ENVIRONMENTAL STATEMENT

2020

(JAN – DEC)

Regulation (EC) No 1221/2009.
Regulation (EU) 2017/1505
Regulation (UE) 2018/2026

EMAS
VERIFIED
ENVIRONMENTAL
MANAGEMENT
ES-CAT-000414

INDEX

Tables

Graphics

1. INTRODUCTION

The **Environmental Statement** is made in accordance with **Annex IV of Regulation (EC) No. 1221/2009** of the European Parliament and the Council of the 25th of November 2009, which allows organizations to voluntarily adhere to a **community management and environmental auditing system (EMAS)**.

The Environmental Statement is updated and validated annually by an accredited inspector.

The objective of the Environmental Statement (ES) is the public announcement to interested parties of the continuous improvement of the impact and the environmental behaviour of the organization.

The ES informs the relevant parties (public, local communities, users, etc.) about the activities that the organization considers relevant (selection and evaluation of environmental aspects). All the data is taken from the year **2020** and the evolution from the years 2018 and 2019 has been noted.

The environmental system EMAS implemented in ADASA has other information from other sources apart from the ES, as it is required in the **Regulation (CE) Nº 1221/2009**. In 2017 it was adapted to the new considerations of the **New Regulation (UE) 2017/1505** even though many of them had already been adopted with the standard **UNE-EN ISO 14001:2015**.

In 2019, the requirements determined by article 1 of Regulation (EU) 2018/2026, which modifies Annex IV of Regulation (EC) No. 1221/2009, are incorporated. References to Decision (EU) 2019/63 are also incorporated.

ADASA's Management is grateful to all the staff for their collaboration and participation in the achievement of the environmental objectives planned and in the improvement of the Organization's environmental behaviour.

Adasa is a member of the **EMAS Club**, a non-profit organization that safeguards and promotes the interests of the EMAS registered organizations and EMAS's visibility in society.

The creation of the EMAS Club in 2006 was a pioneer initiative in the European Union.

For the Verification process of this Environmental Statement, the steps that Adasa follows are: Internal Audit, External Audit and finally, registration of the Statement in the Department of Territory and Sustainability of the Generalitat de Catalunya.

Our Environmental Declaration is available to any interested party through our website, in the section "Quality, Environment and Prevention"

2. ACTIVITY

Adasa, set up in 1988, is a recognized engineering company that provides technological solutions for the integral management water cycle and the environment.

Adasa supports an integrated, multidisciplinary approach to water resources management and leads its activities to achieve environment protection. Adasa pursues technological excellence to assist public and private organizations in the development of their activities and the improvement of their service efficiency, ensuring resources optimization and reducing operational costs

As experienced services integrators, Adasa covers a wide spectrum of related services, including consultancy, development, maintenance, and operations. Adasa joins water and environment expertise and highly specific technology capabilities to meet the sector's needs. Its portfolio includes water resources management (water quality monitoring and hydrology), smart operations of water utilities and operators, and irrigation and rural water. Adasa also fosters environment monitoring solutions in meteorology and air quality.

More than 25 years betting on R+D, 12 patents and more than 50 international projects certify Adasa commitment with equipment innovation of water quality monitoring as well as the development of ICT solutions for the water sector

On the road to excellence, ADASA has implemented an integrated management system based on the following standards: ISO 9001:15, ISO 14001:15 and EMAS Regulation.

The reach of the system is as follows:

Activities:

-Design, manufacturing, installation and maintenance of instrumentation and automatic stations to control hydrological and atmospheric quality parameters and hydrological and meteorological variables of water and atmospheric quality parameters and hydric and meteorology variables.

-Consultancy services, development, implantation and maintenance of information systems, telemetry, remote control and automation applicable to water cycle, environment, hydrology, meteorology, mobility and urban services, natural resources management, utilities and information systems.

-Engineering and consultancy services of water cycle, environment, air quality, meteorology, soil pollution and construction of hydraulic infrastructures.

Work center included in EMAS register:

BARCELONA
C/ Ignasi Iglesias 217-219,
08820El Prat de Llobregat, Barcelona, España

Day to day, Adasa remains committed to the values of the UN Global Compact, by making a strong effort to create economic, environmental and social value in the short and medium term, and to contribute to the progress of society's welfare.

Adasa is part of the **United Nations Global Compact**, an initiative that marks an ethical commitment by organizations who, as an integral part of their strategies and operations, have agreed to follow ten principles of conduct and action regarding human rights, employment, the environment and the fight against corruption. www.unglobalcompact.org

ADASA (Skion Group since 2020) has a presence in different areas in Spain and abroad. **Headquarters Office** is located in El Prat de Llobregat (**Barcelona**), been the only one included in EMAS registration due to it represents the main environmental impact of Adasa production.

3. POLICY

ADASA is a specialized engineering company delivering technological solutions for water, environment and meteorology. Adasa carries out its activity in a changing and globalized surrounding where the excellence of the production, the service and the management are necessary requirements for the competitiveness, the development, and the progress.

Adasa's knowledge and experience assures the development of the solutions that satisfy the needs and expectations of the clients.

The General Management leads the organization towards a model of **TOTAL QUALITY EXCELLENCE**, taking as strategic planning lines: the direction by processes, the knowledge management, the team work and the innovative capacity of the organization. Adasa has implemented an integrated management system (quality & environment and health & safety) certified based on **ISO 9001, ISO 14001 and EMAS standards.**

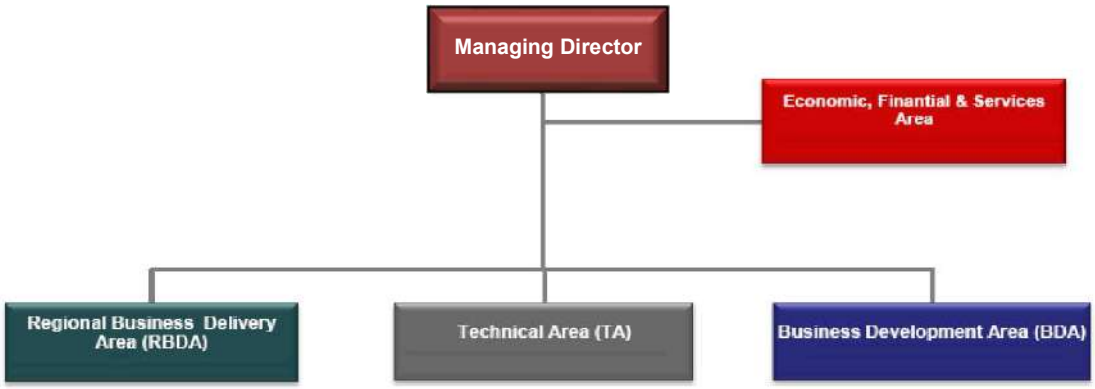
Adasa defines its act strategy in the following principles:

