



ENVIRONMENTAL STATEMENT

JANUARY-DECEMBER 2017





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1 PORT AVENTURA ENTERTAINMENT, S.A. UNIPERSONAL

100% PAESA ENTERTAINMENT HOLDING, S.L.U.

1.1 KEY DATA ON PORTAVENTURA WORLD RESORT

- **Sector:** Tourism and Leisure
- **Location:** Vila-seca/Salou
- **Telephone:** 977 779 000
- **Web:** www.portaventuraworld.com
- **Taxpayer Number (CIF):** A-63.776.306
- **PortAventura Park/PortAventura Caribe Aquatic Park/Ferrari Land - CNAE Industry Classification Parks:** 93.21
- **PortAventura, El Paso, Caribe, Gold River and Mansión de Lucy Hotels - CNAE Industry Classification Hotels:** 55.10
- **Convention Centre - CNAE Industry Classification:** 82.30
- **Waste Producer Code:** P-26916.1
- **EMAS Registration Number:** ES-CAT-000070
- **ISO 14001/2015 Certificate Number:** 3.00.07048
- **Environmental Management Standard for the Hotels PortAventura, El Paso, Caribe, Gold River and Mansión de Lucy**
- **EMAS Club Member:** Association of EMAS-registered organisations in Catalonia (www.clubemas.cat)
- **Corporate Responsibility Department:** responsible for the PortAventura World Environmental Management System (EMS)
- **Environmental investments for the year 2017:** 758,000 euros

1.2 PORTAVENTURA PARK: THEME AREAS

PORTAVENTURA PARK

6 completely different and fascinating worlds, each carefully themed down to the very last detail: Mediterrània, Polynèsia, China, Mèxic, Far West and SésamoAventura.

It offers 40 attractions, up to 40 daily shows, 48 food and beverage outlets, as well as 31 shops and 10 games areas for all the family:

Mediterrània

This area pays homage to the different towns on the Catalan coast around the late 19th century, and recreates a typical Catalan fishing village.

Polynèsia

This area recreates late 19th century Polynèsia as discovered by sailors such as Captain Cook and painted by great artists like Gauguin.

SésamoAventura

A theme area created especially for families with children: 12,413 m² of fun in the company of all the Sesame Street characters.

China

An exotic and monumental journey around the four eastern areas: The People's Republic of China, Imperial China, the Himalayas and Cambodia.

Mèxic

A fabulous encounter with the ancient Mayan culture and colonial Mexico. An experience full of monuments, crafts and attractions.

Far West

This area recreates an American town full of cowboy spirit and attention to detail: from a real Saloon to a railway station, a mining area... and even a replica of the Grand Canyon.



PORTAVENTURA CARIBE AQUATIC PARK

A fantastic water park, with a spectacular theme inspired by the Caribbean islands at the time of the pirates of the South Seas.

Its total area of 50,000 m² has 14 attractions and toboggans, waterfalls, huge pools, green areas full of plants and palm trees.

Environmental certifications and standards held by our parks



FERRARI LAND

A theme park that is unique in Europe, with 70,000 m² of fun. It has 11 fantastic attractions and games, an incredible theme inspired by the real Italy, and shows. There are also two restaurants and two shops.

NB: Ferrari Land will be included in the EMAS and ISO 14001:2015 certifications in 2018.



1.3 OUR HOTELS



Hotel PortAventura HT-000760 ****

Recreates the character and charm of a small Mediterranean village. The large pool and town square form the soul of the hotel. 500 rooms, four restaurants, a shop, entertainment, a Wellness Centre, etc. And with direct access to PortAventura Park via the Mediterrània area.



Hotel Gold River HT-000855 ****

Emulates a Far West town in the grip of gold fever. It has 549 rooms, distributed over several buildings that form a reconstruction of the most important parts of a Far West town. 78 of its rooms are in the exclusive building The Callaghan's. It also has three pools, six food and beverage outlets, and direct access to the Far West area of PortAventura Park.



Hotel Caribe HT-000772 ****

Set in the tropics, this hotel is surrounded by palm trees and features exceptional open spaces. It has 497 rooms, of which 26 make up Club San Juan (a private complex with exclusive rooms), four restaurants, four swimming pools (one sandy), a shop and a Wellness Centre.



Hotel El Paso HT-000770 ****

A colourful Mexican-style hotel that recreates a traditional hacienda. It has a total of 501 rooms, three restaurants, two bars, one shop and two pools, one with a sunken galleon. It is "all inclusive".



Hotel Mansión de Lucy HT-000888 *****

The most majestic and elegant of our hotels, located in a Victorian building. It has 31 spacious rooms, the most exclusive that the resort has to offer, with all manner of extras. It has a pool, a restaurant, a bar and direct access to the Far West area of PortAventura Park.

Environmental certifications and standards held by our hotels



1.4 CONVENTION CENTRE

With its privileged location in the midst of golf courses and excellent sea views, the PortAventura Convention Centre combines Mediterranean-style architecture with cutting-edge technology. The Convention Centre has 18 multi-functional, modular and versatile rooms, distributed over two levels and with the capacity to welcome groups of 10 to 3,000 people within a surface area of 13,000 m².





2 COMMITTED TO THE ENVIRONMENT SINCE THE BEGINNING

2.1 CHRONOLOGY

1995	PortAventura opens its doors, becoming the first theme park in Spain. Its most symbolic ride is Dragon Khan.
1997	New roller coaster: Stampida.
1999	Introduction of the show FiestAventura.
2000	The attraction Sea Odyssey: a fantastic submarine simulator.
2001	Launch of Templo del Fuego.
2002	PortAventura is transformed into a tourist destination, thanks to the opening of two hotels and a water park.
2003	Hotel Caribe opens its doors for the first time.
2005	The arrival of the free fall tower Hurakan Condor.
2007	The park welcomes Furius Baco: extreme acceleration.
2009	Opening of Hotel Gold River and PortAventura Convention Centre.
2010	Celebration of 15 th Anniversary.
2011	Opening of SésamoAventura.
2012	Shambhala (the highest roller coaster in Europe). Driving and road safety school for children in the China area. Parking Caravaning.
2013	Renovations are carried out on the resort's water park, PortAventura Caribe Aquatic Park, with the addition of a new children's area, Europe's highest water slide and new attractions. Opening of the maze El Secreto de los Mayas in PortAventura Park.
2014	Launch of the new attraction Angkor: Adventure in the Lost Kingdom. Cirque du Soleil sets up base at PortAventura World to perform during summer 2014, inviting audiences into the world of Kooza.
2015	Celebration of 20 th Anniversary. Cirque du Soleil presents the show Amaluna at PortAventura World for the first time in Europe. New building – The Callaghan's at Hotel Gold River. Opening of Hotel Mansión de Lucy: the first 5* hotel of the resort.
2016	Work starts on a new theme park that is unique in Europe, Ferrari Land.
2017	Opening of the brand new Ferrari Land theme park, a theme park unique in Europe. 70,000 m ² of pure fun with incredible attractions and captivating spaces exclusively dedicated to the legendary Italian motor racing team. Cirque du Soleil returns to PortAventura World with their show Varekai.

2.2 ENVIRONMENTAL CERTIFICATIONS AND STANDARDS



1997

Creation of the Environmental Committee's Equip Verd



2001

1st EMAS Registration



2003

1st Environmental Management Standard (Hotels)



2007

1st ISO 14001/2004 Certification



2008

Member of Catalonia's Club EMAS



2008

Commitment to The Global Compact



2009

Joined Travelife: Sustainable Tourism – Hotels



2014

Received the Travelife Gold Award



2015

Committed to the achievement of the United Nations' Sustainable Development Goals (SDGs)



2016

Committed to the Global Code of Ethics for Tourism of the World Tourism Organisation (UNWTO)



2017

Commitment to the International Year of Sustainable Tourism initiative for development of the United Nations World Tourism Organisation



3 ENVIRONMENTAL POLICY

Port Aventura Entertainment, S.A.U., managing company of PortAventura World Parks & Resort, a family leisure destination that encompasses PortAventura Park, PortAventura Caribe Aquatic Park, Ferrari Land, Hotel PortAventura, Hotel El Paso, Hotel Caribe, Hotel Gold River, Hotel Mansión de Lucy, PortAventura Convention Centre and Parking Caravanning, carries out its activities with maximum respect for the environment and its surroundings.

In order to comply with its commitment to protection of the environment and continual improvement of environmental results, PortAventura’s actions are governed by the following principles:

1. To ensure compliance with and exceed the demands of applicable environmental laws, and other voluntary requirements, making them a part of its Environmental Policy.
2. To assign all means and responsibilities necessary to guarantee the attainment of objectives and leading to continual improvements in environmentally-friendly behaviours, designing processes that aim to minimise and prevent activities impacting upon the environment.
3. To ensure compliance with environmental objectives through an environmental consultancy and executive board, to consolidate the basis for the promotion of respect for the environment.
4. To educate, train and raise awareness, at all levels, amongst company personnel to create an atmosphere conducive to the progression of all environmental measures.
5. To communicate the Environmental Policy to everybody working within or on behalf of the organisation, including contractors and suppliers, as well as other stakeholders.
6. To identify the environmental aspects and associated impacts of new or scheduled activities.
7. To promote, to the maximum possible extent, projects that encourage our visitors to respect the environment.
8. To preserve our region’s biodiversity and ecosystems, protecting the species and habitats within it.
9. To encourage and commit to sustainable use of natural resources (water and electricity) by encouraging reuse and minimal generation of waste, prioritising waste treatment and thereby promoting mitigation of and adaptation to climate change.
10. To promote environmental criteria in product purchasing, contracting of services and events management, guaranteeing that our suppliers share the same environmental standards.

Fernando Aldecoa
General Director

February 2017



4 ENVIRONMENTAL MANAGEMENT SYSTEM

4.1 ORGANISATION

Environmental Management in PortAventura World is based on two key figures:

Environmental Management System Representative (hereinafter EMSR):

They must be a manager. This person acts as a liaison with the Management Committee and as the system representative for regulatory purposes.

Equip Verd (or Environmental Committee):

A working group comprised of representatives from the different company departments, which has as its objective the correct and uniform management of the environment throughout the resort.



4.2 RESPONSIBILITY AND AUTHORITY

The responsibilities for the different roles within the system are:

EMSR:

- Supervises the overall application and maintenance of the EMS (Environmental Management System) in PortAventura World.
- Acts as a liaison between the Management Committee and Equip Verd, and vice versa.

