



ECOPILAS 2016 ANNUAL REPORT

FOUNDATION FOR THE ENVIRONMENTAL MANAGEMENT OF BATTERIES



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ECONOMAS 2016 ANNUAL REPORT

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01

CARTA
carta del presidente
PRESENTE

►► An extraordinary year

It is always a pleasure to present to you, through our annual report, the actions and achievements of the last financial year which, in the case of 2016, has been an extraordinary year in which we celebrated the 15th anniversary of the Ecopilas environmental foundation's start of operations.

Consumers, manufacturers, waste managers, public bodies and local authorities can all feel proud of how far we have come, thanks to all our social partners' commitment to environmental sustainability, a greater recycling culture, optimisation of battery collection and recycling processes and the imperative consideration of the circular economy as the only possible production model.

With regard to Ecopilas in particular, this progress has resulted in a 9% growth in member companies, which now number 759. With this figure, we now represent more than 60% of manufacturers registered in the Ministry of Industry's Battery and Accumulator Registry (RII-PYA), sealing our position as the largest battery collection system in the country and one of the largest in Europe.

To further consolidate this position, in 2016 we managed to collect 41% of the batteries and portable accumulators released to market, thereby continuing our line of growth with regard to the collection index, now very close to the 45% required by the law. In practical terms, last year Ecopilas collected 116,251,233 battery units, with an average of 318,497 per day, through its more than 34,000 containers located all over Spain, numbering 1,320 more than in 2015.

Likewise, in 2016, Ecopilas continued to be the information referent in battery processing in this country, and the foundation's social work has continued to attract the attention of the media and social networks, as a result of the constant effort we put into disseminating and promoting our own events and those run in partnership with public authorities, sports and social bodies etc.

The journey we have been on so far has prepared us for the next stage, where the major challenges will include continuing to advance the implementation of the new RII-PYI register. Changes include the new categorisation for industrial lithium batteries, used, for example, in electric vehicles, and the introduction of the concept of new market or reposicion, in the case of industrial and automotive batteries.

In 2017 we will also continue to work to raise public environmental awareness through sport and other social initiatives, to have a presence in new communication platforms, projects and national and international forums, as well as to improve collection and treatment processes.

In light of this summary, we will face these challenges with the certainty that, after these 15 year of operations, we will continue to progress in the right direction, with your confidence in our management model and in the human team that makes up Ecopilas. For another year, thank you for continuing to walk by our side.



○ José Pérez García
PRESIDENT OF ECOPILAS

02

about us

ecopilas

ECOPILAS: The Ecopilas Foundation is a Collective Extended Producer Responsibility System for the management of waste batteries and accumulators, set up in the year 2000 by the major importers and manufacturers of batteries with the objective of proper environmental management of waste batteries and accumulators throughout Spain.



Today, **Ecopilas** is a national and European referent in used battery management and, with more than 760 member companies, it is the largest collective system for batteries and accumulators in the country, in both portable batteries and industrial and electric vehicle batteries.

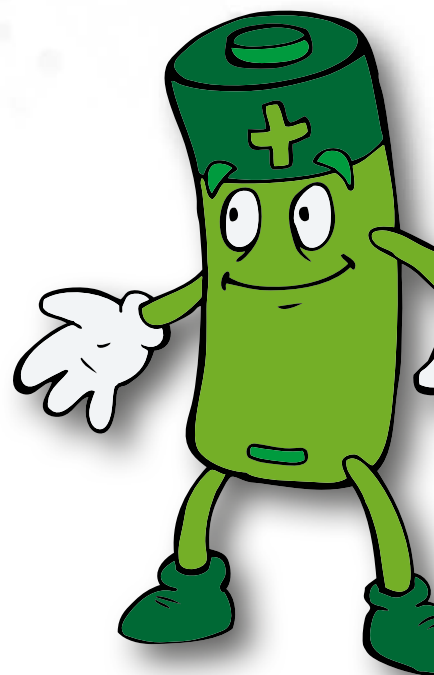
One of the most important aspects of management is the Ecopilas operation that overall has established Spain's largest portable battery collection network. It currently comprises more than 34,000 collection points and has enabled the correct management of more than 20,000 tonnes of used batteries and accumulators since the entry into force of RD 106/2008.



Board of trustees

The Ecopilas Board of Trustees is the Foundation's governing body and it is made up of representatives of battery manufacturing companies, manufacturers of electrical and electronic devices that use batteries, representatives from the distribution sector and experts in the field of batteries and accumulators.

Its key functions include the approval of the Foundation's budgets, modifications to its bylaws and the setting of the tariffs applicable to the different batteries and accumulators released to market by the member companies.