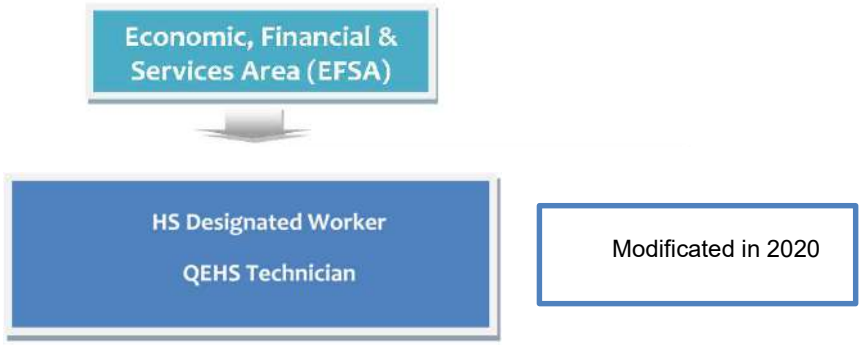
- To establish the requirements related to products and services according to international standards and specific requirements, in order to reach the clients' satisfaction and guarantee the continuous improvement.
- To give a management processes approach, identifying and considering work risks and environmental impacts. Try to eliminate and minimize those aspects that cannot be avoided, as well as prevent them in order to achieve continuous improvement and contamination prevention.
- To train all the team working on the importance of the integrated management, in order to guarantee the participation of all employees in every activity developed by Adasa.
- To satisfy the exigencies of the legislation and regulation in effect and, whenever it is considered necessary, determine the own requirements.
- To define periodically aims and goals, which are integrated, documented and quantifiable.
- To promote team building and continuous training policy, generating a highly professional motivated team fully involved in the company, able to develop all projects and challenges demanded by the market.
- To encourage internal and external communication in order to transmit to stakeholders our social worries and respect for people and environment.
- To reach high levels of prestige and recognition developing our business in a sustainable way; committing ourselves to the improvement of environmental behavior, creating economic, social, and environmental value, in the short and medium term, and contributing to the progress and welfare of society

February 2019

4. MANAGEMENT STRUCTURE

The general organizational structure of the company is defined below, with special attention to the team that carries out the maintenance tasks of the Integrated System of Quality, Environment and Security and Health, and which is in charge of complying with the requirements of the EMAS Regulation.





5. ENVIRONMENTAL ASPECTS

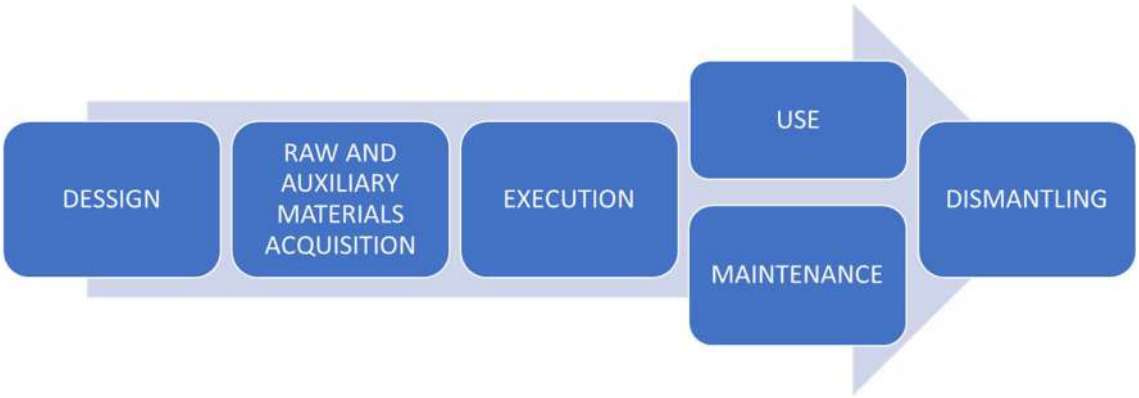
Adasa has a methodology to identify environmental aspects associated with its activity, from a life cycle point of view, in those aspects that it can control or influence. This method also quantifies which of those aspects can have a greater environmental impact and can track the objectives and goals.

With this system there are two main activity lines:

1. PROJECT/SERVICES MANAGEMENT
2. EQUIPMENT PRODUCTION

It also influences in the evaluation if the organization has control over the aspect or only influence (indirect aspect), as well as the probability of occurrence appears at organization's normal activities or only in emergency cases.

From the point of view of the organization, based on its control and / or influence, the two main lines of activity share a similar life cycle, with the following phases:



The environmental aspects related to quantities of elements consumed, generated, stored, discharged or emitted into the environment are quantified, obtained from the most appropriate sources of information for each case: invoices, delivery notes for waste collection, measurements, etc.

According to our internal procedure, the existence of legal requirements applicable to each environmental aspect is identified. When the evaluation is performed, the registered values are compared with those set by current regulations and their compliance is evaluated.

Environmental aspects are identified and evaluated taking into account normal, abnormal or emergency operating conditions and whether the company can do direct control or only has the capacity to influence.

The significance value takes into account: Magnitude, Probability, Severity and percentage of variation respect to the previous year.

As a result of the exercise of the identification and evaluation of the environmental aspects for 2020 (data 2019), the following is obtained:

ENVIRONMENTAL ASPECTS EVALUATION Office –Laboratory RDi – Workshop (Barcelona Branch)					
ASPECTS	**OPERATING CONDITIONS**			**SIGNIFICANT**	**Direct (D) Indirect (I)**
	Normal	Abnormal	Emergency		
			WASTE		
Paper and Cardboard	X				D
Batteries	X				D/I
Cell Batteries	X				D
Fluorescent lamps	X				D
Toner	X				D
Plastic waste	X				D
Urban waste	X		X		D
Contaminated Glass containers	X			X	D
Contaminated Plastic containers	X				D
Contaminated absorbent material	X				D
Chemical reagents Waste	X			X	D
Total Laboratory Hazardous Waste	X			X	D
WEEE **Waste electrical and electronical equipment**	X				D
			CONSUMPTIONS		
Water	X				D
Electricity	X				D/I
Fuel	X				D/I
Paper	X				D
Toner Consumption=waste	X				D
			EMISSIONS and SPILLS		
Emissions Greenhouse Gases	X		X		D/I
Sewerage	X				D/I
Noise	X				D/I
Emissions **Vehicles**	X				D
Fugitive emissions (air conditioning)			X		D

Table 1. Environmental Aspects Evaluation – Barcelona 2020 (data 2019)

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SIGNIFICANT ASPECTS	ACTIVITY	ASSOCIATED IMPACTS	ACTIONS
Contaminated Glass containers	BCN Laboratory	The generation of more waste implies a greater expense in resources both in the production of the material used initially and when it is managed as waste.	There are good practices and proper waste management. More time is needed to see the evolution of this indicator.
Chemical reagents Waste			
Total Laboratory Hazardous Waste			

Table 2. 2019 Environmental Aspects Evaluation Results

The increase in the generation of laboratory wastes is related to the reactivation of the equipment manufacturing activity in 2018. Globally, the generation of waste had increased in 2019, but if we use the indicator of waste generated according to the hours worked in the laboratory, which would be a more objective indicator, this aspect won't be classified as "significant".

