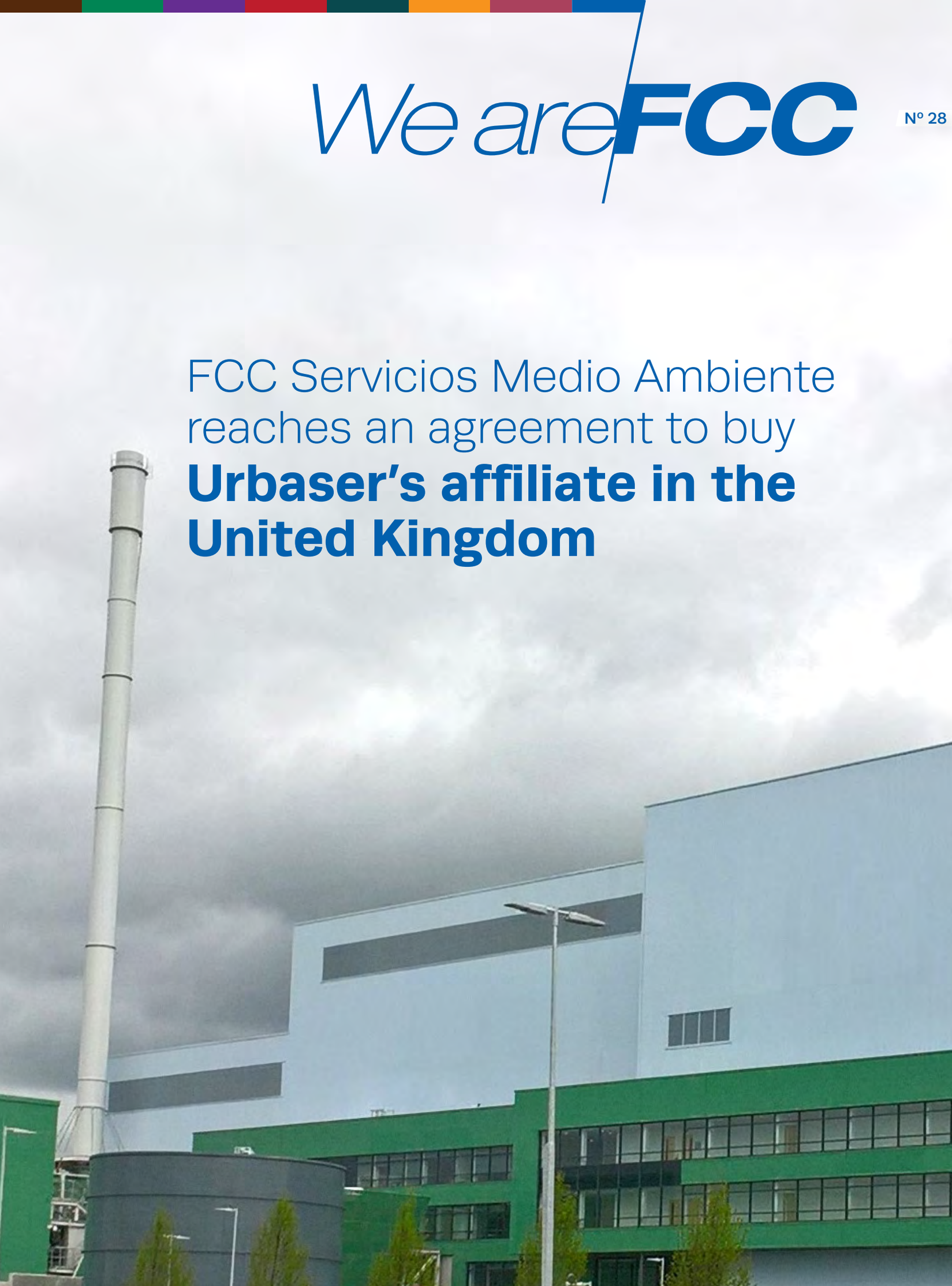
We are FCC

Nº 28

FCC Servicios Medio Ambiente reaches an agreement to buy **Urbaser's affiliate in the United Kingdom**




you_

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Christmas greeting from the Chairwoman and the CEO
In these special days for all of us, we would like to wish you a very Merry Christmas and a 2024 full of health, joy and many good projects.
We thank you in a very special way for the effort and commitment you have shown throughout 2023 and we encourage you to continue with the same enthusiasm in the new year that will soon begin.
A big hug that we would also like to extend to your families and loved ones.
Esther Alcocer Koplowitz y Pablo Colio Abril





FCC pays tribute to employees who have been with the company for **40 and 25 years**

The FCC Group has presented the Fidelity Awards to people who have been with the company for 40 and 25 years at a ceremony held at the Las Tablas Corporate Headquarters in Madrid. The ceremony was presided over by Esther Alcocer Koplowitz, chairwoman of the FCC Group, and Pablo Colio Abril, CEO of the company, accompanied by the CEO of Aqualia, Félix Parra, and the CEO of FCC Medio Ambiente, Jordi Payet.

Esther Alcocer addressed some emotional words to all the people present, offering her most sincere congratulations to all the award winners, thanking them for their work and efforts over the years.

Pablo Colio then congratulated the honorees for their contribution to creating the company that FCC is today, thanking them for their dedication and loyalty over the years, as well as their high degree of commitment to the company.

After both speeches, the Fidelity Awards were presented to recognise the careers and work of those professionals who have dedicated 40 and 25 years to the company. A total of 83 people received the award, in recognition of their talent, effort and dedication to FCC. In addition, another 57 people in different cities and towns where the company operates through its business areas also received awards.

Specifically, a total of 140 workers belonging to the FCC Group received this recognition.

After the ceremony, the traditional Christmas party was held, where both the Chairman and the CEO wished everyone present a Merry Christmas and best wishes for the New Year.

Premios Fidelidad 2023

The chairwoman of the FCC Group presented the Fidelity Award to her sister Alicia Alcocer Koplowitz, chairwoman of the Cementos Portland Valderrivas Group, for her 25 years with the company



From left to right, Pablo Colio Abril, CEO of the company, Jordi Payet, CEO of FCC Medio Ambiente, Alicia Alcocer Koplowitz, chairwoman of the Cementos Portland Valderrivas Group, Esther Alcocer Koplowitz, chairwoman of the FCC Group, and Félix Parra, CEO of Aqualia.





Thanks for making it yours



Thanks for doing your thing

We would like to thank you because during 2023 you have once again demonstrated that it is possible to do better and that everything can change if you make a great goal your own and give yourself to it.

At FCC, we are driven by our commitment to sustainability and the desire to **care for our planet**. Once again, we celebrate being on the right path and this is only possible with the daily **dedication of people like you**.

This is our message of thanks during the holiday season we hope it resonates with you for a long time to come.

Thanks for making it yours

Our **commitment to sustainability** and our efforts to improve the world around us every day.





Thanks for doing your thing

The efforts you make to change things and your ability to **confront each challenge with a positive attitude** make everything around you shine.



Share your greetings

Happy Holidays and here's to a 2024 full of courageous actions!

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Esther Alcocer Koplowitz, chairwoman of the FCC Group, at the Princess of Asturias Awards ceremony.

Esther Alcocer Koplowitz, present at the Princess of Asturias Awards

The chairwoman of the FCC Group, Esther Alcocer Koplowitz, once again attended the official Princess of Asturias Awards ceremony on behalf of the FCC Group, a trustee of the Princess of Asturias Foundation.

Their Majesties the King and Queen, accompanied by Their Royal Highnesses the Princess of Asturias and Infanta Sofía, presided over the solemn awards ceremony, held at the Campoamor Theatre in Oviedo on Friday 20 October, in the presence of Her Majesty Queen Sofía.

The ceremony is considered one of the most important cultural events on the international agenda. Throughout their history, these awards have received various recognitions, such as the extraordinary declaration made by UNESCO in 2004 for their exceptional contribution to the cultural heritage of Humanity.

The Foundation organises these awards every year with the aim of recognising the scientific, technical, cultural, social and human work carried out by individuals, groups of people or institutions at both national and international level.

Princess of Asturias Foundation

The Princess of Asturias Foundation announces the Princess of Asturias Awards, which are presented annually at a solemn academic ceremony held in Oviedo, capital of the Principality of Asturias. The objectives of the Foundation are to contribute to the exaltation and promotion of all scientific, cultural and humanistic values that are universal heritage and to consolidate the links between the Principality of Asturias and the title traditionally held by the heirs to the Crown of Spain.

The King presents engineer Carlos Slim with the 9th Enrique V. Iglesias Award for the development of the Ibero-American Business Space



Don Felipe after the presentation of the award to Carlos Slim.

The King presented the 9th Enrique V. Iglesias Award for the development of the Ibero-American Business Space to the engineer Carlos Slim Helú, chosen unanimously by the jury for his contribution to economic and business growth, the generation of employment and the rapprochement of relations between the countries of Ibero-America, always placing value on people. He also highlighted "the great social work carried out by the Carlos Slim Foundation with its employment, training, health, environmental, sports and cultural programmes, among other areas, which for more than three decades have improved the quality of life of millions of people in Mexico and throughout Latin America".

The ceremony took place at the Zarzuela Palace and was attended by former Prime Minister Felipe González; the Ibero-American Secretary General, Andrés Allamand; and the President of the Business Council Alliance for Ibero-America (CEAPI) and secretary of the jury, Núria Vilanova.

After the reading of the minutes of the IX Enrique V. Iglesias Award for the development of the Ibero-American Business Space, the King presented the award to Carlos Slim, who addressed a few words of thanks, concluding with a brief meeting of Don Felipe with the attendees.

Since 2014

This award recognises, since 2014, business figures from the Ibero-American community who stand out for their relevant and extraordinary contribution to the development of the countries in the region and the promotion of ties between the nations of the Community through economic activity, investment and trade promotion, as well as the forging of a more socially inclusive and sustainable region.

The distinction is also a recognition and tribute to the figure of Enrique V. Iglesias, Honorary President of CEAPI and tireless fighter for the Ibero-American cause during his long career, first as President of the Inter-American Development Bank (IDB) and later as the first Ibero-American Secretary General (SEGIB).



Carlos Slim, during his speech of gratitude.

FCC receives the Community of Madrid **ONCE Social Group Solidarity Award 2023**



Awards Ceremony for the Community of Madrid ONCE Social Group Solidarity Award 2023.

The ONCE Social Group has awarded the FCC Group's solidarity in the Company category for promoting social projects aimed at reducing aspects such as inequality, poverty and the risk of social exclusion.

The award was presented in the auditorium of the Sanchinarro Cultural Centre in Madrid, during the ONCE Madrid 2023 Social ONCE Group Solidarity Gala.

The FCC Group's corporate human resources manager, Ramona Fernández Kelly, accepted the award.

On behalf of all the people who make up the FCC Group, Ramona Fernández Kelly thanked the ONCE Social Group and the panel of judges for having given the company this award.

In her speech Fernández Kelly emphasised that "we are being rewarded for doing something that we understand to be inherent to the social commitment of any self-respecting company: being supportive, promoting, through our different lines of business, projects aimed at reducing inequality or the risk of social exclusion in the communities in which we work". At the same time, she added that "this award, in addition to being a source of pride, is a huge incentive for us to continue working and striving for a fairer, more inclusive world in which equal opportunities are a reality".

The FCC Group, through its different lines of business, carries out programmes to promote social development, culture, sport and health care. FCC shows a clear commitment to the integration of people with disabilities in the workplace, as a key element for social integration and personal improvement. It collaborates with specialised organisations that advise on recruitment management and support for people with disabilities and/or at risk of social exclusion.

FCC receives the **ECOFIN Image of Spain Award**



Photo of the winners of the ECOFIN Image of Spain Award.

FCC has won ECOFIN's Image of Spain award, a recognition that has been given for more than 10 years to companies, institutions and initiatives that contribute to spreading the Spain Brand around the world.

The award was collected on behalf of FCC by Felipe García Bernabé, the company's general secretary, at a ceremony held on 17 October at La Noche de las Finanzas, held at the Cristalera de la Hípica at the Club de Campo de Villa de Madrid.

The Jury of the ECOFIN 2022 Awards recognised FCC with this award as "a brand with more than 120 years of experience that certifies the value of Spanish talent in leading international projects on five continents". Since the late 1970s, the company has been signing major international projects to improve the quality of life of local communities and citizens in the countries where it operates.

The Board of Directors of the FCC Group approves the new Equality Policy -opportunities and safe environments, Diversity and Inclusion

Consult it in one

Esther Alcocer Koplowitz, chairwoman of FCC, receives **Business Leader of the Year Award**



From left to right, Fernando Pastor, director of La Información; Marisa Navas, president of La Información; Esther Alcocer Koplowitz, Chairwoman of FCC; and Fernando de Yarza, president of the HENNEO Group.