STRUCTURE OF THE ECOPILAS BOARD OF TRUSTEES

PRESIDENT

José Pérez García

Ecopilas

SECRETARY

Gonzalo Torralbo

Ecopilas

MEMBERS

José Ramón Campos García

Imprex Europe

Ariel Simoniello

Sony Europe Limited

M^a Gema Redondo

Energizer Group España

Andrés Martínez

Fundación Ecotic

Idoia Marquiegui

Anged

Benigno Martínez González

Saft Baterías

Jaime Corderas

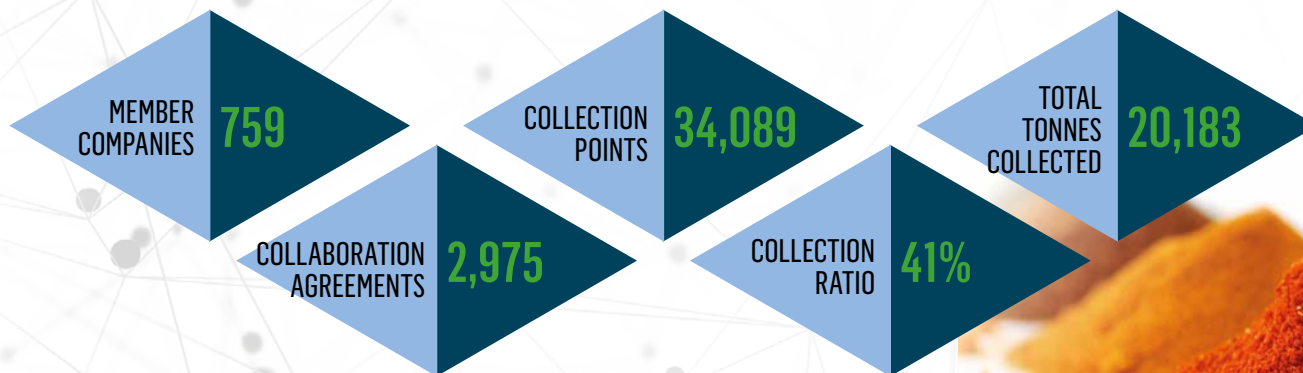
Panasonic

At 31st December 2016

03

figures 2016

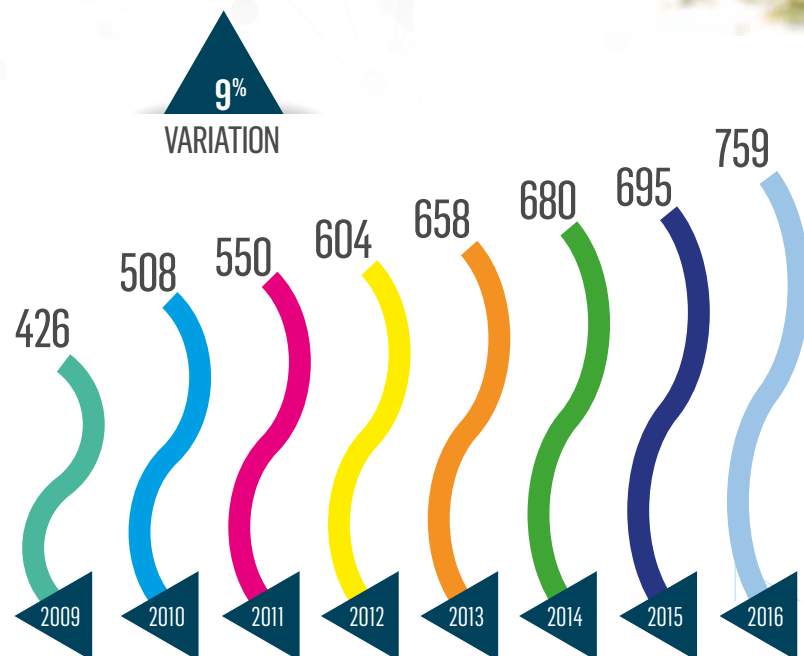
Summary of key figures



Member companies

The continuous growth of member companies and their diversity makes the constant development of the services offered by the Ecopilas Foundation possible. The 9% increase in Ecopilas member companies in 2016 reaffirms the trust placed in our organisation by battery producers and our leadership in the sector.

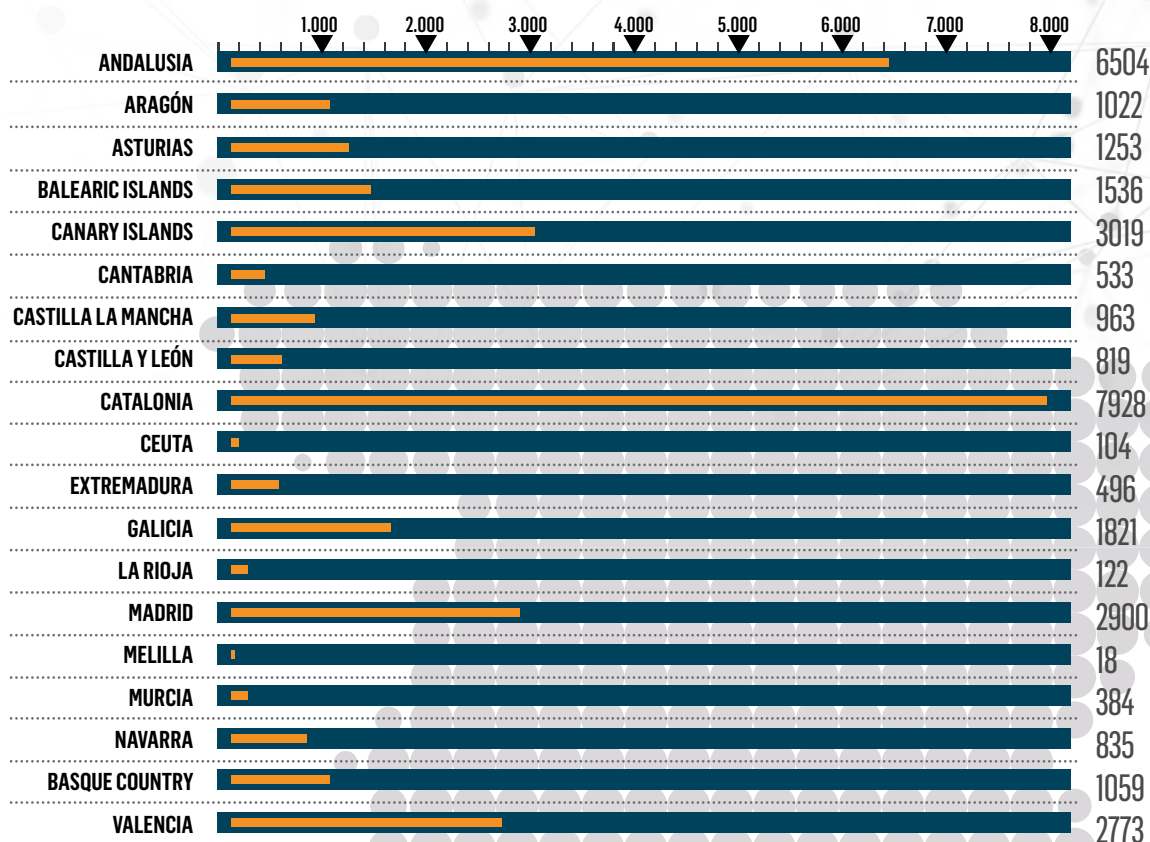
With regard to the future, Ecopilas foresees a constant increase in activity and producers over the next few years, given that the market for and types of electrical and electronic devices incorporating batteries has also undergone a significant increase.



