We are FCC

Nº 26

FCC holds its **2023** General Shareholders' Meeting



Junta General de Accionistas 2023


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Annual Report 2022

FCC holds its **General Shareholders' Meeting**



Pablo Colio Abril, CEO of the FCC Group, and Esther Alcocer Koplowitz, Chairwoman of the company, during the 2023 General Shareholders' Meeting.

The FCC General Shareholders' Meeting held on 14 June last in Madrid approved the annual accounts and management reports for the 2022 financial year, as well as all the items on the agenda. The meeting was chaired by Esther Alcocer Koplowitz, chairwoman of the FCC Group, and Pablo Colio Abril, CEO of the company.

In her speech, Esther Alcocer Koplowitz cited some of the Group's most important data and events in 2022, stressing to the shareholders that "the results achieved during the year have been truly satisfactory". And she conveyed to them her most sincere optimism and firm hope for the new times.

For his part, the CEO reviewed the results obtained by the FCC Group and by its business areas in 2022, which endorse the company's high capacity to maintain and reinforce its solid position of success and leadership. In addition, Pablo Colio reviewed the main milestones achieved in the previous year, which featured prominently in his speech.

Despite being a difficult year for the company as a whole, the CEO emphasised that "at the FCC Group we have maintained our enthusiasm for obtaining excellent results and our commitment to building an increasingly profitable and valuable company".

The company's great capital

In their speeches, both expressed their gratitude to the Board of Directors, the management team and all FCC employees for their efforts throughout 2022, a dedication that has contributed to FCC's good results and growth. In a very special way, Esther Alcocer Koplowitz referred to FCC's professionals as "the company's great capital". "Professionals who are behind each of the important milestones we have achieved throughout the year".

Commitment, confidence and effort

Pablo Colio closed his speech at this General Shareholders' Meeting by highlighting that "2022 has been a year of great progress, with positive results that, without a doubt, we could not have achieved without the commitment, trust and effort of our professionals, more than 64,000, who have the experience and technical training that guarantee us to offer effective and innovative solutions. You are all the key to the success of our future; you are a fundamental pillar of the FCC Group".

Once again this year, Esther Alcocer and Pablo Colio thanked the shareholders for their firm commitment to the company, their constant support and the trust they continue to place in the FCC Group.

VIDEO

EXECUTIVE REPORT



Esther Alcocer Koplowitz
Chairwoman of the FCC Group

"the company's great capital". "Professionals who are behind each of the important milestones we have achieved throughout the year".



Pablo Colio Abril
CEO of the FCC Group

"2022 has been a year of great progress, with positive results that, without a doubt, we could not have achieved without the commitment, trust and effort of our professionals, more than 64,000, who have the experience and technical training that guarantee us to offer effective and innovative solutions. You are all the key to the success of our future; you are a fundamental pillar of the FCC Group".

FCC agrees to sell a minority stake of 24.99% of the head of the **Environment Area** to the Canadian pension fund **CPP Investments**

On 1 June last, FCC signed an agreement for the sale to CPP Investments of 24.99% of the capital of its subsidiary FCC Servicios Medio Ambiente Holding, S.A.U. (FCC Medio Ambiente).

FCC Medio Ambiente and its national and international subsidiaries carry out various Environmental Services activities through four main platforms: Spain and Portugal, UK, EEC and USA.

The main aspects of this agreement are:

- The price to be paid by CPP Investments for 24.99% of FCC Environment amounts to €965 million.
- The closing of the transaction is subject to the usual conditions precedent (competition, authorisation from financial institutions, etc.).
- FCC will maintain its majority shareholding in FCC Medio Ambiente with 75.01%.
- The main use of the funds will be to meet the FCC Group's strategic opportunities and corporate needs.

FCC Medio Ambiente plans to continue with its current strategy, maintain its operations and commercial relations (public administrations, private clients, suppliers, etc.), strengthen and develop our activities with the active participation and synergies derived from the incorporation of the new partner and the permanence of the company's management team.

About CPP Investments

A global management group for the 21 million contributors and beneficiaries of the Canada Pension Plan. With assets under management of C$570 billion as at 31 March 2023, of which C$487 billion are located outside Canada, in a wide range of sectors, including real estate, infrastructure, energy, debt, and public and private equity funds.



Electric waste collection vehicle in Lower Austria.


Allington Energy from Waste (EfW) plant in Kent, UK.


Dallas recycling plant in Texas, USA.


La Campiña Environmental Recycling Complex in Loeches, Madrid, Spain.



Francisco de Herrera el Mozo, El sueño de San José, 1662, Aldeavieja (Ávila), parroquia de San Sebastián.

Become a Friend of the Museo del Prado and enjoy the exhibition Herrera el Mozo and the Total Baroque

The Friends of the Museo del Prado Foundation is sponsoring one of the latest exhibitions to open at the Museo del Prado, Herrera el Mozo and the Total Baroque. Through more than 70 works, we get to know this great 17th century artist, painter, draughtsman and set designer. Some of the paintings on display have been restored for the occasion, and many of them are leaving the churches for which they were created for the first time.

We remind you that FCC, in collaboration with the Friends of the Prado Museum Foundation, offers you the Friends of the Museum card, which will allow you to enjoy advantageous conditions for access to the collections and exhibitions of one of the best art galleries in the world.

BECOME A MEMBER

Esther Koplowitz

Medal of Honour of the Spanish Royal Academy of Medicine

The Royal Academy recognises the Spanish philanthropist and businesswoman for the work carried out by the Foundation that bears her name as an Honorary Protector Member of the RANME.



The Spanish Royal National Academy of Medicine (RANME) has awarded the Spanish philanthropist and businesswoman Esther María Koplowitz y Romero de Juseu the Gold Medal of the Institution. This recognition for her philanthropic work in support of research and the practice of medicine was approved by the Governing Board of the Royal Corporation on 11 October 2022 following the proposal made by the Board of Directors on 6 July of the same year based on the Statutes and Regulations of the Royal Academy.

The presentation of the Medal of Honour and Diploma will take place in the coming months.

Esther Koplowitz Foundation

The Esther Koplowitz Foundation was officially constituted in December 1995, thus formalising the work that its founder had been carrying out on a personal level since the seventies. Our activity is focused both on helping the most disadvantaged members of society and on supporting biomedical research and scientific progress, without forgetting the numerous actions to promote education and culture.

FCC and Iberdrola extend their collaboration in the **circular economy** and will work with **Glencore to develop battery recycling in Spain**



Ie-Urban truck: rear-loading electric collection vehicle developed on FCC Environment's e-mobility platform.