The monitoring of the values continues in 2020 and its results are detailed in point 7.9 of this Statement.

Indicate that, as an action to create the minimum environmental impact from Adasa workers from the first moment they begin to work with us, they receive documentation (within the "Manual of welcome" Rev 06, June 2020) and training in "Good practices" in the following fields:

- Use of Water.

- Consumption of paper

- Energy consumption

- Waste management

- Noise

- Fuel savings, etc.

6. OBJETIVES AND GOALS

Adasa's environmental objective for 2020 was established in accordance with the Environmental Policy, the applicable legal requirements, the Environmental Aspects evaluated at the end of 2019 and the results of the Objectives that had been set for 2019.

Due to the Covid19 pandemic, it was decided that this objective would have a closing date of 2021, since it was not possible to carry it out within 2020

OBJETIVE 1	**GOAL**
REDUCE ELECTRICITY CONSUMPTION AT ADASA FACILITIES IN THE PRAT OF LLOBREGAT	Reduce at least 1% of the indicator associated with electricity consumption

ACTIONS IMPLEMENTED

For 2020-2021, 2 actions were set to try to reduce the relative consumption of electricity;

1. Change warehouse lights to LED
2. Reduce the number of heaters in the building and / or replace them with newer and more efficient ones.

Regarding the monitoring of these actions:

- Budgets have been received to be able to change the lights to LED. It is pending approval for 2021.
- A heater change was made in March 2020, and another 4 in early November 2020.

In the review at the beginning of 2021 comparing the data of 2019 and 2020 in the same periods, they return a result of:

2019: 162,730 kWh / 64 workers = 2,543 kWh / employee

2020: 140,910 kWh / 69 workers = 2,042 kWh / employee

Which represents a decrease of more than 19%, much higher than the 1% initially raised.

But we have to keep in mind that:

- There has been a decrease in activity in the building due to Covid19.
- The deadline that was initially determined to carry out all the actions has not yet finished.

Therefore, and although for now the result that is being obtained is understood as satisfactory, the evolution of the results will continue to be reviewed in 2021 to draw definitive conclusions on the effectiveness of the actions that have finally been implemented.

7. ENVIRONMENTAL BEHAVIOR

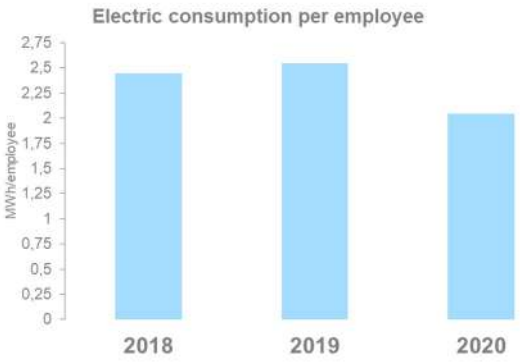
This statement presents the environmental performance of Adasa in its facilities in Prat de Llobregat during 2020 and the comparison with the years 2018 and 2019. The environmental performance results data are analysed. The origin of the data are invoices and delivery notes received.

Indicate that in specific cases, there are values that cannot be studied separately for the facilities of El Prat, so it has been necessary to use some others that would include more centers. It will be specified in those cases.

The number of employees in Barcelona used in this environmental statement are: 60 in 2018, 64 in 2019 and 69 in 2020.

7.1. ELECTRICITY CONSUMPTION

This indicator (R = A / B) is achieved by extracting data from the electricity consumption invoices of the Barcelona headquarters and dividing it by the number of employees at the headquarters (B).



Graph 1. Electrical consumption per employee

During 2020, the total consumption of the organization at the BCN headquarters was 140,91MWh (A), with a number of employees in Barcelona of 69 people (B). Average consumption per employee (R = A / B) is 2,04 MWh. There is a decrease in total consumption (13.4%) and in average consumption per worker (19.7%)

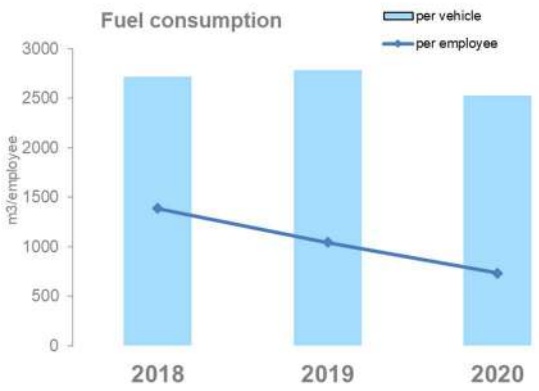
In Barcelona, renewable energy is not directly generated, although since October 2017 the organization changed its electricity supply company and purchases green energy for its consumption in this building. Therefore, these **140,91 MWh correspond to renewable energy**.

The drop in consumption is mainly due to the increase in teleworking due to the 2020 pandemic.

The data have been updated. All the figures represent Barcelona.

Indicator – Electricity consumption per employee		
2018	2019	**2020**
A: 146.74 MWh B: 60 employees **R: 2,44** MWh/employee	A: 162,73 MWh B: 64 employees **R: 2,54** MWh/employee	A: 140,91 MWh B: 69 employees **R: 2,04** MWh/employee

7.2. FUEL CONSUMPTION



Graph 2. Fuel consumption per employee and per vehicle.

The global consumption of fuels (from vehicle movements) during 2020 has been **111.039,96 l.** Consumption per vehicle registers a value of **2.524** l/vehicle and **735** l/employee.

In the 2020 calculations, the total number of vehicles and employees of the company has been taken into account, because it has not been possible to differentiate the exclusive trips in Catalonia.

For 2020, global values of the company throughout Spain are used as a source of data, due it is not possible to differentiate the center associated to a certain consumption because vehicles are moving between different delegations.

The indicators are still being relative and giving a real image of these consumptions

The figure of l/employee 2018 has been modified (1086 l/employee vs 1386 l/employee).

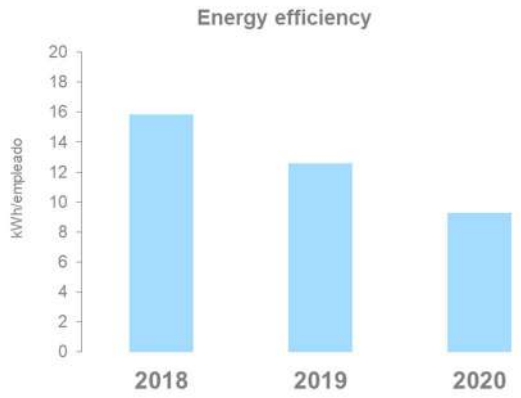
The indicators (R = A / B and R '= A / B') are obtained through the fuel consumption invoices associated with Adasa vehicles (A), the vehicle ratio (B), and the global number of employees (B ').

There has been a decrease of 9.3% in consumption per vehicle and 29.6% per employee compared to 2019

During this year, work trips have been reduced to the maximum due to the pandemic.