Collection points by Autonomous Region

Since its creation, Ecopilas has had the largest used battery collection network in Spain and, due to its constant growth, continues to increase its presence in all the Autonomous Regions. The key objective of this extensive rollout is, of course, to **bring battery collection facilities as close as possible to the public**, thereby avoiding the uncontrolled disposal of this type of waste.

To achieve this objective, Ecopilas has published a search function for collection points on its website, www.ecopilas.es, so that the public can find the collection points nearest to their homes.



TOTAL COLLECTION
POINTS

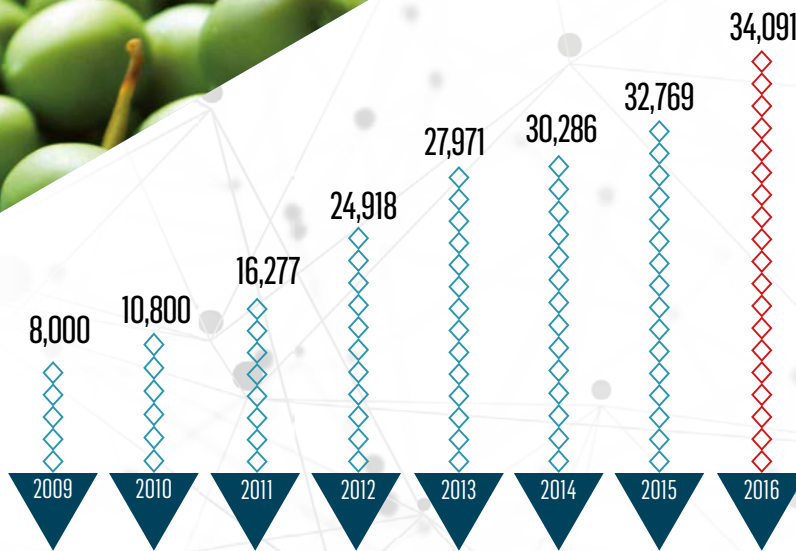
34,089

Development collection points

The Ecopilas battery collection network is the second largest in Europe, with **37,009 containers** spread over the whole of Spain, according to figures from **Eucobat**, the association of the 16 largest collective systems for this type of waste in Europe.

The network comprises more than 34,000 collection points and for another year has reaffirmed its place as the most important network in its category and **one of the largest and most important in Spain**.

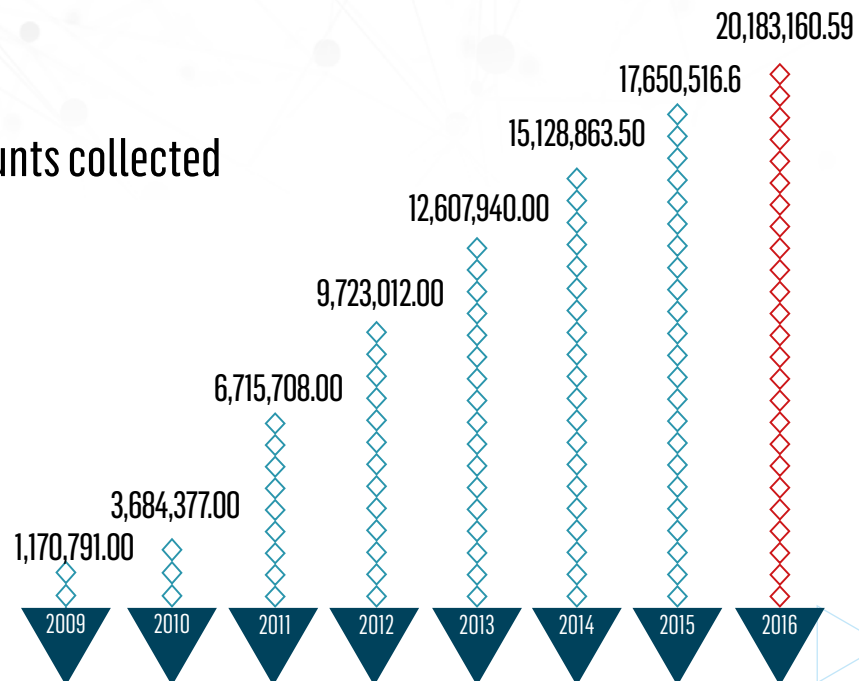
To make it possible for this network to operate, Ecopilas has a powerful online platform that enables the correct management of the network and ensures the traceability of the waste, from the moment of collection to its final treatment.



Development amounts collected

As a result of the constant growth of the Ecopilas used battery waste collection network, and the high level of public awareness, in 2016 we reached the milestone of having processed more than 20,000 tonnes of batteries and accumulators since our operations began.

This amount indicates the collection and recycling of more than 800 million used batteries which, thanks to our efforts and the **collaboration of the public**, have been collected and recycled correctly.