FCC Ámbito, a subsidiary of FCC Servicios Medio Ambiente, and Iberdrola, through its PERSEO Venture Builder programme, will collaborate with Glencore to tackle one of the biggest medium- and long-term challenges in the energy sector and will seek to provide industrial-scale lithium-ion battery recycling solutions on the Iberian Peninsula through the development of a specialised facility.

Glencore is one of the world's largest diversified natural resource companies and a major producer, recycler and marketer of key metals for battery production.

Integrated solutions

FCC Ámbito is the subsidiary of FCC Servicios Medio Ambiente, leader in Spain and Portugal in the integrated management of industrial and commercial waste. Iberdrola is a world leader in renewable energy and, through its PERSEO Venture Builder programme, aims to facilitate access to the technologies of the future with a focus on sustainability. Together, the parties will combine their capabilities to develop comprehensive management solutions for lithium batteries from both manufacturing rejects and end-of-life batteries.

In collaboration with the Iberian Energy Storage Research Centre (CIIAE), the parties have conducted an in-depth analysis of the potential battery recycling market in the Iberian Peninsula and are working to identify the right technology partners to implement the facility. The plant, which will be operated by FCC Ámbito, will allow the pre-separation of lithium-ion batteries for subsequent refining.

To this end, this alliance will seek to establish the strategic arrangements necessary for the effective recovery of lithium batteries, extending the positive impact of the initiative to other actors along the entire value chain. It will also contribute to the research and development necessary for the effective circularity of these materials.

The exponential adoption of electric vehicles will lead to a rapid increase in battery recalls - which will be around 35,000 metric tonnes per year in Spain by 2035 - and new battery manufacturing rejects. In this context, this collaboration aims to develop an industrial facility that will be ready when such recycling capacities are required in the peninsula.

In this way, FCC and Iberdrola are extending the collaboration they began to address the recycling of wind turbine blades, for which purpose they created the company EnergyLoop. This new effort further reinforces the circular economy strategies of FCC Ámbito and Iberdrola, which see this model of production and consumption as a key lever for the energy transition.

> "The exponential adoption of electric vehicles will lead to a rapid increase in battery retirements, which will be around 35,000 metric tonnes per year in Spain by 2035"

Kunal Sinha, Global Head of Recycling at Glencore, emphasised that "we are delighted to be part of this alliance on battery circularity with Iberdrola, a world leader

> This collaboration reinforces the circular economy strategies of FCC and Iberdrola, which are already working to address the recycling of wind turbine blades

in renewable energy, and FCC Servicios Medio Ambiente, a leader in waste management services in Spain and Portugal, "together, we will look to leverage the individual strengths of each company to bring circularity to the lithium-ion battery ecosystem in the Iberian Peninsula.

This collaboration supports our ambition to grow our recycling business in new markets. We are excited to drive this initiative in Spain, where Glencore has operated one of the world's largest zinc smelters since 1960.

At Glencore, we see production waste and post-consumer materials as valuable resources that will help meet the growing demand for the critical metals that underpin the energy transition and the global ambition to achieve net-zero emissions".

María Jesús Kaifer, technical director and head of Circular Economy at FCC Ámbito, highlighted that "with this collaboration, our company continues its pursuit of strategic growth objectives, on which it has been working, such as the development of recycling solutions for materials related to the energy transition.

It is a continuation of our efforts to recover the resources contained in waste to minimise dependence on raw materials.

The recycling of lithium-ion batteries is a challenge that we are facing together with two leading companies in their sectors, Iberdrola and Glencore, in order to join forces to ensure the necessary recycling capacities".

Álvaro Portellano, head of PERSEO Venture Builder at Iberdrola, commented that "sustainable business models are at the core of Iberdrola's strategy, demonstrated by more than two decades of leadership in the global renewable industry and in driving the transition to a decarbonised economy.

At Iberdrola, we see this new collaboration as a valuable opportunity to contribute to the circularity of the elements of the energy transition that we are driving, as well as expanding the scope of our successful partnership with FCC, which is already addressing the recycling of wind turbine blades.

In 2020, the PERSEO Venture Builder programme was launched to promote the development of innovative industries such as, among others, those related to the circular economy. In that sense, we are excited to combine that objective with the strengths and capabilities of Glencore and FCC, global leaders in the natural resources and waste management industries, respectively, to lead the recycling of lithium-ion batteries in the Iberian Peninsula."

> The plant, which will be operated by FCC Ámbito, will enable the pre-separation of lithium-ion batteries for subsequent refining

Aligned with FCC Environment's Sustainability Strategy 2050

FCC Ámbito is the subsidiary of FCC Servicios Medio Ambiente specialising in the integrated management of industrial and commercial waste, recovery of by-products and soil decontamination. As a whole, it has a total of 39 treatment centres in Spain and Portugal, with more than 67 processing lines that guarantee the functionality of the facilities.

FCC Servicios Medio Ambiente is the FCC Group company that has been providing municipal services and integrated waste management for 120 years, serving more than 60 million people in 5,200 municipalities around the world. In 2021, the company managed 24 million tonnes of waste and produced nearly four million tonnes of secondary raw materials and waste-derived fuel.

FCC Ámbito contributes its extensive experience in the recycling and commercialisation of secondary raw materials to the definition of the operational processes in the development of the projects arising from this alliance. The incorporation of new technologies in this type of project will allow FCC Ámbito to consolidate and position itself as a key player in the country's circular economy processes, a fundamental pillar of FCC Environment's 2050 Sustainability Strategy.

This Sustainability Strategy consists of a 30-year business development roadmap that integrates very demanding objectives and commitments with high added value for the company and society as a whole, and which are grouped into four lines of action: environmental, social, excellence and good governance.

Aqualia and the City Council of Los Alcázares in the Region of Murcia present a project to protect the Mar Menor



Representatives of the research consortium of the NINFA project.

The NINFA project develops ways to monitor and prevent water pollution using predictive methodologies and treatment and mitigation solutions. The initiative, funded by the EU's Horizon Europe research and innovation programme, involves nine partners from six countries.

The Mayor of Los Alcázares, Mario Ginés Pérez, and the director of Aqualia's Levante delegation, Higinio Martínez, presented the NINFA project, which seeks to monitor and treat pollutants present in groundwater and subsurface water with the aim of protecting the aquatic environment, including the Mar Menor. The initiative develops tools to monitor and preserve water, including monitoring through advanced analytical techniques, modelling and treatment of various pollutants of diffuse origin.

Víctor Monsalvo, head of Aqualia's Eco-efficiency Area, and Yeray Asensio, project manager of the Innovation Department, explained that the results will be integrated and managed through a platform that will be developed for real-time management of water quality at different points, and will make it possible to detect and provide early warning of incidents.

