involvement of all our stakeholders (employees, customers, suppliers...). It comprises the following elements:

- 1 - Analysis of the context.
- 2 - The Environmental Management Policy.
- 3 - The legislation and the applicable legal requirements.
- 4 – Environmental planning: environmental goals and targets.
- 5 – The documental structure of the EMS, composed of:

Procedures	Instructions	Records
Describe the execution of the activities set forth in the Management Manual with the aim of complying with the requirements of the standards on which the Management System is based.	Documents describing the steps to be taken in a more detailed manner, the activities and processes with an environmental component.	Evidence of the execution of activities, compliance with the management and legal systems.

6 - Internal audits designed to assess the implementation and compliance with the requirements of the Management System and to identify non-compliance and opportunities for improvement (internal audit conducted on 22 December 2022).

7 - An annual review of the system by the Management to assess levels of implementation and efficacy and to establish new goals for the progressive development of environmental performance (review conducted on 25 January 2023).

5 - SOCIAL RESPONSIBILITY POLICY

Hotel Marylanza Suites & Spa is committed to achieving a unique holiday experience for our customers through a first-rate service provided by qualified and motivated personnel, investing in their personal and professional growth. Contributing to the social and economic development of our community in a sustainable manner is one of our priorities, while restricting the environmental impact generated by the establishment's activities. This desire is consolidated through the implementation of the following principles:

- Compliance with the applicable legislation and regulations and all other commitments affecting our establishment in relation to environmental, labour-related and social issues.
- The creation of an appropriate working environment based on equal opportunities, non-discrimination, respect for diversity, safety and transparency.
- The promotion of the professional and personal development of our human resources, providing them with continuous training and enhancing their skills, including information and awareness in relation to environmental issues.
- To foster a culture of respect and protection of the environment, reducing the environmental impact of the company's activities.
- The definition of a process for the continuous improvement of the Environmental Management System in the quest to ensure the optimum performance of the organisation.
- To encourage our suppliers, partners, employees and customers to introduce improvements to their environmental, social and ethical conduct.
- To prioritise the consumption of local products and services, thereby boosting the economy and the quality of life of the community; and getting involved in the organisation and the disclosure of events promoting the local culture and traditions among our international clientele.
- To guarantee respect for basic human rights, in particular in relation to more vulnerable groups, rejecting any practices that undermine individual or collective dignity.
- To help implement priority social initiatives geared to underprivileged groups, to meet their vital needs, in addition to actions focused on the wellbeing of children and young people in the community.

Los Cristianos, 22 January 2018.

Fernando Josa
[signature]
Director

6 - LEGAL ENVIRONMENTAL REQUIREMENTS



Hotel Marylanza Suites & Spa identifies and monitors compliance with all the applicable legal requirements of a European, state, regional and local scope, as well as other requirements the establishment undertakes to comply with. As such, the organisation consults the legislation database and updates to the same on a regular basis as a means of ensuring compliance with the legal requirements. This database is updated by Excelencia Turística de Tenerife.

The identification of the legal requirements involves different items such as permits, authorisations, inspections and the other environmental commitments to which the establishment undertakes. Marylanza Suites & Spa hotel declares compliance with all the environment-related legal requirements applicable to the complex. Generally speaking, the establishment complies with the following legal requirements of an environmental nature:

- Authorisation of the Island Council of Tenerife (number: H-38/4.406)
- Registration as a small producer of hazardous waste (nº 38.4.06.73.91).
- NIMA code (nº 3800008009)
- Authorisation for releasing wastewater into the network.
- Registration in the thermal, oil, fuel, anti-fire, low and medium/high voltage, cold storage industries and the definition of the applicable regular agreements and reviews.
- Compliance with the legal limits in relation to contaminant emissions.
- Compliance with the protocol on the control and prevention of Legionella.
- Separation of urban and urban-like waste.
- Compliance with noise-generation restrictions.
- Compliance with the conditions for the use and storage of toxic and hazardous substances.

The basic reference standards are listed at the end of this document, and the environmental management practices designed to ensure compliance with these requirements are explained in the sections corresponding to each environmental topic.

7 - ENVIRONMENTAL ASPECTS

An environmental aspect is an element of our organisation's activities, products or services that might interfere with the environment. These comprise direct environmental aspects, in other words, those over which the establishment has full control, and indirect aspects, over which control is not total.

This also takes environmental impact into account, in other words, how new projects or developments in activity affect or could affect the environment.

Environmental aspects are assessed on an annual basis to determine their level of significance, in other words, if their impact on the environment is significant. As such, a series of criteria has been defined taking different parameters into account: severity, magnitude, frequency, probability and control capacity.

The following tables illustrate the result of the most recent assessment of environmental aspects in normal and abnormal conditions, where the level of significance refers to 2022.