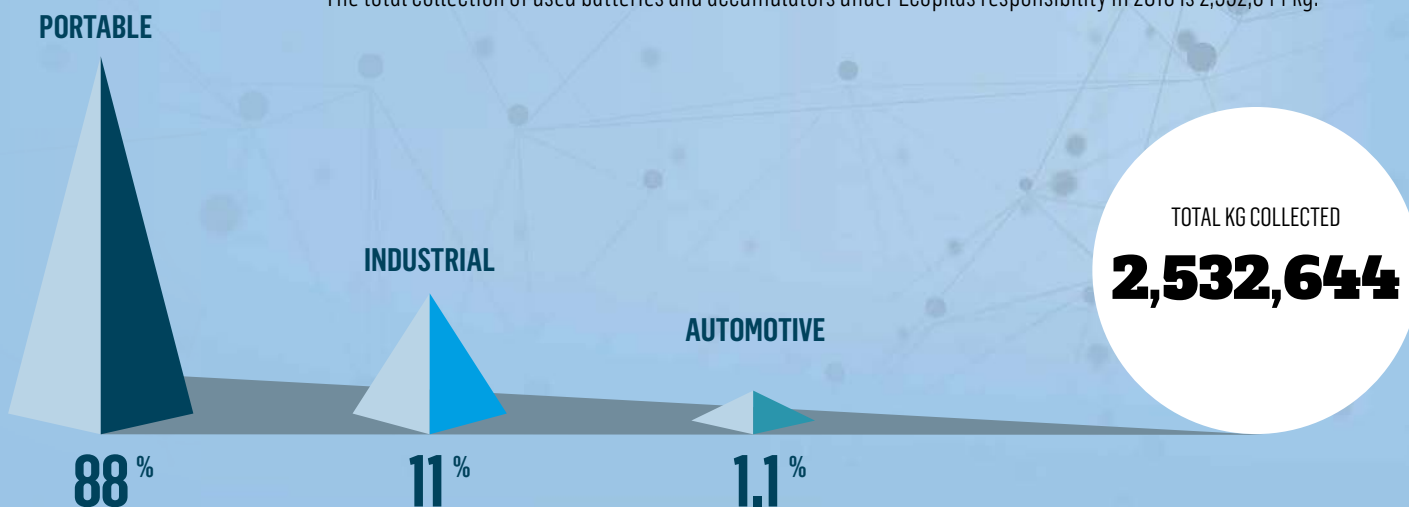


Amounts collected 2016

Of all the batteries and accumulators collected by ECOPILAS in 2016, portable batteries make up 88% of the total, with a slight growth of 2 points on the previous year's figures.

Automotive batteries and accumulators make up 1%, while collections of industrial batteries and accumulators currently make up 11% in a slight increase on 2015's figures.

The total collection of used batteries and accumulators under Ecopilas responsibility in 2016 is 2,532,644 kg.



PORTABLE

2,226,369 Kg

INDUSTRIAL

279,547 Kg

AUTOMOTIVE

26,701 Kg

The collection rate achieved by the Ecopilas **portable battery** container network was **41%** of the total released to market by Ecopilas producers.

Financial distribution

As the graphics show, in 2016 the Ecopilas Foundation's management of used batteries and accumulators was once again the largest item in the Foundation's cost structure. This item comprises the expense of collecting and recycling batteries in compliance with the requirements of current legislation and using the most efficient recycling plants in Europe for each type of battery and/or accumulator.

Communication expenses occupy a significant place in the Ecopilas cost structure, given that the law in force compels us to allocate a part of our resources to that purpose. In 2016 Ecopilas allocated 15% of the total expenses to communication and public awareness.

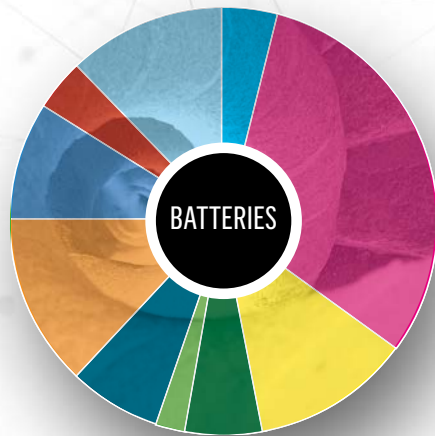


04

COMPANIES
companies and sectors
AND
SECTORS

At 31st December 2016, Ecopilas has **759 member companies**, a **9% increase on the previous year**.

The consumer electronics, telecoms and IT sector stands out with 32% of the total member companies. Other representative sectors are producers that manufacture exclusively in the battery and accumulator sector and the electromedicine sector, which use batteries in a wide range of products and which make up 12% and 11% of the Foundation's member companies respectively.



SECTORS REPRESENTED IN ECOPILAS		Nº COMPANIES
4%	DISTRIBUTION	32
32%	CONSUMER ELECTRONICS/TELEPHONY/IT	241
11%	ELECTROMEDICINE	86
6%	TOYS/LEISURE/SPORTS	49
2%	OFFICE IT	17
14%	OTHER SECTORS	104
7%	SMALL HOUSEHOLD APPLIANCES/HARDWARE/DIY/ELECTRICS	52
12%	BATTERIES	93
8%	PROFESSIONAL/INDUSTRIAL	57
4%	TELECOMS AND RADIOCOMMUNICATIONS	28
Overall total		759

DID YOU KNOW...

Ecopilas represents more than 795 companies, manufacturers and importers of batteries and accumulators in very different fields of activity.

05

operativas ecopilas
ECOPILAS
OPERATIONS

FUNCTIONALITY OF ECOPILAS OPERATIONS

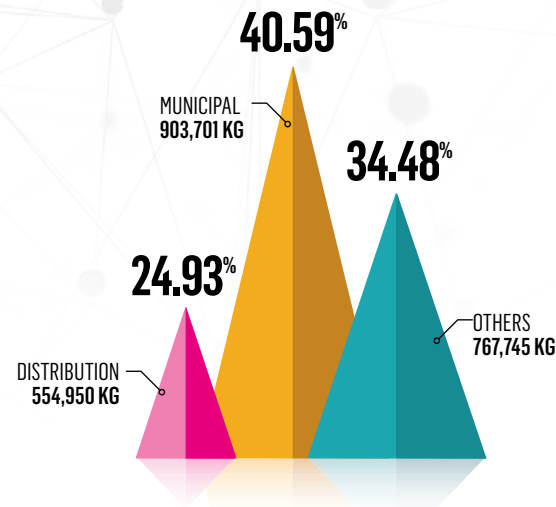
Portable use

The primary collection channel for the collection of portable batteries at Ecopilas is municipal **networks with 41%, followed by professional and industrial collections with 35% and distribution networks with 25%.**

- **Municipal collection:** Includes municipal recycling facilities, schools, public centres and municipal collection network containers.
- **Distribution:** Primarily composed of Ecopilas' own network of containers located in retailers, supermarkets and department stores.
- **Others:** Collections of professional and industrial origin.