Indicator – Fuel consumption per vehicle and per employee		
2018	2019	**2020**
A: 65.134 l. B: 24 B':60 2.714 l/vehicle 1.386 l/employee	A: 66.799,51 l. B: 24 B':64 2.783 l/vehicle 1.044 l/employee	A: 111.039,96l. B: 44 B':151 **2.524 l/vehicle** **735 l/employee**

7.3. ENERGY EFFICIENCY



Graph ·3. Energy consumption per employee.

This indicator is extracted from the indicators already seen in this Statement:

-A1: Electricity Consumption MWh / employee,

-A2: Fuel Consumption MWh / employee.

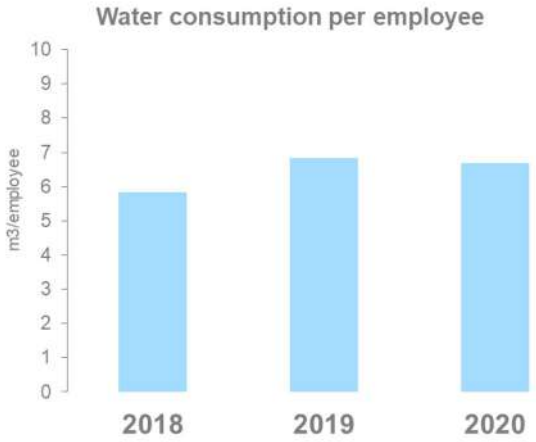
For fuel consumption (diesel in all cases), the conversion factor is "A liter of diesel weighs 0.832 kg", "1kg Diesel = 11.8kWh (Source: IDAE)."

A continuity in time is evident, with a decrease of 27,6% compared to 2019

The data A2 has been modified due to the change described in 7.2

Indicator - Energy Efficiency		
2018	2019	**2020**
A1: 2,44 MWh/e A2: 1386*0.832*0.0118= 13.61 MWh/e	A1: 2,54 MWh/e A2: 1044*0.832*0.0118= 10.25 MWh/e	**A1: 2,04 MWh/e** **A2: 735*0,832*0,0118= 7,22MWh/e**
A1+A2: 16.05 MWh/e	A1+A2: 12.79 MWh/e	**A1+A2: 9,26 MWh/e**

7.4. WATER CONSUMPTION



Graph 4. Water consumption per employee.

The use of water is common among employees for both personal hygiene and consumption as a beverage. It's also used during facilities cleaning services.

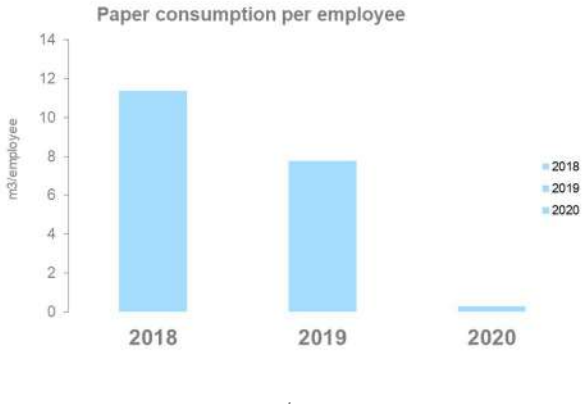
The total consumption for the Barcelona Headquarters (El Prat) during 2020 was **461 m3** and the consumption per employee was **6.68 m3 /employee.** Which represents a decrease compared to 2019 of 2% in this indicator, due to lower presence of employees in the workplace because of the pandemic.

We believe the increase in total consumption (5.5%) are related to the actions derived from a positive for legionellosis in the facilities and a possible neglect in the closing of a water stopcock key in the first quarter of the year. But they are compensated by the increase in the number of workers in the delegation.

The indicator (R = A / B) is obtained through the water consumption invoices (A) and the number of employees (B).

2018		
2018	**2019**	**2020**
A: 350 m^3 **B: 60** **R: 5,83 m^3/ employee**	**A: 437 m^3** **B: 64** **R: 6.82 m^3/ employee**	**A: 461 m^3** **B: 69** **R: 6.68 m^3/ employee**

7.5. PAPER CONSUMPTION



Graph 5. Paper consumption per employee

The consumption of paper occurs as a consequence of office activity. During 2019, 21,43 kg of paper have been consumed in BCN. The average global consumption per employee is 0,3 Kg / person, 96% less than in 2019.

The indicator [R = ∑ (Ai * Bi) / C] is extracted by adding the number of paper sheets purchased (Ai), by the relative weight of each one (Bi) extracted from the different invoices, and divided by the number of workers (C)

Paper consumption is related to the needs of ongoing projects and the preparation of offers to clients, which are highly variable in different periods.

An attempt is made to explain the significant decrease this year for three reasons:

• Most of the administrative work has been done outside the center, due to Covid19

• Digital documentation has been promoted.

• An order for paper was planned for late 2020 but has been postponed to 2021.

The paper used in the offices has the eco-label (Der BlaueEngel) and is 100% recycled.

Adasa has a Green Purchase Technical Instruction (Rev 01) for the acquisition of office supplies with sustainability criteria

Indicator – Paper consumption per employee		
2018	**2019**	**2020**
∑Ai*Bi= 575 kg C= 60 9,6 kg/employee	**∑Ai*Bi= 484 kg** **C= 64** **7,56 kg/employee**	**∑Ai*Bi= 21,43 kg** **C= 69** **0,3 kg /employee**

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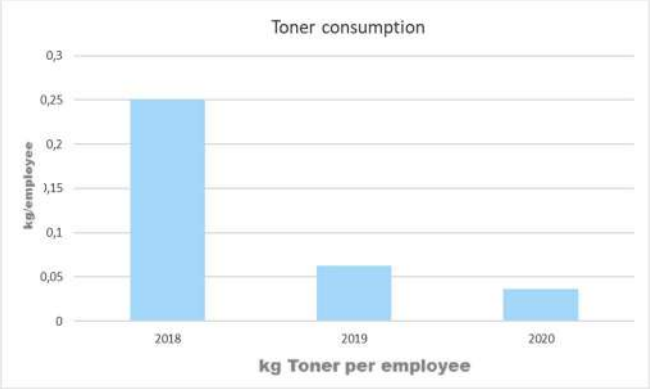
7.6. TONER CONSUMPTION / WASTE



Graph 6. Toner consumption/waste per employee

For the calculation of the consumption of toners and cartridges it is considered that the consumption is equal to the generated waste.

In 2020 there has been a decrease of 42% compared to 2019, due to the increase of teleworking.

The organization works in awareness campaigns to reduce the number of prints, the use of draft paper for internal document prints and the use of ink-saving fonts (ecofont).

This indicator (R = A / B) is obtained by dividing the kg of toner produced as waste (A) by the number of employees (B).

Indicator – Toner consumption per employee		
2018	**2019**	**2020**
A= 15 kg B=60 R= 0,25 kg/employee	A= 4 kg B=64 R= 0,06 kg/employee	A= 2,5 kg B=69 R= **0,036 kg/employee**

7.7. BIODIVERSITY

As a biodiversity indicator, the surface occupation of the Adasa offices is calculated among the number of employees at the BCN headquarters. The sealed surface is 100% (1195 m2). There is no surface oriented regarding nature and there is no surface outside the center.