- Appoints the secretary and members of Equip Verd.
- Determines who is responsible for decision-making for proposals related to the EMS, targeted at improving PortAventura World's Environmental Policy.

Management Committee, Area Managers and Supervisors:

- The Management Committee decides who to appoint to carry out the duties of the EMSR.
- Make decisions regarding environmental management of the resort, based on proposals submitted by the EMSR.
- Encourage implementation of the EMS in the respective departments.
- Management approves and signs the Environmental Policy.

Equip Verd (or Environmental Committee)

- Acts as a forum for exchange, debate, study and discussion regarding the PortAventura World EMS.
- Makes decisions on all aspects of Environmental Management of the resort, provided that the EMSR believes it is within their competence.
- Puts forward and presents to the EMSR the implementation or development of proposals targeted at environmental improvements or changes in PortAventura World's Environmental Policy.
- Provides the Management Committee with all information related to the environmental decisions to be made.
- Establishes objectives for improvement in accordance with PortAventura World's Environmental Policy.
- Supervises proper compliance with applicable environmental and industrial safety legislation, as well as voluntary commitments made by the company.

Members of the Equip Verd

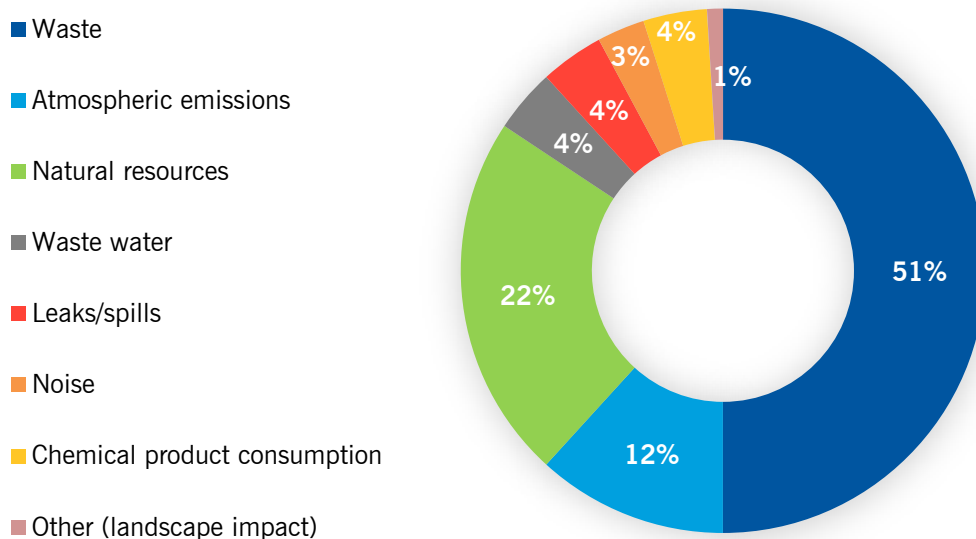
- Supervise EMS implementation and maintenance in PortAventura World, within the department/area that they represent.
- Provide Equip Verd with all necessary information on the development of the EMS for the department that they represent. Equip Verd members are responsible for referring EMS decisions, adopted by Equip Verd or by the Management Committee, to the departments or areas that they represent.
- Offer support, in environmental terms, to contract "managers".



5 DESCRIPTION OF THE ENVIRONMENTAL ASPECTS

PortAventura identifies its environmental aspects (under normal and abnormal conditions and in emergency situations), associated with present and future activities from a life cycle perspective, and assesses them according to evaluation criteria that allow the significance and importance of each aspect to be quantified and classified as Significant or Insignificant.

Relative percentages of the environmental aspects identified



Significant environmental aspects and their impact are shown in the table below (both direct and indirect):

SIGNIFICANT ENVIRONMENTAL ASPECTS 2017	DIRECT/INDIRECT	NATURE OF THE ASPECT	ENVIRONMENTAL IMPACT
Consumption of drinking water	Direct	Use of natural resources	Depletion of natural resources
Waste paper/cardboard	Direct and indirect	Generation, recycling, reuse and disposal of waste	Contamination of soil or water
Rubble	Direct and indirect	Generation, recycling, reuse and disposal of waste	

Emission of gases into the atmosphere from visitors' vehicles	Indirect	Generation of emissions released into the atmosphere	Impact on air quality
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The significant environmental aspects remain the same as for the previous year: consumption of drinking water, waste paper and cardboard and emission of gases into the atmosphere from visitors' vehicles, and added to this is rubble. These consumptions are significant due to the volume generated, as the consumption of paper correlates with the number of visits to the park.

The Vila-seca and general sanitary wastewater collection system are no longer a significant environmental aspect, as analysis of the water has been entirely satisfactory. Electrical energy consumption has also ceased to be a significant environmental aspect, due to a reduction in consumption and the use of 100% renewable electricity.





6 ENVIRONMENTAL PROGRAMME

6.1 OBJECTIVES AND TARGETS

Environmental objectives are proposed by the Equip Verd and then approved by the EMSR, together with the Head of each department concerned.

All environmental objectives are consistent with the Environmental Policy, applicable laws and PortAventura World's significant environmental aspects, taking associated risks and opportunities into consideration, and include a commitment to the continuous improvement of environmental strategies.

Our water and energy targets are established based on the opening calendar that is approved by Management each year. However, this calendar is always subject to modifications based on requests for events and/or opening/closing of facilities depending on current occupancy.

At the Equip Verd Environmental Committee meetings, the progress of these objectives is monitored, and the outcomes logged in the Environmental Management software.

Below are the tasks carried out in the 2017 financial year aimed at achieving the defined objectives.



Environmental Objective (E.O.B). Tasks for 2017

EOB138. ENVIRONMENTAL APPROVAL OF ALL SUPPLIERS (100%) AND IMPROVEMENT OF ENVIRONMENTAL PERFORMANCE

ENVIRONMENTAL POLICY



Items 5 and 10

GLOBAL COMPACT



10 principles

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SUSTAINABLE DEVELOPMENT GOALS



Estimated date of completion: 31/12/2017

Evaluation: The process of supplier approval has been implemented.
At the end of 2017, 95% of suppliers are approved.

Tasks carried out:

- **Task T12:** Supplier portal.
We use this new portal, accessible via PortAventura World's corporate website, to carry out the supplier approval process. The Corporate Responsibility screening criteria ensure that our suppliers act in line with PortAventura World's environmental and sustainability principles.
- **Task T13:** Workday discussions with suppliers.
Within the Corporate Responsibility policy of the Company with the objective of better understanding one of the most strategic interest groups and raising awareness among this group of how Corporate Responsibility is present across the management of the company.

EOB148. NEW ENVIRONMENTAL TRAINING PLAN

Increase the number of environmental training actions and their content.

Increase the number of employees trained.

Carry out training through environmentally friendly technologies such as e-learning.

ENVIRONMENTAL POLICY



Item 4

GLOBAL COMPACT



Principles 7 and 8

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SUSTAINABLE DEVELOPMENT GOALS



Estimated date of completion: 31/12/2018

Evaluation: At the end of 2017, training was provided for the new additions and in 2018 it will be provided for the those returning.

Tasks carried out:

- **Task T3:** Carry out initial/welcome corporate training Commitment to the Environment for new starters through the e-learning platform.
- **Task T4:** Carry out environmental training specific to the work area, for new starters through the e-learning platform.
- **Task T5:** Carry out face-to-face environmental training specific to the work area, for new starters and some returners.

EOB152. IMPLEMENTATION OF INITIATIVES TO INVOLVE VISITORS IN RESPECT FOR THE ENVIRONMENT

ENVIRONMENTAL POLICY



Item 7

GLOBAL COMPACT



Principle 8

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SUSTAINABLE DEVELOPMENT GOALS



Estimated date of completion: 31/12/2018

Evaluation: 100% of planned initiatives implemented for 2017.

Tasks carried out:

- **Task T1:** Publication of the Convention Centre Sustainable Events Handbook that details the services that customers can contract if they opt for an environmentally responsible event.
- **Task T6:** New outside recycling containers in the customer drop off area.
- **Task T7:** New waste segregation containers in large customer food and beverage areas: The Old Steak House (Far West), Jeremias' (Far West), La Cantina (México), Cactus Express (México), Sichuan (China) and El Pòsit (Mediterrània).
- **Task T8:** New outside recycling containers in the Far West area.
- **Task T9:** Promotion of the External Communication Plan on social networks:
 - Communication of World CO₂ Emissions Reduction Day.
 - Communication of World Water Day.
 - Communication of Earth Day.
 - Communication of World Environment Day.
 - Communication of World Tourism Day. Communication that PortAventura World is committed to the International Year of Sustainable Tourism.

EOB153. SUSTAINABLE MOBILITY

ENVIRONMENTAL POLICY



Items 7 and 9

GLOBAL COMPACT



Principle 8

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SUSTAINABLE DEVELOPMENT GOALS



Estimated date of completion: 31/12/2018

Evaluation: In 2017, 75% of tasks planned for this period were implemented.

In 2017, fuel consumption was decreased by 16.35% compared with 2016.

The initiative deferred to 2018 is:

- **Task T4:** Make available a car sharing platform to workers.

Tasks carried out:

- **Task T1:** Purchase of 7 electric buggies for internal transportation.
- **Task T5:** Creation of a plan for electric mobility, fleet and infrastructure.
- **Task T6:** Promotion of the use of electric vehicles by our contractors by giving a higher tender score.

EOB154. IMPROVEMENT OF WASTE MANAGEMENT

To reduce the overall amount of waste generated on site (t/million visits) by 0.5% in 2017, compared to 2016.

To improve the segregation of waste: to reduce the overall amount of mixed waste generated on site (general + MSW) by 0.5% in 2017, compared to 2016.

ENVIRONMENTAL POLICY



Item 9

GLOBAL COMPACT



Principles 7 and 8

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SUSTAINABLE DEVELOPMENT GOALS



Environmental impact: Contamination of soil or water.

Estimated date of completion: 31/12/2017

Evaluation: In 2017, the waste generated per million visits decreased by 7.04%, compared to 2016.

In 2017, general and MSW mixed waste generated per million visits decreased by 13.34%, compared to 2016.

Tasks carried out:

- **Task T2:** Placement of waste segregation containers in large customer food and beverage areas.
- **Task T4:** Reduction of organic food wastage.
- **Task T5:** Improvement of waste management in the Convention Centre.
- **Task T6:** New outside recycling containers for customers in the Far West area.
- **Task T7:** Promotion of the reuse of materials by donating obsolete materials to social organisations (e.g. material from the replacement of furniture in our hotels).
- **Task T8:** Improvement of waste segregation in internal areas.