DID YOU KNOW...

Ecopilas makes on average more than 25,000 collections of used portable batteries per year, which equates to more than a hundred million portable batteries each year.



Ecopilas has a wide range of containers which can adapt to all types of batteries and locations, guaranteeing a very high level of collection coverage throughout the country.

DID YOU KNOW...

In 2016, Ecopilas collected 116,251,233 units of portable batteries, which is an average of 318,497 units a day, as a result of the high level of awareness achieved in Spain.

The 'tube containers' are the most widespread type in the collection network because they are designed for locations with a high level of user traffic and, thanks to their visibility and unbeatable locations, are the ideal reminder for consumers who want to get rid of their used batteries.

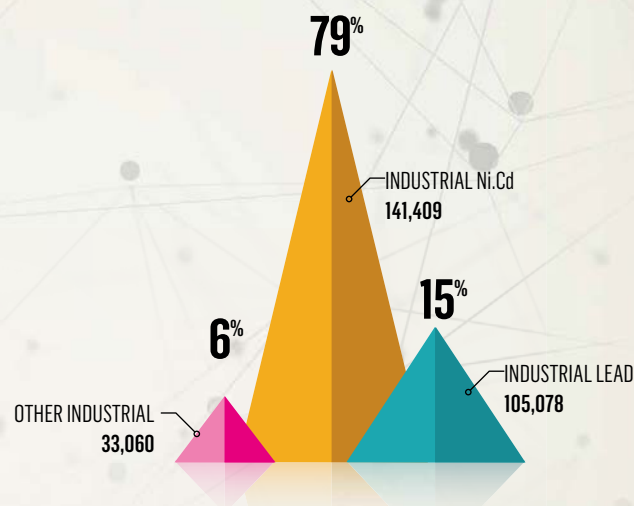


FUNCTIONALITY OF ECOPILAS OPERATIONS

industrial use

Due to the size and composition of industrial batteries, they are potentially much more dangerous than portable batteries, so they must be collected separately and following strict safety procedures that guarantee their correct final management at a treatment plant.

Ecopilas has created two specific channels for industrial collection, adapted to the needs of manufacturers and the most common technologies in this type of product, also ensuring the complete traceability of the collection and processing of these batteries.



INDUSTRIAL NI-CD CHANNEL

ECOPILAS

85%

15%

REST OF MARKET

Ni-Cd batteries are commonly used at large industrial facilities in the **electrical, rail, oil and gas sectors**. They are very popular in intensive uses due to their reliability. They require a high level of safety, but also a high level of monitoring, due to the potential environmental hazard they pose.

At Ecopilas we have created a joint work group with the major companies in the sector in order to monitor these batteries and ensure their correct collection and final processing.

INDUSTRIAL LEAD CHANNEL

Another important operation for industrial-use batteries implemented at Ecopilas is the industrial lead collection channel. This collection channel currently makes up 15% of all the industrial collections Ecopilas carries out, due to the agreements Ecopilas has reached with the major recyclers of lead acid batteries in Spain, in order to guarantee the correct treatment of this type of waste.

HYBRID/ELECTRIC VEHICLE BATTERIES

In 2013 Ecopilas launched the operation designed for the collection and final processing of electric vehicle batteries, which was very well received by the manufacturers of these vehicles, as they are the basis of a sustainable future for this type of waste.

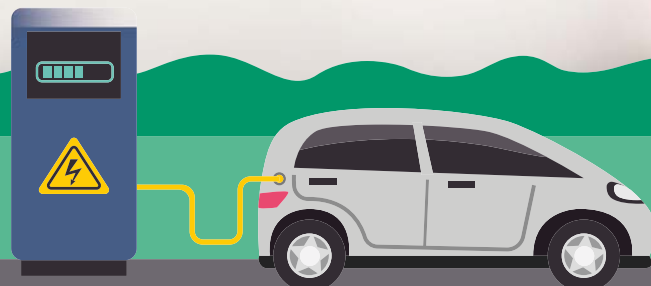
Currently, Ecopilas counts among its members more than twenty major manufacturers and importers of electric vehicles who trust in our experience in used battery management to launch the collection operations that these companies need.

DID YOU KNOW...

Electric vehicle batteries which are used for 'vehicle propulsion' are included in the 'industrial use' battery category.

DID YOU KNOW...

According to the definition in RD 106/2008, automobile batteries are only those used for starter, lighting or ignition for vehicles, whatever the technology used.



06

**COMMUNICATION
AND
EVENTS**

Communication, websites and social media

Communication, through generalist and specialist media and social networks, plays a vital role in the Ecopilas environmental foundation's work to raise awareness, with a particular emphasis on the environmental education of new generations and bringing collection points closer to the public.

In 2016, Ecopilas' activity has continued to attract the attention of generalist and financial media, both nationally and regionally, as well as specialist publications in the field of sustainability, the environment, corporate social responsibility and sports, as a result of the Recyclia foundation's increasingly significant and established collaboration with the Cycling Tour of Spain and the Extremadura professional cycling team, Extremadura-Ecopilas.

Over the course of 2016, the Ecopilas website was constantly updated with new content and photographs and received more than 41,000 visits from around 33,000 users.

The most popular sections of the website are:

- 'Our containers', where organisations, schools and companies can share their intention to collaborate with Ecopilas and request the installation of one or more containers.
- 'Collection map', where the public can easily find their nearest collection point from the more than 34,000 that the Foundation has spread across the whole of Spain.