Indicator - Biodiversity - Surface occupation		
2018	**2019**	**2020**
A= 1195 m^2; B= 60 employees A/B= 19,9 m^2/employee	**A= 1195 m^2; B= 64 employees** **A/B= 18,7 m^2/employee**	**A= 1195 m^2; B= 69 employees** **A/B= 17,32 m^2/employee**

We have a decrease of a 7.3% in global occupancy per employee compared to 2019. Decrease that is directly due to the number of employees.

7.8. EMISSIONS

7.8.1. NOISE

The source of the noise pollution generated by ADASA is its motor vehicles and some specific work carried out at the workshop located at the Hospitalet (Barcelona) Office. At some sites (when the use of machinery by subcontracted companies is required) some noise pollution peaks may occur. Even so, no corrective action was required to be taken in 2020 relative to the noise levels that were produced directly and indirectly

7.8.2. DUST

ADASA generates dust emissions in projects requiring civil work outsourcing. In order to minimize the environmental impact, it's necessary to carry out the following measures:

- ✓ Irrigate the soil especially during the summer months and sections close to areas with vegetation or inhabited areas.
- ✓ Place a tarp on top of the vehicle that transport dust-generating material.
- ✓ Restrict traffic and limit the speed of machinery and vehicles.
- ✓ Carry out the dustier activities, whenever possible, to the schedules when it affects less people.
- ✓ Cover easily dispersible materials in windy conditions.

7.8.3. FUGITIVE EMISSIONS (AIR CONDITIONING)

During 2020 no action has been required to recharge the cooling circuit of the El Prat facilities.

Through the maintenance records of the installation, we know the recharges volume and therefore the gas emitted into the atmosphere. Finally, the associated impact is calculated (GWP-Global Warming Potential).

Since 2014, fugitive emissions from air conditioning refrigerants have been included in the calculation of CO2 equivalent emissions.

7.8.4. GREENHOUSE GASES

Adasa's activities that directly emit greenhouse gases are: Travels by car, train and plane. Indirectly, it also contributes to the emission of CO2 through the consumption of water and the generation of waste. Electric power is contracted with a “No emissions” certificate.

In 2020, due to the Covid-19 pandemic, trips have been restricted to only the “essentials” in shared means of transport (plane and train), increasing the total emission in road trips.

An emission factor for the use of water has been incorporated, indicated in the guide used to calculate emissions: "Guide for the calculation of greenhouse gas emissions version 2020 of the OCCC – Oficina Catalana Cambio Climático”.

There are also data that we have had to recalculated from 2018 and 2019 (water), although without great variation, due to the use of this guide.

For emissions by transport, the number of employees used this year is the total of the company in Spain (instead of the sum of the delegations of Barcelona and Madrid as in 2018 and 2019), although the final data is still indicated in Tn relative CO2 equivalent emitted by each employee. This is due to the change in the management company of the company's trips, and that the data received has a different model than in previous years.

In the calculation:

-The CO2 emission per km traveled by plane has been averaged, using the Methodology of the ICAO-International Civil Aviation Organization (www.icao.int).

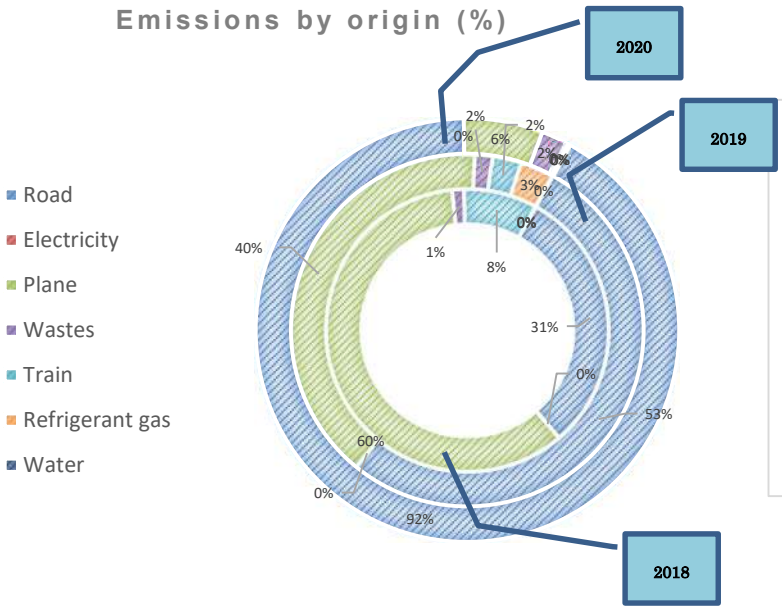
-Value A: Equivalent emissions due to: Travel (by road, train and plane), water consumption, electricity consumption, waste generation.

-Value B: number of employees Barcelona and others, is used for: Travel

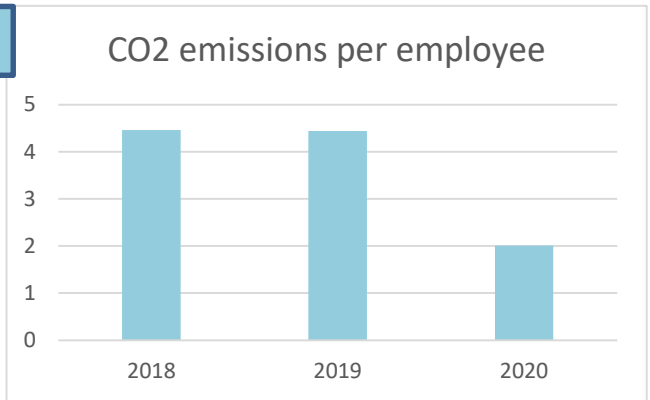
-Value B ': number of employees in Barcelona, is used for: water consumption, electricity consumption, waste generation.

The result is the sum of the relative indicators (R = ∑ A / B)

Graph 7. E missions by origin



Graph 8. Emissions per employee



Indicator – CO_2 emissions Journeys (car, train, aircraft), electrical consumption, fugitive emissions, waste, water		
2018	2019	**2020**
A = 293,82t; B = 66 employees (Madrid + Barcelona), B '= 60 employees (Barcelona) R = 4,5 tCO2 / employee	A = 305,08 t; B = 71 employees (Madrid + Barcelona), B '= 64 employees (Barcelona) R = 4,3 t CO2 / employee	**A = 299,99t; B = 151 employees throughout Spain, B '= 69 employees (Barcelona) R = 2,009 t CO2 / employee**

A 53,27% reduction in CO2 equivalent has been achieved compared to 2019. We relate it to the pandemic (travel, water, waste…).

7.8.5. SO2, NOx AND PM EMISSIONS.

For the calculation of SO2, NOx and PM emissions, the data on fuel consumption in Adasa cars will be used. All these cars use "diesel" as fuel.

Figure l/employee in 2018 has been modified (1386 vs 1086). R, R', R'' also modified.