The main demonstration site of the project is the municipality of Los Alcázares (Murcia), on the shores of the Mar Menor. Different streams and water reservoirs will be monitored, including aquifer, wadi, other watercourses and the Mar Menor where unwanted concentrations of nitrate, phosphorus, pesticides and other compounds have been detected. Sensors and analytical methodologies will be developed on site to monitor the compounds of interest, assess risks and validate innovative treatment technologies including woodchip bioreactors, advanced wetlands and advanced physico-chemical processes, among others. The results obtained will be integrated into the NINFA platform, which incorporates a decision support system that will serve as a knowledge observatory on diffuse pollution and a tool for optimising water resource management.

The project is coordinated by the Technological Centre Leitat and brings together 9 other partners from 6 countries, including universities and relevant research centres in Europe. Actions are also planned in France, with the participation of Aqualia and the Institut Mines-Télécom Atlantique in Brittany (Brest, Rennes, Nantes).

Water exposed to multiple pollutants of diffuse origin

The NINFA project aims to mitigate, among other aspects, the eutrophication of the Mar Menor, which is the phenomenon responsible for the proliferation of phytoplanktonic algae in this area. The famous 'green soup' appears as a conse-

> "The replicability of the solutions to be validated in Los Alcázares will be studied in other countries such as the Netherlands, France, Mexico, Colombia and Egypt"



Víctor Monsalvo, head of the Eco-efficiency Area at Aqualia, during his presentation.

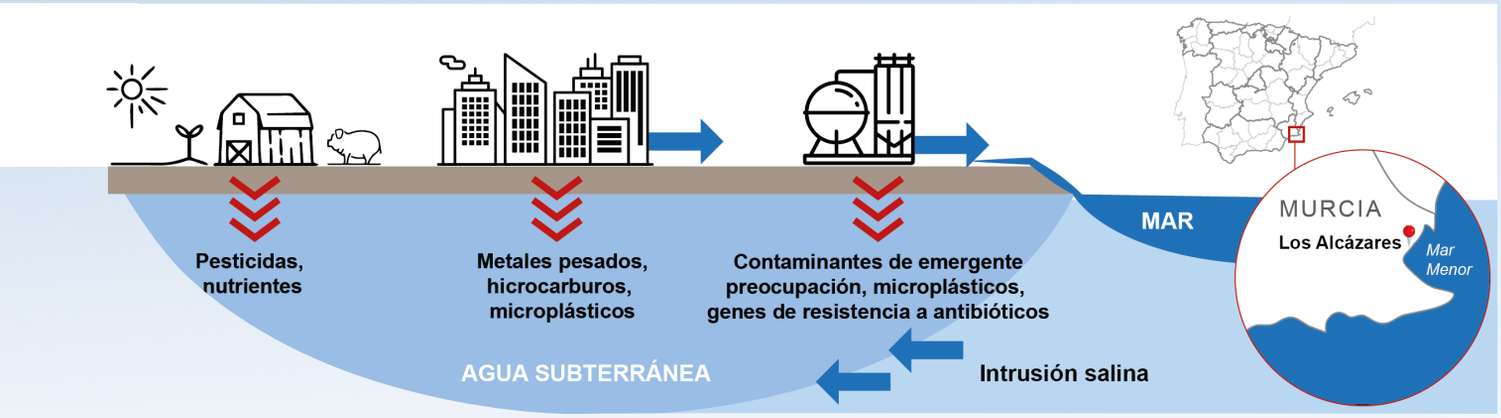
> "A platform will be developed for the real-time management of water quality at different points and will enable the detection and early warning of incidents"

quence of an excessive supply of nutrients, mainly nitrogen and phosphorus, to the aquatic ecosystem. The initiative comes shortly after the entry into force of RD 47/2022 on the protection of water against diffuse pollution caused by nitrates from agricultural sources.

In addition to phytosanitary products and nutrients from agricultural activity, NINFA incorporates the monitoring of other sources of pollution, such as treated water, urban infiltration (heavy metals, hydrocarbons, microplastics) and salt intrusion in coastal areas, as well as aggravating phenomena such as droughts and floods.

The results obtained in the NINFA project during operation in Los Alcázares will subsequently be used to analyse its feasibility in seven other locations, including installations in Spain, Holland, France, Colombia, Mexico and Egypt. This is one of three projects (along with Cheers and D4Runoff) that Aqualia has recently initiated thanks to co-funding (4 million euros) from the Horizon Europe programme, a key European Union initiative for research and innovation until 2027.

Groundwater threats



Europe's largest saltwater lagoon

The Mar Menor, a natural treasure located in the Region of Murcia, is a saltwater lagoon with a surface area of 170 km2, the largest in Europe. This lagoon is the habitat of numerous aquatic and terrestrial species, as well as being a tourist destination.