EOB155. IMPROVEMENT OF ENVIRONMENTALLY-FRIENDLY BEHAVIOURS THROUGH INTERNAL AWARENESS CAMPAIGN

ENVIRONMENTAL POLICY



Item 2

GLOBAL COMPACT



Principles 7, 8 and 9

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SUSTAINABLE DEVELOPMENT GOALS



Estimated date of completion: 31/12/2017

Evaluation: 92.8% of planned initiatives implemented.

Tasks carried out:

- **Task T1:** Communication to raise awareness of food waste.
- **Task T3:** Raising awareness to celebrate important dates in relation to the environment:
 - World CO₂ Emissions Reduction Day, working every day to reduce our footprint.
 - World Water Day, in PortAventura World every drop counts.
 - PortAventura World is committed to the International Year of Sustainable Tourism.
 - You choose the destination of your waste: World Recycling Day.
 - Be in contact with nature, celebrate World Environment Day.
- **Task T4:** Notification of revision or publication of corporate documents on Environmental matters.
 - Updating the General Environmental Practice Handbook.
 - Review 2017 Environmental Policy.
 - Update signage on the incompatibility in the storage of hazardous substances.

- Environmental Statement 2016.
- PortAventura World publishes its 2016 Corporate Responsibility report.
- **Task T5:** Notification of all environmental certifications and standards held by the Company.
 - Communication by internet and in the PortAventura World Guide of the 3rd Edition of the Re Think Hotel Awards, in which PortAventura World receives a special mention.
 - Communication of renewal of the Environmental Management Standard for the hotels HPA, HEP, HC and HGR.

EOB156. SUSTAINABLE ENERGY CONSUMPTION

6.64% reduction in overall on-site electricity consumption (MWh per 1,000 visits-overnight stays) in 2017 compared to 2016 (PA+PACAP, HC, HEP, HPA, HGR, HML and CC). Including the new Ferrari Land area.

Total electricity consumption excludes consumption derived from unscheduled events and works.

ENVIRONMENTAL POLICY



Item 9
Related environmental aspects: electricity consumption.

GLOBAL COMPACT



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Principles 7 and 8

SUSTAINABLE DEVELOPMENT GOALS



Environmental impact: Depletion of natural resources.

Estimated date of completion: 31/12/2017

Evaluation: In 2017, electricity consumption (MWh per 1,000 visits-overnight stays) for the total of the facilities decreased by 6.90% compared to 2016.

Tasks carried out:

- **Task T1:** Daily monitoring of consumption to identify improvements.
- **Task T2:** Implementation of a time flow control system in Ferrari Land.
- **Task T3:** Energy efficiency improvement interventions:
 - Installation of equipment to automate the lighting at La Cantina.
 - Change to LED lightbulbs.
- **Task T4:** Renovation of control equipment to automate the park lighting.
- **Task T5:** Remodelling of the Hotel PortAventura kitchen with LED lighting, improvements to insulation and in the refrigeration equipment, which are now more energy efficient.
- **Task T6:** Installation of doors between the events area and the kitchen in the La Cantina food and beverage area, to improve climate control.

EOB157. SUSTAINABLE CONSUMPTION OF DRINKING WATER (Water for human consumption, water for recreation and for swimming and other water for irrigation)

Reduce overall consumption of drinking water on site by 15.36% (m³ per 1,000 visits-overnight stays) in 2017 compared to 2016 (PA+PACAP, HC, HEP, HPA, HGR, HML and CC). Including the new Ferrari Land area.

ENVIRONMENTAL POLICY



Related significant environmental aspects: drinking water consumption.

GLOBAL COMPACT



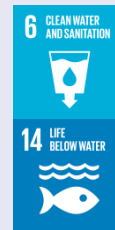
Principles 7 and 8

Network Spain

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SUSTAINABLE DEVELOPMENT GOALS



Environmental impact: Consumption of natural resources and contamination of water.

Estimated date of completion: 31/12/2017

Evaluation: In 2017, the consumption of drinking water in m³ per 1,000 visits-overnight stays decreased by 5.7% compared to 2016.

Although drinking water consumption has been reduced, the target has not been achieved.

Tasks carried out:

- **Task T1:** Daily monitoring of consumption to identify improvements.
- **Task T2:** Substitution of hand washing taps in the park bathrooms (units 216, 226, 523, 624, 636) with sensor-operated taps.
- **Task T3:** Substitution of the water pipes in the HGR buildings to avoid water leaks due to deterioration.

6.2 NON-COMPLIANCE

PortAventura World, with the aim of involving staff in the Environmental Management System (EMS), has worked to raise awareness among all employees so that they know what action should be taken following detection of any anomalies or breaches of the requirements of the aforementioned Environmental Management System.

Detecting instances of non-compliance is a great challenge for our company, as it helps us to resolve existing problems and be proactive in focusing our actions on continuous improvement. Regular operational control audits are carried out in the different centres to verify correct development of environmental measures, detect any existing or potential deviations and establish, respectively, suitable corrective and preventive measures.





7 EVALUATION OF ENVIRONMENTAL BEHAVIOURS

The definition of environmental performance indicators has taken into account the Sectoral Reference Document (SRD) approved by Commission Decision 2016/611, of 15 April 2016, concerning the reference document on best environmental management practices, sectoral indicators of environmental behaviour and comparative parameters of excellence for the tourism sector.

7.1 WASTE

Since the resort opened in 1995, motivated by a spirit of respect for the environment, improvement and commitment, PortAventura World has progressively increased the quantities of fractions of wastes segregated at source.

PortAventura World has a waste management area and contracts companies specialising in the sector for this purpose. These specialist companies take charge of installing containers for the different types of waste, and deal with collection and transportation to an authorised agent for treatment and conversion.

WASTE MANAGEMENT

As operations are variable, the number of waste fractions generated will also always vary due to the unique nature of the facilities. Waste varies according to operational needs.

As part of the objective to minimise the generation of waste, we are working with contractors and our own staff in regard to recycling and the proper use of work materials. In 2017, 34 fractions of waste were segregated. Recovery of wastes is the main route for waste management, preferable to treatment or landfills.



The following table presents the main characteristics of PortAventura World's waste management system. Some resort suppliers manage their waste directly.

WASTE		Type 1	Type 2
		Wastes generated by business activities, produced directly or indirectly by our customers	Wastes generated by company support and structural activities
METHOD OF COLLECTION		Itinerant	Individual
CONTAINERS	Non-hazardous	1 m ³ /5 m ³ /6 m ³ /drums/big bags	5 m ³ /14 m ³ /20 m ³ /30 m ³ /big bags
	Hazardous	Special big bags / 150 l cylinders/ 1 m ³ IBCs	Special big bags / 150 l cylinders/ 1 m ³ IBCs
COLLECTION POINTS	Non-hazardous	Throughout the resort	Throughout the resort
	Hazardous	Throughout the resort	Recycling points near buildings 112 and 113 and in resort workshops
NON-HAZARDOUS WASTE FRACTIONS		Cooking oil Cardboard Tins Glass containers Lightweight packaging Mixed waste (general and MSW) Batteries Plastic Organic wastes	Bulky general waste Copper cabling Cardboard Scrap metal Lightweight packaging Rubble Wood Mixed waste (general and MSW) Batteries Tyres Plastic Animal remains Plant waste, straw Toner Cooking fats
HAZARDOUS WASTE FRACTIONS		Containers of contaminants	Absorbents Mineral oil Empty aerosols Batteries and accumulators Used fats and waxes Electronic scrap Contaminated containers Cooking fats Oil filters Fridges Fluorescents Gases in pressurised containers Laboratory chemicals Waste paint Water-based cleaning fluids Paint waste with organic solvents or hazardous substances Other solvents and mixed solvents Silicone

Some PortAventura World suppliers directly manage their waste.

EVOLUTION OF THE DIFFERENT WASTE FRACTIONS

Waste	CER	Tonnes (2015)	t/million visits (2015)	Tonnes (2016)	t/million visits (2016)	Tonnes (2017)	t/million visits (2017)
Absorbents	150202	4.74	0.95	5.15	1.04	4.17	0.72
Cooking oil	200125	26.95	5.41	26.56	5.37	29.93	5.13
Mineral oil	130205	3.21	0.64	1.89	0.38	2.93	0.50
Empty aerosols	150111	0.25	0.05	0.26	0.05	0.31	0.05
Acid	060106	-----	-----	1.02	0.21	-----	-----
Bulky general waste	200307	34.04	6.83	30.79	6.22	53.96	9.24
Batteries and accumulators	200133	2.25	0.45	2.44	0.49	0.39	0.07
Copper cabling	200140	0.80	0.16	5.82	1.18	-----	-----
Copper cabling	170411	-----	-----	-----	-----	1.28	0.22
Cardboard	200101	412.20	82.70	408.33	82.55	432.63	74.11
Pumpkins	200302	17.98	3.61	15.40	3.11	8.96	1.53
Ni-Cd Accumulators	160602	0.34	0.07	0.36	0.07	-----	-----
Used fats and waxes	120112	0.30	0.06	0.23	0.05	-----	-----
Scrap metal	200140	105.20	21.11	89.29	18.05	103.49	17.73
Electronic scrap	200135	0.03	0.01	-----	-----	-----	-----
Non-hazardous electronic scrap	200136	3.78	0.76	7.51	1.52	3.07	0.53
Solvents	140602	0.03	0.01	-----	-----	-----	-----
Non-halogenated solvents	140603	0.07	0.01	0.68	0.14	-----	-----
Contaminated containers	150110	5.78	1.16	5.81	1.17	8.13	1.39
Glass containers	200102 150107	76.78 -----	15.41 -----	76.42 -----	15.45 -----	34.46 45.75	5.9 7.8
Mixed lightweight packaging	150106	153.34	30.77	153.60	31.05	193.48	33.14
Rubble	170107	250.28	50.22	316.98	64.08	413.82	70.89
Oil filters	160107	0.01	0.003	0.12	0.024	0.05	0.01