Identification and assessment of direct environmental aspects				
Vt = Frequency x (Magnitude + Severity)				
Area of generation	Environmental Aspects	Operating conditions	Significance	Impact on the environment
DHW Facilities	Emissions	NC / AC	Yes	Contamination of the atmosphere
DHW Facilities	Consumption of Fuel	NC / AC	Yes	Reduction in natural resources
General	Consumption of Electricity	NC / AC	Yes	Reduction in natural resources
Maintenance	Consumption of Pool Cleaning Products	NC / AC	Yes	Contamination of water. Generation of packaging waste.
Laundry	Consumption of Laundry Products	NC / AC	Yes	Contamination of water. Generation of packaging waste.
Purchases	Urban Waste: Paper / Cardboard	NC / AC	Yes	Generation of paper and cardboard waste.

Moreover, and as a consequence of the suppliers' and subcontractors' activities, products and services, aspects may arise over which the organisation does not have full management control: indirect aspects.

These aspects are generated as a consequence of the following operations:

- The maintenance of facilities and equipment
- Works and renovations
- Suppliers of raw materials
- Suppliers of services (laundry, dry cleaning, cleaning and disinfection,...)

The indirect environmental aspects identified and evaluated were:

- The consumption of raw materials, energy, water and fuel

- The generation of hazardous and non-hazardous waste

Due to our assessment no significant indirect environmental aspects have been generated.

Moreover, potential environmental risks were identified and assessed, and nothing significant was registered.

8 - ENVIRONMENTAL GOALS

The tables below illustrate the environmental goals set by the establishment's management for the year 2022, as well as the actions implemented. The goals are related to significant environmental aspects.

ENVIRONMENTAL ASPECT: EMISSIONS				
Goal:	To obtain an official carbon footprint calculation seal			
Assessment method:	MITECO carbon footprint calculation tool			
Actions	In charge	Deadline	Resources	Final review
To calculate the company's carbon footprint	FJ	May 22	Personnel	Closed
To register the company's carbon footprint in MITECO	FJ	Jun 22	Personnel	Closed

Comments: The goal was met.

SIGNIFICANT ENVIRONMENTAL ASPECT: CONSUMPTION OF FUEL				
Goal:	To reduce overnight consumption by 1%			
Assessment method:	Overnight consumption of overnight fuel indicator			
Actions	In charge	Deadline	Resources	Final review
Change to energy recovery savings	FJ/VG	Dec 22	Financial estimate	Pending

Comments: The goal was met, consumption having been reduced by 28% (1.02 to 0.73 Kg/per night)

ENVIRONMENTAL ASPECT: CONSUMPTION OF ELECTRICITY				
Goal:	To reduce overnight consumption by 1%			
Assessment method:	Overnight consumption of electrical energy indicator			
Actions	In charge	Deadline	Resources	Final review
Change to energy recovery savings	FJ/VG	Dec 22	Financial estimate	Pending
The replacement of corridor lights with LED lighting*	FJ/VG	Dec 22	Financial estimate	Pending

Comment: This goal was met, consumption having been reduced by 29% (22.74 to 16.21 Kwh/per night).

SIGNIFICANT ENVIRONMENTAL ASPECT: CONSUMPTION OF POOL PRODUCTS				
Goal:	To reduce overnight consumption by 1%			
Assessment method:	Overnight consumption of pool products indicator			
Actions	In charge	Deadline	Resources	Final review
The replacement of pool maintenance products and new, more efficient filters (Vadeaguas)	VG	Dec 22	Financial estimate	Closed

Comment: This goal was met, consumption having been reduced by 16% (0.19 to 0.16 Kg/per night).

SIGNIFICANT ENVIRONMENTAL ASPECT: CONSUMPTION OF LAUNDRY PRODUCTS				
Goal:	To replace laundry products with other more eco-friendly products			
Assessment method:	Purchase of laundry products			
Actions	In charge	Deadline	Resources	Final review
Replace current laundry products with bulk products with an ecological label*	LH	Nov 22	Financial estimate	Closed

Comment: The goal was met.

SIGNIFICANT ENVIRONMENTAL ASPECT: PAPER / CARDBOARD WASTE				
Goal:	To reduce the generation of cardboard waste by 1%			
Assessment method:	Paper/cardboard waste generation indicator (kg/overnight stay)			
Actions	In charge	Deadline	Resources	Final review
The replacement of single-use cardboard cups in the pool with reusable polycarbonate cups	FJ/AD	Oct 22	Specific cups and containers	Closed

Comments: This goal was met, consumption having been reduced by 39% (0.13 to 0.08 Kg/per night).