The chairwoman of the FCC Group, Esther Alcocer Koplowitz, received the Business Leader of the Year Award, presented annually by LaInformacion.com, the Henneo Group's economic digital newspaper, from the chairman of the Henneo Group, Fernando de Yarza, and the chairwoman of La Información, Marisa Navas, at a ceremony held at the Rafael del Pino Foundation in Madrid.

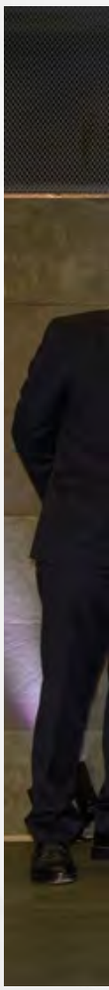
Esther Alcocer Koplowitz thanked the Henneo Group and La Información for giving her this leadership award. "It is an award that I am happy and excited to accept on behalf of each and every one of the people who make up the FCC Group, because they are the ones who have made it possible. Without them, FCC would be just a chimera and not one of the great leaders in the sector after more than 120 years of activity in more than 25 countries".

In his speech, she also dedicated the award to his mother, Esther Koplowitz, her main inspiration and point of reference, "when in 2013, I took over the presidency of the Group, I set out to follow the path initiated by my main inspiration and point of reference: my mother, to whom I would like to dedicate this award in particular".

She also wished to highlight the persistence of the people who make up FCC, their passion for things well done, and the attention and care given to the people who make up the different businesses.

The company's chairwoman ended her speech by stressing that "what will always sustain companies will be those leaders who have the ability to translate a vision into a reality and who know, above all, how to instil hope in times of crisis".

These awards are presented annually and recognise those businessmen and entrepreneurs who, through their daily efforts and by acting ethically, sustainably and





From left to right, Luis Colina, Chairman of the Board of Directors of La Información Group; Fernando de Yarza, Chairman of Henneo; Marisa Navas, Chairman of La Información; Esther Alcocer Koplowitz, Chairwoman of FCC; Maarten Wetselaar, CEO of Cepsa; Sara Aagesen Muñoz, Secretary of State for Energy; Marc Murtra, Chairman of Indra; Fernando Pastor, Director of La Información; Íñigo de Yarza, CEO of Henneo.

contributing to society, have become a role model. These values are a living expression of those that inspire the journalistic model of LaInformacion.com.

They are awarded, in fact, to individuals, companies, entities or leading institutions, based in Spain, which throughout the year have stood out in one of the three established categories: Business Leader of the Year Award, Leader of the Year Award in Sustainable Investment and Leader of the Year Award in Innovation.

FCC Servicios Medio Ambiente reaches an **agreement to acquire Urbaser's** affiliate in United Kingdom

The acquisition of Urbaser's UK business will enable it to expand its range of products and services and improve the value proposition for its customers.



> The estimated enterprise value of the transaction (including debt and equity) is £398 million

FCC Servicios Medio Ambiente has agreed to buy the business of Urbaser's affiliate in the United Kingdom. The estimated enterprise value of the transaction (including debt and equity) is £398 million (around €464 million). The deal is expected to be completed in the second quarter of 2024, subject to the fulfilment of certain conditions customary in this type of transactions.

More than 30 years in the United Kingdom

FCC Servicios Medio Ambiente has been present with its subsidiary FCC Environment UK in the UK market since 1989 and is one of the five largest local waste management operators. The acquisition of Urbaser's UK business will enable it to expand its range of products and services and improve the value proposition for its customers.

The Urbaser UK subsidiary operates domestic recycling, composting, materials recovery, energy recovery and disposal facilities in the UK. It also provides municipal waste collection, recycling centre management and street cleaning services.

A company at the forefront of waste treatment

FCC Environment UK Chief Executive Officer Steve Longdon said "as one of the UK's leading resource and waste management companies, this is a very positive move for our business here in the UK strengthening our core services yet further. We are looking forward to welcoming the Urbaser team and to continuing to deliver exceptional services both to our existing and to our new clients".

Santander Corporate & Investment Bank acts as financial advisor to FCC Servicios Medio Ambiente in the transaction and Linklaters is acting as legal advisor.

> Urbaser's business in the region consists mainly of recycling, treatment, waste collection and street cleaning activities

FCC Servicios Medio Ambiente is the head of the group of companies that for more than 120 years has been the backbone of the FCC Group's environmental activities. It serves 66 million people in 5,200 municipalities around the world and manages more than 24.6 million tonnes of waste as a resource every year.

> The transaction is expected to be completed in the second quarter of 2024



EnviRecover waste-to-energy plant in Kidderminster, United Kingdom.

Aqualia's new **Innovation Centre for the complete water cycle** makes Salamanca an international benchmark for **"green technology"**



Group photo of the inauguration of the new Innovation Centre.

Aqualia and the Salamanca City Council have inaugurated a new Innovation Centre for the Complete Water Cycle located at the city's Wastewater Treatment Plant (WWTP). The new facilities will develop innovative solutions that address current and future challenges towards a sustainable integrated water cycle, guaranteeing the quality of drinking water and a decarbonised wastewater management system that allows the true value of water to be obtained.

A delegation from Aqualia, led by Juan Carlos Rey Fraile, Aqualia's Area Director; Frank Rogalla, Aqualia's Director of Innovation and Technology; and Pedro Rodríguez Medina, Aqualia's Director of Operations and Technology, inaugurated the new facilities and toured the WWTP together with the Mayor of Salamanca, Carlos García Carbayo. The mayor stressed that "this international initiative, co-financed with European funds and led by Aqualia, fits perfectly with the complementary economic model for the city that the city council is promoting, based on knowledge, the bio-health industry and the green economy".

Commitment to green technology and a sustainable environment

The inauguration of the new centre marks the start-up at the WWTP of national and international projects that will enable the generation of renewable hydrogen, biomethane and other bioproducts (bioplastics, fertilisers, etc.) from biowaste from the region's industries. Prestigious organisations are collaborating in the project, including universities and research and technology centres.

In fact, it already hosts the national project ECLOSION, for the generation of renewable hydrogen and

biomethane from biowaste, in which eight companies and ten universities and research centres are involved; and the European project Rewaise of the European H2020 call, in which twenty-five entities from eleven European countries participate, mainly water management companies, universities and research centres. This initiative connects a network of laboratories to demonstrate innovative technologies and new operational strategies, removing obstacles to new value chains that drive the circular economy model, and developing digital tools in a smart society approach around water.

> "The new Innovation Centre at the Salamanca WWTP will develop national and international projects for the generation of renewable hydrogen, biomethane and other bioproducts from biowaste"



A reference centre

The centre will coordinate activities of international, national and regional scope, as is the case of the initiatives being developed in Ávila, Guijuelo, Medina del Campo and Íscar, in Castilla y León. The treatment plant facilities have an international interdisciplinary team capable of validating the aforementioned technologies.

The actions to be carried out include, on the one hand, those related to the treatment and management of water for human consumption. In this area, it is worth highlighting the monitoring and management of reservoirs that have been implemented in reservoirs such as Fuentesclaras, in Ávila. With regard to the drinking water treatment process, it is worth mentioning the tests carried out with advanced sensors that measure chlorine concentrations in the Salamanca DWTP. In terms of distribution and leak detection, it is worth noting that the city of Salamanca was a pioneer in the intelligent management of networks with the active pressure management system implemented a few years ago.

In terms of sanitation and treatment, the monitoring of the network and the improvement in the efficiency of the processes, which reduce the plant's energy consumption; the joint digestion process of sludge generated in the facilities with other bio-waste from local industries, which allows the production of biogas, and in parallel, progress in the production of green hydrogen. Alternative energy sources such as photovoltaic panels have also been incorporated into the plant; work will also be done on generating biofertilisers for agricultural use and obtaining bioproducts for application in other industries.

All these solutions extract the true value of water and lead to the decarbonisation of its cycle. With the launch of the Innovation Centre, Aqualia reiterates its commitment to the city of Salamanca and its environment, by promoting innovative and sustainable solutions to the challenges posed by the integral water cycle.



The Mayor of Salamanca, Carlos García Carbayo, together with Juan Carlos Rey Fraile, Aqualia's Area Manager, unveiling the inauguration plaque of the Centre.

> "Salamanca, at the forefront in promoting safe, efficient and clean energy"

FCC Construcción **wins the contract to bury the railway** track in Moncada i Reixac, Barcelona



Virtual model of the new Montcada i Reixac station, Barcelona.

> The Rodalies R2 line will go underground as it passes through the municipality and a new station will be built

FCC Construcción has won the contract to bury Renfe's R2 commuter railway line in Montcada i Reixac (in Vallès Occidental, Barcelona). The project includes the construction of the town's new station and will involve an unprecedented urban and railway transformation, given the diversity and technical and construction complexity of the project. FCC Construcción forms a consortium with Ferrovial and Comsa, through which it will execute the contract, worth 540 million euro.

Railway integration

The burying of the tracks will make the R2 railway infrastructure permeable, which will facilitate integration between the different neighbourhoods of the municipality, thus enabling the urban transformation of the city. The project includes the construction of a four-kilometre tunnel through which the R2 line tracks will pass and a third track will also be added to improve the capacity and resilience of the system.



> This is one of the largest railway projects currently underway on the Spanish conventional network and one of the most ambitious actions of the Transformem Rodalies Plan

The underground route will begin at the Can Sant Joan neighbourhood and will be sunk to 35 metres, with a tunnel that will pass under an aquifer and the station will be located in the vicinity of the current station. The new route was calculated with parameters suitable for traffic speeds of up to 140 kilometres per hour and maximum ramps of 3%.

The construction of the new underground station and the accesses will be integrated into the new development and will meet the criteria of a sustainable, accessible and functional station and will have three tracks, one of which will be new, and two side platforms. It will also have a central track, without a platform, which will be used by regional trains that will not make stops. The project configures future operating schemes for the local rail network around Barcelona and the metropolitan area.

Improved safety

It will also increase safety conditions for residents and railway operations by eliminating the two-level crossings located in this area, with a high density of vehicle and pedestrian traffic and in a network with a large number of circulations on Rodalies lines R2 and R11. The integration will create new spaces for coexistence and socio-economic revitalisation and will contribute to the reduction of the carbon footprint.

A benchmark in **railway tracks**

The FCC Group's construction division has built more than 3,500 kilometres of railway track, both infrastructure and superstructure, on all types of this means of transport, from high-speed trains, metro lines and trams, including the maintenance and renovation of existing lines and the construction of new stations.

> The project configures future schemes for the operation of the local railway network around Barcelona and its metropolitan area

A great gardening team at the head of the Pradolongo and Plata y Castañar parks in Madrid



Pradolongo Park working group with John Freddy Rendon, Service Manager and Julia Arroyo, Employment Support Technician.

Pradolongo Park is the main green lung of the District of Usera and one of the most representative parks in Madrid with a surface area of 60 hectares, one of the five largest in the capital. This large green area is home to tree species such as the Siberian elm, pines, sopores, robinias, celtis and fraxinus.

This forest area was built in the early 1980s, and its design is structured around three large axes that converge in the central area and lead to a 30,000 m^2 lake. It also has a botanical path that crosses the entire park with a length of 2.5 kilometres, a small botanical garden made up of exotic and representative species of Madrid's gardening, an interpretation centre for exhibitions, environmental activities and musical concerts held in the old ruins of the recently renovated Maris Stella Church. The park is also a strategic point in the celebration of the district's festivities in June, which attract thousands of people.

Luis, Alfonso, Paco, Agustín and Álvaro work in the park. All of them expressed their satisfaction with the opportunity FCC has offered them, a job that has made it easier for them to integrate into the workplace. With this type of action, the company supports the importance of naturalising and normalising the work of people with disabilities; the triumph belongs to all of us.

In addition, we also had the opportunity to meet Nelly, Pablo, Antonio and Diego, another group of workers who were giving a training class, but in the Parque de Plata y Castañar, in the district of Villaverde, Madrid.



Luis, Alfonso and Paco, gardeners at Pradolongo Park.

22 years in the Pradolongo Park

FCC Medio Ambiente has been present in this park for more than 20 years. The first contract was awarded in 2001 and since then, the contract has been renewed; the last one in 2021 for four years and a possible extension of one more year. A total of 18 people from FCC Medio Ambiente work in these gardens, 11 of whom belong to the project for the integration of disabled people in the workplace.

The selection process through FCC Equal has two fundamental steps: analysis of the job position of the candidates. CVs are received through three channels: publication of job offers on the job portal, through the city council or through collaboration with foundations. Afterwards, the job position is studied in order to carry out a selection process of the candidates and see if they need any kind of adaptation, which is managed by the Special Employment Centre's Support Unit.

FCC Medio Ambiente also collaborates with the training programmes of different foundations, offering them the opportunity to carry out the internships for their training courses at FCC. In this case, the internships last as long as the programme stipulates, giving them the opportunity to become part of the workforce once they have finished. If they access through a job offer, the first weeks the support team is in charge of training the workers in situ in both work and personal skills for their adaptation to the job.