The conversion factors of "EMEP / EEA air pollutant emission inventory guidebook 2019" in its annex 1.A.3.bi-iv Road transport 2019, and table 3-6 and 3-14, will be used to transform fuel consumption in grams of SO2, NOX and PM emission.

Vehicle type	Fuel	SO2	NOx	PM
Small car	Diesel	A: 0.003 g/kg diesel	A': 12.96 g/kg diesel	A'': 1.10 g/kg diesel

We consider that a liter of diesel weighs 0.832 kg, being:

B: liters of diesel per employee.

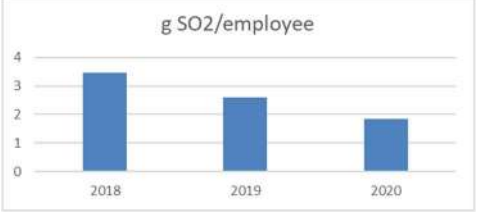
R: g SO2 per employee, where R = A * B * 0.832

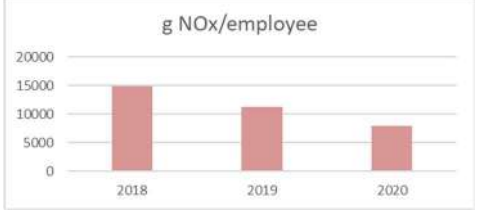
R ': g of NOx per employee, being R' = A '* B * 0.832

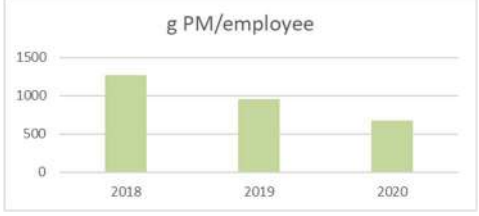
R '': g of PM per employee, being R '' = A '' * B * 0.832

Using the values obtained in point 7.2, we obtain as a result, a decrease of 29.6% of these values compared to 2019:

Indicator - SO2, NOX and PM emission per employee		
2018	**2019**	**2020**
B: 1.386 l/employee R: 3,45 R': 14944,84 R'': 1268,46	**B: 1.044 l/employee R: 2,61 R': 11257,16 R'': 955,47**	**B: 735 l/employee R: 1,83 R': 7929,22 R'': 673**







7.9. WASTES

In order to properly separate the waste, specific containers are available at the different office sites and waste areas are designated for storing each type of waste so that it can be subsequently collected by the authorized waste manager, which guarantees the assessment and specific treatment.

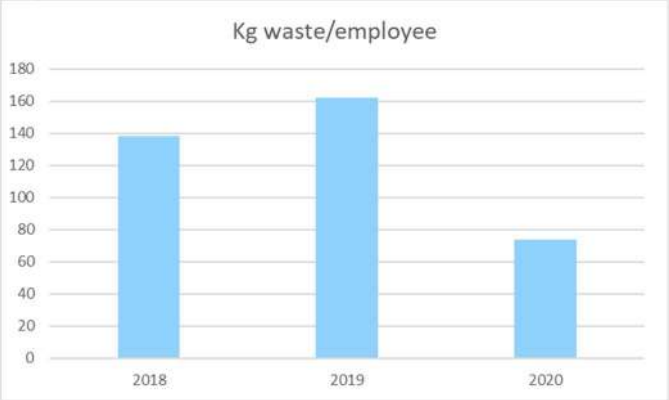
The quantity data used in these sections has been taken from the official documentation generated during the movement and management of waste by authorized managers.

Office-Workshop-Laboratory Barcelona		Maintenance	
Toner	NH	Cables	NH
Paper and cardboard		Packaging (Plastic and cardboard)	
Plastic (NHW)		Scrap metal	
Non-segregated waste collection		Wood	
Non-Hazardous Electrical and Electronic Equipment (WEEE)			
Batteries and Cell-batteries			
Fluorescent lamps	H		
Contaminated containers			
Contaminated absorbent paper			
Non-Hazardous Electrical and Electronic Equipment (WEEE)			
Chemical reagents	H	Maintenance solutions	

Table 3.Waste Identification.

7.9.1. TOTAL WASTE

Indicator – Total Waste *(except Projects: WEEE, Batteries)*		
2018	2019	**2020**
A= 8237,1 kg; B= 60 employees A/B= 137,28 kg/employee	A= 10353,6 kg; B= 64 employees A/B= 161,78 kg/employee	**A= 5101 kg; B= 69 employees** **A/B= 73,93 kg/employee**

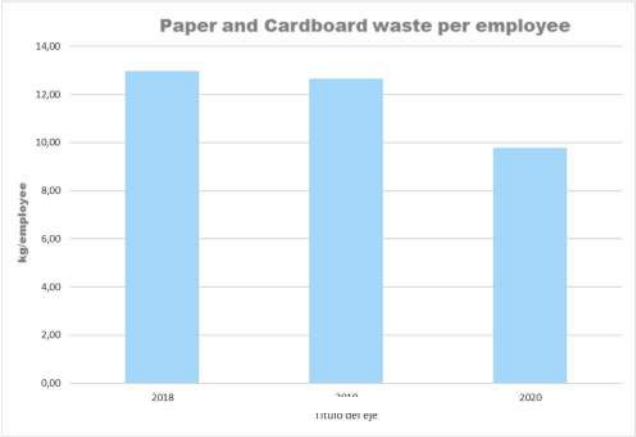


This year banal waste not selectively separated has also been included in the values, but as in the case of other wastes, it is managed through an authorized manager.

Data from 2018 and 2019 have been recalculated because not all the waste was included.

The result shows a relative decrease of 50,73% compared to 2019, due to the decrease of the activity because of the pandemic.

7.9.2. PAPER AND CARDBOARD WASTE



Graph 9. Paper and cardboard waste per employee.

The cardboard from packaging is reused for the internal shipment. This significantly reduces the requirement for cardboard boxes for the preparation of new shipments of material between delegations.

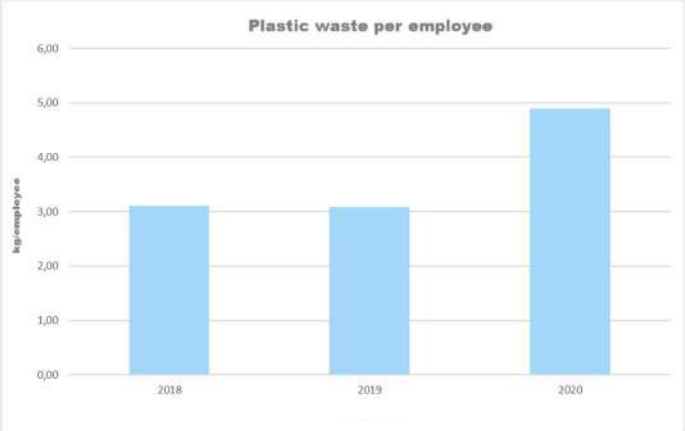
Specific containers are distributed in the offices, which are periodically managed by the authorized Waste Manager for subsequent recovery

In 2020 there has been a 22,9% decrease in waste of paper and cardboard compared to 2019 from 12.7 to 9.79 kg per employee.