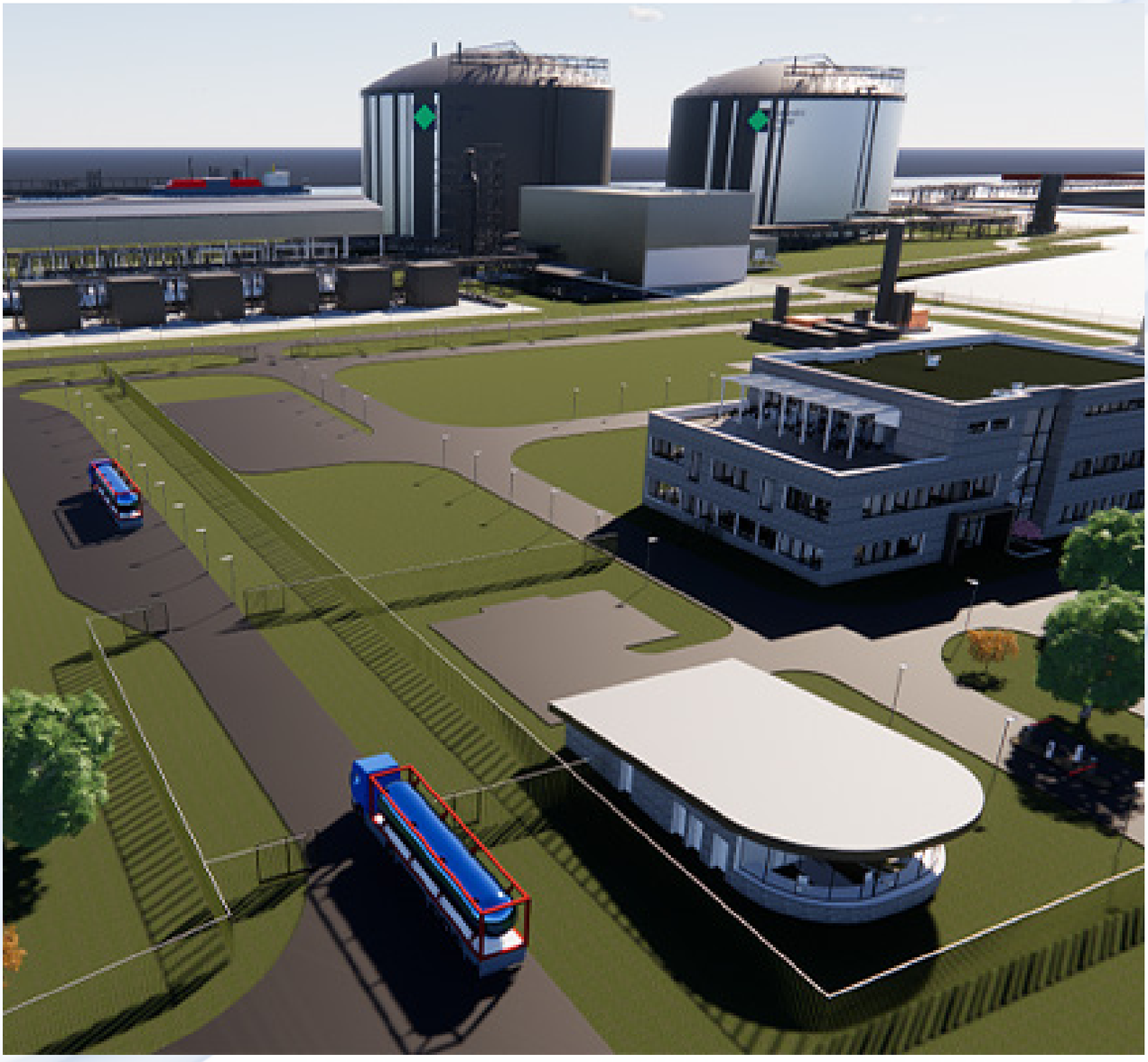
Despite its name, the Mar Menor, when compared to the Mediterranean Sea, is much saltier, with a salinity of 40% compared to 3.5% in the Mediterranean. This high rate of salinisation is a result of the slow renewal of the lagoon water, in addition to the high evaporation in the area.

In 1992, the Mar Menor was declared a Regional Park and Special Protection Area for Birds (SPA) due to its ecological importance. In fact, in Roman times, the Mar Menor was known as "Lago de las Palomas" due to the large number of birds that inhabited the area. The lagoon has a great biodiversity and is home to a multitude of marine species, including more than 200 species of fish, such as sea bass, sea bream, grouper and conger eel. It is also home to threatened species.

In recent years, the Mar Menor has suffered an important process of eutrophication due to nutrient pollution, which has affected its ecosystem, leading to the immediate and massive death of fish and all types of marine invertebrates.


aqualia
If there is magic on this planet,
it is contained in water.
[Loren Eiseley, anthropologist]
2022 SUSTAINABILITY REPORT

FCC wins the contract to develop a large **regasification terminal in Germany**



Técnicas Reunidas and FCC will be in charge of the new liquefied natural gas (LNG) terminal at the port of Stade, Germany.

Hanseatic Energy Hub GmbH is developing an import terminal that will help secure Germany's supply of liquefied natural gas (LNG) and green gases, while preparing for the take-off of hydrogen in the market.

The German company has awarded the design and development of the emission-free regasification terminal to a consortium led by Técnicas Reunidas and made up of Spain's FCC Industrial and Entrade GMBH (a wholly-owned subsidiary of the Turkish company ENKA).

This is an EPC (Engineering, Procurement and Construction) contract for the construction of a new liquefied gas storage and regasification terminal in the river port of Stade, which is part of the metropolitan region of Hamburg (Germany).

The land on which the facility will be built belongs to the large chemical company Dow Chemicals, which is involved in the project as one of the development partners. The terminal will use Dow's industrial waste heat and will therefore be able to regasify gases without additional CO_2 emissions.

The new terminal will have a capacity of 13.3 Bm^3 nominal per year and will involve a total investment of close to 1 billion euros.

The project has been divided into two phases. The first, which includes preliminary works and engineering, will last 5 months. The second phase, which is the main contract, is subject to the final investment decision of the Hanseatic Energy Hub, expected next summer. The full execution of the plant is estimated to last until 2027.

Técnicas Reunidas

will design the regasification terminal and the two storage tanks, each with a capacity of 240,000 cubic metres, and will carry out all the equipment and materials supply work for the project. This project is part of the long experience and know-how of Técnicas Reunidas in the design and development of this type of plants, aimed at optimising performance and minimising environmental impact.

FCC Industrial

With extensive experience in the construction of liquefied natural gas tanks, FCC Industrial will build the tanks. It will also carry out all the site preparation and civil works activities for the plant. The company has designed, built and commissioned several LNG storage plants in Spain, Finland and Chile. Specifically, in Spain it has executed eight LNG facilities with a capacity to supply 1.53 million homes thanks to the storage of 1.1 Mm3 of liquefied natural gas.

Entrade GMBH

One of the world's strongest engineering and construction companies, Entrade GMBH will be responsible for the electromechanical assembly activities.

This terminal is an important element of Germany's current energy policy, which has among its main objectives to diversify its natural gas supply with liquefied natural gas (LNG) and "green gases", while preparing for the take-off of hydrogen in the market.

Hanseatic Energy Hub has underlined that "the hub is a flexible, future-oriented and green energy transition-oriented modular system that will take advantage of the various opportunities in the Stade energy region. The terminal, port, industrial park and connecting infrastructure are designed so that the conversion can be carried out in a modular way.

> "It will design involve a total investment of close to 1 billion euros"

Public authorities visit the **Cementos Portland Valderrivas Group's** facilities in the Port of Santander



Meeting in the Port of Santander, in Cantabria.

The meeting, which took place in the Port of Santander (Cantabria), was organised by the Cement and Environment Labour Foundation (CEMA Foundation), and by the two main national trade unions, CCOO del Habitat and UGT FICA.

Present at the event were the minister of rural development, livestock, fisheries, food and environment of the Government of Cantabria, Juan Guillermo Blanco, the mayoress of Santander, Gema Igual, the mayor of Valdeolea, Fernando Franco, the president, Francisco Luis Martin, and the director of the port authority of Santander, Santiago Díaz, representatives of UGT FICA and CCOO del Hábitat de Cantabria, representative of CEOE-CEPYME de Cantabria, the management of the cement factory of Mataporquera of Cementos Portland Valderrivas and other representatives of the port authority.