Normally, the workers receive regular and constant training courses adapted by the technical staff in charge of occupational risk prevention and the person in charge at a technical level, depending on the tasks they are going to carry out. The aim of this training is to ensure that the workers feel comfortable and develop the necessary confidence to use the different work tools.



Álvaro, the youngest gardener at Pradolongo Park, with Sandra García, Service Manager.

Example of work integration

Parks are places that offer us tranquillity and harmony, but behind these green landscapes, there are people who are in charge of keeping them in good condition. The boys and girls of FCC Equal carry out the gardening work that Pradolongo Park needs on a daily basis to maintain its facilities.

Depending on the state of the gardens, the workers carry out different tasks such as mowing, weeding, trimming the lawns, cleaning, digging, weeding, planting, pruning and watering.



Agustín, who is very motivated by the gardening work.

During the visit we heard some of their stories, challenges and achievements, and how their work contributes to the wellbeing of the community and the environment.

Luis, Alfonso and Paco were excited to tell us how important it is for them to do their work, to be responsible and above all to be consistent. They recognised that the opportunity FCC has given them to work had never been offered to them in any other company. In addition, Luis told us excitedly: “For me it is a luxury to work in this company”.

Agustín is a gardening enthusiast. When asked what he liked most about his job at FCC, he replied: “This job is my life, I love gardening and this park gives me a living”.

He also told us how, throughout his life, he has learned to work and deal with people, to which he added this reflection: “The main thing in a job is always the human relationship and motivation is also fundamental, I like what I do”.

Álvaro is the youngest member of this working group, a lover of history and also a gardening enthusiast like his colleague Agustín.

As could not be otherwise, the activity he likes to do most is planting. Then, he told us that the park of Pradolongo was formerly a rubbish dump.

Plata y Castañar Park

We also had the opportunity to talk to another group of boys and girls from FCC Equal CEE who work in the Plata y Castañar park in Madrid, and we were able to see how they received a training class that day. Diego and Pablo, the youngest members of this group, were excited to tell us that the team has a very welcoming atmosphere, and there is also a lot of motivation. On the other hand, Nelly, one of the girls in the group, smiled and made a positive hand signal when we asked her about the relationship with the rest of her colleagues.



They are Nelly, Diego, Pablo, Víctor and Antonio, the working group of the Parque Plata y Castañar, Madrid.

These boys and girls not only carry out social and environmental work, but also demonstrate their ability, their talent and their passion for their work and for nature. These people are an example of self-improvement, integration and contribution to society, who deserve the recognition and support of all. Their work not only helps to maintain the park, but also improves their quality of life and self-esteem.

FCC Equal Special Employment Centre

FCC Medio Ambiente has one of the most outstanding projects in the field of employment integration of people with disabilities called FCC Equal Special Employment Centre (CEE). FCC Equal currently employs more than 600 people with disabilities throughout Spain. It is dedicated to the full management and execution of Special Employment Centres (CEE) and the provision of auxiliary services for people with disabilities. In addition to the group's own internal work, FCC supports and works with specialised entities, organisations and foundations, whose social purpose is the social and labour integration of people with disabilities, as well as the improvement of their health and safety conditions. In this way, it not only seeks to offer job opportunities to people with disabilities, but also to provide them with skills, abilities and competencies for their professional development in the company.







Training class at the Parque de Plata y Castañar, Madrid.

INTERVIEW

Andrea Rodríguez

Engineering Manager at FCC Environmental Services



Tell us briefly about your career path

I studied Chemical Engineering and a master's degree in Industrial Administration. When I finished my degree and my internship, I started working at Infinita Renovables as a commercial engineer. Shortly afterwards, looking for a more technical job, I joined FCC Environmental, a subsidiary of FCC together at that time, as a Project Engineer in the United States. At this stage of my professional career I participated in several oil and industrial waste treatment projects. Later, when the company decided to launch the MSW (Municipal Solid Waste) collection and treatment business, I started working on the design and construction of waste treatment facilities.

Over the past few years, I have been involved in the design, construction and also the operation of FCC's two recycling plants in Texas and the environmental complex in California. This has allowed me to learn a great deal so that I can lead new construction projects for these types of facilities in the United States.

What kind of responsibilities do you assume in your position?

As the person in charge of the design and construction of the recycling plants, my responsibilities include planning, directing and coordinating the construction of FCC's recycling facilities in the United States. The big challenge is to always meet the schedule that is proposed to the client, making sure that the work is carried out with all safety procedures and within budget.



Equipment at the Houston plant in Texas (USA).

How did you get to your current position and what were the biggest challenges along the way?

FCC Environmental Services was very small when it was founded in 2014. I have been fortunate to work hand in hand with a great group of professionals who have taught me a lot and have always helped me in my career path. Initially, we were a very small team of people in the United States and it took a lot of hard work and effort from all of us to get the business off the ground.

One of the biggest challenges has been to make ourselves known in this country as one of the world's leading environmental services companies. FCC, a few years ago, was an unknown company in the sector in the US. It has been a very enriching job to convince all the authorities and city councils that FCC has the knowledge and resources to offer an excellent service in both collection and treatment.

What is your leadership philosophy and how is it reflected in your daily work?

For me, I try to create a positive environment to encourage and motivate the teams I work with at all times. I like to encourage open communication between all team members to discuss innovative ideas that can help improve the effectiveness, efficiency and budget of recycling plant designs. To this end, I usually have short meetings of about 10-15 minutes with my team so that they can tell me their ideas or whatever they think is appropriate.

What professional profiles are you responsible for?

As direct employees of FCC, most of them are profiles with technical experience in the industry, in the installation and repair of recycling equipment. On a day-to-day basis, as leader of design and construction projects, I manage teams of engineers subcontracted to other companies, installers and building contractors.

Are there many positions held by women? How many?

Despite the fact that there is very little female profile in this industry in the US, at FCC Environmental Services, a large number of positions of all ranks are held by women. From management positions, to tippers, to administrative, sales, mechanics, drivers, etc. I have always liked the way the company promotes both men and women equally.

What is your day-to-day life like?

Very entertaining. No two days are the same. Normally, the first thing I usually do is go to see the construction and installation of equipment. I talk to the managers and they tell me what they are going to do on the day and we have a small meeting to make sure they are working in compliance with all the safety and risk procedures.

Then I usually have several follow-up project meetings, visits with the relevant authorities to get building permits, checking machinery, adjusting the budget etc.

Can you tell us something interesting about your work?

One of the things I like most about my job is the opportunity to implement new technologies in our plants. The different recycling technology companies in the U.S. are very dispersed nationally, so when we evaluate a new technology, I have the opportunity to travel around the country and see other areas, which is huge.

What areas of the US do you serve?

Currently, we have a presence in Florida, Texas, Nebraska, Ohio and California. The idea is to continue to expand the business wherever good opportunities present themselves.



Andrea Rodríguez, Engineering Manager at FCC Environmental Services, with two colleagues.



On the right, Andrea, with part of the Environmental Services team.

INTERVIEW

Ana María Sánchez

Technical Industrial Engineer, working in the world of engineering and projects for 17 years

I started my professional career in local installation companies, in the studies department. After spending a few years in this field, I had the opportunity to join the project team of the “Málaga Metro Installations” project, as part of FCC Industrial, in 2011 and it has been one of the most enriching experiences of my life.

Within this project, I worked in different departments, from the technical office and production support, until I became head of the maintenance service, once the project was inaugurated in 2014.

In 2019, after FCC Industrial completed its services in Metro de Málaga, I went on to manage the integral maintenance of the buildings belonging to the INSS (National Institute of Social Security) and the TGSS (General Treasury of Social Security) in the province of Málaga.

Currently, I have just started as site manager on another very interesting project, the aim of which is to bring five tunnels in the province of Malaga up to standard, covering electromechanical installations, civil works and communications.



Why did you decide to pursue a career in engineering?

The truth is that I have always been a scientist; I like numbers, physics, chemistry and drawing and, above all, I like real things, problems and solutions that may initially be ideas, but that in the end become tangible projects that can make life easier and better for all of us; in short, a results-oriented way of working.

Do you want to send a message to all women who are studying engineering?

I would tell them not to look at their surroundings, not to be bothered by the feeling of being in the minority, but to let themselves be carried away by their desire to learn and get to know this world and they will be capable of anything they set their minds to.

I also encourage women to study technical careers, we have a lot to contribute to the sector. I think that by finding a balance between men and women, in which each brings their natural skills, we will be closer to achieving real equality.

Can you tell us what your day-to-day life is like? What is the most difficult thing to manage?

Well, my day-to-day life is non-stop, although I suppose it is like that of all my colleagues in the profession. In the morning, before I leave the house, I take part in organising my family and then I start with work and continue organising... this time at work.

As a mother of two young children, I try to plan as best I can to get as many tasks done as possible, both personal and professional. Anyway, I have to say that I don't believe in the concept of "superwoman", I am lucky to have a husband and a family in which we are a team, we all support each other and that allows us to move towards our goals.

On the other hand, in terms of working hours, for some time now I have had a reduced working day that allows me to get home a little earlier, so I can get more involved in the education and development of my children, now that they are still young.

What is your role as site manager in the projects you have developed?

My role is to achieve the results and meet the objectives of the project, achieving the satisfaction of the client and of course of my company, as well as serving as a link between the client of the work/maintenance and my production colleagues; supervising the purchasing and planning of the work, dealing with suppliers, economic and technical control of the work; in short, resolving the challenges of a project and taking the necessary steps to achieve the best technical and economic results.

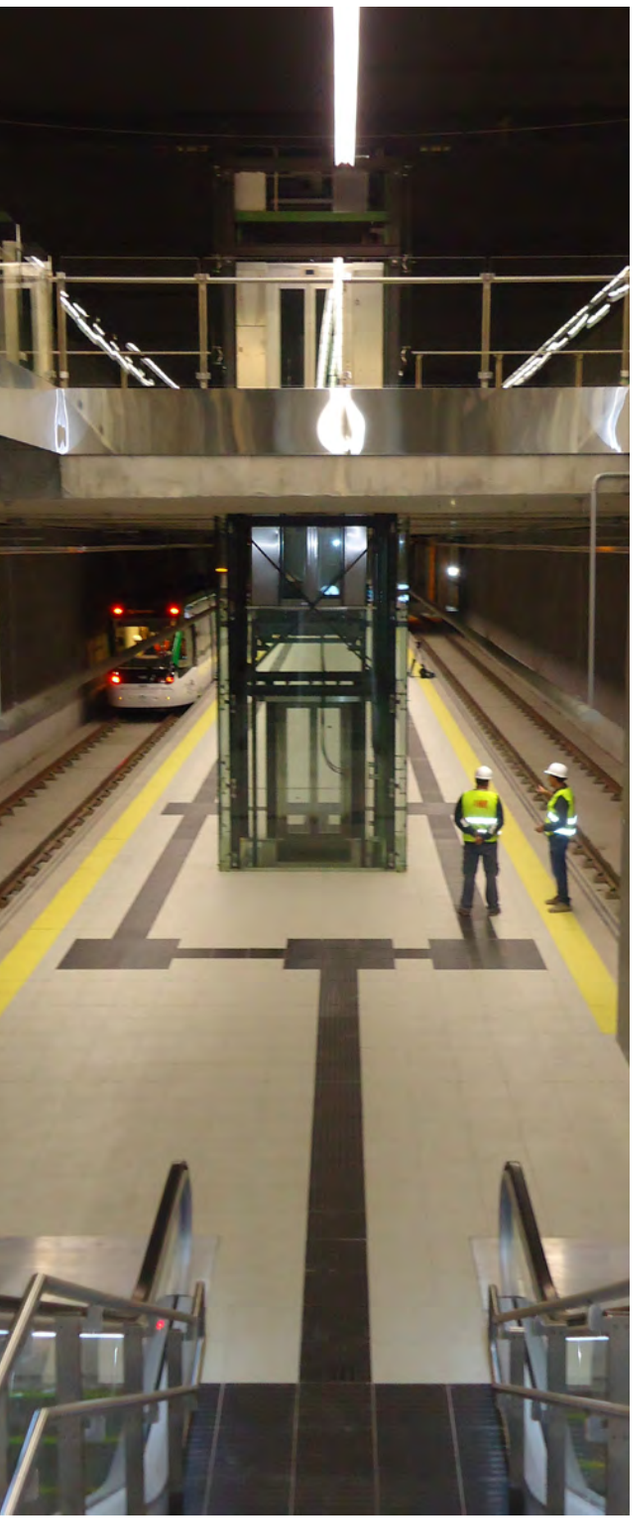
As a project manager, do you think that women have a different way of managing and leading projects?

In my opinion, if there is one thing that can characterise us, even if it sounds a bit cliché, I think it could be organisation. I think that, by nature, women have a very good organisational capacity.

On the other hand, as a general rule, we also stand out as mediators and perhaps we have that "left hand" that



Ana María Sánchez is a member of the works team for the "Málaga Metro installations" project.



Malaga Metro installations

is often needed, especially when there are projects in which many people participate, with very diverse opinions.