ENVIRONMENTAL ASPECT: PLASTIC WASTE				
Goal:	To reduce the generation of plastic waste by 1%			
Assessment method:	Light container waste generation indicator (kg/overnight stay)			
Actions	In charge	Deadline	Resources	Final review
To improve customer information and provide more selective waste bins in the pool area	FJ	Oct 22	Bins	Closed

Comments: This goal was met, consumption having been reduced by 17% (0.06 to 0.05 Kg/per night).

Outline of the Plan for the 2023 Goals:

Pending knowledge of the environmental aspects that will be significant next year, we are contemplating the initiatives that were not concluded this year, and new initiatives are under analysis:

- The replacement of bathtubs with showers in room bathrooms
- The installation of an optional centralised balcony light shutdown system

9 - RESPONSE CAPACITY

In accordance with the assessment of environmental aspects in emergency situations, specific protocols have been developed for the risks identified. The pertinent tests have been conducted in accordance with the degree of probability and its environmental consequences.

Date	Test	Result	Protocol amendment
28.11.22	Fire suppression	Compliant	Not necessary
28.11.22	Toxic substance spills	Compliant	Not necessary

Some of our initiatives geared to reducing environmental incident or accident risk include:

- The correct and orderly storage of hazardous products
- Retention pans and trays where necessary
- Sacks of absorbent sand

10 - THE ESTABLISHMENT'S ENVIRONMENTAL PERFORMANCE INDICATORS

This section contains the data on the organisation's environmental performance and progress in relation to the execution of targets and goals. As such, the direct and indirect environmental aspects of the company's activities, products and services are taken into account.

As set forth in "EMAS" Regulation 1221/2009 "EMAS", the results of the indicators are listed in accordance with the environmental aspects and the level of significance. Moreover, due to the specific nature of the tourist accommodation sector, the number of workers does not vary significantly over the year, reason for which the "overnight" factor is used as a basis for many of the measurements, this being the number of stays registered in the period in question. This enables us to relativize many of the important parameters in relation to the establishment's environmental behaviour in order to conduct comparisons between different periods.

Furthermore, where applicable, the comparative parameters of excellence established in the Sector Reference Document (SRD) set forth in (EU) Commission Decision N° 2016/611 of 15 April 2016 are also included.

Year	2020*	2021*	2022
Overnight stays	35,758	56,299	169,672

*2020 data from January, February and half of March. 2021 data from August to December.

CONSUMPTION OF WATER

Given the activity of a holiday-type establishment, the consumption of water is an aspect that needs to be taken into account, regardless of the result of the assessment of the different aspects.

CONSUMPTION OF WATER:	2020	2021	2022
Consumption (m ³)	25,358	16,961	39,359
m ³ per overnight stay	0.71	0.30	0.23

Although the hotel was open for more months in 2021 than in 2020, the sanitary requirements in the swimming pools in the first few months of the pandemic and the state of emergency resulted in a greater consumption of water in the latter year. In addition, a number of repairs were carried out in two of the pools in 2021, whereby consumption was also below normal that year.

Sector Reference Document (SRD) in litres per overnight stay:

Comparative excellence parameter:	2020	2021	2022
140	709	301	232

It should be pointed out that the comparison for annual consumption for 2020 and 2021 refers to the overnight stays in the months in which the hotel was open. It should also be pointed out that this is a 4-star hotel with services and facilities (swimming pool, gardens, rooms, etc.) in accordance with this category.

The establishment's initiatives geared to a reduction in consumption include:

- Mechanisms designed to reduce and minimize consumption such as flow meters in rooms, sensors, aerators, etc.
- Cisterns equipped with a double press system
- A drip irrigation system
- Awareness-raising messages in rooms
- A system for the reuse of bath towels in rooms

Drinking water quality control

The establishment conducts a monthly microbiological analysis of the water using a qualified external entity. pH and chlorine levels are monitored on a daily basis.

Date: 21/12/2022 Area: Kitchen hand wash	Laboratory: BIOLAB	Code: 891365 Technical analysis: Lorena Rincon
VALUES ABOVE / BELOW THE LEGAL LIMIT:	None	
Comment:	The sample complied with the legislation in force.	
Legal standard used:	Royal Decree 140/2003 of 07 February, establishing the sanitary quality criteria on water for human consumption.	

CONSUMPTION OF ELECTRICITY

Another important environmental aspect is the consumption of electrical energy. The establishment's supplier of electrical energy is Endesa. The company was

awarded GDO certification in March 2017, attesting to the fact that 100% of the electrical energy supplied comes from **renewable sources**.

CONSUMPTION OF ELECTRICITY	2020	2021	2022
Consumption (KWh)	721,711	1,280,468	2,750,804
KWh per overnight stay	20.18	22.74	16.21

The electricity consumption ratio in 2021 increased due to the opening of the spa and fitness area around 2 months before the hotel area, which increased consumption in a period with no overnight stays.