Waste	CER	Tonnes (2015)	t/million visits (2015)	Tonnes (2016)	t/million visits (2016)	Tonnes (2017)	t/million visits (2017)
Fluorescents	200121	1.26	0.25	1.80	0.363	1.41	0.24
Gases in pressurised containers	160504	0.16	0.03	-----	-----	0.11	0.02
Cooking fats	020204	80.28	16.11	17.96	3.63	-----	-----
Cooking fats	190809	-----	-----	-----	-----	37.84	6.48
Lighting	160214	0.97	0.20	3.71	0.75	1.46	0.25
Water-based cleaning fluids	120301	0.05	0.01	0.61	0.12	-----	-----
Water containing hydrocarbons	160708	35.24	7.07	0.02	0.00	-----	-----
Wood	200138	128.06	25.69	104.67	21.16	156.02	26.73
Mixed waste (general and MSW)	200301	1,697.58	340.60	1737.29	351.22	1776.71	304.36
Tyres	160103	-----	-----	0.32	0.07	0.42	0.07
Fridges	200123	-----	-----	0.70	0.14	1.65	0.28
Other solvents and mixed solvents	140603	0.17	0.03	-----	-----	0.17	0.03
Pencil batteries	160604	0.25	0.05	0.19	0.04	0.18	0.03
Plastic	200139	6.98	1.40	9.11	1.84	12.09	2.07
Laboratory chemicals	160506	0.11	0.02	0.04	0.01	0.25	0.04
Inorganic chemicals	160507	0.18	0.04	0.82	0.17	-----	-----
Water-based wastes with hazardous substances	161001	1.06	0.21	-----	-----	-----	-----
Paint waste containing organic solvents or hazardous substances	080111	1.58	0.32	0.83	0.17	0.33	0.06
Mixed construction and demolition wastes	170904	-----	-----	-----	-----	15.20	2.60
Organic wastes	200108	529.36	106.21	499.68	101.02	523.87	89.74
Plant waste, straw	200201	14.10	2.83	-----	-----	17.34	2.97
Plant waste, straw	200202	9.86	1.98	18.12	3.66	-----	-----

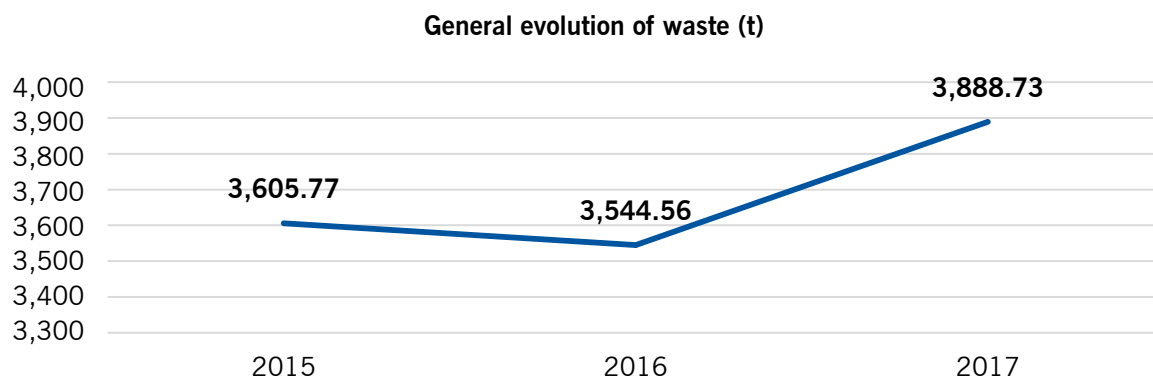
Waste	CER	Tonnes (2015)	t/million visits (2015)	Tonnes (2016)	t/million visits (2016)	Tonnes (2017)	t/million visits (2017)
Silicone	080409	-----	-----	0.04	0.01	-----	-----
Contaminated soil	170503	-----	-----	-----	-----	-----	-----
Textiles	200111	-----	-----	-----	-----	6.82	1.17
Toner	080318	0.15	0.03	0.01	0.00	0.06	0.01

Total waste generated in tonnes		3,605.77	723.46	3,544.56	716.60	3,888.73	666.16
--	--	-----------------	---------------	-----------------	---------------	-----------------	---------------

	2015	2016	2017
Visits-overnight stays	4,984,092	4,946,389	5,837,509

PortAventura World's waste management is coordinated throughout the resort.

Tonnes of waste generated are rounded to 2 decimal places.



Tonnes rounded to 2 decimal places.

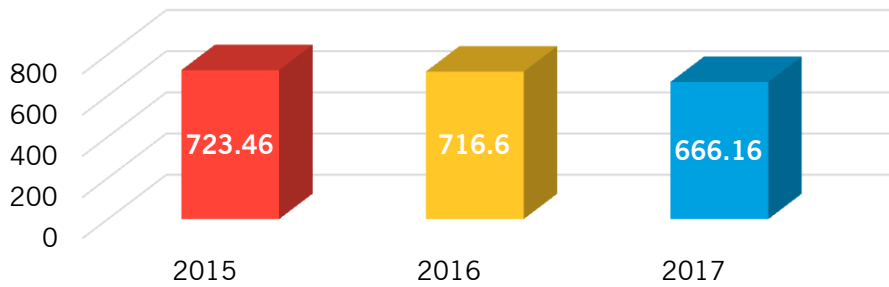
In absolute values, in 2017 generation of waste has increased by 9.71%, compared with 2016.

This increase in waste generation is due to the fact that PortAventura World Resort opened its doors to the public more days than in 2016, Ferrari Land opened, and Cirque du Soleil returned to PortAventura World, all leading to an increase in visits by 18% of visits compared with 2016.

Therefore, the tonnage of waste per million visits has decreased compared with previous years. In 2017, 666.16 tonnes of waste were generated per million visits.

The following graph shows the evolution of waste generation per million visits during the period 2015-2017.

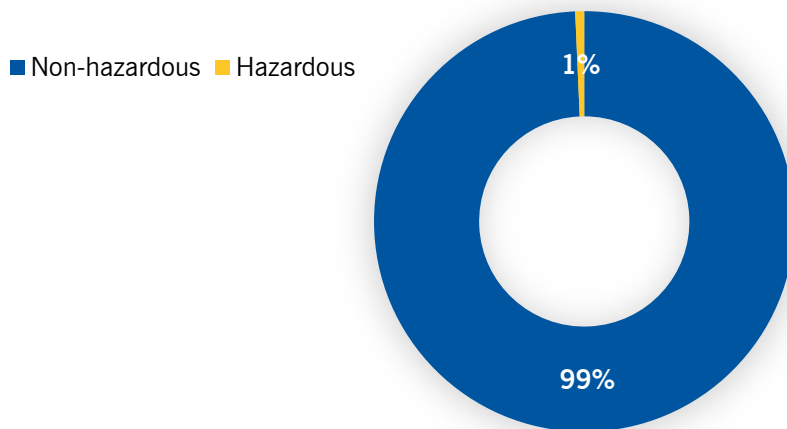
Evolution of waste generation per million visits (t)



Tonnes rounded to 2 decimal places.

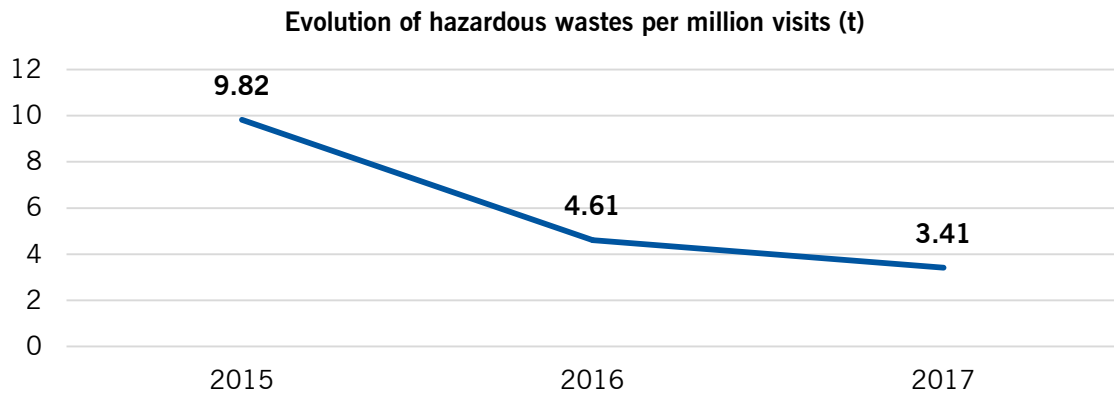
HAZARDOUS WASTES

Waste Classification 2017



In 2017 hazardous wastes represented 1% of the total wastes generated, which remains the same percentage as in previous years.

Although the amounts of hazardous and non-hazardous wastes have not changed, in 2017 there was actually a decrease in the percentage of hazardous waste generated compared to 2016.

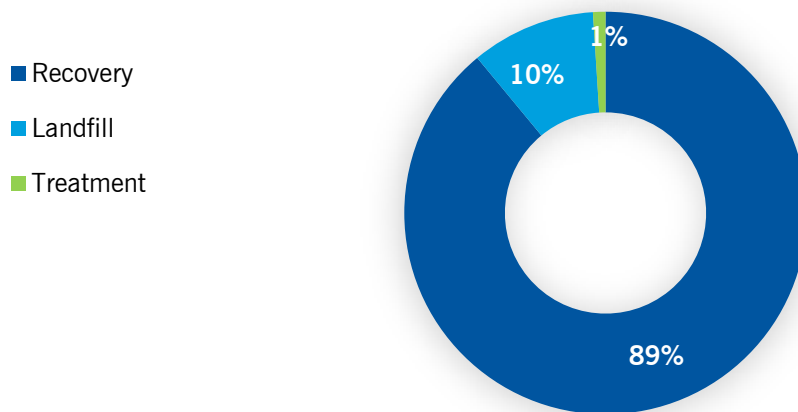


Tonnes rounded to 2 decimal places.

MANAGEMENT ROUTES

Wastes were handled according to the following management routes:

Percentage distribution of waste management by management route 2017



EVOLUTION OF WASTE MANAGEMENT ROUTE DISTRIBUTION			
Management	2015	2016	2017
Recovery (%)	93	93	89
Treatment (%)	3	1	1
Landfill (%)	4	6	10

Waste for landfill has increased because a new category of waste was generated, mixed construction and demolition wastes, due to the Ferrari Land works.

7.2 WATER

Water plays a fundamental role in the operation and theming of our resort. Since the beginning, PortAventura World has always been conscious that water is a vital resource for life and represents a key factor for surrounding socio-economic, industrial and tourism development.

Correct water management is one of PortAventura World's greatest challenges.

WATER CATEGORISED ACCORDING TO SOURCE AND USE

In regard to source and use, at PortAventura World we are able to differentiate between four different types of water:

- Water for human consumption
- Water for recreation or swimming
- Reclaimed water for irrigation
- Other water for irrigation.