With regard to social networks, the **@Ecopilas profile on Twitter has more than 4,220 followers, with an average of 14,525 views per month, and the Facebook page has more than 1,650 fans.**



2016 Tour of Spain Cycle Race

For the third consecutive time, Ecopilas and the Tour of Spain promoted battery collection among cycling fans. Ecopilas, a pioneer in this country in fostering a culture of recycling through sport, launched an information and collection campaign that enabled it to remove more than 1,650 kilos of batteries in the 2014 and 2015 editions of the cycling race.

The foundation set up collection bins at the start and finish lines of the 21 competition stages. It also handed over the Sportsmanship Award in 11 stages, including the final in Madrid in which Alejandro Valverde collected the award from José Pérez, the foundation's president, and deposited some batteries in one of the containers, thereby collaborating in raising awareness of the importance of the proper recycling of batteries.

Meanwhile, fans who attended the finish lines at Peñíscola, Lluçena, Gandía, Calpe, Alcoy or Madrid could visit the mobile School of Recycling, an environmental education programme promoted by Recyclia and Ambilamp that offers an interactive demonstration of the benefits of recycling batteries, small domestic appliances, light bulbs, LEDs and fluorescent tubes.



Finally, Ecopilas has recognised the three most active municipalities in battery collection among the 40 locations that hosted start and finish lines in the latest edition of the Tour of Spain. This recognition went to Alcañiz (Aragón), Corrales de Buelna (Cantabria) and Luintra (Orense).

OWN CAMPAIGNS

Mallorca **Cycling Challenge** and **Tramuntana Travessa**

As well as collaborating with the Tour of Spain for another year and, for the first time, sponsoring Ecopilas Extremadura, in 2016, the foundation has run awareness-raising campaigns in other cycling competitions in order to promote practices that favour sustainability.

For the third consecutive time, the foundation collaborated with the **Mallorca Cycling Challenge**, held from 28th to 31st January. Throughout the battle for its four trophies, Ecopilas promoted the collection of used batteries on the Balearic Islands with the installation of containers at the start and finish lines. Furthermore, fans who attended the finish lines at Deià and Palma de Mallorca could visit the School of Recycling, the pioneering environmental education project promoted by Recyclia and Ambilamp.

As in the two previous editions, the initiative enjoyed the support of the Government of the Balearic Islands General Directorate of Environmental Education, Environmental Quality and Waste.



The **Tramuntana Travessa** is held on 2nd and 3rd December in the Tramuntana Natural Park in Mallorca.

Runners who took used batteries to the Ecopilas stands in the number collection area or the finish line participated in a prize draw to win 200 euros worth of sports equipment and four places to participate in Tramuntana Travessa 2017.

OWN CAMPAIGNS

Formentera **Half Marathon**

At the eighth edition of the **Formentera Half Marathon**, Ecopilas representatives handed over one of the sporting achievement prizes, brought the collection points closer to fans, and also visited several schools together with the Councillor for the Environment, Daisee Aguilera, to show pupils the environmental benefits of recycling batteries.



11th Hortaleza **School Cross Country**



Ecopilas sponsored the 11th edition of the **School Cross Country in the Hortaleza district**, which is the largest school race in the Community of Madrid and in which more than 5,000 primary-age children from the district's state and private schools participated. For another year, the environmental foundation turned the event into a celebration of sport and recycling, providing containers for participants to deposit their batteries in and rewarding their contributions.



Extremadura-Ecopilas MTB

Given the excellent response from cycling fans to the battery recycling dissemination campaigns that Ecopilas runs at events like the Tour of Spain, the foundation sponsored the Extremadura professional mountain biking team for the first time in 2016.

The team, which competed under the denomination '**Extremadura-Ecopilas**', promoted the collection of 360 kilos of batteries in public awareness actions that took place in the context of a range of events, including the Monfragüe Biosphere Reserve MTB race and the Titán Villuercas. It also contributed to the extension of the foundation's collection point network in the region.



OWN CAMPAIGNS

Burgos Council

With a view to beating 2015's record of collecting 6,481 kilos of used batteries, Ecopilas and Burgos Council, through the Provincial Institute of Sport and Young People, signed a collaboration agreement to carry out environmental education actions in this province of Castilla y León.

Through activities organised by the institution, including the **Cycling Tour of Burgos**, the **Cross de Atapuerca** and the School Games, Ecopilas and Burgos Council raised public awareness of the importance of selective collection and recycling of batteries.



With the momentum these activities generated, Ecopilas collected 15,037 kg of batteries in 2016 in the province of Burgos, more than double the amount collected in 2015.

Unicaja Basketball

As part of its collaboration with **Unicaja Basketball** and the 'Málaga Recycles' campaign, Ecopilas facilitated the collection of more than 3,000 batteries from participants in the 8th All Star Minibasket Tournament, organised by the Málaga club. The tournament, held in Los Guindos Basketball School, involved the participation of 16 teams from Andalusia, Albacete and Melilla.



Travesera Picos de Europa

In 2016, Ecopilas promoted the environmental benefits of recycling batteries to the public at a variety of sporting events, including, for the first time, the endurance running race **Travesera Picos De Europa**, held on 11th June.

Fans who attended to support the race beat the collection record, as on a single day of the competition, Ecopilas managed to collect more than 600 kilos of used batteries in the containers placed at the race finish line.

Over the summer, Ecopilas also sponsored the **10th Resistencia Reino Astur** trail run in Nembra, Asturias.



Descent of the Sella

Ecopilas also had a notable presence on the podium at the 80th Descent of the Sella canoe race, in recognition of its sponsorship work in previous years.



Tour of Asturias

Ecopilas sponsored the **Cycling Tour of Asturias**, which took place from 30th April to 2nd May. Ecopilas had stands at the exits and finish lines of the stages, and worked with hotels in the areas where the competition took place to boost public participation in collecting used batteries.



OWN CAMPAIGNS

Chocolate Room



The Ecopilas foundation collaborated with the 11th edition of the **Madrid Chocolate Room**, held from 20th to 23rd October, demonstrating to visitors that recycling batteries is as easy and pleasant as enjoying a bar of chocolate. So, everyone who took batteries for recycling to the foundation's stand was awarded with an original battery-shaped chocolate.