The establishment's initiatives geared to a reduction in the consumption of electrical energy include:

- General lighting using low-consumption and led bulbs
- Automatic HVAC disconnection system in rooms
- Automatic on and off timers regulated manually in accordance with the number of daylight hours
- Key card power switches in rooms
- Motion sensors in poorly-lit areas throughout the day
- The acquisition of devices ensuring greater electricity efficiency
- Awareness-raising messages in offices

CONSUMPTION OF PROPANE GAS

The following equipment consumes propane gas:

- Hot water supply boilers
- Kitchen gas devices

CONSUMPTION OF PROPANE GAS	2020*	2021*	2022
Consumption (Kg)	29,499	57,283	124,350
Kg per overnight stay	0.82	1.02	0.73

* 2020 data from January, February and half of March. 2021 data from August to December.

As with water, the fact that the spa and fitness centre opened before the hotel increased the consumption of propane gas with no increase in overnight stays.

One of the main initiatives geared to reducing the consumption of gas has been the installation of 96 **thermal solar energy panels**, registering a performance of 28.98%. This helps to heat the supply of domestic water and, consequently, to reduce the amount of propane gas consumed by the boilers.

CONSUMPTION OF DIESEL OIL

The establishment consumes diesel fuel due to the fact the electricity generator unit uses it as fuel. Annual consumption is not significant, as the generator is only used in the event of a power cut or when tested once a month, the latter case involving a few minutes only.

ENERGY DEPENDENCE

Energy dependence is defined as the energy required for the establishment's activity and to produce or acquire what is necessary. The following values are converted into energy units in order to calculate energy dependence.

ENERGY DEPENDENCE	2020	2021	2022
Consumption of electricity	721.7	1,280.5	2,750.8
Consumption of Propane Gas*	378.5	734.9	1,595.4
Consumption of Thermal Solar Energy**	109.7	213.0	462.3
Total Consumption	1,209.9	2,228.4	4,808.6
MWh per overnight stay	0.0338	0.0396	0,0283

*Conversion factor 12.83 Kwh/Kg. Source: Ministry for Ecological Transition, July 2022. ** Calculation conducted based on the facility's design parameters due to a lack of meters: 28.98% of the average performance of the energy requirement for the domestic water supply.

Sector Reference Document (SRD) in kWh/m² of built surface area:

Comparative excellence parameter:	2020	2021	2022
180	44	79	170
The hotel was only open for two and a half months in 2020 and for five months in 2021. It should also be pointed out that this is a 4-star hotel with services and facilities in accordance with this category.			

Distribution of Energy (%)	2020	2021	2022
Consumption of Electricity	65.60%	57.46%	57.21%
Consumption of Propane Gas	24.43%	23.42%	33.18%
Consumption of Thermal Solar Energy	9.97%	9.56%	9.62%

Sector Reference Document (SRD) in percentage of renewable energy:

Comparative excellence parameter:	2020	2021	2022
% Renewable electrical energy	65.60%	57.46%	57.21%
% Thermal solar energy	9.97%	9.56%	9.62%
Total (SRD: 50%)	75.57%	67.0%	66.8%
As mentioned previously, the hotel uses solar thermal energy in its facilities and acquires 100% of its electricity from renewable sources. Given the characteristics of the complex and the location, it is very difficult to find space to generate a larger amount of renewable energy.			

CONSUMPTION OF RAW MATERIALS

In recent years we have registered the following amounts consumed in relation to **chemical products** (laundry, kitchen and pool cleaning):

PRODUCTS (Kg)	2020	2021	2022
Laundry Products	2,970*	4,296*	8,643
Cleaning Products	1,059*	2,573*	6,830
Kitchen Products	2,377*	1,354*	5,235
Pool Products	17,407	10,729	27,264
Total Products	23,813	18,952	47,917
Kg per overnight stay	0.67	0.34	0.28

*2020 data from January, February and half of March. 2021 data from August to December.

The increase in the consumption of products per overnight stay in 2020 is due to the fact that swimming pool products were acquired throughout the year for maintenance purposes, compared to the number of overnight stays corresponding to the months of January, February and half of March only.

It should be pointed out that, in terms of cleaning products, products from the Zero Natural Force line were used in 2019, which have less environmental impact and require a higher dosage. And in 2022 laundry products were replaced by bulk products bearing the European Ecological Label.

The main initiatives geared to reducing the consumption of raw materials include:

- An automatic cleaning products dosing system
- An automatic pool products dosing system
- Organic treatment of garden plants

The consumption of pool products depends on the number of users and meteorological factors such as heat and rain. Dosing of both chlorine and pH regulators is conducted using automatic dispensers.