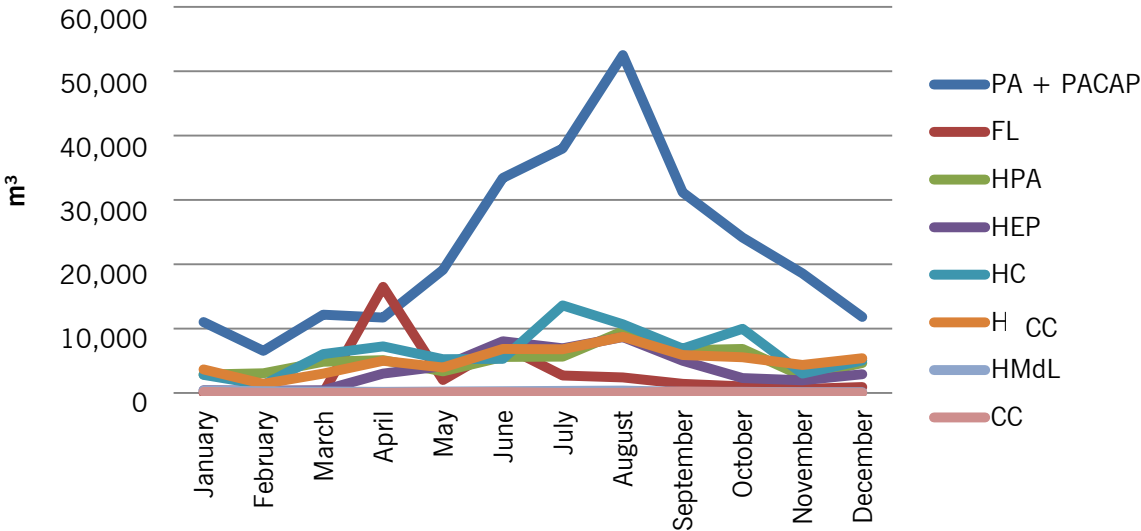
WATER FOR HUMAN CONSUMPTION

Water coming from the municipal supply is used fundamentally in restaurants, toilets, for personal hygiene, for cleaning, etc. In practice, close to 100% of this becomes wastewater. It is important to point out that this indicator regarding water management is highly dependent upon the correct behaviour of our customers. In this regard, our customers are the main consumers of this type of water.

In 2017, water for human consumption (m³) and visits-overnight stays were as follows:

	Human water consumption, m ³ (2017)	Visits-overnight stays (2017)
PortAventura Park	270,213	3,666,316
PortAventura Caribe Aquatic Park		335,351
Ferrari Land	34,900	713,421
Hotel PortAventura	60,759	275,522
Hotel El Paso	44,036	238,822
Hotel Caribe	76,907	246,034
Hotel Gold River	60,535	276,393
Hotel Mansión de Lucy	2,754	16,868
Convention Centre	813	68,782

Water for human consumption 2017



Consumption of water for human consumption (m³) in relation to 1,000 visits-overnight stays, represented with reference to previous years:

	2015	2016	2017
PortAventura Park/ PortAventura Caribe Aquatic Park	82.31	70.82	67.53
Ferrari Land	-----	-----	48.92
Hotel PortAventura	125.67	151.64	220.52
Hotel El Paso	207.54	199.75	184.39
Hotel Caribe	197.57	193.83	312.59
Hotel Gold River	191.70	204.35	219.02
Hotel Mansión de Lucy	108.31	148.18	163.27
Convention Centre	11.42	10.28	11.82

Figures rounded to 2 decimal places.

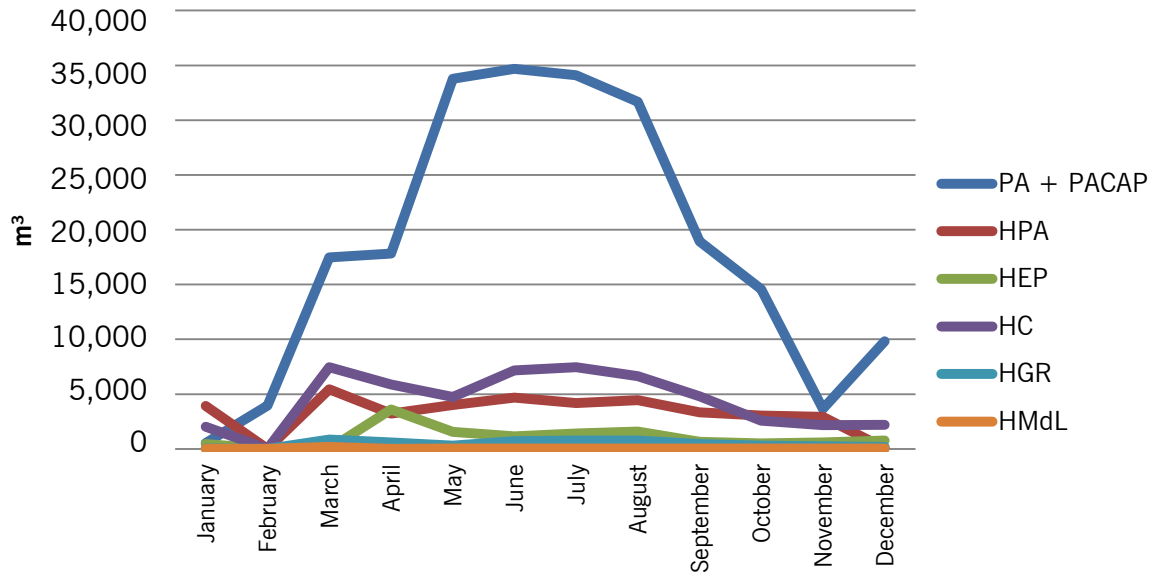
WATER FOR RECREATION AND SWIMMING

For our system, we have made the distinction between values recorded for the consumption of water in recreational use and swimming, and between those recorded in the above section. Although this subcategory of water is derived from the same source as water previously mentioned, it is kept in a closed circuit, filtered and treated. Consequently, only a small percentage is poured away as wastewater after washing filters.

In 2017, the consumption of water for recreation and swimming (m³) and visits-overnight stays were as follows:

	Water for recreation and swimming, m ³ (2017)	Visits-overnight stays (2017)
PortAventura Park	162,753	3,666,316
PortAventura Caribe Aquatic Park	58,245	335,351
Hotel PortAventura	39,248	275,522
Hotel El Paso	12,253	238,822
Hotel Caribe	53,086	246,034
Hotel Gold River	5,236	276,393
Hotel Mansión de Lucy	472	16,868

Water for recreation and swimming 2017



Water consumption for recreational and swimming (m³) in relation to 1,000 visits-overnight stays, represented with reference to previous years:

	2015	2016	2017
PortAventura Park	27.68	41.24	44.39
PortAventura Caribe Aquatic Park	187.39	165.49	173.68
Hotel PortAventura	114.01	110.76	142.45
Hotel El Paso	58.18	58.10	51.31
Hotel Caribe	314.89	232.33	215.77
Hotel Gold River	71.16	29.01	18.94
Hotel Mansión de Lucy	46.39	31.19	27.98

Figures rounded to 2 decimal places. The Convention Centre does not use this category of water in its facilities.

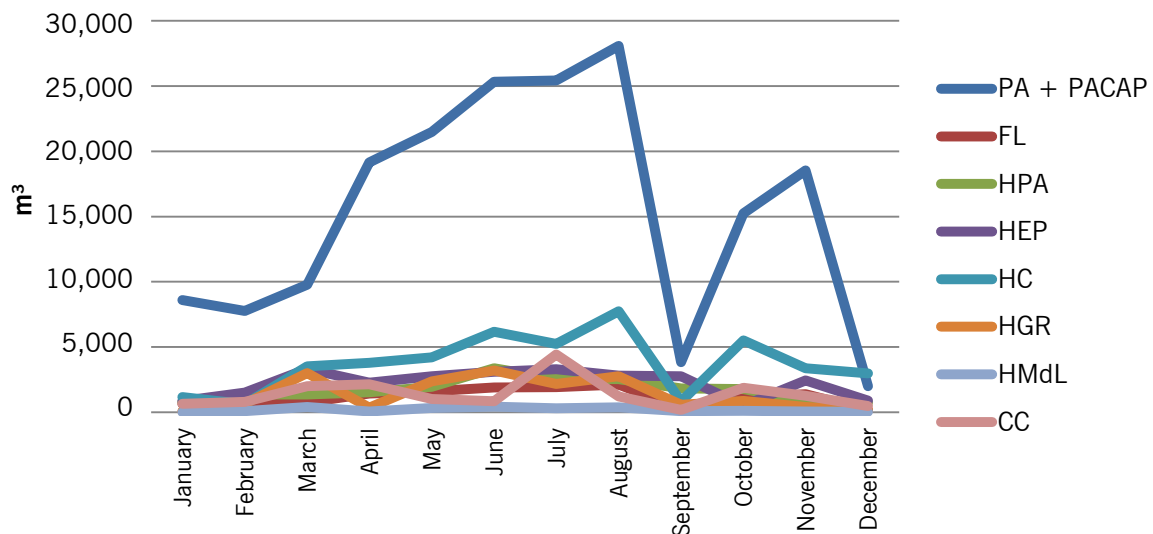
RECLAIMED WATER FOR IRRIGATION

This type of water consists of purified waste water that has undergone an additional or supplementary treatment process, allowing it to be used for certain purposes – in this case, irrigation. The reclaimed water reused in PortAventura World comes from tertiary treatment at the Wastewater Treatment Plant in Vila-seca and Salou, and since 1996 has been used exclusively to water the vegetation.

In 2017, reclaimed water for irrigation in m³ and the m² of landscaped areas were as follows:

	Reclaimed water for irrigation, m ³ (2017)	landscaped areas, m ² (2017)
PortAventura Park	185,248	444,945
PortAventura Caribe Aquatic Park		19,019
Ferrari Land	13,943	21,000
Hotel PortAventura	20,700	33,915
Hotel El Paso	26,528	21,038
Hotel Caribe	45,147	32,538
Hotel Gold River	18,895	46,712
Hotel Mansión de Lucy		5,542
Convention Centre	16,898	19,474

Reclaimed water for irrigation 2017



Reclaimed water for irrigation (m³) in relation to landscaped surface area (1,000 m²), represented with reference to previous years:

	2015	2016	2017
PortAventura Park/ PortAventura Caribe Aquatic Park	231.36	366.85	399.27
Ferrari Land	-----	-----	663.95
Hotel PortAventura	399.82	486.81	610.35
Hotel El Paso	708.19	785.58	1,260.96
Hotel Caribe	780.44	872.06	1,387.52
Hotel Gold River/Hotel Mansión de Lucy	314.62	280.11	361.60
Convention Centre	469.45	982.90	867.72

Figures rounded to 2 decimal places.