In addition, they received information about where and how to contribute to battery recycling and why it is important, and they were given a handy cardboard box for storing batteries at home before taking them to the appropriate waste containers.



Rugby in Pozuelo (Madrid)



Ecopilas collaborated for another year with the Pozuelo Rugby Club by sponsoring the 8th Autumn Children's Rugby Tournament in October, in which eight teams participated. In doing so, Ecopilas promotes battery recycling among the youngest fans of this most demanding sport.

JOINT CAMPAIGNS **AUTONOMOUS REGIONS**

Apilo XII 2nd Edition (Catalonia)

The second edition of the **Apilo XII** campaign, launched by the Catalan Waste Agency and the battery management collective systems, closed with the collection of more than 36 tonnes of waste batteries, thanks to the collaboration of Catalan schools.



The two that collected the most batteries were schools in the Garrigues district: Soleràs (Soleràs) and La Lavanda (Juncosa), which collected the most batteries per pupil. Second and third places went to the Tivenys municipal club (Baix Ebre) and Vilamajor de Bovera school (Garrigues). They all received vouchers to exchange for classroom materials.

Furthermore, in 2016, Apilo XII doubled the number of training sessions on the importance of selective battery collection, with 220 workshops over 195 centres.



Charge your batteries! (Lanzarote)

2,382 kilos of batteries were recycled thanks to the '**Charge your batteries!**' competition, supported by **Lanzarote Council** and promoted by Ecopilas. This second edition, which involved 46 of the island's schools, managed to collect 20% more kilos of batteries in 2015-2016 than in the previous year.

The Capellanía del Yágabo pre-school centre and primary school once again claimed the top prize, with 516 kilos of batteries. Also, the Muñique pre-school centre and primary school, which has just 9 pupils, won the prize for 'Most batteries collected per pupil' for collecting 54 kilos.



07

csr activities CSR ACTIVITIES

Real Madrid Foundation

The Real Madrid Foundation's Sport and Social Schools Tournament is already one of the best-attended events in the used battery recycling campaign conducted by the Ecopilas environmental foundation.



In the 2016 edition, more than 2,000 children from the 20 Community of Madrid schools participating in the tournament collaborated to contribute more than 1,000 kilos of batteries.



Adapted Descent of the Sella

A total of 145 sportspeople with disabilities participated in the **23rd Adapted Descent of the Sella**, organised by the Principality of Asturias Sports Federation for People with Physical Disability (FEDEMA). For another year, Ecopilas sponsored this competition, which is now established as the star event of the national canoeing calendar, and awarded one of the sporting achievement prizes.

Ecomar Foundation



Students and members of the 64 yacht clubs and sailing schools that participated in the **'Charge up your batteries and recycle'** campaign, conducted by Ecopilas and the **Ecomar Foundation**, collected 1,100 kilos of batteries in the summer of 2016, 10% more than in the same period in 2015.

In 2016, for the second consecutive year, Ecopilas and Ecomar promoted this campaign to boost the protection of our coastlines through battery recycling, installing containers in the yacht clubs, sailing schools, marinas and other yachting centres across Spain that are participating in the Grímpola Ecomar environmental education programme.

In addition, as in the first edition, Ecopilas and Ecomar awarded sports equipment to the three clubs that collected the most. With 154 kilos, the Royal Sailing Club of Algeciras won first prize, while second and third places went to the Royal Sailing Club of Palma de Mallorca and the Cataventos de Corcubión Yacht School (A Coruña), for their contributions of 137 and 124 kilos of batteries respectively.



08

RECYCLIA
NEWS
/ ECOPILAS ANNIVERSARY
ANNIVERSARY

ECOPILAS 2016 ANNUAL REPORT



2nd Recyclia Environment Awards

Recyclia held the second edition of its Environment Awards in 2016. With these awards, the platform recognises the effort of people, organisations and media outlets in working for environmental sustainability and, in particular, encouraging recycling and promoting its benefits. The event also commemorated the 15th anniversary of the environmental foundation Ecopilas.

In this second edition, Recyclia awarded the Provincial Council of Burgos' Provincial Institute for Sport and Young People (IDJ) in the category 'Greatest Support from a Public or Private Entity for Promoting Recycling', in recognition of its work to raise awareness of proper waste management through sports events such as the Cycling Tour of Burgos and the Atapuerca Cross Country. The award was collected by David Colinas, vice-president of the IDJ board of governors.

Gonzalo Echagüe Méndez de Vigo, director of the National Congress of the Environment (CONAMA) Foundation, was awarded the prize for 'Greatest Support from an Individual for Promoting Recycling', for making the CONAMA a benchmark event in environmental sustainability on a national and international level.

In the category 'Best Work by a Media Outlet to Raise Awareness of Recycling', the 2nd Recyclia Award went to El Economista's monthly supplement, 'Agua y Medio Ambiente' ('Water and Environment') for

the financial media outlet's work to provide space for environmental information with a generalist approach. Meanwhile, Federico Cardeus was awarded in the category 'Best Work by a Journalist to Raise Awareness of Recycling' for his report on recycling electronic waste for the episode, 'Enganchados a la red', of the programme 'Comando Actualidad' on TVE channel 1.

Finally, in celebration of the Ecopilas Foundation's 15th anniversary, Recyclia awarded two special recognitions to Rafael Acedo Pérez and José López de Velasco for their work in the Office for Environmental Quality of the former Ministry of Agriculture, Food and Environment, in the legislative development of the Royal Decrees on environmental management of batteries and electronic devices.





ecoencuentro

The impact of recycling and collective waste management systems in the circular economy was the focus of the annual meeting of the Recyclia environmental platform, **EcoEncuentro 2016**. Held in Madrid on 23rd November, the day brought together **more than 200** professionals from the electronics recycling and energy efficiency sector and government representatives to analyse the latest developments and trends in regard to the circular economy.