The consumption of **paper (sheets)** in recent years has been as follows:

PRODUCT (kg)	2020*	2021*	2022
Paper (sheets)	100	255	420
Kg per overnight stay	0.0028	0.005	0.002

* 2020 data from January, February and half of March. 2021 data from August to December.

The hotel has implemented good practices in order to reduce the use of paper (encouraging digital use, double-sided printing, etc.). In addition, the paper used is FSC and Ecolabel certified.

ATMOSPHERIC EMISSIONS

Measurement of emissions and boiler performance:

Reading date	28.12.2022				Reference criterion*
Aspect	Boiler 1		Boiler 2		
	Flame 1	Flame 2	Flame 1	Flame 2	
Emission temp. (°C)	151.3	167.7	116.0	122.8	-----
Oxygen (%)	4.3	4.5	3.9	3.6	-----
CO (ppm)	2	0	1	1	*500 p.p.m.
CO ₂ (%)	10.89	10.76	11.16	11.35	
Performance (%)	94.9	94.0	96.4	96.2	-----

* Maximum values permitted in accordance with section 27 of Appendix IV of Royal Decree 833/1975.

Preventive maintenance was conducted on the boilers and the other thermal facilities in accordance with the Regulation on Thermal Facilities in Buildings.

Total annual greenhouse gas emissions

- Determination of CO₂e due to loss of refrigerant gases:

In order to determine the emission of refrigerant gases in CO₂e values, we multiply the kilos of gases that have had to be replenished as a result of leaks by their global warming power (GWP):

REFRIGERANT GASES	GWP	2020		2021		2022	
		Kg	CO ₂ e	Kg	CO ₂ e	Kg	CO ₂ e
HFC-134 ^a	1,430	0	0	0	0	3.0	3,900
R407-C	1,774	5.33	9.455	0	0	2.45	3,979
R422-D	2,729	0	0	0	0	1.65	4,068
HP-410-A	2,088	0	0	0	0	0	0
R449-A	1,396	17.60	24.563	63,0	80.741	8.0	10,253
Total (Kg)	-	22,93	34.018	63,0	80.741	15.10	22,200
Total per ov. stay	-	0.00064	0.95	0.00112	1.56	0.00009	0.13

Sources of GWP: Ministry for Ecological Transition, July 2022.

- Determination of CO₂e due to loss of refrigerant gases:

Electrical energy is purchased from the company Endesa, which provides us with a Green Energy GDO certificate for all the energy supplied, reason for which we consider the emission factor to be zero.

t of CO ₂ equivalents	2020	2021	2022
CO ₂ Consumption of Electricity	0,,00	0.00	0,00
CO ₂ Consumption of Propane Gas*	87,,05	169.04	366.94
CO ₂ refrigerant gas leaks	34.02	87.95	22.20
Total CO ₂ emissions	121.07	256.98	389.14
Total per overnight stay	0.00243	0.00300	0.00229

* Emission factor 0.23 kg of CO₂/kwh. Source: Ministry for Ecological Transition, July 2022.

Total annual emissions into the air

In order to determine annual air emissions, we multiply the Kwh consumed in electrical energy and fuel by the emission factor in question.

Air emissions (Kg)	2020	2021	2022
SO2	0.00	0.00	0.00
NOx	77.66	150.81	327.38
PM	0.27	0.53	1.15
Total emissions	77.93	151.34	328.53
Total per overnight stay	0.00339	0.00269	0.00194

*Emission factor: Electricity: 0, as it comes from renewable energy. Propane: SO2 0; NOx 0.0002; PM 0 Kg for each Kwh. Source: Guide on emission factors for pollutants released into the atmosphere, Government of the Balearic Islands, July 2014.

Calculation of the establishment's carbon footprint



Within the framework of the initiative for the calculation of Carbon Footprints, conducted by Excelencia Turística de Tenerife, we have calculated our footprint with the aim of quantifying the emission of greenhouse gases (GHG) released into the atmosphere as a result of our activity. This operation involved the use of the Hotel Carbon Measurement Initiative (HCMI) methodology, developed by **The World Travel & Tourism Council (WTTC)** and **The International Tourism Partnership (ITP)**, comprising the different scopes for determining the tool itself and local emission factors. Moreover, we have registered our carbon footprint with the Ministry for Ecological Transition and the Demographic Challenge (MITECO).

The data refers to the last three years up to 2021, as MITECO had not yet published the emission factors for 2022 as at the date of this statement. These are the results obtained:

Carbon footprint (t CO ₂)	2019	2020	2021
Carbon footprint per occupied room (per day)	6.78	6.65	7.97
Carbon footprint per overnight stay	0.003	0.000	0.004
Total carbon footprint for the establishment	504.12	108.98	204.11

Source of the aforementioned values: Ministry for Ecological Transition. Electricity is contracted from Endesa, however Green Energy certification is available for the entire supply.