As a woman, what is the biggest difficulty you have faced in your working life?

Perhaps some insecurity, perhaps because we often demand too much of ourselves in order to feel more confident and capable of the position we are leading, in a mostly male environment.

What are the biggest challenges you have had to face in the projects you have led?

One of my biggest challenges has been learning to manage and carry out tasks of a very diverse nature. In the end, you adapt to the job or type of work assigned to you at any given moment; at each stage you learn new things, but there are also new problems that need to be solved. Peer support is very important in these cases and I have been fortunate to have a great team of people around me.

The engineering sector has undergone a great evolution in recent years. What changes do you think are the most significant?

In relation to the general evolution of the engineering sector, we are moving towards where the revolution of new technologies is taking us. Little by little we are becoming more and more digitalised, using the new tools that are being presented to us to facilitate and simplify in some way all the steps involved in executing a project. An example of this is the speed with which the BIM methodology is being implemented in many of our projects, making us a pioneering company in innovation within the sector.

The engineering of the future begins by adapting to new technologies and integrating them into our working methods. Although it is often not easy for us, I think that this should be the objective, we have to be aware that those who do not evolve, do not advance...

With regard to the incorporation of women in the sector, I think that we have evolved quite a lot, there are no longer so few women in engineering and I hope that there will be many more... I think that the mentality is changing, although we still have a long way to go.

More and more, we are becoming part of the work teams like any other member, without any issues outside the work environment, and this is noticeable in the daily dealings between colleagues.



Wales UK

The 14 best photos already have winners

#FCCCOprojects 2022

Projects in the **construction area** of the FCC Group



Line 2 and 4 Lima Metro. Peru

FCC Construcción



Kevin Muñoz
Guillermo Gaviria Echeverri Tunnel Colombia.



Francisco Fernández
ST ICE ORIOL. Substation in Caceres Spain.



Rodrigo Guerrero
"Puente Industrial". Chile.



Andreea Tecșa
Pan-European Railway Corridor IV Lot 3 Gurasada -Simeria. Romania.



Pedro A. Córdoba
Pan-European Rail Corridor Project IV. Section 2B Barzava – Ilteu . Romania



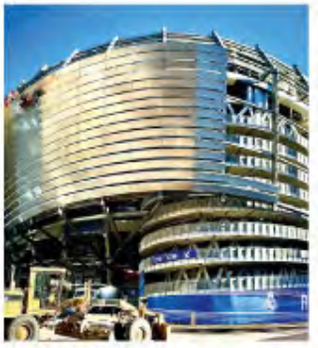
María Méndez
New Puertollano Hospital. Ciudad Real Spain.



Sakthiraj Gunasekaran
Line 6 Riyadh Metro. Saudi Arabia.



Jose Rafael Camacho
Expansion Metrolinx rail network in Toronto. Union Station. Canada.



Javier González
Santiago Bernabeu Stadium Remodeling Spain.



Prefabricados Delta
Prefabricados Delta Factory, Puente Genil Cordoba. Spain



António Dâmaso
Modernization of the Mira Sintra- Meleças - Torres Vedras railway section. West Line Portugal.



Daniela González
Access to La Segrera station. Segrera - Trinidad section. Barcelona. Spain.

INTERVIEW

Carla Morais

Quality Manager for the Northern Cluster contract in Saudi Arabia

The Northern Saudi Arabia Cluster contract, led by Aqualia (51%) and also involving the Saudi service companies Tawzea (39%) and HAACO (10%), is responsible for the operation and maintenance of the complete water cycle in the Saudi regions of Qassim, Hail, Al-Jouf and Northern Border in northern Arabia, a territory with a population of more than three million people in an area equivalent to three quarters of Spain (380,000 km^2).

Carla is in charge of ensuring that the complex management machinery of a service like this, so extensive in territory and so labour-intensive, meets the company's highest quality standards. Her work is essential for putting together the pieces of a contract that includes the management of, among other assets, 92 water treatment plants, 657 reservoirs, 664 catchment wells, 150 drinking water pumping stations, 67 tank filling stations, 18,000 kilometres of main pipelines, 14 wastewater treatment plants and 7,000 kilometres of sewerage networks.

Tell us a bit more about your work experience. How long have you been with the company? How long have you been in this service? What has been your career path?

I have been working for Aqualia since January 2023. I decided to join this Northern Cluster project in Saudi Arabia after 20 years working for the same company in Portugal. During this period I have worked in water supply, sanitation, water safety plans, water and sewerage laboratories and risk management. I also supported my colleagues in the field when there was a contingency related to water supply or sanitation, helping them to find the best technical solution.

Could you tell us a bit more about the work you do? What is your day-to-day life like?

My work is related to water supply, sewerage and risk management. I am usually very busy and have a lot of things to do. Sometimes in the office, sometimes in the lab, sometimes in the field - I never get bored!

What technological challenges have you encountered in Arabia? And in terms of team management, how does the local spirit and philosophy influence the way you work? What has the cultural immersion in Arabia been like?

The Kingdom of Saudi Arabia has state-of-the-art technology in its water and sewerage activities, but the difference in management is enormous. The culture is different and adaptation is necessary, as in all international jobs. In the Middle East there are cultural differences, especially for women, and we have to adapt, you know: "In Rome, behave like a Roman". Saudi Arabia is now opening up to the world and people are very friendly and welcoming, especially in the north, you just have to respect their culture.

The ultimate aim of the Kingdom of Saudi Arabia's government cluster programme is to encourage private sector participation in the country's water and sanitation management and to improve efficiency across the board. How do you see the consortium optimising the management and pursuing the social, environmental and economic sustainability of the entire water cycle in this vast northern region of Saudi Arabia?

Saudi Arabia already has a lot of technology. They just need a few experts in different areas to support them in taking action in their organisation. Aqualia will play a very important role in the Northern Cluster as the team is made up of senior professionals from the water supply, sanitation and environment sector.

How do you think the country is modernising with the progressive entry of women into the workplace? To what extent can the entry of companies such as Aqualia, which are committed to corporate change towards diversity, contribute to progress in the country's labour and social world?

The entry of women in Saudi Arabia's labour force has only just begun, especially for foreign workers. However, the rules for non-natives are starting to become less restrictive, mainly in terms of the type of clothing worn. There is a way to go, but it has already begun. And companies like Aqualia are and will be of great help in this development.

What would you say to other members of the Aqualia family who are considering a work project in this area? What can a country like Saudi Arabia, so different from Spain, contribute to professional and personal development?

Adaptarse a un país como este no es fácil, sobre todo para una mujer con una hija de cuatro años, como es mi caso. A pesar de ello, todo se puede hacer porque el país se está abriendo al turismo y adaptando algunas buenas prácticas de occidente. En cuanto a la seguridad, es un país muy seguro. Solo sigue las reglas y respeta la cultura local.



INTERVIEW

John Jackson

Communications Manager for the A465 project in Wales



What does work at FCC Construction mean to you?

For me it means being able to communicate the achievements of the team here in South Wales on what is the largest infrastructre project in Wales. At the same time, it means I benefit from being part of one of the largest construction companies in the world and seeing FCC's commitment to sustainability and the ways in which we are embracing new technology makes me proud to be a part of FCC Construction.

What would you highlight about your work as communications director of the A465 project in Wales (United Kingdom)?

We have fully embraced social media as a way of communicating effectively with the communities we are working in. Our project is challenging as we are constructing a new 17.7km dual carriageway in the same location as the existing road, in what are often densely populated areas. So, we need to ensure that the local communities are kept fully informed of our work, and particularly any planned road closures. It's also important to show the progress we are making on the Project.

In August 2021 we set-up our Facebook page and in just 26 months we have attracted over 10,000 followers. This has been achieved through organic growth and based on a strategy of providing high quality content that is timely and of interest. The page continues to grow in popularity and is proving to be a powerful communication tool. Personally, it's always rewarding to post the latest progress video and photographs as they showcase the exceptional achievements being made by the team.

What is the company's relationship with local communities?

Our community benefits team, including two public liaison officers, is dedicated to working with the communities we are building the road in. This includes having a visitor centre, running drop-in sessions and public meetings. These contact points give members of the public the opportunity to find out more about our work and have their questions answered. We answer messages daily and have supported over 50 local community groups through our Community Benefits Programme. We also deliver the A465 Schools Engagement Programme that has seen us provide over 18,000 hours of engagement activity since 2021.

We always aim to be as supportive as possible for the local communities and this has resulted in us benefitting from a positive and respectful relationship.

What are the most important aspects that a communication manager should have in a project or in a construction company?

With all communications I believe the most important starting point is to understand who your audience is. As we are building in long established communities, our communications strategy needed to focus on providing information that would be of local relevance. Of course, we also tailor our communications to other audiences, for example we prepare a newsletter for our staff each month and we produce another newsletter four times a year for an external audience. This allows us to deliver content that is of greatest relevance for each group.

Understanding that people are bombarded with messages every day is an important realisation because our content will always be competing with these other messages. To help our messages stand out we make good use of graphics, photographic and video content to capture attention. This improves the chances of our messages being read, which is of course the goal.

Listening is a critically important aspect of communications, and by listening to our audiences we develop and adapt our messaging to ensure it is highly relevant.

What is the relationship with the local media?

In this project our client is responsible for the relationship with the local media, and when needed we support them with information.

What do you do in your free time? what are your hobbies?

A coffee shop nearly always features in my free time, as it's the perfect place to meet up with family and friends. I enjoy spending some of my free time indulging in my passion for Brutalism, be it online, in books or even better by physically going to see Brutalist buildings and structures. I appreciate this is a niche hobby, but since childhood I've been fascinated by architecture and with Brutalism the visionary thinking behind many of the buildings adds to their appeal as they were borne of time when people wanted to find new ways of living. I am a board member for a housing association here in Wales, and this is a responsibly I take pride in as the association works to build quality homes and rent them affordably to people in housing need.

I have also started to write a book. This is the first time I've attempted to write one and I'm sure it will keep me busy during the long dark winter evenings. I'm aiming to complete it by spring 2024. I'm not going to explain anything about the book until I've finished writing it. At this stage I really don't know what will happen to it, but if I enjoy the process of writing it, I will be happy with the achievement.

How would you define the company you work for?

The company I work for understands that the world we live in today is rapidly changing, and to meet these changes we are embracing technology to build for a very different tomorrow. This is a tomorrow where sustainability will be at the core of everything we do. Being part of a company that is truly committed to deliver projects that support our future is something I believe everyone at FCC Construction can be proud to be a part of.



A465 extension

FCC is part of the Future Valleys consortium which includes Meridiam, an international investment fund, together with the Irish company Roadbridge and the Welsh company Alun Griffiths. The project is worth 653 million euros and has a term that runs until May 2025.

The project, developed under the PPP model, consists of the widening of the A465 dual carriageway on sections 5 and 6, which have a length of 17.3 kilometres and are located between the towns of Dowlais Top, Merthyr Tydfil and Hirwaun. At present, these sections of the dual carriageway have a single carriageway and heavy traffic.

The award of the project, which will complete the dualling of the A465, is important for the improvement of mobility and connectivity in Wales, as well as for the revitalisation of the local economy.



Family photo after the end of the event at the Corporate Headquarters in Las Tablas, Madrid.

FCC commemorates **International Day for the for the Elimination of Violence** against Women together with the **Security Forces**

FCC supports the International Day for the Elimination of Violence against Women, which is celebrated every year on 25 November. The Group is making an appeal within the company to recall its principles and report on its commitment and vision: zero tolerance of gender violence and promotion of the social and professional integration of women who are victims of this scourge.

The company held an event at FCC's corporate headquarters in Las Tablas, Madrid, in the format of a round table moderated by journalist Helena Resano. The event focused on the importance of the role played by the units of the Security Forces and Corps that deal with women who are victims of gender-based violence. The event was opened by Isidoro Valverde, manager of Labour Relations and Diversity in the FCC Group's Corporate Human Resources Department.

National Police Family and Women's Care Units (UFAM)

On behalf of the National Police, we had the presence of María Elena Palacios Tejero, inspector in charge of the Family and Women's Services Unit (UFAM), accompanied by the chief inspector, María Cristina Marí García, head of the Central Family and Women's Services Unit (UFAM) of the General Commissariat of the Judicial Police. Palacios Tejero



expressed her concern about the relationship between gender violence and the use of social networks “it is essential to make the victim aware so that she takes the step and reports it, although sometimes she cannot and the rest of us do it. In addition, Elena’s message “we want brave women and a committed society” should be highlighted in her speech.

Judicial Police Unit of the Madrid Command of the Guardia Civil, Women-Minors Team (EMUME)

Representing the Guardia Civil was Antonio José Fernández Prieto, sergeant and head of the Women-Minors Team (EMUME) of the Judicial Police Organic Unit (UOPJ) of the Madrid Command. Sergeant Fernández Prieto explained what the VioGen system is: “The VioGen system is a computer application where the complaint is collected and then an evaluation is carried out to see the level of risk that the victim has of suffering another aggression. It is a much more direct system.