Beatriz Malagón, director of the Mataporquera plant, explained the situation of the factory, which in 2022 had sales of 640,374 tonnes of cement of which more than 90% was exported through the Port of Santander facilities.

Beatriz reviewed the environmental indicators for the year and the good results obtained in the application of circular economy policies, an example of good practice being the implementation and certification of the plant's Energy Management System in accordance with the UNE-EN 50001:2018 standard.

The meeting highlighted the agreement recently reached in the European Union on the Border Carbon Adjustment Mechanism (CBAM), one of the key historical demands of the cement industry, because it will guarantee a balanced treatment

> "90% of the cement produced at the Mataporquera factory is exported from the RAOS Port facilities"

of imports in all member countries. This mechanism will also avoid the unequal competition that exists between the national and international markets, in cement and clinker imports from countries that do not apply policies to reduce CO_2 emissions and that operate at lower costs, damaging the national market and the health of the planet.

Cementos Portland Valderrivas factory in Cantabria

This factory is one of the most advanced in replacing fossil fuels with fuels derived from waste at national level, with a substitution percentage of 61%, given that the national average is 37%.

> "The Mataporquera factory is a reference in circular economy at national and European level"

The El Alto cement plant in Morata de Tajuña, Madrid



Visit to the **El Alto** factory

Last March, a team from the Centro de Estudios y Experimentación de obras públicas (CEDEX) and the General Technical Secretariat of the Ministry of Transport visited the El Alto factory. Cedex is a public and innovative organisation specialised in public works, mobility, environment and climate change. It is organically attached to the Ministry of Transport, Mobility and Urban Agenda and functionally depends on the Ministry of Transport, Mobility and Urban Agenda and the Ministry for Ecological Transition and the Demographic Challenge.

This visit is part of the regular contacts and collaborations that we maintain with this entity, in which we delve into the particularities of the clinker and cement manufacturing process, and discuss the difficulties that we will have to address in order to be able to offer the market more sustainable cements, guaranteeing the best performance and ensuring their durability.

The Group holds this type of technical conference and shares its knowledge and experience with work teams such as this one, because by sharing we contribute to the advancement of applied knowledge and the introduction and dissemination of innovation.

The Torre Realia \ The Icon building receives the highest BREEAM rating in the management section.

The Torre Realia \The Icon building, located at Paseo de la Castellana, number 216, in Madrid, has obtained the highest rating awarded by BREEAM in the management section.

With this rating, the building joins a select group of 12 office buildings throughout the Madrid region.

The BREEAM certificate is one of the most rigorous and demanding evaluation systems for office buildings in the real estate market, as it promotes construction, operation and management aligned with sustainability. The building is assessed through 10 categories: management, energy, health and wellbeing, transport, water, pollution, waste and ecology.

These are the measures that have been assessed for the certificate and that go beyond good practice:

- **Value in waste management:** In accordance with the principle of the three R's (Reduce, Refuse and Recycle), eight types of waste are separated in the building (Cardboard, toner, paper, fluorescent, button batteries, alkaline batteries, packaging, glass and coffee capsules). This provides an optimal basis for tenants to segregate as much waste as possible.

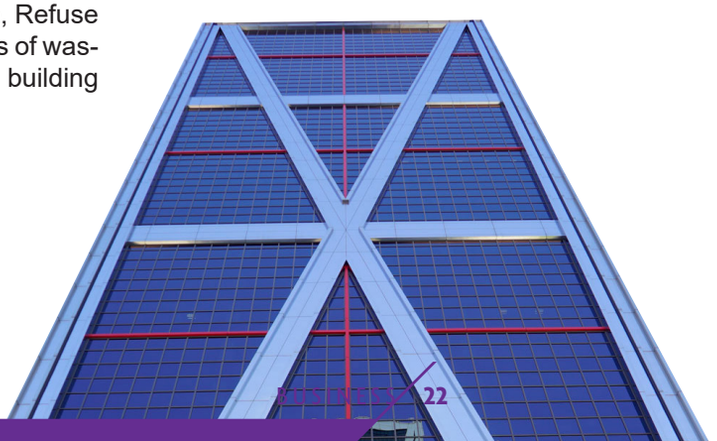
- **Torre Realia \The Icon and its urban context:** The ecological value of the site is enhanced and biodiversity is promoted by placing nest boxes in the trees around the tower and on the roof, renewing some of the landscaping plants and minimising the use of phytosanitary products that have negative effects on biodiversity.

- **Optimisation of consumption:** The joint monitoring of energy and water consumption in common and private areas of the building opens up many opportunities to reduce the consumption of resources.

- **Rainwater harvesting:** The water that falls on the heliport is recovered from the roof and used for maintenance operations. In this way, we add another strategy to save water consumption in the building.

- **A responsible joint action:** The actions carried out in the building would have a very limited impact if we did not have 'suppliers who are equally committed to the environment'. Proof of this is that both the cleaning service company and the maintenance company have ISO 14001: environmental management system certification.

In this way, we reaffirm our commitment to sustainability and to the quality of the service we provide to our customers.





Building Research Establishment Environmental Assessment Methodology

BREEAM is the most technically advanced method for assessing and certifying sustainability in building construction and the world leader in terms of the number of projects certified since its creation in 1990.

Although it is a British non-profit organisation founded in 1921, since 2010, BREEAM has been fully adapted to the language, regulations and construction practice in Spain.

Among the buildings that hold this certificate are the iconic London skyline; all the venues of the London 2012 Olympic Games, Sochi 2014 or the Russia 2018 World Cup; Heathrow Airport's T2, Coca-Cola (France), Ikea (Sweden), etc.

FCC Construcción joins REDI, Business Network for LGBTI Diversity and Inclusion

The company has joined the REDI ecosystem, the Business Network for LGBTI Diversity and Inclusion. The FCC Group company exports its innovative and sustainable model to the world, continuing its international expansion driven by economic results and a strategy based on sustainability and innovation. Already ranked third in its sector in Spain in terms of contracting volume, and in the top 35 worldwide.

FCC Construcción is committed to fostering an inclusive environment and valuing the talent of people regardless of their identity, gender expression or sexual orientation. It has a zero tolerance for discrimination. REDI is the first ecosystem of companies and professionals in Spain that works to promote safe and respectful working environments for all people, regardless of their identity, gender expression or sexual orientation.

FCC Construcción promotes the creation of multidisciplinary teams made up of people with different profiles and with representation from all kinds of groups, genders, ages, abilities and talents.