GENERATION OF WASTEWATER

The establishment is connected to the public sanitation network, into which its wastewater flows. An annual analysis is conducted of the composition of the wastewater at the collection points. The results of these analyses are as follows:

Location: Reception toilets

Date: 26/08/2021 Area: Service	Laboratory: Biolab	Code: 810164 Technical analysis: Juan Manuel Vila
PARAMETERS ANALYSED:	RESULT OF THE SAMPLE:	REFERENCE LIMITS:
pH (concentration of hydrogen)	7.0 units pH	Approx 6-9 pH
BOD5 (biological oxygen demand)	228 mg/l	Max 1.000 mg/l
COD (chemical oxygen demand)	1,120 mg/l	Max 1.600 mg/l
Solids in suspension	150 mg/l	Max 1.200 mg/l
Conductivity	1.903 µS/cm	Approx 2.500 uS/cm
Oils and greases	< 79 mg/l	Max 500 mg/l
Comments:	The sample complies with the legislation in force.	
Legal standard used:	Decree 168/2018 of 26 November , definitively approving the hydrologic plan for the hydrographic demarcation of Tenerife.	

Location: Kitchen toilets

Date: 26/08/2021 Area: Service	Laboratory: Biolab Sietemares	Code: 810162 Technical analysis: Lisandra Jimenez
PARAMETERS ANALYSED:	RESULT OF THE SAMPLE:	REFERENCE LIMITS:
pH (concentration of hydrogen)	5.4 units pH	Approx 6-9 pH
BOD5 (biological oxygen demand)	980 mg/l	Max 1.000 mg/l
COD (chemical oxygen demand)	1.290 mg/l	Max 1.600 mg/l
Solids in suspension	220 mg/l	Approx 1.200 mg/l
Conductivity	1.220 µS/cm	Approx 2.500 uS/cm
Oils and greases	21 mg/l	Max 500 mg/l
COMMENTS:	The sample complies with the legislation in force.	
Legal standard used:	Decree 168/2018 of 26 November , definitively approving the hydrologic plan for the hydrographic demarcation of Tenerife.	

Due to the fact there is no municipal ordinance in relation to effluents in Arona, the Insular Tenerife Hydrology Plan has been used as a reference. The samples were regarded as satisfactory in accordance with the parameters analysed.

GENERATION OF URBAN SOLID WASTE

The management of urban solid waste is conducted in a selective manner. Organic waste is managed through the municipal collection service, with the exception of used vegetable oil, which is dealt with by an authorised management entity.

Waste generated:

The amounts of paper/cardboard and vegetable oil waste generated are taken from the certificates provided by the respective management entity, while a method

based on the volume of the containers is used for glass, packaging and organic waste.

PAPER AND CARDBOARD	2020*	2021*	2022
Total (Kg)	2,880	7,246	13,292
Kg per overnight stay	0.08	0.13	0.08

GLASS	2020*	2021*	2022
Total (Kg)	4,859	8,810	30,340
Kg per overnight stay	0.14	0.16	0.18

LIGHT PACKAGING	2020*	2021*	2022
Total (Kg)	3,289	3,320	9,253
Kg per overnight stay	0.09	0.06	0.05

VEGETABLE OIL	2020*	2021*	2022
Total (Litres)	1,160	1,044	3,543
Kg per overnight stay	0.03	0.02	0.02

ORGANIC WASTE	2020*	2021*	2022
Total (Kg)	39,650	53,365	186,485
Kg per overnight stay	1.11	0.95	1.10

*2020 data from January, February and half of March. 2021 Ddata from August to December.

The following measures have been implemented in order to minimise waste and to improve the management of the same:

- The elimination of single-use plastic: the removal of the WC seal, introduction of reusable eco-friendly cups, the replacement of plastic cups, plates and straws, the elimination of single-dose products (butter, jam, Nutella chocolate).
- Returnable packaging: The aim is to ensure suppliers remove the containers and packaging supplied.
- Environmental criteria are established in relation to purchases in order to generate less waste, such as, for example, bulk purchases of cleaning products and food products.
- The segregation of urban solid waste: containers have been purchased for all the organisation's departments - green for glass, yellow for light packaging and blue for paper and cardboard. Technical instructions have been drawn up and implemented for all the departments in which this waste is generated to ensure the appropriate segregation and storage of the same.
- The organisation possesses a paper and cardboard compactor, thereby enabling us to store a greater amount of waste.
- Measures have been established to reduce to a maximum plastic water bottle waste by providing customers with water dispensers and removing small bottles of water from the list of "all included" items.
- Customers are invited to participate in the segregation of waste. Some common areas (the pool area, gymnasium, spa, etc.) have been equipped with containers for different kinds of waste. An area has been provided in the kitchens in rooms for the separation of glass waste.