Madrid Municipal Police’s 24-hour Service for Women Victims of Gender Violence (SAVG)

Finally, on behalf of the Municipal Police of Madrid, Marta Fernández Ulloa, Chief Commissioner of the Main Station of the Judicial Police of the Service of Attention to Women Victims of Gender Violence (SAVG 24 hours), accompanied by Ana Fernández Izquierdo, Director General of Equality and against Gender Violence, whose Directorate is responsible for the SAVG 24 hours, attended the event. Both women, who are specialised in the subject and available 24 hours a day, commented that it is important to accompany the victim throughout the process of gender violence, they have to let the victim know that they are not alone. Marta Fernández commented that “the role of companies and the organisation of events such as these is fundamental for the eradication of gender violence”.

The event closed with the presentation of awards to the units of the Security Forces and Corps to thank them for their work, involvement and care for women victims of gender violence. The Business Director of the Real Estate Area, Ana Hernández, accompanied by Filomeno Ortiz Aspe, Director of Administration and Finance of the Real Estate Area, was in charge of presenting these awards to the Security Forces and Corps units, emphasising in her speech that “for us it is essential to publicise your units specialising in the prevention and investigation of offences and criminal offences related to gender, domestic and sexual violence and against minors, always providing them with specialised, immediate attention adapted to the type of offence and its circumstances”.

VIDEO

Commemorative event at FCC's Corporate Headquarters in Barcelona to support the **International Day for the Elimination of Violence against Women**



Presentation of the award to the Mossos d'Esquadra's Central Unit for Victim Support and Monitoring.

FCC supports the International Day for the Elimination of Violence against Women, which is held every year on 25 November. The Group is making an appeal within the company to recall its principles and report on its commitment and vision: zero tolerance of gender violence and promotion of the social and professional integration of women who are victims of this scourge.

At FCC Balmes Corporate Headquarters in Barcelona, the company held a commemorative event that focused on the police organisation and the role played by the Mossos d'Esquadra unit in cases of female victims of gender violence. The event was opened by Sonia Batanero, legal labour adviser in the FCC Group's Corporate Human Resources area, who stressed that "it is essential that we all work together, companies and law enforcement agencies, to create a strong, resilient network of support for all victims".

Also speaking for the Mossos d'Esquadra was Andrea García González, head of the Central Unit for Victim Support and Follow-up, who thanked the Mossos d'Esquadra for holding this kind of event: "This day is a way of making visible how the Mossos d'Esquadra unit works and the role we play in gender violence".

The event closed with the presentation of an award to this service unit in appreciation of its work, involvement and care for women victims of gender-based violence, and a family photo.

VIDEO



en igualdad

Junt@s por la erradicación de la Violencia de Género

Día Internacional de la Eliminación
de la Violencia contra la Mujer

25N

A TU LADO

Ante la violencia de género, **tolerancia cero**

En FCC Medio Ambiente luchamos contra
la violencia de género 365 días al año



FCC Medio Ambiente

Frente a la violencia de género

Gotas de solidaridad

Actúa para ayudar a sus víctimas



Participa subiendo tu foto a:

aqualiacontigo.com

#aqualiaContigo

5 IGUALDAD DE GÉNERO

ODS alineado
con esta iniciativa



25N Día Internacional de la Eliminación de la Violencia contra la Mujer

FCC Construcción

FCC holds its first **Inclusive Leadership Day**

FCC has held an Inclusive Leadership Conference for the management team in Spain to foster a diverse culture and highlight the importance of inclusive leadership in the FCC Group, insofar as it is both a matter of meeting FCC's commitments and purpose and a necessity for the company's success and sustainability.

The event was opened by the CEO of the FCC Group, Pablo Colio Abril, who thanked the attendees for attending the event and emphasised that "you play a fundamental role in spreading a diverse culture, in establishing a safe environment for the people who make up our teams and in developing an inclusive leadership style that welcomes all differences and uses them with conviction to always obtain the best for our company and for society".

In addition, Pablo Colio encouraged all the people to continue working on inclusion and diversity from their position as guides of their teams and that their example allows us to continue to move forward to remain a leading Group and a model in these issues. And this with the understanding that "inclusive leadership is fundamental for the success and sustainability of organisations".



Pablo Colio Abril, CEO of the FCC Group, during the opening of the event.

Miguel Castro, SAP's Global Director of Diversity and Inclusion and co-founder and first president of REDI (Business Network for LGTBI Diversity and Inclusion), of which he is currently an honorary member, was a speaker at the conference. Miguel, an expert in diversity and inclusion in the business world, addressed various issues related to inclusive leadership such as equal opportunities, respect and valuing differences, attracting talent, biases, innovation and the evolution of team performance in environments that favour diversity and inclusion.

During his presentation he highlighted the importance of "being an inclusive company, having a motivated, committed workforce that gives its best and contributes to the success of the business and attracts talent".



Miguel Castro, Global Head of Diversity and Inclusion at SAP and co-founder and first president of REDI (Business Network for LGBTI Diversity and Inclusion) during his speech.

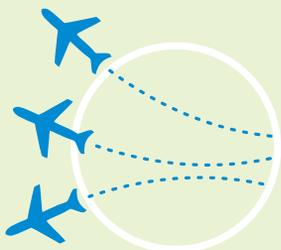
How to contribute to being more responsible every day to build a **better world**



Although sustainability needs a joint response, every individual effort helps to build a better future. By changing a few habits in our daily lives, we reduce our carbon footprint and contribute to reducing the planet's global emissions.



Buildings generate almost a third of global CO_2 emissions. That is why good insulation in our homes and energy-efficient appliances, together with small actions such as unplugging equipment when not in use or turning down the heating by one degree, considerably reduce our carbon footprint.



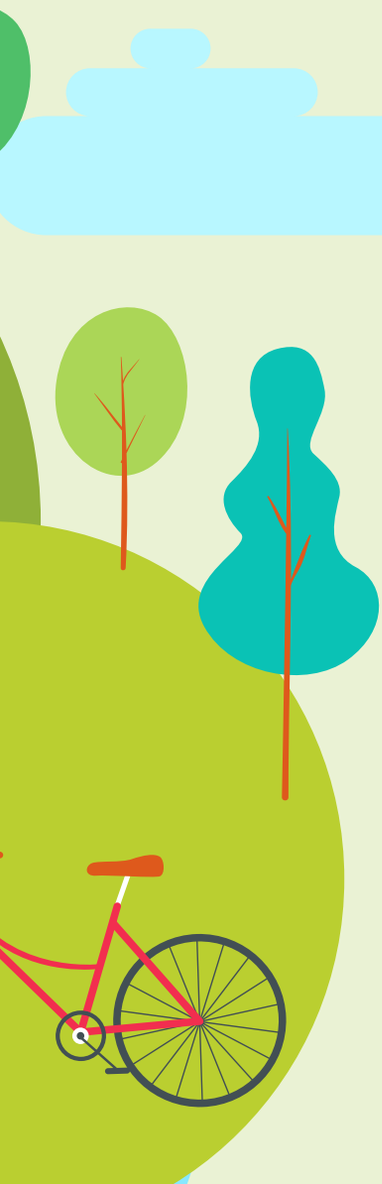
Planes, along with cars, are the most polluting means of transport, so whenever possible use public transport, cycle or walk, and if you can, switch to electric or hybrid cars. And for long journeys, whenever possible, use the train. This will reduce your carbon footprint by up to 90% on your commute.



It takes 2,400 litres of water to make a hamburger, but every day you don't eat meat you reduce your carbon footprint by up to 3.6 kg of CO_2 emissions per day - the equivalent of driving 26 kilometres. It is also essential not to waste food and to segregate waste so that it can be properly managed.



The fast fashion industry is responsible for almost 10% of global greenhouse gas emissions. In the production of one pair of jeans, for example, 13 kg of CO_2 are generated and 7,500 litres of water are consumed. That's why it's important to buy less, and when you do, to buy from eco-friendly companies.



But, in addition to your responsibility at home, during your working day, the water you drink, the electricity you use and the waste you generate form part of your company's environmental footprint. You can contribute to reducing it with simple gestures such as recycling in the corresponding container, using a glass bottle for water, travelling by public transport, or switching off the computer at the end of the day.

Acting responsibly, helping to build a strong corporate culture, and protecting the interests of all our stakeholders is the best way to contribute to making our company more sustainable every day.

FCC Environment UK honoured at the Zero Waste Awards

FCC Environment UK has received three major awards at the tenth annual Zero Waste Awards, a classic UK event organised by recycling and waste management specialist Letsrecycle as part of the Resource & Waste Management Expo (RWM) in Birmingham, United Kingdom.

The Zero Waste Awards are presented annually to promote and recognise initiatives undertaken by companies in the sector to minimise, reduce and prevent the generation of waste.

FCC Environment received a first award for its innovative Reuse Centre at Swanton Road in Norwich. Over the past nine months, the centre, in partnership with the Benjamin Foundation, a charity that provides social and economic support to children, young people and families in Norfolk and Suffolk, has generated £195,000 of social value (nearly 226,150 euros) and repaired and reintroduced 157 fridges to the market, an unprecedented success in giving a new life to items that would otherwise be discarded.

The second award was received for the company's global focus on Repair and Reuse processes, which are essential to avoid emissions and reduce energy and resource consumption by extending the life of products and avoiding the manufacture of new ones. With facilities such as 'Repair Cafes' and permanent and temporary reuse shops, and initiatives put in place to meet local needs, in 2022, these premises turned over £2.36 million (€2.74 million), avoiding 2,514 tonnes of waste, an increase of over 38.8% in revenue and 809 tonnes of items reused, over 47% compared to 2021.

The third award went to the bag sorting project in partnership with Hull and East Yorkshire Councils. For local authorities, which already achieve good recycling rates (77%), identifying and introducing new recycling initiatives at recycling points is a challenge. Thanks to this project, an additional 736 tonnes of waste was diverted into recyclable streams in 2022, equivalent to the weight of four Boeing 747 Jumbo jets.





Cementos Portland Valderrivas explains its business **purpose through cement vats**

The purpose of the Cementos Portland Valderrivas Group is to promote sustainable progress, and this objective will only be achieved if everyone in the group strives to achieve it. Sustainability is not something that can be achieved by just a few people, it requires the effort, commitment and conviction of everyone. The Group will be sustainable if sustainability is accepted as a philosophy of life.

Since the beginning of this year, Cementos Portland Valderrivas has been working to ensure that the development of this sustainable business culture, focused on achieving a common purpose, reaches every corner of the company.

One of the principles that is contributing most to the achievement of this objective is transparency, because being transparent is the beginning, and because it has an equal impact on all stakeholders. So far, it has been deployed internally among employees. Now is the time to move forward and transmit to customers, suppliers and the local environment of the factories where the Group is heading.

For sustainable progress

Cementos Portland Valderrivas has started this campaign by placing the message IMPULSAMOS EL PROGRESO SOSTENIBLE (WE PROMOTE SUSTAINABLE PROGRESS) on its cement vats, in order to spread this aim as far as possible and to reach the greatest possible number of people.

VIDEO

FCC Construction

2022 Sustainability Report Update

The company has published the update of the 2022 Sustainability Report, which shows the organisation's behaviour and performance in Environmental, Social and Governance (ESG) issues, aligned with the Sustainable Development Goals (SDGs) that are part of the United Nations 2030 Agenda.

This document is an update of the 2021-2022 Sustainability Report, which includes data for the 2022 financial year, in order to maintain the transparency that characterises the company with regard to the company's results in terms of sustainability.

Sustainability milestones achieved

- Preparation of the **FCC Construcción Sustainability Strategy 2023-2026**, approved by the Sustainability Committee, in addition to the publication of the **Climate Change Strategy 2023-2026** as part of the former's Climate Action line.
- Thanks to the application of Good Environmental Practices, in 2022 more than **3,000 tonnes of particles** were no longer emitted into the atmosphere.
- FCC Construcción improved its environmental performance in 2022, **reducing the consumption of materials and energy**, which is proof of its commitment to efficiency in the consumption of natural resources.
- **Reduction of its GHG emissions** by more than 10,000 tonnes.
- **Reuse of almost 400,000 m³ of water** from the site itself, increasing its value by more than 50% compared to 2021.
- FCC Construcción meets for the third consecutive year the management objective of **verifying the Greenhouse Gas emissions of 100%** of the countries in which the company operates.
- **Consolidation of HR policies**, as well as the incorporation of all the changes of the labour reform approved in 2022.
- **Implementation and continuous improvement** of training tools such as **"FCC Campus"**, which brings knowledge and training opportunities to the company's employees throughout the world.
- **Holding of the fifth edition of the International Programme for Young Talents**, with training aimed at promoting the development of recent graduates.
- **Presence of FCC Construcción in specific health and safety forums and business organisations** (FIEC, SEOPAN, AEC, INSTT, etc.).
- **2.5 million euros of investment in R&D&I**, 19% of which corresponds to issues related to sustainability and the environment.
- Elaboration of a BIM Implementation Plan 2022-2025.
- In the area of governance, in 2022 the Competition Policy was approved, new training was given on the **Code of Ethics and Conduct**, both nationally and internationally, and the risks of the **Criminal Compliance Model** were reassessed, among others.