OTHER WATER FOR IRRIGATION

On occasions, the water coming from the WWTP is not suitable for watering parks and gardens, whether due to microbiological contamination or salt concentration levels. In these situations, when the water cannot be used for irrigation, alternative sources must be found in order to ensure the survival of plant species.

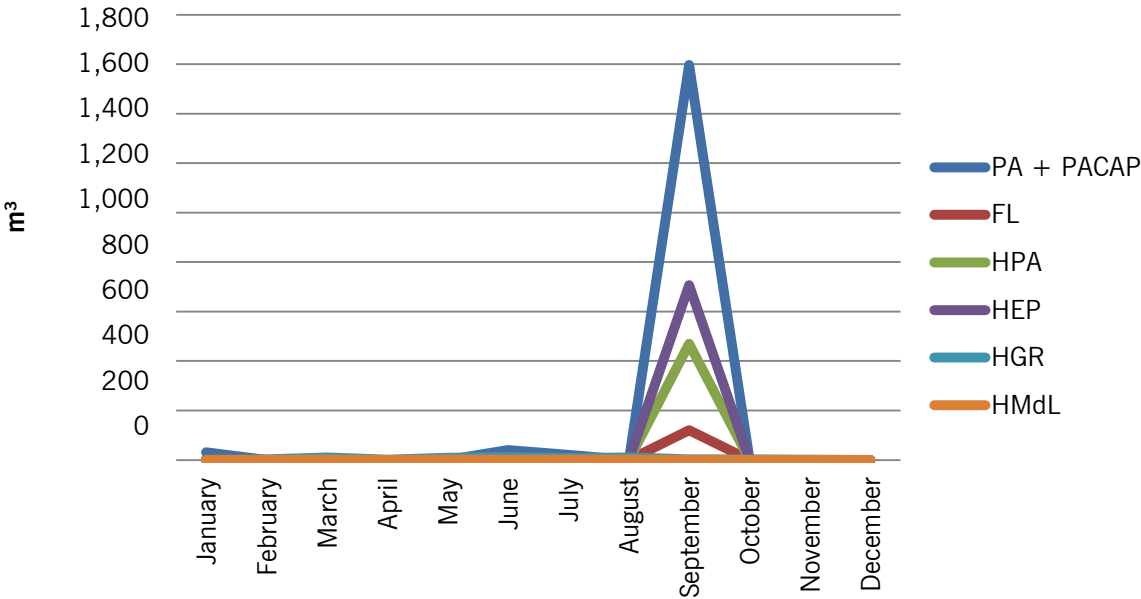
This consumption and, subsequently, its indicators are totally conditioned by the quality of water sent by Vila-seca and Salou WWTP.



2017 figures for other water for irrigation (m³) and landscaped area (m²) were as follows:

	Other water for irrigation, m ³ (2017)	landscaped areas, m ² (2017)
PortAventura Park	1,690	444,945
PortAventura Caribe Aquatic Park		19,019
Ferrari Land	127	21,000
Hotel PortAventura	479	33,915
Hotel El Paso	718	21,038
Hotel Gold River	65	46,712
Hotel Mansión de Lucy		5,542

Other water for irrigation. 2017



Other water for irrigation (m³) in relation to landscaped surface area (1,000 m²), represented with reference to previous years:

	2015	2016	2017
PortAventura Park/ PortAventura Caribe Aquatic Park	3.98	2.24	3.64
Ferrari Land	-----	-----	6.05

Hotel PortAventura	9.79	2.18	14.12
Hotel El Paso	6.89	2.23	34.13
Hotel Gold River/Hotel Mansión de Lucy	5.30	0.67	1.24

Figures rounded to 2 decimal places. Hotel Caribe and the Convention Centre do not use this category of water.

WATER CATEGORISED BY DESTINATION

According to its final intended use, the water at PortAventura World can be classified as:

- Wastewater
- Stormwater

The entire PortAventura World resort is built on a project of separate networks that makes it possible to direct the different types of water to the most appropriate end destination.

WASTEWATER

All wastewater generated in the resort is conducted via a network of drains connected to the Waste Water Treatment Plant (WWTP) in Vila-seca and Salou where the water undergoes tertiary treatment in order to reclaim the water so that it can be used for irrigation within the resort and even for some of Vila-seca's municipal parks and gardens.

Regular voluntary internal quality control checks are carried out on the wastewaters in the four existing drains: Vila-seca, General (Salou), Hotel El Paso and Hotel Caribe. These provide us with a series of data that we can use to carry out any necessary improvements.

The values of the internal monitoring analysis for the last three years are shown below:

	Vila-seca Drain		
	2015	2016	2017
Suspended matter (mg/l)	144.3	343.8	71
IM (Equitox/ m3)	5.5	9.6	3
COD (not decanted) (mg O2/l)	504.0	832.3	69
COD (decanted 2h) (mg O2/l)	259.5	516.8	10
Conductivity at 25 °C (µs/cm)	2,203.8	2398.0	1382
pH at 25 °C (u)	7.3	7.2	7.5
Chlorides (mg/l)	211.6	208.4	288
Kjeldahl Nitrogen (mg/l)	94.2	75.3	5.1
Total Phosphorus (mg/l)	9.6	13.7	0.9

Ammonium (mg/l)	95.4	62.9	0.5
Oils and fats (mg/l)	2.9	12.4	0.5

Figures rounded to 1 decimal place.

	General Drain - Salou		
	2015	2016	2017
Suspended matter (mg/l)	149.0	150.3	33
IM (Equitox/ m3)	5.5	12.2	4.3
COD (not decanted) (mg O2/l)	398.0	589.5	272
COD (decanted 2h) (mg O2/l)	189.0	396.5	71
Conductivity at 25 °C (µs/cm)	1,902.0	2309.0	1225
pH at 25 °C (u)	7.3	7.4	8.1
Chlorides (mg/l)	274.1	147.2	122
Kjeldahl Nitrogen (mg/l)	60.6	93.5	34.9
Total Phosphorus (mg/l)	7.1	12.4	3.6
Ammonium (mg/l)	54.5	112.0	30.3
Oils and fats (mg/l)	7.1	45.5	3.2

Figures rounded to 1 decimal place.

	Hotel El Paso Drain		
	2015	2016	2017
Suspended matter (mg/l)	139.0	69	13
IM (Equitox/ m3)	5.8	6.4	3
COD (not decanted) (mg O2/l)	508.0	661	21
COD (decanted 2h) (mg O2/l)	196.0	254	10
Conductivity at 25 °C (µs/cm)	3,830.0	1768	1070
pH at 25 °C (u)	6.4	7.1	7.7
Chlorides (mg/l)	674.6	868.5	133
Kjeldahl Nitrogen (mg/l)	32.4	57	2.5
Total Phosphorus (mg/l)	6.1	9.7	0.3
Ammonium (mg/l)	24.3	60.8	0.5
Oils and fats (mg/l)	9.5	7.2	0.5

Figures rounded to 1 decimal place.

	Hotel Caribe Drain		
	2015	2016	2017
Suspended matter (mg/l)	22.0	72	54
IM (Equitox/ m ³)	3.0	11	3
COD (not decanted) (mg O2/l)	210.0	764	115
COD (decanted 2h) (mg O2/l)	170.0	480	11
Conductivity at 25 °C (µs/cm)	3,320.0	1594	1724
pH at 25 °C (u)	6.9	6.8	8
Chlorides (mg/l)	691.0	162.2	339
Kjeldahl Nitrogen (mg/l)	33.6	41.6	7.9
Total Phosphorus (mg/l)	4.6	6.1	1.7
Ammonium (mg/l)	24.3	48.8	7.6
Oils and fats (mg/l)	1.4	9.8	0.5

Figures rounded to 1 decimal place.

In 2017, in all monitoring carried out, none of the limits were surpassed in any of the 4 drains.

STORMWATER

Typically, stormwater represents a token gesture towards helping to manage water consumption given the heavy rain in the Mediterranean. However, it should be highlighted that thanks to the water network within the resort that separates wastewater and stormwater, we are able to benefit from some of the rain. PortAventura Park's main lake collects almost all of the rainfall in the park.

7.3 ENERGY MANAGEMENT

Electricity and gas, together with water, are the main natural resources consumed in PortAventura World.

ELECTRICITY

PortAventura World is equipped with an energy management system that is controlled by a central computer. This computer centralises programmable automatons (PLCs) responsible for the control of the principle energy consumers distributed throughout the facilities of the park and hotels.

The facilities are also equipped with energy-saving resources, thereby reducing our carbon footprint. Some of the resources that we use are: energy-saving/LED bulbs, control of electricity consumptions devices via a computer system, etc. The hotels also include a connection key for electricity in the bedrooms, switch-off of the air conditioning when the window is opened, etc.

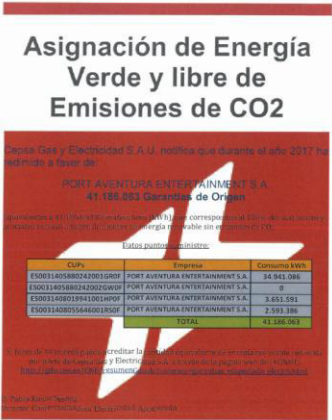
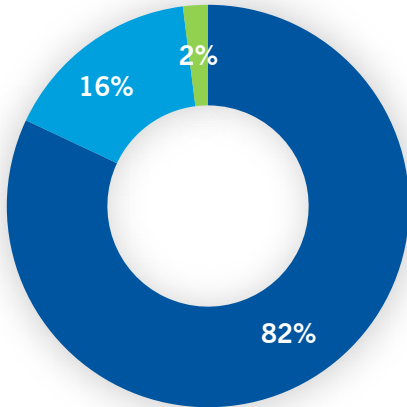
SOURCE OF ELECTRICITY

100% of PortAventura World’s electricity supply for 2017 comes exclusively from renewable energy sources without CO₂ emissions, Guarantee of Origin (GO).

Electricity represents around 82% of PortAventura World’s total energy consumption.