GENERATION OF HAZARDOUS WASTE

A variety of hazardous waste is generated in the different areas of the establishment. Hence, a specific area has been created for storing this waste, which is monitored by the Head of the Technical Services Department. This waste is collected by management entities accredited by the Government of the Canary Islands.

Waste generated:

These accredited management entities guarantee the hazardous waste generated at our establishment is managed in the appropriate manner.

HAZARDOUS WASTE (kg)	2020	2021	2022
Fluorescent, low-consumption bulbs	0	167	216
Ni-Cd batteries and accumulators	0	0	58
Contaminated packaging	0	450	805
Electrical and electronic devices	0	124	40
Aerosols			1,156
Decontaminated cold storage equipment			435
Toner	0	0	46
Other (chemical products)	0	0	1,037
Total (kg)	19	741	3,793
Kg per overnight stay	0.00	0.01	0,02

Sector Reference Document (SRD):

Comparative excellence parameter:	2020	2021	2022
The total amount of waste generated (classified and unclassified) is greater than 0.6 kg/per overnight stay	1.5	1.3	1,4
At least 84% of the waste, expressed by weight, is sent for recycling.	24%	28%	24%
The amount of unsorted waste sent for disposal is greater than 0.16 kg per overnight stay	1.1	0.9	1,1
It should be pointed out that this establishment is a holiday hotel with a high percentage of customers under the All Included system, and as such it is not comparable with urban or holiday hotels not using this system.			

GENERATION OF NOISE

Generation of noise was measured with the aim of calculating the impact of the noise generated in the different areas of the establishment. Noise will also be measured when major changes occur at the establishment, such as modifications in facilities that might generate noise or vibrations. The following data was obtained

from the measurements conducted by Excelencia Turística de Tenerife in January 2019:

Area analysed	Daytime dB(A)	Ref.	Nighttime dB(A)	Ref.
Pool and sun deck area	Compliant	55	Compliant	45
Main entrance	Compliant	45	Compliant	30
VALUES ABOVE THE LEGAL LIMIT	None			
Comments:	The sample complies with the legislation in force.			
Legal standard used	Municipal Noise and Vibration Ordinance of the municipality of Arona.			

The activities conducted in the establishment do not generate any significant noise or vibrations. The sources of noise basically arise from entertainment activities.

USE OF THE LAND IN RELATION TO BIODIVERSITY

As we are dealing with an accommodation establishment located in a residential area, the main condition the biodiversity indicator reflects is the occupation of the land. Total use of the land amounts to 16,847 m² and the total sealed area is 13,902 m². The results of land use in m² per overnight stay are as follows:

m ² / per overnight stay	2020*	2021*	2022
Total use of the land	0.47	0.30	0,10
Total sealed surface area	0.39	0.25	0,08

*2020 data from January, February and half of March. 2021 data from August to December.

The increase in 2020 is due to the fact that the fixed area has been divided by overnight stays for January, February and half of March only.

The following forms of land use set forth in Appendix IV of the EMAS Regulation are not applicable: the total area in the centre laid out in accordance with nature and the total area outside the centre laid out in accordance with nature.

CORPORATE SOCIAL RESPONSIBILITY

As an independent hotel we are particularly proud of our achievements with regard to sustainability, and we believe taking care of our environment is a need and not a choice. We work together with our stakeholders in a proactive manner to convert sustainability into a standard feature of tourism, both at our destination and globally speaking.

Communications

Hotel Marylanza Suites & Spa conducts both internal and external communication activities.

The establishment provides its stakeholders with information of an environmental nature when requested.

The establishment's Environmental Policy and Environmental Declaration are published on the corporate website: www.marylanza.com. The Environmental Policy is also displayed in the hotel reception area.

External communications

Involving our customers in the improvement of the environment is one of the priorities of the establishment's environmental management system. To achieve this, awareness-raising activities are conducted in connection with the need to protect the environment and to ensure the participation of our customers.



The establishment has been conducting awareness-raising activities with customers ever since the implementation of the environmental management system, some of which have already been mentioned in this document, the most noteworthy of which are:

- Informative posters encouraging people to reduce the frequency of washing sheets and towels.
- Water saving stickers placed in toilets throughout the establishment, both of which are aimed at inviting customers to cooperate with the environment.
- Guests are able to separate glass waste in kitchens in the rooms.
- A waste collection point in the pool area for the separation of paper/cardboard, light packaging and organic material.



Subcontractors executing their activities both in and outside the establishment have, among other items, been notified that:

- Hotel Marylanza Suites & Spa has implemented ISO 14001 and the EMAS Regulation and, as such, they need to comply with the environmental standards in accordance with the values established by the same.
- How to manage hazardous and urban waste in the correct manner, using the containers installed for this purpose throughout the execution of their activities at our facilities.
- A number of good practices to be complied with when executing their activity.