Sustainability Report

2021-2022

UPDATE 2022*

Construcción

FCC receives **AENOR's Zero Waste certificate** for its **Las Tablas** Corporate Headquarters

The FCC Las Tablas Corporate Headquarters in Madrid has received the AENOR Zero Waste certificate, which recognizes the company's good performance in waste recovery at the corporate building, where 1,175 people work, and where the company has managed to reduce the percentage of waste going to landfills by 8.6%, compared to 24% last year.

FCC, in its commitment to sustainable development and respect for the environment, which promotes the efficient management of resources and the creation of healthy and accessible environments, has an Energy and Zero Waste Management System that provides the framework for establishing and reviewing environmental energy objectives and goals.



In order to achieve them, FCC assumes the following commitments:

- Comply with applicable legal or regulatory requirements and other requirements to which it subscribes, particularly those related to the environment and those related to energy efficiency and energy use and consumption.
- Ensure the availability of the information and resources necessary to achieve the objectives and goals of energy efficiency and waste prevention and reduction.
- Promote the procurement of energy-efficient services that minimize environmental impacts and design to improve environmental and energy performance.
- Involve users through the necessary training and awareness-raising actions to achieve efficient and responsible consumption and the recovery and reduction of waste generated.
- Promote the use of renewable energies and own or third-party surpluses.

Sustainable commitment

Continuing with our sustainable commitment and our desire to move towards the achievement of the SDGs and the circular economy, last year Las Tablas implemented the AENOR Zero Waste certification. Its entry into force means acquiring a commitment to recover more than 90% of the waste generated in this building, reducing the remaining section to landfill.





Manuel Guzmán De la Roza, president of the Sustainability, Environment and Blue Economy Commission of the Andalusian Parliament, during the presentation of the award to Lucas Díaz Gázquez, director of Aqualia in Andalusia, Extremadura and the Canary Islands.

Aqualia receives award from the Andalusian Regional Government for its contribution to the **circular economy**

Through the PAMA awards (Andalusia Environment Awards), the Andalusian Government highlights the efforts and commitment of Andalusian society in favour of the environment. In this way, it rewards companies, the scientific society, administrations, associations and foundations, as well as individuals, for their decisive role in promoting the 'Green Revolution' and the fight against climate change.

The award ceremony of the 27th edition was held at the Palacio de Congresos y Exposiciones de Córdoba and was presided over by the Minister of Sustainability, Environment and Blue Economy, Ramón Fernández-Pacheco Monterreal. The award was presented by Manuel Guzmán De la Roza, president of the Sustainability, Environment and Blue Economy Commission of the Andalusian Parliament, and the award was collected by Lucas Díaz Gázquez, Aqualia's director in Andalusia, Extremadura and the Canary Islands. The company received the award in the circular economy category for the Life Ulises project, which it is developing at the El Bobar wastewater treatment plant in Almeria.

Lucas Díaz emphasised that "this award encourages us to continue promoting initiatives that promote reuse and the circular economy applied to its maximum expression, converting wastewater into high-value products. At Aqualia, we are committed to this approach in the face of the critical water shortage scenario that we are experiencing, and an example of this is the platform focused on the regeneration of wastewater for agricultural uses (Hub REUSA) that we have created in the city of Almeria".

In this line, the company works for the development of innovative technologies and responsible solutions in the integral water cycle that promote sustainability, both from an environmental and social point of view, as well as from an economic one. Thus, the company is committed to changing the paradigm of wastewater treatment by converting waste (wastewater) into value-added products, while significantly reducing energy consumption and promoting the circular economy.

The LIFE Ulysses project

The main objective of Life Ulises is to revolutionise conventional wastewater treatment processes through a set of novel technologies to produce valuable resources such as biofuel for vehicles, agricultural biofertilisers and water suitable for reuse from wastewater. The aim is to develop the concept of a zero-discharge wastewater treatment plant.

The project aims to reduce energy consumption and the carbon footprint associated with wastewater treatment by increasing the efficiency of a conventional wastewater treatment plant (WWTP) through the integration of different technologies in each of its main phases (water, gas and sludge).

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Cementos Portland Valderrivas **Safety Campaign**

As part of the SAFETY IS NOT NEGOTIABLE campaign, the Cementos Portland Valderrivas Group has held the training corresponding to the third module in all its work centres in Spain, Tunisia and the United Kingdom, which aims to raise awareness of the risks involved in working in a confined space.

This campaign launched by the Health and Safety area of cement has a clear objective: to strengthen a preventive culture from the perspective of self-protection.

The latest training on confined spaces was held in September and consisted of a workshop led by safety experts where an awareness-raising video was shown, filmed in a confined space at the plant in El Alto, starring factory workers and directed by the Group's Communication area. As part of this campaign, a debate was also held where all participants shared possible improvements and the search for critical points focused on avoiding accidents.

FCC employees take part in the **14th Popular Heart Race**



For yet another year, the FCC Group has joined in the Popular Heart Race organised by the Spanish Heart Foundation and the Spanish Society of Cardiology to raise public awareness of the importance of practising sport to prevent cardiovascular diseases.

FCC joined in with more than 100 participants in the different categories, with members of its Running Club playing a prominent role in this popular race that transmits values of solidarity, companionship and sportsmanship to organisations. As on other occasions, the participation of FCC employees was a success, and they did not miss this important sporting event.

The aim of this race is to promote physical activity among the population, from the youngest to the oldest, and to enjoy a festive family day where sport is the protagonist, instilling the importance of acquiring healthy habits to improve people's physical condition.

With its VIVE Saludable project, FCC is firmly committed to initiatives that promote and encourage concern for people's health, focusing on physical activity, healthy eating habits and health care.

vive saludable

Enjoy a Healthy Christmas

Maintain an active lifestyle. Don't abandon your routines acquired during the year and don't stop moving and planning outdoor activities.

Conscious eating. Don't deprive yourself, but don't overdo it. Make fruit and/or vegetables the star of starters and first courses. Skipping meals with Christmas dinners in mind is not a good option.

Take care of hydration. Facilitate intestinal transit. And control alcohol consumption so that you don't lose control of yourself.

Rest is important. It helps you keep your body and mind at the same pace, which means you have more energy and the ability to enjoy yourself.

Enjoy your people. Find the time to surround yourself with family and friends and encourage positive emotions, the greatest generator of endorphins.

Act in a sustainable and responsible way. Be aware of what you buy or consume, thinking about the whys and wherefores and their consequences.

New resolutions. Set realistic goals and, in any case, avoid the feeling of guilt.

Give the gift of health. There are many options to help create healthy habits.

And remember that, to help you in all of this, you have access to our VIVE Saludable platform at your disposal.

Download for Android

Download for IOS

Donate blood to save lives



FCC, in collaboration with the Red Cross, runs a voluntary blood-donation campaign several times a year at the Federico Salmón and Las Tablas corporate headquarters in Madrid, giving employees the chance to donate blood without leaving the workplace.

On this occasion, we wanted to find out more about how the Red Cross Blood Donation team works at the collection centre on Calle Juan Montalvo in Madrid.

The highest health authority on blood donation is the Ministry of Health. However, to get a more detailed insight into the daily routine of the Red Cross Blood Collection Unit, we spoke to the organisation's team.

The daily routine of the Red Cross Blood Collection Unit is dynamic and varied, with more than 15 outings a day for 364 days a year, covering various locations in the Community of Madrid, from neighbourhoods, companies, universities and educational centres, shopping centres, towns and municipalities in the region. The blood donation room in Calle Juan Montalvo, in Madrid, is also open from Monday to Friday, from 9 am to 8:30 pm. Each day is imbued with joy and affection for the donors who choose to take the step and contribute to this valuable gesture: donating life.

Blood donation involves steps such as donor identification, a medical in-

terview with a questionnaire on health and habits, measurement of haemoglobin and blood pressure, and finally a venipuncture in the flexure of the elbow to extract 450 millilitres of blood and tubes for analysis. After the collection, and after a short rest and fluid intake, if the donor feels well, he/she can leave the collection point.

Donations can also be made in mobile units, and in some hospitals.

The donated blood is sent to the transfusion centre, where it is processed and analysed. The blood bag is centrifuged and separated into blood components, red cell concentrate, plasma and leucoplatelet layer, for storage. Simultaneously, tests are performed to confirm the suitability of the components.

The shelf life of blood under optimal conditions varies: red cell concentrate lasts 42 days at 4-6 degrees, plasma up to three years frozen, and platelet concentrate a maximum of seven days at room temperature.

There are significant differences between blood and plasma donation. While whole blood donation draws 450 millilitres of blood in about 6-7 minutes, which is then divided into its components, plasma donation is done by apheresis, drawing whole blood, processing it to collect only the plasma, and returning the rest to the donor. Although more time-consuming, this method allows a larger volume of plasma to be collected and allows for more frequent donations.

In conclusion, it never hurts to remember that blood is essential because it cannot be manufactured and is the only treatment for some serious or chronic diseases, as well as being essential in bone marrow and solid organ transplants.



Donor during blood collection.



Red Cross team from the Blood Collection Unit in Juan Montalvo Street, Madrid.

FCC Medio Ambiente **renews its commitment** to the city of **Valencia**

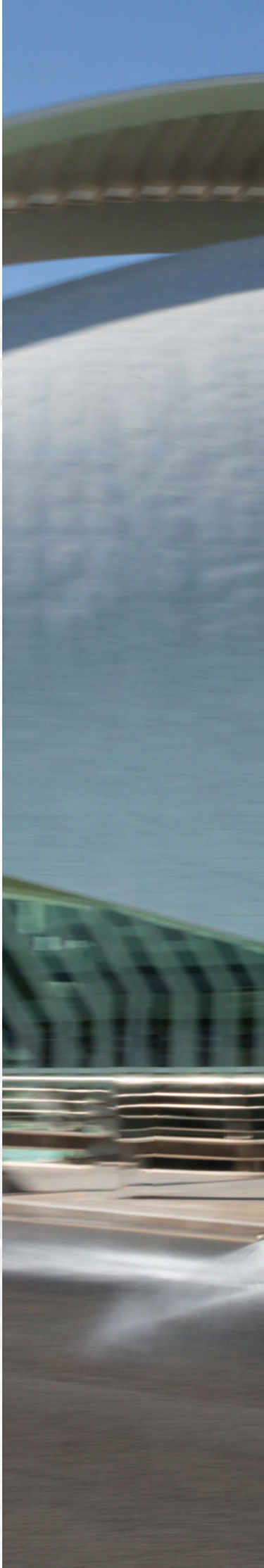
Valencia City Council has once again entrusted FCC Medio Ambiente with the street cleaning and urban waste collection and transport contract for Lot 2, which corresponds to the northern area of the city, for 525.89 million euro over a period of fifteen years. The company has been providing the service in the capital of the Turia since 1957, and since 1994 it has provided the northern sector, which includes the districts of Campanar, La Zaidia, Pla del Real, Camins del Grau, Algirós, Benimaclet, Rascanya, Benicalap, Poblats del Nord and de l'Oest, as well as the bridges along the old riverbed.

The progress in the new phase entrusted to FCC Medio Ambiente is both qualitative and quantitative: the contract has a larger staff of more than 550 people and almost 200 vehicles and machines in the fleet, thus reducing the emission of noise and polluting gases, in a major commitment to sustainability and as a sign of Valencia City Council's commitment to the fight against climate change and the reduction of the carbon footprint.

Selective collection

With regard to the collection service, in order to serve more than 365,000 inhabitants and collect around 140,000 tonnes of waste per year, numerous new features have been incorporated. Thus, the more than 2,000 container islands will have a container for each fraction and the new bicompartmentalised electric vehicles will allow to reinforce the simultaneous selective collection with the minimum environmental impact. The collection trucks will be equipped with an on-board system with cameras to report and validate the overflow of waste in the bins and to assess the degree of individual daily filling in each bin.

For the selective collection of organic matter, the installation of 1,600 sensors and locking systems and user identification equipment in the containers is planned, as well as filling buoy sensors for sampling on the residual waste routes. The methodology for estimating the filling level of containers for the rest fraction developed by FCC Medio Ambiente in conjunction with the Statistics and Operations Research Chair at the Polytechnic University of Valencia, which has enabled the locations and units to be optimised by up to 18%, is particularly noteworthy. The strategic planning contemplated in the new contract is expected to achieve the waste separation and recycling objectives set for 2030, which, together with the entire Zero and Eco fleet, aims to comply with the European Sustainability Agenda. With regard to the management of clean





> The new waste collection and street cleaning contract amounts to 525.89 million euros

Street cleaning service in Valencia.

points, two mobile eco-parks have been incorporated and a programmed service has been established at 24 points with a four-week cycle.