Business Network for LGBTI Diversity and Inclusion (REDI)

REDI is a non-profit association created in 2018 and formed by an ecosystem of more than 200 partners from all sectors and sizes, connecting efforts to make their commitment to respect and inclusion of LGBTI diversity more visible. Its vision is to contribute to eliminating the socio-cultural prejudices of LGBTI people that still hinder their professional development.

By accompanying its partners, REDI activates and promotes respectful, inclusive and safe work spaces so that talent is valued regardless of sexual orientation, gender identity or gender expression, so that all employees can be themselves and develop professionally without fear of prejudice or stereotypes.

Aqualia and the "Abriendo Puertas" association collaborate on a job placement project in San Juan del Puerto, Huelva



Aqualia, the concessionaire of the integrated water management in the municipality of San Juan del Puerto (Huelva), and the Association of Special Youths of Moguer, Abriendo Puertas, are collaborating in an employment integration programme for people with disabilities in the town and surrounding area. Specifically, they will provide a water bill distribution service in the Huelva municipality.

Aqualia's Service Manager in San Juan del Puerto, Víctor Prieto, indicated that this type of action is part of Aqualia's Sustainability policy and that the collaboration with the Abriendo Puertas association is an example of how social inclusion can have a positive impact on the community in general: "It is important to continue supporting and collaborating with organisations that promote inclusion and equal opportunities for all people, to ensure that we all have access to the same services and opportunities in our society", said Prieto.

Commitment to equality and diversity

Aqualia is a pioneering company in the sector for its commitment to equality and diversity. The company has received the "Equality in the company" award from the Ministry of Equality and has been a member of the Global Compact since 2020. Through the policies and standards that Aqualia sets for itself, it contributes to the global challenges in labour matters, including training, employability, equality, diversity, social inclusion and human rights.

For Aqualia, sustainable water management is a fundamental axis for development and a driver of change to promote a fairer and more egalitarian society, being the first company in the sector to be certified by AENOR in the achievement of the SDGs.

FCC Equal

boosts creativity through art therapy

FCC Equal Madrid has carried out an art therapy activity in which they went to “Hoy pinto cerámica” (Today I paint ceramics), a place where they can develop their creativity through painting.

On this occasion, cup-shaped ceramic pieces were chosen for a workshop that not only worked on the imagination, but also served to foster social relations, companionship and healthy leisure.

Artistic psychotherapy

This activity is part of artistic psychotherapy, which intrinsically develops conflict resolution skills, communication problems and difficulties of expression and many other psychological aspects.
Painting on any surface, not necessarily a canvas, can be a means of expressing and expressing feelings and thoughts, especially for people who find it difficult to do so. When this type of exercise is put into practice in a relaxed, pleasant and non-competitive environment, great personal achievements can be achieved, such as improving concentration, reducing stress and anxiety, as well as sublimating other problems. This activity produces a state of mental relaxation, achieving harmony between the mind and the heart.

Leaving aside the emotional aspect and putting the focus on the physical level, fine motor skills are also developed, as through the use of the paintbrush one learns to regulate the movements of the hand and develop brain connections related to this skill.

FCC Equal Special Employment Centre goes one step further than job placement, and seeks the full inclusion of people with disabilities in society.

Through this outing, not only is a productive and fun day achieved in which all the participants enjoyed themselves and got to know leisure alternatives, but it also brings closer this objective of integration and full development of the workers on a social and personal level.











FCC joins in the celebration of European Diversity Month



The month of May was European Diversity Month, an initiative of the European Union, which aims to raise awareness and promote diversity and inclusion in the workplace in companies and organisations.

The FCC Group once again joined this commemoration, recalling the motivation of all its business areas to continue making progress in the creation of inclusive work environments in compliance with SDG 5 (Gender Equality) and 10 (Reduction of Inequalities) of the United Nations 2030 Agenda.

Each and every one of the people who make up FCC contribute their experiences, their different visions, enriching and strengthening the commitment of belonging and contribution of each and every one of them to the company's objectives. At FCC, diversity adds up.

We would also like to remind you that FCC offers you the You_diversity portal, a platform that has been recognised with several awards and acknowledgements. We invite you to visit the page where you can find a specific chapter dedicated to Diversity: click on this link.

Finally, we would like to remind you that FCC continues with its commitment to the Spanish Diversity Charter, committed to being an increasingly diverse and socially responsible company, making the 10 basic principles of its essence its own.

VIDEO

Guía de **Comunicación Inclusiva** del Grupo FCC

you_*diversity*

Existe un espacio donde la diversidad empieza por you_



Suscríbete y recibe las últimas novedades de you_*diversity*

FCC Group receives an **award for best internal communication practice** for its **You_*diversity*** project

FCC has received the award for best internal communication practice in the area of sustainability from the Internal Communication and Corporate Identity Observatory (OCI), created by ATREVIA, IE Business School and the Capital Humano magazine of the La Ley group at the 13th edition of the Internal Communication Best Practices Awards.

With this recognition, the OCI wanted to highlight the value of the "You_diversity" project created by the company in order to give visibility, raise awareness and promote diversity and equality, ensure compliance with human rights and join efforts in the fight against any form of discrimination, violence or harassment.
Isidoro Valverde and Sonia Serrano, both members of the FCC Group's Labour Relations and Equality Department, attended the awards ceremony to collect the prize. Isidoro emphasised in his speech: "Our project is a space for fighting against any form of discrimination". Sonia also mentioned what this project brings to the company: "You_diversity is culture, it is creating closeness and commitment to all our people".

Commitment to equality and diversity

You_diversity was created with the aim of bringing together the company's values and commitments to equality and diversity, which encourages the participation of all the people who form part of the FCC Group through collaboration and synergy.

The management of diversity and equality is for FCC a business, social, ethical and legal imperative, which adapts to the needs of the market itself, of the society of which we form part and of the culture in which we live immersed. At FCC we are committed to achieving the Sustainable Development Goals (SDGs) contained in the United Nations 2030 Agenda, and this space is a clear commitment to contribute directly to SDG 5 'Gender Equality'; SDG 8 'Decent work and economic development'; and SDG 10 'Reducing inequalities'.

The platform is designed to encourage and promote the transformation of the business culture in terms of Equality, Diversity and Inclusion through content and significant training actions.

It is hosted on the company's intranet and is also available to all the people who form part of the FCC Group through the FCC360 App.

This space articulates the training and dissemination actions, as well as the campaigns and events related to equality and diversity, both of the company and the different FCC businesses, as well as collaborating entities and institutions.



Isidoro Valverde and Sonia Serrano, from the FCC Group's Labour Relations and Equality Department, after receiving the award for the "You_diversity" project.