% Energy consumption in PortAventura World in 2017

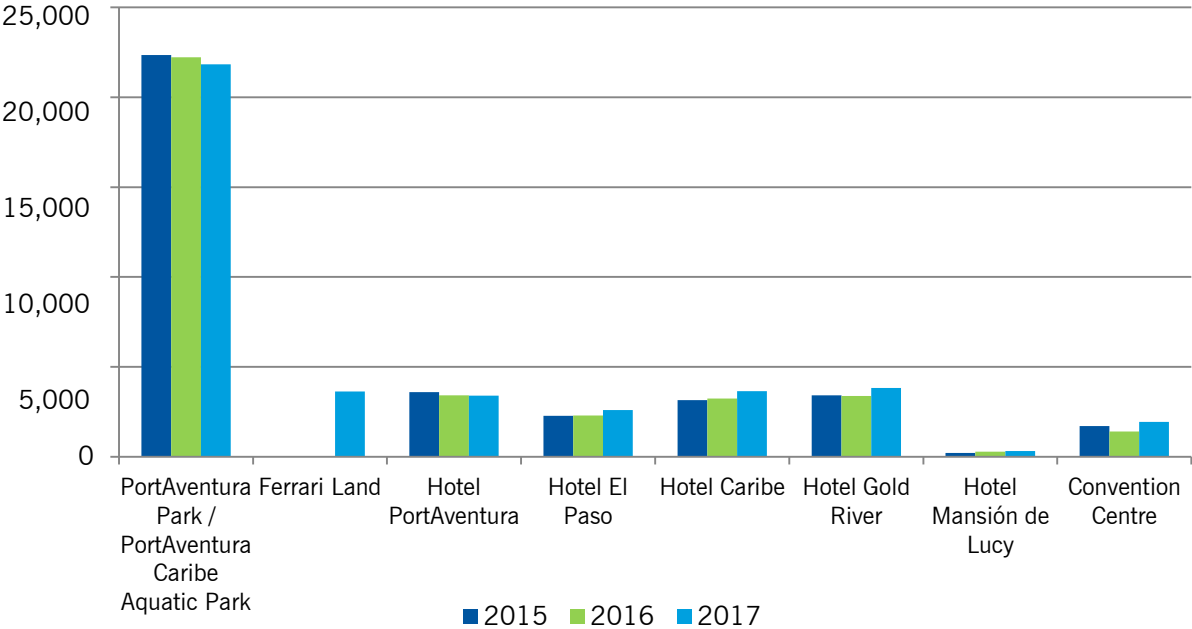
- Electricity
- Natural Gas
- Others (fuels and propane gas)



Electricity consumption (MWh) and visits-overnight stays in 2017 are set out in the following table:

	Electricity MWh (2017)	Visits-overnight stays (2017)
PortAventura Park	21,840.16	3,666,316
PortAventura Caribe Aquatic Park		335,351
Ferrari Land	3,624.89	713,421
Hotel PortAventura	3,400.86	275,522
Hotel El Paso	2,593.39	238,822
Hotel Caribe	3,651.59	246,034
Hotel Gold River	3,817.80	276,393
Hotel Mansión de Lucy	317.11	16,868
Convention Centre	1,940.26	68,782

Electricity Consumption in MWh



Electricity consumption (MWh) in relation to 1,000 visits-overnight stays, represented with reference to previous years:

	2015	2016	2017
PortAventura Park / PortAventura Caribe Aquatic Park	5.67	5.70	5.46
Ferrari Land	-----	-----	5.08
Hotel PortAventura	11.83	10.90	12.34
Hotel El Paso	12.25	11.18	10.86
Hotel Caribe	14.43	14.51	14.84
Hotel Gold River	14.13	15.15	13.81
Hotel Mansión de Lucy	15.47	19.52	18.80
Convention Centre	20.99	19.39	28.21

Figures rounded to 2 decimal places.

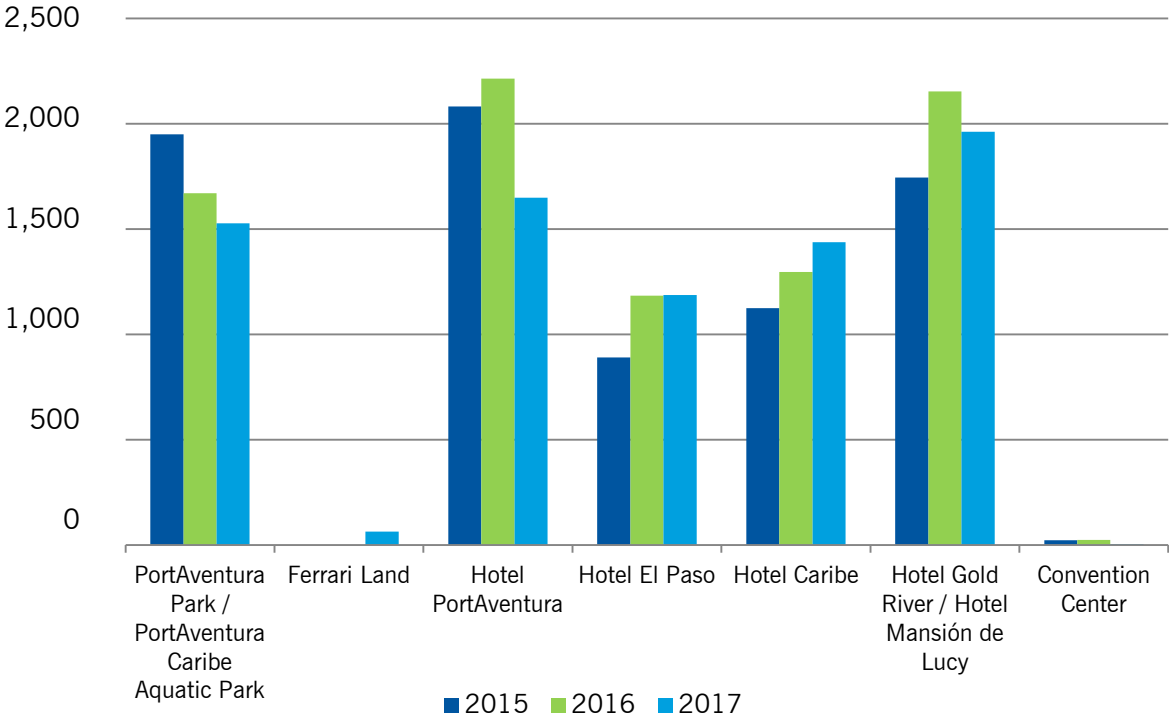
NATURAL GAS

In our facilities, this type of energy is used mainly to heat water for personal hygiene and for use in the kitchens.

Natural gas consumption (MWh) and visits-overnight stays in 2017 were as follows:

	Natural gas, MWh (2017)	Visits-overnight stays (2017)
PortAventura Park	1,527.62	3,666,316
PortAventura Caribe Aquatic Park		335,351
Ferrari Land	63.65	713,421
Hotel PortAventura	1,649.77	275,522
Hotel El Paso	1,186.91	238,822
Hotel Caribe	1,437.72	246,034
Hotel Gold River	1,961.79	276,393
Hotel Mansión de Lucy		16,868
Convention Centre	4.57	68,782

Gas consumption in MWh



Natural gas consumption (MWh) in relation to 1,000 visits-overnight stays and year. The results for the last three years are set out below:

	2015	2016	2017
PortAventura Park/ PortAventura Caribe Aquatic Park	0.49	0.43	0.38
Ferrari Land	-----	-----	0.09
Hotel PortAventura	6.86	7.09	5.99
Hotel El Paso	4.82	5.79	4.97
Hotel Caribe	5.16	5.81	5.84
Hotel Gold River + Hotel Mansión de Lucy	6.82	9.08	6.69
Convention Centre	0.28	0.33	0.07

Figures rounded to 2 decimal places.

OTHER ENERGIES

	2015	2016	2017
Fuels (MWh)	1,290	1,032	912
Propane gas (MWh)	64	84	99

The indicator for this consumption per number of visits is not representative due to the high number of visits to the resort.



ENERGY EFFICIENCY

Energy efficiency for the whole resort is the sum of all energy consumption (electricity, natural gas, fuel and propane gas) in MWh.

	2015 (MWh)	2016 (MWh)	2017 (MWh)
Diesel B	79.18	0.00	30.07
Diesel A	833.36	815.86	697.95
Diesel C	98.95	0.00	0.00
Petrol	278.12	216.46	183.51
Propane Gas Consumption	64.21	83.97	98.79
Natural Gas Consumption	7,817.02	8,543.52	7,832.03
Electricity Consumption	36,682.23	36,211.47	41,186.06
	45,853.07	45,871.28	50,028.41

Total energy consumption (MWh) and visits-overnight stays in 2017 were as follows:

	Total energy in MWh (2017)	Visits-overnight stays (2017)
Resort	*50,028.41	5,837,509

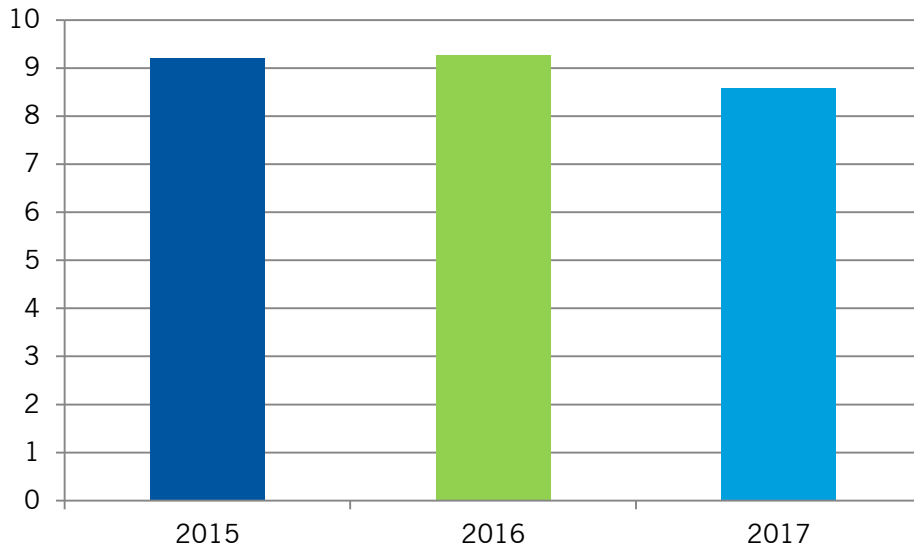
*Figures rounded to 2 decimal places.