Street cleaning

For this service, which covers an area of 2.3 million square metres, the frequency of sweeping will be increased and cleaning tools designed by FCC Medio Ambiente will be introduced, such as the polypropylene fibre broom and the weighing-assisted trolley.

Parks and gardens maintenance

In September 2022, FCC Medio Ambiente renewed the parks and gardens maintenance contract for the northern area of Valencia, with a budget of 32.29 million euros for a period of four years. In this new stage, an Improvement Plan for landscaped areas and trees is being implemented based on the "PDCA" logic (Plan, Develop, Control and Act), which not only allows for a diagnosis to be made, establishing strong points and areas for improvement, but also associating concrete and specific actions to promote continuous improvement and plan future lines of action. FCC Medio Ambiente carries out management based on an individualised maintenance plan under criteria of sustainability, biodiversity and functionality, including efficient management of irrigation and fountains, reduction of emissions through the use of electrical machinery, reduction of the use of phytosanitary products and chemical fertilisers and an increase in the variety of tree species adapted to the climate and with low water requirements. Water footprint and carbon footprint monitoring is carried out, optimising the use of water resources, with irrigation audits carried out in collaboration with the Polytechnic University.

> "More than 200 vehicles and machines in the fleet will have ZERO and ECO environmental labels, thus reducing the emission of noise and polluting gases"



FCC Medio Ambiente street cleaning vehicle in Valencia.

It has a workforce of around 140 people and the entire fleet has an ECO or ZERO EMISSIONS environmental label.

There are also plans to gradually integrate personnel at risk of exclusion through FCC Equal, the Special Employment Centre for the social and occupational integration of people with disabilities promoted by FCC Medio Ambiente.

FCC Medio Ambiente will manage the service through the integral digital platform VISION, developed exclusively by the company, introducing new applications for control and optimisation of the work that make it possible to interact in real time with service incidents and requests from residents, all controlled from the new Monitoring Centre.

Valencia
European Green Capital
2024



Valencia will be the European Green Capital for 2024, as decided by the European Commission in October 2022. Since the official presentation of the project on 1 June 2021, FCC Medio Ambiente has unreservedly supported the candidacy. In the words of its general manager, Jordi Payet, the company is a pioneer in providing decarbonisation solutions and has been developing electric mobility technology for more than 50 years with the aim of reducing greenhouse gases: "We are marching together along the path of sustainability and environmental defence", as well as the gradual integration of staff at risk of exclusion through FCC Equal, the Special Employment Centre for the social and occupational integration of people with disabilities promoted by FCC Medio Ambiente.

100th anniversary of the construction of the **Vicálvaro cement factory in Madrid**



Aerial view of the old cement factory in Vicálvaro, Madrid. Photo courtesy of the Vicus Albus Association.

This year, 2023, marks the centenary of the construction of the Vicálvaro cement factory, where Cementos Portland Valderrivas manufactured and distributed its products for almost 80 years. In recognition of the contribution that the factory has made to the environment, the Vicus Albus Association has held an exhibition where a multitude of historical documents describing the factory's relationship with the town have been on display.

The president of the association, Valentín González, known as the 'mayor of Vicálvaro', said during his speech that the Cementos Portland Valderrivas Group "marked a before and after in this neighbourhood of Madrid".

History of the factory

The Valderrivas Group was created in 1905, in the old neighbourhood of Doña Carlota in the Vallecas area, where the first founders had a mosaic and brick factory. In this factory, its manager, Mr. Ynzenga, opted to diversify the business and, in addition to bricks, decided to produce cement, a novelty at the time.

Between 1921-1922, the Ynzenga family looked for a suitable area for the construction of the cement factory and decided to settle in Vicálvaro, as it was an enclave rich in clay and other natural materials, which were necessary for the manufacture of cement. In 1923, construction began on the Vicálvaro factory, which was to last two years, and its first cements were to be used for asphalting the streets of the town.

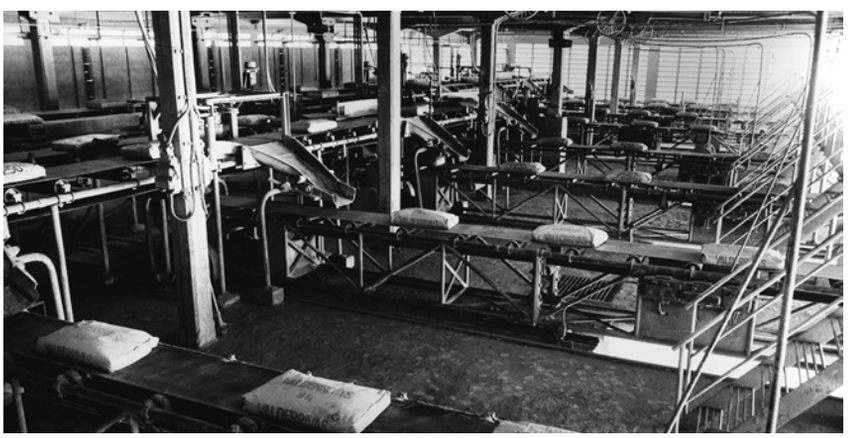
A new life for Vicálvaro

The start-up of the Vicálvaro factory meant the development of the municipality, transforming it from an eminently agricultural town into an industrialised locality, provoking a revolution in which a large number of workers from the countryside moved to industry.

The cement factory, as well as being one of the main sources of wealth in the town, also became a national reference point with the construction boom in Spain.

In the words of the president of the Vicus Albus Association: "the company was a milestone in the development of the expanding neighbourhood and in providing work for several generations".

After the factory moved to Morata de Tajuña, more than 6,000 homes were built on its site, creating the new neighbourhood of Valderrivas in the municipality.



Interior of the plant.



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Winners in the IV Edition of the AVANZA Awards.

FCC Medio Ambiente **honours four innovative, committed and sustainable projects** in the 2023 edition of its **AVANZA Awards**

FCC Medio Ambiente held today the prize-giving ceremony for the fourth edition of its AVANZA Awards, which are held every two years to recognise the work and effort made by its professionals in contributing every day to the improvement of the company's competitiveness, social integration, respect for the environment and the development and application of innovative solutions or practices.

The ceremony was chaired by the managing director of the Energy Transition and Circular Economy of the Madrid Regional Government, Cristina Aparicio, who, accompanied by Jordi Payet, CEO of FCC Medio Ambiente, presented the awards. Susana Pelegrín, head of the Quality, Environment and Sustainability department, and Francisco José Huete, director of Management Systems and Sustainability, moderated the event.

Ms Cristina Aparicio stated that "promoting social integration, perfecting processes, respect for the environment and fostering innovation are the pillars of sustainability and progress, values that are shared in the Region of Madrid". The managing director added that "FCC has demonstrated its leadership in areas such as waste management, the efficient use of resources, the reduction of emissions and the adoption of more sustainable practices; meeting objectives from growth without leaving anyone behind, values that the Region of Madrid embraces".

For his part, Jordi Payet highlighted the success of this fourth edition and conveyed his congratulations and recognition to the people of the company, their rebelliousness and commitment to improving competitiveness by providing added value, in short, to excellence as one of the cornerstones of FCC Medio Ambiente's 2050 Sustainability Strategy.

This year's edition, under the motto "Together, we create the future" and from the scope of the 20 delegations of the company in Spain and Portugal, 22 initiatives have competed, the largest response since the contest was launched, and four of them have been awarded in the different categories: Social Initiatives, Quality, Environment and Innovation.

Innovative, sustainable and committed projects

The jury emphasised the high quality of the projects, which focused on very sensitive issues with great social and environmental impact: circular economy, improvement of processes, equality programmes, integration and inclusion, use of technology to optimise service while respecting the environment, among others.

In the Quality category, the prize went to the "Use of new technology for 100% control of the weighing of litter bins on the Arenal in the cleaning of the beaches of San Sebastián" project, by Carmelo Aguas, from the Gipuzkoa-Navarra branch. The initiative develops a computer application to control the weighing of litter bins on the beaches of San Sebastian-Donostia, via mobile phone, which provides data on this service in real time.

Víctor Badenas and Judit Ríos, from the Eastern Industrial Waste - Neveras Centre area, have been awarded in the Innovation category for their "Zero Waste and Circular Economy in the Refrigerator Recycling Plant" project. This initiative is developed under the idea "Waste = Resource" and is based on efficiency and reuse, and aims to achieve an increase in recycling and recovery of the plant reaching an overall recovery rate of 93%.

In the Environment category, the "Bi-compartment rear-loading compactor collector with reduced dimensions on a hybrid electric chassis" initiative won, presented by Antonio Bravo, Raúl Carpio and Jesús Pajares, from the Machinery Department. The project consists of the design and manufacture of a rear-loading compactor collector lorry with two completely independent compartments, consisting of a chassis and a bodywork with a newly developed double container lift, with the aim of reducing the vehicle's dimensions and thus making it possible to operate in areas of the city where it would be impossible to work with a standard lorry.

Finally, the "Programme for the Labour Market Integration of Groups at Risk of Exclusion" presented by Jesús García, Javier de la Torre and Laura Mirat, from the Madrid Branch, was the winner in the category of best Social Initiative. It is an innovative programme for inclusive development, which promotes the labour market integration of groups at risk of social exclusion, and allows for detailed monitoring and analysis of recruitment processes.

When assessing the awarded applications, the jury took into account those that met the following requirements: innovative characteristics; technical, environmental, social and management improvements; competitive improvements and applicability to other contracts and areas; the possibility of future developments based on the one presented; improvements for workers and their living conditions; and improvements for groups at risk of exclusion.



Presentation of the AVANZA Awards.

Avanza Awards

These awards are created with the purpose of channeling the know-how of FCC Medio Ambiente personnel, as well as recognizing their effort and willingness to participate through proposals that can translate into operational improvements, enhancing the company's competitiveness. They are aligned with the Sustainability Strategy 2050 and within their commitment to research, development, and innovation.

Aqualia recognises the innovative talent of its team in the second edition of the **"i4U" Awards**

Aqualia has presented the awards for the second edition of the "i4U" Innovation Awards, an initiative aimed at developing internal talent and promoting an innovative and sustainable culture among employees. The aim is to promote new ideas and facilitate their implementation in order to face a future scenario full of challenges. On this occasion, a total of 33 proposals from 4 countries (Colombia, Italy, Czech Republic and Spain) were submitted to the competition, seeking to improve the quality of processes and services, the efficiency of the working environment and the sustainability of the company. The ceremony was held at Aqualia's corporate headquarters in Madrid.

Winning team

The team formed by Lubomir Vyvial, Pavlína Myšáková and Lumir Monski from the Energy section of the Asset Management department of SmVak, Aqualia's subsidiary in the Czech Republic, was the winner in this second edition. A proposal that proposes a system that makes it possible to use the heat from the air generated in the treatment of wastewater to pre-heat the sanitary water and at the same time use it as energy for heating the wastewater treatment plant itself. The jury considered that the project "represents a great energy saving by reducing the consumption of the installations". Luis de Lope, Aqualia's International Director, presented the prize, a travel voucher worth 3,000 euros.

Jury's first runner-up prize

This award went to the initiative of Javier Esteve Ocaña, deputy foreman of the Alcoy (Alicante) service, with an internal training project through gamification, which transfers the mechanics of games to the educa-



The winners of the 2nd edition of Aqualia's "i4U" Innovation Awards (from right to left): Javier Esteve Ocaña (Jury's 1st Runner-up), Eugenio Marín (Jury's 2nd Runner-up), Pavlína Myšáková, Lubomir Vyvial (First Prize) and Gerardo Díaz Piélagos (Employees' Runner-up).

tional-professional sphere. Carmen Rodríguez, Director of People and Culture, presented the prize, a travel voucher worth 1,500 euros.

Second Prize from the Jury

The second prize went to Eugenio Marín, head of the Deep Purple/B-Ferst project of the Innovation department in Jerez de la Frontera (Cádiz). His idea consists of the regeneration of urban and industrial wastewater by using cold ultraviolet mirrors to capture solar radiation. In addition to producing reclaimed water, this system will also produce energy for the wastewater treatment plants. Miguel Perea, the company's Director of Customer Management and IT, presented him with a travel voucher worth 1,500 euros.

Employee's second prize

The second prize for employees went to Gerardo Díaz Piélagos, in charge of EDAR in Asturias. The selected project proposes the development of a portable sludge dehydrator by means of a filter bag that reduces the cost of sludge management at the facilities and facilitates its handling. More than 900 employees took part in the open vote in which Gerardo Díaz was the winner. Gerardo received his 1,500 euros travel voucher from Santiago Lafuente, Aqualia's Director of Spain.

In the first edition of the awards, the winner was Patricio Hermosilla, plant manager at the WWTP in Medina del Campo (Valladolid), thanks to a project that simplified the construction of a sludge treatment and sanitisation line. Jordi Palatsi, plant manager at the Lleida wastewater treatment plant, won the Jury's runner-up prize for a control system to reduce the time and speed up the management of sludge thickening at wastewater treatment plants. Finally, Andrés Sanabria, foreman at Aqualia in Puerto de la Cruz (Canary Islands), won the Employees' Commendation with his mobile application project to unify all the existing remote-control systems in a more efficient and practical way for the operators.