The establishment holds open dialogue with its stakeholders as a means of optimising cooperation and achieving synergies to the benefit of the environment. To this end, communication channels are established with the Arona Town Council and tourist and hotel associations (C.I.T., Ashotel, Excelencia Turística de Tenerife) among others.

Great importance is also placed on contributions of a cultural and social nature that our hotel can provide to the community, reason for which we work together with local youth cultural and sports associations, in addition to animal rights entities. In this sense, donations were made to the In this regard, we made donations to the Tenerife Association of Equestrian Therapies and helped organise the Red Cross Gold Raffle, both with the purchase of tickets and the organisation of a lunch and spa for volunteers involved in the same campaign. Free overnight stays were provided as part of an initiative conducted with the Carrera por la Vida Foundation (in the fight against breast cancer) and with the Chenet Children's Football Club to pay for the team's trip to a championship held on the Spanish Mainland. We worked together with CIT Sur on Tourism Day by providing products for the tasting tables in the arrivals terminal at Tenerife South airport. As we do every year, we participated in the campaign to protect and help the Scopoli's Shearwater between the months of October and November, and we were acknowledged as a collaborating hotel by the Tenerife Island Council. We also donated gift cards to the Cáritas charity to ensure that every child up to 12 years of age attending the entity gets a Christmas present.

Internal communications

Internally we prioritise the participation of the hotel's personnel through inter-department meetings, which systematically include environmental issues. The hotel has an environmental committee composed of voluntary employees from different departments, in which the corporate committee is also involved. The hotel's personnel have played an active role in preparing the documentation of the system and this Environmental Statement through their respective heads of department, who submitted their knowledge and suggestions to the Environmental Manager. Each head of department is responsible for the environmental records in relation to their area, using a common server to keep them updated.

Training & Awareness Raising

Providing all the organisation's workers with the appropriate training and awareness-raising in relation to environmental issues is of the utmost importance. As such, annual training and awareness-raising activities geared to this issue are organised, taking into account the positions held, with the aim of expanding their knowledge and ensuring greater involvement in the establishment's environmental management system. All these activities are included in the Annual Training Programme.

Among the most noteworthy campaigns geared to raising the awareness of the establishment's personnel are the good environmental practices posters displayed on the notice board in each department.



Most noteworthy environmental training and awareness raising actions			
DATE	TRAINING ACTION	ENVIRONMENTAL ASPECT	GEARED TO
October 2022	Protection of birds, "Scopoli's shearwater"	Biodiversity	General personnel
June 2022	Recycling of waste	Generation of waste	Head of department

Some of the initiatives that would normally have been carried out did not take place due to the pandemic, however micro-talks were held with the staff by the Management on the separation of waste and the environmental plans for the hotel's operations.

- PARTICIPATION AND INVOLVEMENT OF WORKERS

The hotel's personnel have played an active role in preparing the documentation of the system through their respective heads of department, who submitted their knowledge and suggestions to the Environmental Manager. Furthermore, the Department Heads and the Environmental Committee have helped draw up this Environmental Statement.

Internally we prioritise the participation of the hotel's personnel through inter-department meetings, which systematically include environmental issues and a review of the manner in which the management system operates. There is also a mailbox for environmental suggestions within the reach of all workers.

INTERNAL AND EXTERNAL AUDIT RECORD

- The internal audit conducted by the entity Excelencia Turística de Tenerife on 07 September 2021, corresponding to the review for the year 2020. The external audit conducted by TÜV Rheinland on 20 and 21 September 2021.
- The internal audit conducted by the entity Excelencia Turística de Tenerife on 20 December 2021. The external audit conducted by TÜV Rheinland on 21 and 22 February 2022.

- The internal audit conducted by the entity Excelencia Turística de Tenerife on 22 December 2022. The external audit conducted by TÜV Rheinland on 30 and 31 January 2023.

14 – DATE SET FOR THE NEXT ENVIRONMENTAL STATEMENT

The Environmental Statement is published on an annual basis. The next Environmental Statement will be drawn up in January 2024, thereby updating the Environmental Programme, the goals and targets and the most significant environmental aspects, whereby corrections or changes may be made.

15 – DATA OF THE ACCREDITED VERIFIER OF THE ENVIRONMENTAL STATEMENT

This document has been drawn up by:

Inversiones Marylanza, S.L.



Fernando Josa
Environmental Director and Manager



Jonay González Barroso
Chairman of the Corporate
Committee and Member of
the Environmental Committee

The system has been verified and the declaration validated in accordance with article 25, section 8 of Regulation 1221/2009, by:

Tüv Rheinland Iberica Inspection, Certification and Testing, S.A.
Accredited Verifier N° (ES-V-0010)