Actions on the use of digital formats and printing in saving format for documents for internal use have been maintained. The increase in teleworking due to the Covid19 pandemic is also understood to have been a determining factor for this decrease.

Indicator – Paper and Cardboard waste per employee		
2018	**2019**	**2020**
A= 780 kg; B= 60 employees **R= A/B =** 13 kg/employee	A= 810 kg; B= 64 employees **R= A/B = 12,7 kg/employee**	A= 676 kg; B= 69 employees **R= A/B = 9,79 kg/employee**

7.9.3. PLASTIC WASTE



Graph 10. Plastic waste per employee.

In 2020, a residual plastic value of 4.89 kg per employee was registered, with a substantial increase of 59% compared to the previous period.

The residual plastic comes mainly from packaging and unused containers. Packaging materials in good condition, as with cardboard, are reused internally.

During this year we have been prioritizing plastic pallets instead of wood.

Indicator – Plastic waste per employee		
2018	**2019**	**2020**
A= 186,6 kg; B= 60 employees **R= A/B =** 3,11 kg/employee	A= 197 kg; B= 64 employees **R= A/B = 3,08 kg/employee**	A= 338 kg; B= 69 employees **R= A/B = 4,89 kg/employee**

7.9.4. HAZARDOUS WASTE (LABORATORY - WORKSHOP)

The origin of the laboratory residues are the activities of preparation and replacement of reagents of the analytical equipment for water quality parameters, and of the residual reagents of the laboratory tests associated with R+D+i projects in the laboratory of El Prat (Barcelona).

The separation of toxic and dangerous waste, its storage and its final conditioning are regulated by legislation and by the procedures and instructions of the Adasa Management System.

Waste (kg)	**2018**	**2019**	**2020**
Contaminated absorbent paper	0	0	**0**
Waste Products / Chemical Preparations	372	1147	1321
Waste Containers Contain Hazardous Substances (plastic)	30	28	22
Contaminated Glass Waste	104	138	20
Hazardous Waste Indicator (kg)	**506**	**1313**	**1363**
Nº Employees	60	64	69
Hazardous Waste Indicator (kg / employee)	8,43	20,52	19,75
No. Hours worked Laboratory / Maintenance	1313	3150	5808
Hazardous Waste Indicator (kg / Hours)	**0,39**	**0,42**	**0,23**

Table 4. Laboratory and workshop waste.

Graph 3. Total Hazardous waste/h.

The generation of the waste (A) is not proportional to the number of employees, but is linked to the needs of the R+D+i projects, in the way that the indicator is calculated with respect to the hours of production (B). Indicator R = A / B.

There is a 45% decrease in relative Hazardous Waste, due to the fact that in 2020 more hours of work have been dedicated by technicians and the total amount of waste is similar

The number of employees included in the former Environmental statement (2019) has been changed.

7.9.5. PROJECT WASTE MATERIALS

A *Quality, Environmental and Health & Safety Action Plan* is drafted for each project to identify and assess the specific environmental hazards and all the procedures and elements that must be taken into account to ensure correct environmental management; waste management preventive and corrective actions, good environmental practice data sheets, etc.

The *Action Plan* is communicated to ADASA stakeholders involved on the project in order to guarantee its accomplishment.

Due to ADASA's activity, the generation of waste is variable and depends on each project's needs

[1]Waste Project site materials (batteries, cables,…) are not represented as a ratio of total value per employee (A/B) because this indicator has variable generation and low representativeness and is not significant according to the environmental analysis – Chapter 2.3.2.2 Commission Decision of 4 March (2013/131/UE).

Waste1 (kg)	2018	2019	2020
Batteries	5193	4860	**4119**
Wood	105	520	**0**
WEEE NH (Waste Electrical and Electronic Equipment - Non-Hazardous)	865	315	**384**

Table 5. Main worksite project waste materials.

7.10. COMPLIANCE WITH EU DECISION 2019/63

At the beginning of 2019 the “COMMISSION DECISION (EU) 2019/63” enters into force.

It consists of a sectoral reference document on best environmental management practices, sectoral indicators of environmental performance and comparative parameters of excellence for the electrical and electronic equipment manufacturing sector.

In accordance with Annex IV, Section B, letter e) of the EMAS Regulation, the environmental declaration must contain “a summary of the information available on the behavior of the organization regarding its environmental objectives and targets in relation to its significant environmental impacts; Core indicators and other relevant existing environmental performance indicators should be reported as set out in section C. ' In Annex IV, section C, the following is stated: “Each organization must also report annually on its behavior in relation to the more specific environmental aspects indicated in its environmental statement and, if available, must take into account the reference documents sectors referred to in article 46 ».

The Best Environmental Management Practices (BEMPs) applicable to Adasa are detailed according to its activities and facilities, and the monitoring indicator used.

BEMP	**INDICATOR DESCRIPTION**	**BASIC INDICATOR**	**COMPLIES**	**DESCRIPTION OF COMPLIANCE**
3.1.2	Coefficient of System Performance (COSP)	Energy efficiency	YES	Installation implemented in compliance with energy efficiency guidelines. Follow-up: See point 7.3 of this ES
3.1.10	Waste disposal diversion rate of the waste generated at manufacturing plants	Wastes	YES	Annual indicators of waste generation. See points 7.9 of this ES
3.2.2	Periodical (e.g. annual) publication of GHG emissions calculated with a recognised standard method (Y/N)	Emissions	YES	Annual indicators of equivalent CO2 emissions. See points 7.8.4 of this ES
3.2.2	Periodical (e.g. annual) publication of GHG emissions calculated with a recognised standard method	Emissions	YES	Annual indicators of equivalent CO2 emissions. See points 7.8.4 of this ES

BEMP	INDICATOR DESCRIPTION	BASIC INDICATOR	COMPLIES	DESCRIPTION OF COMPLIANCE
3.2.3	Inclusion of LCA according to the ISO standards 14040 and 14044 in the environmental strategy of the company and use of LCA when taking major decisions for developing new and redesigned products	Energy efficiency Material efficiency Water Waste Biodiversity Emissions	YES	LCA: life cycle, R&O, integrated aspects.
3.2.4	Formulation of procurement guidelines and requirements for the most relevant products and materials identified in the biodiversity assessment	Material efficiency	YES	14001 / EMAS requestion to suppliers
3.3.1	Setting of circular economy objectives for new products	Material efficiency	YES	The manufactured equipment is completely removable, repairable by parts and separable by components for recycling
3.3.1	Share of products or components (by number or revenue) for which design cycles or redesign cycles have been embarked upon that explicitly address the different approaches of circular economy	Material efficiency	YES	100% of the manufactured equipment is designed to be completely removable, repairable by parts and separable by components for recycling
3.3.2	Implementation of the IPSO model ensuring that it delivers environmental benefits	Material efficiency	YES	The installation and maintenance service recovers the waste generated and is in charge of environmentally sound management. There is an agreement with ECOTIC for the correct management of the same volume of WEEs with respect to EEEs that Adasa puts on the market

8. LEGAL COMPLIANCE

Adasa identifies records and reviews the applicable legal environmental requirements and the requirements of voluntary commitments it has acquired.