FCC Environment with Ukraine

DAY IN MADRID



Round table at the Day of Solidarity and Commitment to Ukraine held in Madrid.

FCC Medio Ambiente has held a Day of Solidarity and Commitment to Ukraine at its corporate headquarters in Las Tablas, Madrid. This event also marks the culmination of the initiative to reserve jobs and hire refugees from Ukraine in our country, which the company launched in March 2022.

The day included an exhibition of photographs of the reception of the material in Ivankiv, a Ukrainian town north of Kiev and close to the border with Belarus, and a round table to continue the work of raising awareness of the situation of Ukrainian refugees and the current war.

Taking part in the round table were Yana Miseen and Valentyna Konopatska, two Ukrainian refugee colleagues from FCC Medio Ambiente who joined as a result of its refugee recruitment campaign; Dr. Cecilia Estrada, director of the Chair of Refugees and Forced Migrants at Comillas Pontifical University; Jorge Travesedo, head of the collaborating charity Es Per Tu; and Luis Suárez, FCC Medio Ambiente's human resources manager.

DAY IN BARCELONA



Family photo, from left to right: Alberto Martínez, head of street cleaning for FCC Medio Ambiente's Barcelona Cleaning and Collection contract; F. Xavier Grau, director of the FCC Ámbito's Barcelona Cleaning and Collection contract. Xavier Grau, manager of the Barcelona Capital and Balearic Islands branch of FCC Medio Ambiente; Julio Fernández, representative of "És per tu"; Rosa Martín, president of "És per tu"; Jordi Payet, general manager of FCC Medio Ambiente Iberia; Jordi Ferrando, assistant manager of Zone I of FCC Medio Ambiente; Luis Suárez, human resources manager of FCC Medio Ambiente; and Martí Juanola, manager of the Catalonia I branch.

In Barcelona, a day of solidarity with Ukraine was also held, consisting of a round table and a photographic exhibition at the Palau Dalmases (C/ Montcada, 20), as part of the campaign developed among the company's employees to collect basic necessities for those affected by the war in Ukraine and its delivery, in collaboration with the non-profit association 'Es Per Tu', of the corresponding packages in the Ukrainian town of Ivankiv.

The day served to raise awareness of the situation of Ukrainian refugees and the invasion that persists in that part of Europe. Participants in the meeting included Serhii Prokhorenko, one of the Ukrainian workers hired by FCC Medio Ambiente as part of this campaign, who spoke about his experience in the conflict; Rosa Martín and Julio Fernández of the association Es Per Tu; Albert Martínez, head of the street-cleaning service in Barcelona for FCC Medio Ambiente; and Luis Suárez, director of human resources for the same company.

Es Per Tu is a non-profit association that bases its activity on taking in children who live in radiation-contaminated areas in Chernobyl, Ukraine. The improvement of their health is what drives the association to promote fostering, which is always carried out during the summer or Christmas periods. Currently, Es Per Tu is dedicated to providing basic necessities to Ukrainian families affected by the terrible situation caused by the invasion of Ukraine.

The aim of these two days, which culminate in the aforementioned support campaigns, was to demonstrate to the company's staff, who have shown

their solidarity in this project, that positive action really does reach families in need; and, on the other hand, to continue to demonstrate FCC Medio Ambiente's social vocation.

We would like to thank the Madrid, Centro, Cataluña I and Castilla y León branches, which have participated in the reception and shipment of materials, and especially the Barcelona Capital and Balearic Islands branch, which over the course of a month has also made an enormous effort in processing permits and carrying out the fundamental logistical work of classification, packaging, packing, preparation and final shipment. Special thanks also to FCC Ámbito's Western branch, which managed the transport.

Thank you for your **collaboration!**

Agreements with entities



From left to right, Luis Suárez, Human Resources Manager at FCC Medio Ambiente, and Amaia Elizalde, Director of Tent España, during the signing of the agreement.

The company has carried out several agreements to support refugees, such as the one signed last February with the association Tent Partnership for Refugees (Tent) to provide jobs in different locations in Spain to refugees from the Ukraine. Likewise, in 2022 FCC Medio Ambiente established a collaboration agreement with the Spanish Commission for Refugee Aid (CEAR) for two years to improve the employability and facilitate the job placement of participants in the Integration Programmes for International Protection Applicants, refugees, stateless persons and vulnerable immigrants.

Both agreements are linked to the campaign launched in 2022 to reserve jobs and recruit Ukrainian refugee professionals in our country.

FCC Medio Ambiente signs a framework collaboration agreement with the **Proyecto Hombre Association**



Luis Suárez, FCC Medio Ambiente Human Resources Manager, and Alfonso Arana, President of Proyecto Hombre, during the signing of the collaboration project.

FCC Medio Ambiente and the Proyecto Hombre Association have signed a collaboration agreement with the aim of promoting prevention, raising awareness in the company and treatment for people with addiction problems who are cared for in Proyecto Hombre centres, as well as facilitating their integration into the job market by matching them with job offers for recruitment by the company. The signing, which took place at FCC Medio Ambiente's corporate headquarters in Madrid, was attended by Alfonso Arana, Chairman of the Association, and Luis Suárez, the company's Human Resources Manager.

Every year in Spain, Proyecto Hombre assists more than 16,000 people with addiction problems. According to Alfonso Arana, "for the success of their process, it is essential for them to find work so that they can integrate into society. The agreement with FCC Medio Ambiente will facilitate the job placement of the people assisted by Proyecto Hombre and will also promote awareness and prevention of addictions among the company's workers. He also maintains that for both organisations "co-responsibility and alliances are necessary to respond to challenges that, like the prevention and overcoming of addictions, our society faces on a daily basis."

According to Luis Suárez, "the human quality of a society is measured by its capacity to protect and care for its most vulnerable members, which makes it more socially sustainable; and a company's commitment to social sustainability has to be reflected in the actions that precisely facilitate the integration of the most vulnerable groups, those at risk of exclusion or those who need positive reaffirmation actions in the face of any discrimination. FCC Medio Ambiente is always in this objective as the main entity committed to the social and labour integration of such vulnerable groups, understanding that being a leader in its sector of activity also means assuming the responsibility of becoming a benchmark with each of its actions".

This collaboration demonstrates FCC Medio Ambiente's commitment to the development of more sustainable, responsible and efficient environments and communities based on equality, resilience, inclusion and solidarity of various groups: unemployed people, people at risk of social exclusion, people with disabilities, victims of gender violence, migrants, refugees, people deprived of their liberty, etc., through the design and implementation of social sustainability practices. This agreement is part of the social axis of the company's Sustainability Strategy 2050, which aims to promote diversity and equal opportunities through the promotion of insertion employment. Thus, it seeks to give a boost to the inclusion of this particularly vulnerable group, promoting support for people with addiction-related difficulties and their rehabilitation in professional life.