EcoEncuentro 2016 was opened by José Antonio Díaz Lázaro-Carrasco, Madrid City Council's general director for the environment, and he underscored the importance of having enough collection points for electronic waste and batteries and them being close enough to the public.

Then, José Pérez, managing director of Recyclia, reviewed the platform's work and its management of more than 152,000 tonnes of electronic devices and 17,600 tonnes of batteries since 2001, sealing its position as a flagship in the management of this type of waste in Spain.

EcoEncuentro 2016 also analysed sustainable development initiatives such as car2go and the green design projects by Ihobe, the Basque Government's Public Society for Environmental Management. For his part, José Rizo, from the European Commission's Directorate General for the Environment, expounded the benefits of recycling batteries in the circular economy.





Furthermore, as in previous editions, **EcoEncuentro 2016** held a debate to analyse the role of electronic device producers and the collective system for electronic device waste management, in accordance with Royal Decree 110/2015 which regulates their environmental treatment in Spain. Fernando Sánchez Salinero, communications professional and strategic consultant, brought the proceedings to a close with a keynote presentation on reconsidering the welfare state.

Ecopilas celebrated its 15th birthday



// Fundación para la Gestión Medioambiental de Pilas //



C/ General G. 20020 Madrid. Tel. 91 471 08 93
www.ecopilas.es



conama 2016

From 28th November to 1st December, Recyclia took part in the 13th edition of the National Congress of the Environment (CONAMA). The president of Ecopilas, José Pérez, was one of the speakers at the event's round table, the Ibero-American Meeting on Sustainable Development. For her part, María Jesús Veleiro, director of planning and development at Recyclia, participated in the working session, 'Preparing for Reuse'.

In fact, in this regard it is worth noting that Recyclia collaborated with Ecolec and Conama in a pilot test for reusing waste IT equipment. The companies donated 55 pieces of equipment which were reused over the course of the Congress, having undergone a detailed data-deletion process, tests to ensure their correct functioning and the installation of new software.



09

international presence
**INTERNATIONAL
PRESENCE**

Eucobat



The Ecopilas foundation, together with the European systems for battery collection Bebat (Belgium), Corepile (France); GRS (Germany), SNRB (Romania) and Stibat (Netherlands), has participated in a project that analyses the average life of portable batteries.

The study, designed by Eucobat, ran throughout 2015 and 2016 and analysed more than 100,000 portable batteries from different technologies, tracing their life cycle from manufacture and placement on the market to collection for subsequent treatment. The objective was to establish the average time it takes for various types of batteries to reach recycling containers and the amount discarded each year.

To do this, the various waste battery technologies were analysed, such as li-ion batteries whose useful life can exceed six years. Currently, the formula for waste batteries generated only takes into account the batteries released to market in the last three years.

This study, in which Ecopilas has played an active role, will help collective systems and the European authorities to set more realistic environmental targets.



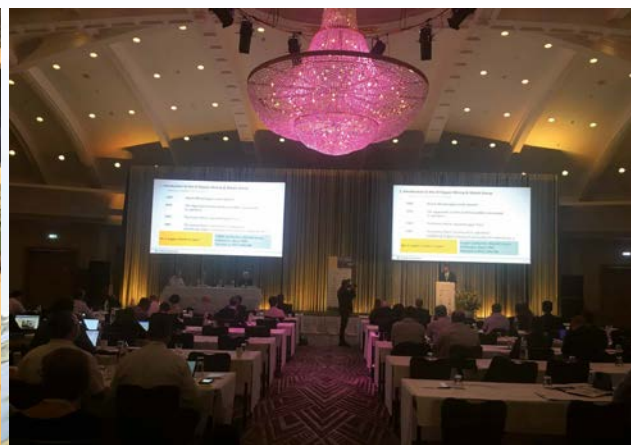
ICBR 2016: 21st International Congress for Battery Recycling

José Pérez and Gonzalo Torralbo, CEO and General Secretary of the Ecopilas Foundation, participated in the 21st International Congress for Battery Recycling (ICBR) which took place in Ambers, Belgium, in September.

The main topic was the recycling of lithium batteries, as this technology has experienced a boom in the battery market, in both industrial use and the electrical vehicle and bicycle sector, and an analysis of the nature of its transport and treatment is needed.

Speakers at the congress also analysed the current and future trends in battery recycling, in Europe, the USA, Canada, Japan and Australia, and their new uses, given the growing relationship between batteries, e-mobility and sustainable transport, and the need for new technologies and new forms of treatment and recycling to return waste to productive activity in order to produce a new vision of the contribution of battery recycling to the circular economy.

The sessions and debates at the congress were complemented by a commercial exhibition area where various modes of waste treatment and transport were displayed. Keen interest was shown in Sparta's electric bicycles with Smart Ion Technology, and the most popular car, the Tesla Roadster, the first completely electric sports car, manufactured by the American company Tesla Motor.



IARC2016 European Congress

Ecopilas has played an active role in the #IARC2016 International Automobile Recycling Congress, which addresses the recycling of car parts and batteries, organised by @icm_events and held in Berlin in March.

**IARC
2016**
March 16 – 18, 2016
Berlin, Germany
www.icm.ch

Our CEO and general secretary participated in several round tables which dealt with issues including:

- Waste gasification for energy generation, new plants with much higher yield.
- The exponential growth of electric car use means that more than 15 million will be on Europe's roads by 2020.
- The search for a second purpose for lithium-ion car batteries where mobility is not necessary, and the possibility of an electric network.

For our part, Ecopilas presented itself to the professional participants as a solution for electric car battery recycling, contacting practically all the brands that will be present in Spain in the medium term.

Contact was maintained with battery recycling plants such as REDUX and SNAM, with car manufacturers and with Spain's Integrated Car Recycling System, SIGRAUTO.

The congress in Berlin brought together the different agents that make up the scrap vehicle recycling chain such as car and metal manufacturers, scrap metal and plastic dealers, recyclers, dismantlers, shredders and politicians and policy-makers from all of Europe.







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