Energy efficiency (MWh) in relation to 1,000 visits-overnight stays and year. The results for the last three years are set out below:

	2015	2016	2017
Total energy consumption (MWh) in relation to 1,000 visits-overnight stays and year	9.20	9.27	8.57

Figures rounded to 2 decimal places.

Energy efficiency (MWh) per 1,000 visits-overnight stays



7.4 AIR EMISSIONS AND NOISE

Taking into consideration all of PortAventura World's activities, air emissions are not relevant and environmental impact is very low. However, we do pay special attention to the control of this aspect.

The emission points are:

- Diesel steam train locomotives (two engines).
- Natural gas-powered central heating and/or hot water boilers.
- Carpentry and painting.
- Motor vehicles.
- Combustion of natural gas for Templo del Fuego and FiestAventura.

For the first three, measurements are taken of the emissions into the atmosphere every three years, the last measurement was taken in 2015, and the corresponding results are within legal limits.

The final two are considered to be diffuse emissions and are managed by controlling consumption. The indicator of total annual emissions to air of SO₂, NO_x and PM derived from the direct consumption of liquid fuels used for transport is not considered relevant when taking into account all PortAventura World activities. In regard to noise pollution, noise measurements have been taken every 3 years from the boundaries with the closest neighbours, the last measurement was taken in 2015.

7.5 CARBON FOOTPRINT / GREENHOUSE GAS EMISSIONS

Since 2008, PortAventura World has been working on calculating the carbon footprint of its activities and quantifying the emissions of greenhouse gases expressed as tonnes of CO₂. Calculations are based on the current annual version of “*Guia pràctica per el càlcul d'emissions de gasos amb efecte hivernacle (GEH)*” [practical guide to calculating the emissions of greenhouse gases (GHG)] issued by the Catalan Office for Climate Change.

This evaluation includes the following categories in accordance with international protocols:

- Scope 1. Direct Emissions: emissions from the transport of own fleet and the combustion of fossil fuels (ACS/heating boilers), fugitive emissions of fluorinated gases from refrigeration equipment.
- Scope 2. Indirect emissions associated with electricity consumption.
- Scope 3. Other indirect emissions: treatment of municipal waste and consumption of drinking water.

	2015	⁽³⁾ 2016	⁽³⁾ 2017
Total annual greenhouse gas emissions expressed as equivalent tonnes of CO₂	16,350	5,565	7,405
* Annual greenhouse gas emissions expressed as equivalent tonnes of CO₂ per 1,000 visits-overnight stays and year	3.28	1.13	1.27

¹ Figures rounded to 2 decimal places.

³ In 2016 and 2017, indirect emissions associated with electricity consumption are 0 tonnes CO₂/kWh because 100% of the supply comes exclusively from renewable sources without CO₂ emissions, Guarantee of Origin (GO).



7.6 BIODIVERSITY

M² constructed:

	2015	2016	2017
PortAventura Park	262,692.84	262,702.07	262,702.07
PortAventura Caribe Aquatic Park	5,832.36	5,832.36	5,832.36
Ferrari Land	-----	-----	58,827.46
Hotel PortAventura	33,839.91	33,839.91	33,839.91
Hotel El Paso	26,827.69	26,827.69	26,827.69
Hotel Caribe	30,708.47	30,708.47	30,708.47
Hotel Gold River/Hotel Mansión de Lucy	36,851.04	36,851.04	36,851.04
Convention Centre	13,588.61	13,588.61	13,588.61

Figures rounded to 2 decimal places.



7.7 EFFICIENT CONSUMPTION OF CERTAIN MATERIALS

Materials	Environmental Aspect	2015	2016	2017
Chemical products for swimming pool and lake maintenance (t)	Consumption of chemical products	*770.68	*664.93	*671.12
Light bulbs (units)	Light emissions into the atmosphere	17,534	19,441	19,917
Bags for sale of products in resort shops (kg)	Use of natural resources	10,618	11,156	19,122
Cleaning products (l)	Consumption of chemical products	*94,695	*109,088	*148,680
Oils and lubricants (l)	Consumption of chemical products	9,831	**12,165	7,815.15

The indicator for these materials per number of visits is not representative due to the high number of visitors to the resort.

*From 2015, our service providers' use of chemicals used in the maintenance of swimming pools, lakes and cleaning products are included in consumption.

** In 2016, the consumption of oils and lubricants in the Ferrari Land park was included.





8 ENVIRONMENTAL LEGISLATION

PortAventura World has contracted the services of an external specialist company for the identification and evaluation of compliance with applicable legislation and other non-obligatory requirements.

Computerised tools are used to identify the legislation applicable to the organisation on environmental and industrial safety matters on an international, European, national, regional and local scale, as well as all other requirements.

Experts carry out an annual review to verify legal compliance, to guarantee that the company is operating under the terms established by law.

The following table shows some of the legal requisites that must be strictly observed by PortAventura World:

Legislation	Legal requirements
Law 20/2009, of 4 December, on prevention and environmental control of activities.	Enacts the decision for PortAventura World's environmental authorisation of 31 July 2013 and its subsequent resolutions of non-substantial changes. For example: Angkor (21/01/2014), or the expansion of Hotel Gold River (06/10/2014) and Hotel Mansión de Lucy (23/01/2015), and the launch of Ferrari Land (25/11/2016).
Royal Legislative Decree 1/2001, of 20 July, which approves the Consolidated Water Act.	Grants the Reclaimed Water Permit, granting permission to use treated water from Vila-seca and Salou WWTP for irrigation of green areas in the parks and hotels.
Decree 130/2003, of 13 May, which approves Public Sanitation Service Regulations.	Provides for 2013 environmental authorisation, including the permit for disposal of wastewaters.
Decree 176/2009, of 10 November, which approves Regulation of Law 16/2002, of 28 June, on protection against sound pollution and brings in line its annexes.	In 2015 noise measurements were taken from the boundaries with the closest neighbours, and new measurements are expected in 2018.
Technical instruction for the arrangement of emission sources to perform emission measurements (IT AT 2).	Arrangement of the emission sources to comply with this instruction was carried out in 2013. Monitoring of emission sources was performed in 2015, although there is no legal obligation to perform this monitoring, and this is expected to be done again in 2018.

Legislation	Legal requirements
Regulation (EU) 517/2014 of the European Parliament and Council, 16 April 2014 on fluorinated greenhouse gases and by which Regulation (EC) No 842/2006 is repealed.	Leak checks of equipment containing fluorinated gases are performed according to the frequency established in the Regulation on the basis of equivalent tonnes of CO ₂ .
Decree 190/2015, of 25 August, development of Law 6/2001 of 31 May, environmental arrangement of lighting for the protection of the night environment.	Applies to new lighting facilities and devices, and modifications and extensions of existing facilities.
Law 22/2011, of 28 July, on contaminated soils and wastes.	Provides for management of waste and promotes measures to prevent its generation, as well as mitigating adverse impacts on human health and on the environment associated with generation and handling, prioritising waste recovery.
Royal Decree 180/2015 of 13 March regulating transportation of wastes in Spain.	Contracts and prior notifications with the corresponding waste managers are available.
Royal Decree 56/2016, of 12 February, which transposes Directive 2012/27/EU of the European Parliament and of the Council, of 25 October 2012, on energy efficiency, with regard to energy audits, accreditation of energy service providers and auditors and the promotion of the efficiency of the power supply.	The corresponding energy efficiency audit has been carried out.
Resolution TES/1113/2016, of 19 April, establishing environmental criteria for awarding hotel operators the Environmental Quality Standard.	In February 2017, the Environmental Quality Standard was renewed for Hotel PortAventura, Hotel El Paso, Hotel Caribe and Hotel Gold River. Hotel Mansión de Lucy was awarded the standard for the first time in March 2016, and currently all 5 hotels in the resort hold this quality guarantee.
Royal Decree 235/2013, of 5 April, which approves the basic procedure for the certification of the energy efficiency of buildings. Royal Decree 564/2017, of 2 June, amending Royal Decree 235/2013, of 5 April, which approves the basic procedure for the certification of the energy efficiency of buildings.	Applicable to new buildings: Hotel Gold River, ChikiTienda, Angkor, The Callaghan's, constructions in the Ferrari Land area. This is not currently applicable to the other buildings.
Decree 30/2015, of 3 March, which approves the catalogue of activities and centres obliged to adopt self-protection measures and establishes the content of these measures.	Approved by Civil Protection on 8 October 2013. In 2017, the review of the PAU was carried out, and in 2018 it will be presented to Civil Protection.

Legislation	Legal requirements
Royal Decree 513/2017, of 22 May, which approves the Fire Protection Regulations.	Maintenance of fire protection facilities and the quarterly, six-monthly and annual review of fire protection systems, as well as the review of fire hydrants every five years.
Royal Decree 238/2013, of 5 April, amending certain articles and technical instructions for the Regulation of Thermal Installations in Buildings, approved by Royal Decree 1027/2007 of 20 July.	Inspection of the energy efficiency of air conditioning units with output equal to or greater than 12 kW. Perform inspections of thermal facilities for heating and hot water systems with output equal to or greater than 20 kW.
Royal Decree 138/2011, which approves Safety Regulation for refrigerator units and their supplementary technical instructions.	Provides for legalisation of refrigeration systems and corresponding reviews.
Royal Decree 337/2014, of 9 May, in approval of the Regulation on technical conditions and safety guarantees in high voltage electrical installations and Supplementary Technical Instructions ITCRAT 01 to 23.	Regulates legalisation of high voltage installations and associated inspections.
Royal Decree 97/2014 of 14 February regulating road transport of hazardous goods in Spain.	A Security Adviser is appointed, the annual report is delivered to the competent body in the first quarter of the year. The annual technical visit with a corresponding report is carried out.
Royal Decree 656/2017, of 23 June, approving the Regulation on Storage of Chemical Products and Supplementary Technical Instructions MIE APQ 0 to 10.	If new storage of chemical products is required, it will be carried out in accordance with the provisions of this Royal Decree.



9 VALIDATION

Environmental Statement in accordance with the requirements established in Annex IV. Regulation (EC) No. 1221/2009 of the EUROPEAN PARLIAMENT AND EUROPEAN COUNCIL of 25 November 2009 on the voluntary participation by organisations in a community eco-management and audit scheme (EMAS), repealing Regulation (EC) No. 761/2001 and Decisions 2001/681/EC and 2006/193/EC of the Commission.

TÜV Rheinland Ibérica,

Inspection, Certification and Testing, S.A. (004-V-EMAS-R)

Organisation n.º ES-V-0010

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