Félix Parra, CEO of Aqualia during his speech.

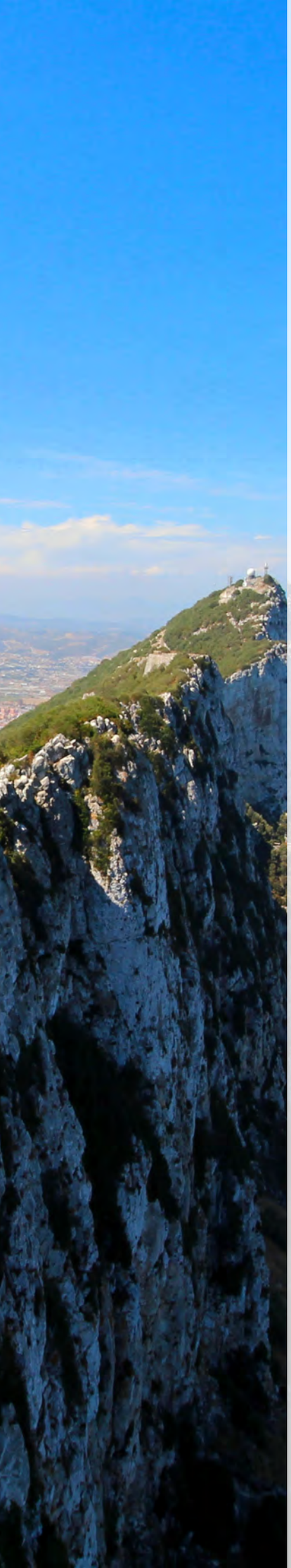
Innovation Awards

i4U

Aqualia's "i4U" Innovation Awards promote creativity and internal talent as one of the company's fundamental values. The aim is to discover proposals that can be implemented in the company's operations to improve the quality, efficiency and sustainability of our activity.



The application of **Artificial Intelligence will save water and energy** in eight municipalities in Campo de Gibraltar.



> More than 275,000 inhabitants will benefit from the solutions of a centralised system that will monitor the components of the water supply network, improving processes and the capacity to respond to incidents.

Aqualia and the public company Arcgisa will carry out a comprehensive project to digitalise the water cycle in eight municipalities in Campo de Gibraltar, with the aim of reducing losses and increasing energy savings through tools based on Big Data and the automation of installations.

The low level of water reserves in Spain, with the water reserve at 37% of its capacity, calls for an increase in efficiency in the management of the water cycle. The situation in the Andalusian Mediterranean Basin is even more serious, at 26% of total capacity. In this context, the Ministry of Ecological Transition and Demographic Challenge (MITERD) has just announced that eight municipalities in the Campo de Gibraltar (Algeciras, La Línea de la Concepción, Tarifa, Castellar de la Frontera, Jimena de la Frontera, Los Barrios, San Martín del Tesorillo and San Roque) will benefit from a centralised water management system, which will lead to significant improvements in their catchment, supply, sanitation, discharge and treatment systems, as they are included in one of the 30 projects selected to receive a grant in the first call of the Strategic Projects for Economic Recovery and Transformation (PERTE, Spanish acronym) for the digitalisation of the water cycle.

Aqualia and Arcgisa (Agua y Residuos del Campo de Gibraltar, S.A.), the public service company wholly owned by the Mancomunidad de Municipios del Campo de Gibraltar, presented a series of projects as a public-private partnership, among which the digitalisation of the Campo de Gibraltar Integrated Water Cycle was selected. The project, which has been supported by the Association of Municipalities of Campo de Gibraltar, Algeciras Town Council and Tarifa Town Council, has a total investment of 13.3 million euros, of which 7.7 million will come from the PERTE.

The proposal presented includes a series of technical solutions to deploy an automated and centralised system to monitor and coordinate all the elements of the water supply network, improving communication between the different processes and the capacity to respond to incidents. The actions will be carried out in infrastructures that are already in operation and are aimed at improving efficiency in both water management and energy consumption, with the aim of reducing losses of water resources.



> The project will increase energy savings by at least 10 % of consumption

The project includes actions in all phases of the integral water cycle through the integration of new technologies: remote meter reading, digital cartographic information systems (GIS), mathematical modelling of networks, energy efficiency, control centres, tools based on artificial intelligence for automation and process control, control of drinking water losses and discharges, among others. The solutions will result in water and energy savings and improved service to users.



An improved network to meet the demographic and environmental challenge

The population of Campo de Gibraltar totals 275,571 inhabitants, with two of its municipalities considered to be part of the "Demographic Challenge", as they have less than 5,000 inhabitants (Castellar de la Frontera and San Martín del Tesorillo). Most of the region is under some form of environmental protection, such as the natural park of Los Alcornocales, which covers six of the eight municipalities, and the natural park of the Strait of Gibraltar.

The region of Campo de Gibraltar has faced the beginning of autumn with little more than a year's worth of water in its reservoirs. Water reserves in the area fell by 25% in the hydrological year - which ended on 30 September - according to the Hidrosur Network, which monitors the state of Andalusia's reservoirs. The region has been in a situation of "exceptional severe drought" since October 2021 by an Order of the Regional Ministry of Agriculture, Livestock, Fisheries and Sustainable Development. Andalusian reservoirs continue to reduce their reserves and are currently at 18.6% of their total capacity.

On the other hand, certain characteristics of the region, such as the markedly torrential rainfall, the short distance between the sierras and the sea and the differences in the gradients of the river courses, define it as an area of high flood risk. This is one of the aspects to be improved by the project, which plans to set up a Geographic Information System (GIS) to work with geo-referenced information. The GIS will contain all the data of the elements that make up the drinking water networks and will make it possible to design and simulate the drainage network to prevent and control flooding, define control strategies for a network and protect water quality.

These measures will make it possible to alleviate major problems of overflows and flooding caused by overflows in the drainage network and in the collectors, which are responsible for absorbing rainfall peaks, thus avoiding environmental damage such as contamination of water resources.

Automation that saves water and energy

In water treatment, one of the objectives pursued is energy saving, which has a direct impact on cost savings. This is another of the central axes of the project, which includes a wide range of measures proposed to promote it. On the one hand, through the installation of elements such as metering devices that allow energy monitoring or frequency variators in the pump motors to adjust the flow rate. On the other hand, the reduction of water leaks in the supply networks, achieved through the application of data analysis and leakage control and management systems, will also allow a significant reduction in energy consumption.

It is estimated that the set of actions will reduce average annual energy consumption by at least 10.7% (2,517,364 kWh), which will also result in a reduction of CO_2 emissions into the atmosphere.

The execution period for the project ends in December 2025 and the actions will begin within 9 months of the granting of the aid. The MITERD has already announced a second call of the PERTE, with a budget of 200 million euros, with a deadline for applications from 30 October 2023 to 13 December 2023.

Guidelines for **minimising cybersecurity risks**

Do not open any attachment from a suspicious email or from an unknown sender.

Nor click on a link in a suspicious email.

Before entering your credentials, always check how and in what form they are requested and never enter them on unknown sites.

Do not transport sensitive information on removable devices. If you do, encrypt the information.

Never leave your devices unattended in public places or in your vehicle.

Lock your computer when you leave your workstation.

Do not modify the settings of your corporate device or install unauthorised applications.

Avoid using non-corporate equipment to access company services.

When travelling, do not send sensitive information over untrusted WIFI networks.

Passwords should be secret and should not be shared.

Let's pay attention and be careful!

If you have any doubts or detect anything suspicious, please report it immediately to InfoSecurity@fcc.es.
Thank you very much for your cooperation!

FCC successfully holds the **second innovation day** promoted by its **Digital Innovation Lab**



Work team of the Digital Innovation Lab.

The FCC Group has held its second innovation day driven by its Digital Innovation Lab (DI_Lab), in its commitment to innovation as a strength and as one of the levers of value creation of the company.

This is a think tank focused on improving the efficiency of company processes through digital transformation, adding value to businesses and improving agility in identifying and understanding current and future challenges in the digital world. Continuing with the initial purpose, the main objective of this initiative is to generate knowledge synergies for the promotion of innovation, technology and digitalization and to implement solutions that are feasible and viable to facilitate the adoption of innovative digital processes that solve challenges and, consequently, improve the company's products and services; and also to promote an innovation ecosystem open to institutional actors and external collaborators.

The meeting was opened by Alfredo García, Systems and IT manager of the FCC Group, who pointed out that "in recent years digitalization is reaching all areas, and the increase in these technologies and their complexity makes it necessary to better manage the

opportunities for innovation that this new world offers us"; and the different business areas of the company are participating in it through their R&D teams, presenting innovative products and initiatives and promoting digital transformation in each of the areas of activity.

In addition, we had the presentation of projects from all business areas of the FCC Group. On behalf of FCC Construcción, María José Conde, Marta Patón and Iván Arbós participated with the project "0 Accidents"; and Elizabeth Rodríguez and Juan Ramón Mena with their demonstration and presentation on digitization and monitoring of linear integration works "BIM+GIS+-DRONES to deep learning".

Antonio Prego, from FCC Industrial, explained how they applied innovation in FCC Industrial's systems projects. Also, Jesús Campuzano, Javier Camacho and Fernando Enríquez, from Matinsa, spoke about "POTAMIDES and SAIM, the acoustic emission systems and ecology and management of blabber". From Prefabricados Delta, Javier Villa, told about the digital transformation in Industry 4.0 in Puente Genil (Córdoba).

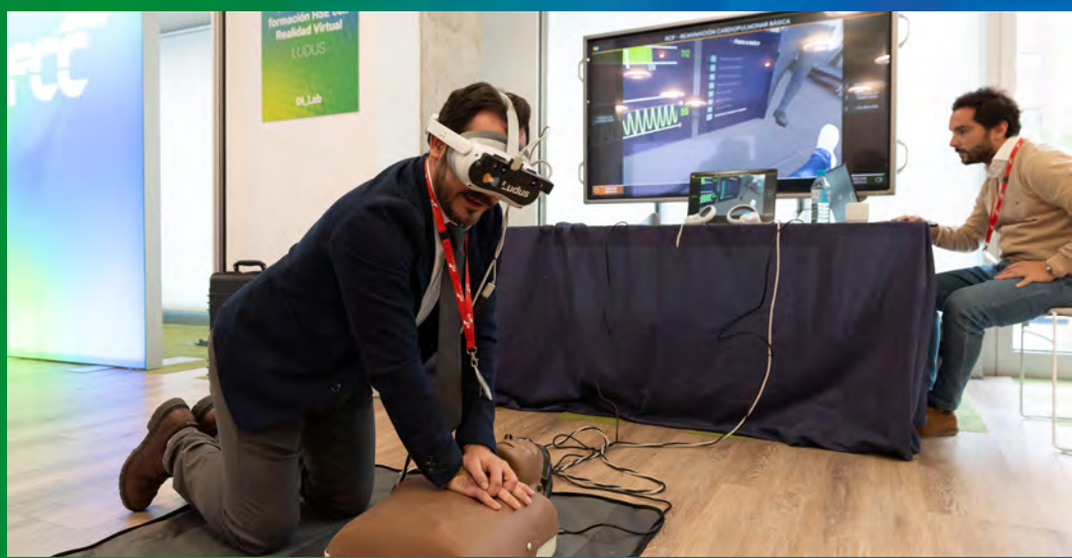
Likewise, FCC Medio Ambiente presented the latest environmental advances in sustainable mobility in urban services and how the recycling of photovoltaic panels works, by Jesús Pajares and Carlos Mallén. On the other hand, Teresa Simorte and Susana Pelegrín explained two projects that are being developed: "R+D+i projects that drive the circular economy" and "Innovation: main actor in the era of change". In addition, we had the presentation of projects from FCC Environment UK, by Mark Timms with his project "Adventures in AI" and FCC Environmental Services USA, with the presence of David Ramirez and his projects "FireRover firefighting system" and "New robot with AI installed in the Dallas (Texas) plant".

Finally, Aqualia was represented by Víctor Monsalvo, a speaker who explained the project "The value of water: resources, energy and H20".

Well-known external companies such as Telefónica, Microsoft, LG and LUDUS, among others, also participated in the event.

Finally, the event was closed with the intervention of Manel Miranda and Pilar de Vicente, both from the Systems and Information Technologies Division of the FCC Group, and their introduction to "Open AI" and the usefulness it could have in companies.

The conference was held with the aim of showing initiatives, concepts and prototypes that will allow validating those based on virtual/augmented reality, process automation, industry 4.0, artificial intelligence, metaverse and Open AI. In addition, it has allowed to show proofs of concept or important prototypes that will allow to validate possible solutions to a specific challenge in a quick way.



HSE training platform with Virtual Reality from the company LUDUS.



"Robot dog" from the company ALISYS.



Glam Cam video recorder during the day.

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