Adasa currently has no open disciplinary proceedings or proceedings in environmental matters and compliance with all legal requirements applicable.

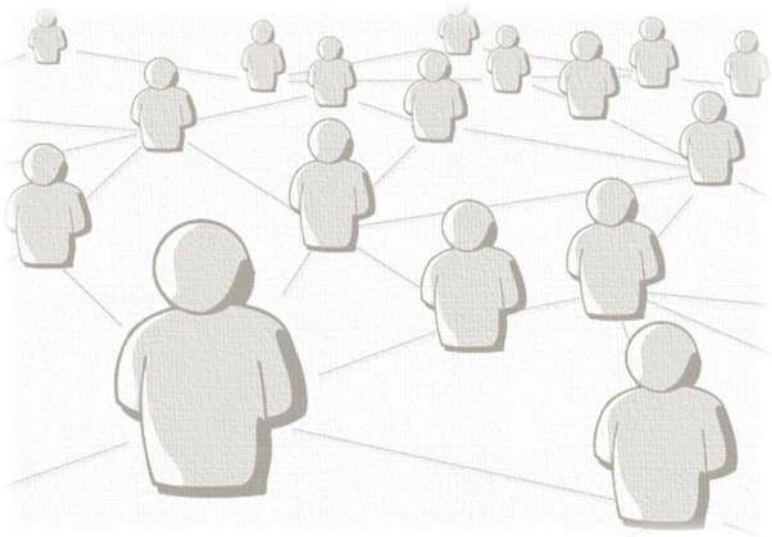
Areas	Associated Regulations	Compliance assessment
Activities License	-L20/2009, of 04-12-2009, on prevention and environmental control of activities. -Ordinance of municipal environmental, security and public health intervention in El Prat de Llobregat. - Ordinance type of municipal environmental, security and public health intervention of the Diputació de Barcelona.	The headquarters has an Activities License. In 2020 the favorable resolution of the non-substantial modification of your License is obtained.
Low voltage	-RD 842/2002, of 02-08-2002, approving the Low Voltage Electrotechnical Regulation. -RD 314/2006, dated 03-17-2006, which approves the Technical Building Code.	The electrical installation has passed the inspections both internal (maintenance company) and external by external maintenance Company.
Lifting devices.	-RD 88/2013, of 08-02-2013, which approves the Complementary Technical Instruction AEM 1 "Lifts" of the Regulation of lifting and handling equipment, approved by Royal Decree 2291/1985	Periodic inspections of lifting devices are being carried out. In 2020, the external inspection of the elevator in use was passed favourably.
Energy efficiency.	-RD 56/2016, of 03-12-2016. -RD 314/2006, of 03-17-2006, which approves the Technical Building Code.	The Energy Audit has been carried out with the former Company COMSA. The building has an energy rating.
Air conditioning	-RD 314/2006, of 03-17-2006, which approves the Technical Building Code. -RD 1027/2007 of 07-20-2007, approving the Regulation of Thermal Installations in Buildings.	The facilities at the headquarters have been legalized. No inspections must be passed until 2021.

Areas	Associated Regulations	Compliance assessment
Fire extinguishing systems	-Order 07-27-1999 determining the conditions to be met by fire extinguishers installed in vehicles for transporting people or goods. -RD 2060/2008, of 12-12-2008, which approves the Regulation of pressure equipment and its complementary technical instructions. -RD 2267/2004, of 03-12-2004, which approves the Regulation of fire safety in industrial establishments. -RD 314/2006, of 03-17-2006, which approves the Code -RD 513/2017, of 05-22-2017, which approves the Regulation of fire protection installations.	All periodic inspections and maintenance of fire protection installations are carried out. Next review January 2021.
Legionellosis	-RD 865/2003 of 04-07-2003 establishing the hygienic-sanitary criteria for the prevention and control of legionellosis.	All periodic inspections and maintenance of sanitary water facilities are carried out. In 2020 a positive was detected. An action program has been implememted. After the implementation of the measures, a new control will be done (1Q 2021)
Annual Declaration of Waste	-D 93/1999 of 06-04-1999 on waste management procedures.	It's carried out annually
Annual Packaging Declaration	-RD 782/1998, of April 30, which approves the Regulation for the development and execution of Law 11/1997, of April 24, on packaging and packaging waste	It's carried out annually
Waste management	-D 93/1999, of April 6, on waste management procedures. - RD 553/20 waste movement.	All waste is managed through Authorized Managers and carriers. -The legal procedures defined in the different applicable regulations are complied with.
Statement of EEEs placed on the market	RD 110/2015, of 02-20-2015, on waste from electrical and electronic equipment. (WEEE)	Quarterly statements are made.
ITV	RD 920/2017, of October 23, which regulates the vehicles technical inspection.	The ITVs of the vehicles are passed at the marked frequency.

9. STAKEHOLDERS

Adasa ratified its commitment to social and economic and especially environmental sustainability, which is in fact the core business of the Company.

The drafting of a Dialogue Map for stakeholders has enabled the most suitable action to be applied with collaborators, clients, suppliers, employees and other companies which are working in the same sector.



10. TRAINING AND COMMUNICATION

ADASA keeps employees involved in activities or practical training in order to reach the set goals and objectives.

In the Employee Portal the staff can contribute and exchange information with other employees. This information is analysed by the *Environmental, Quality and Health&Safety Committee*.

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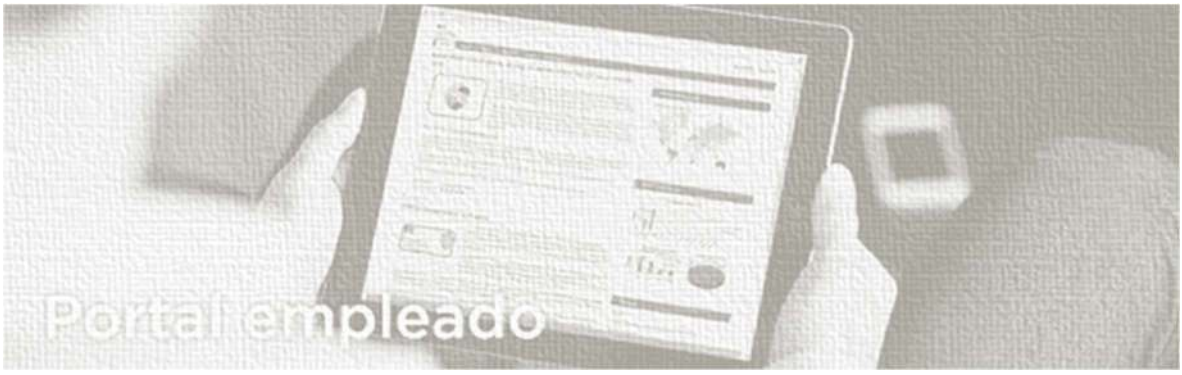

11. VALIDATION

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This Environmental Declaration has been verified by *SGS Internacional Certification Services Ibérica, S.A.U.*

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