Proyecto Hombre

Founded in 1984 to offer solutions for the prevention and treatment of drug addiction, every yea, Proyecto Hombre treats more than 16,000 people with addictions and nearly 100,000 people in prevention through its 28 centres and 210 devices throughout Spain. It is one of the largest Spanish NGOs dedicated to the prevention and treatment of drug addiction and other addictive behaviours.

FCC Environment

This is the FCC Group company that, for more than 120 years, has been providing municipal services and comprehensive waste management, serving more than 60 million people around the world. In 2021, the company launched its Sustainability Strategy 2050, a development plan that integrates very demanding objectives and commitments with high added value for the company and society as a whole, and which are integrated into four lines of action: environmental, social, excellence and good governance.

Aqualia, recognised as

“Best Water Company of the Year”

at the Global Water Awards 2023



Congratulations!

Read the news

Aqualia in **Colombia**



El Salitre wastewater treatment plant, Bogotá (Colombia).

Aqualia began its activity in the country in 2016, with its participation in the PTAR Salitre Expansion consortium, a consortium that it leads and whose mission is to manage the expansion of the El Salitre wastewater treatment plant, a key project for improving the sanitation system of the city of Bogotá and its surroundings.

In 2020, it consolidated its presence in Colombia with two operations that the company developed in parallel and with which it obtained its first operations for the management of the end-to-end urban water cycle in Latin America.

Aqualia has continued with the construction of the El Salitre Wastewater Treatment Plant in Bogota, which treats the water of three million inhabitants. The plant is expected to be completed in 2023.

In 2022, Aqualia incorporated the services of Flandes; Ruitoque; Aguas de la Sabana; Aguas de la Península; Aguas de Albania; Aguas de Aracataca; Aquamag Fundación; Aquamag Retén and Aguas del Sur del Atlántico into the perimeter. In addition, in the month of June, the operation of Riohacha, capital of La Guajira, began, with which the company exceeds 1.2 million inhabitants served in Colombia, making it the second largest private operator in the country. It should be noted that in the Aguas de la Sabana and Ruitoque concessions, Aqualia owns the assets.



INTERVIEW

CLAUDIA **BAHAMON**

Head of Business Development and Institutional Relations for Aqualia in Colombia

What is your opinion of Aqualia's presence and growth in Colombia?

Aqualia arrived in Colombia at a key moment, just before the start of the pandemic, when its presence was most needed. Colombia is a country where there is much to be done in the public utilities sector; there are municipalities in which the provision of services is deficient, some of which do not even have drinking water. The arrival of Aqualia generates great expectations because the population is eager to have a company whose priority is the efficient provision of these services.



Aqualia Colombia team.

Aqualia's growth in Colombia is significant, today we are in 30 municipalities where, in addition to providing the public water and sewerage service, we generate local employment, and with it, progress for these small municipalities.

How do you see the future of the company and what strategies are being implemented to achieve long-term goals?

I see Aqualia as the number one end-to-end water cycle operator in Colombia. The strategy is simply to do things well and thus improve the living conditions of the population served in the municipalities we manage. It is not an easy task, as it depends not only on our work, but also on external agents ranging from investment to political will, it is a day-to-day job.

In order to grow, we must be able to see opportunities in the midst of challenges, and for this, the image we project and, of course, our human team, which has not only experience but also the conviction of the importance of the services we provide, is fundamental.

The people who work at Aqualia have a strong commitment to respecting others, in our DNA is to ensure the welfare of the community, in Aqualia we all add up.

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

I have been working in the water sector for more than 20 years, I have held various positions, I would say I have done the whole course, from lawyer in the commercial area where I learned how a micro-meter works to General Management. Throughout my professional career I have had the opportunity to learn, to be able to take risks and make decisions that have allowed me to be where I am today. Visiting municipalities, getting to know cultures and understanding how each one works is a challenge. To be able to reach these places and people you have to understand their way of thinking, to know their needs, and Colombia is a very special country where there are many cultures, each one different from the other.

The biggest challenge has been to keep the team motivated, in the face of the difficulties of each operation, to improve the management results throughout 2022 was a great challenge.

What obstacles did you encounter along the way?

As a woman it has not been an easy road, some time ago the roles were labelled for "men" and for "women", there was no equality between responsibilities and salaries, but this has been changing and today I can say that I only find the natural obstacles to this work, the community that needs a service, the political campaigns, I do not feel resistance for being a woman.

What advice would you give to a young woman looking to pursue a career in your field?

For me, professional success is passion for what you do, I am passionate about public service, reaching the most remote communities, where there is no water and sometimes not even public roads, that fills me with satisfaction. This is a sector that has gradually opened its doors to women, before it was almost impossible to see women working in this field, today there are a large number of us who break the limitations that ancestrally have been placed on our gender. My advice, be constant, fight for your dreams and never give up.

How do you balance your personal and professional life, especially in a leadership role?

Fortunately, my family has understood that my passion is public service, that I enjoy it and it makes

me happy to be where I am, I have always had their support and that makes things easier. I like to meditate, do some yoga, light a candle and breathe, this allows me to have peace and think.

What are the most important skills that senior managers in a public service company must have in order to be successful in their organisation?

Commitment, social sensibility and discipline. Perhaps the latter is one of the most important because it is very easy to give up in the face of the adversities of the environment and the system.

What initiatives does the company have in place to promote diversity and inclusion in the workplace?

Aqualia has a high degree of commitment to diversity and inclusion, in fact, today we are 216 women, of which 80 (37%) are in management positions, which means that 45% of the total number of management positions in Colombia are women. A short time ago, these positions were only for men; at Aqualia, women have equal opportunities.

How do you handle conflict and difficult decision-making in your leadership position?

It is always necessary to start with dialogue, to listen in order to determine which situation or situations generate conflict. I believe in the opportunity to express yourself and the right to be heard, it allows you to see things from another perspective.

In order to make decisions it is important to see things from the outside, to understand that everything we do has consequences and to be certain that, even if it is a difficult decision, it is often necessary to act as soon as possible in order to move forward, and that not making decisions in time could lead to greater harm.

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

My leadership philosophy is simple: love what you do, show the team the commitment and conviction of what you do and this will act as a mirror, everyone will give their best, basically it is the example you give. In addition, I strive to make the team understand the concept of “management”, because it is not enough to try, you have to put all your efforts until you achieve it (if you can), if not, you will have done your best and you will have the satisfaction of having tried.

As a leader you must identify and enhance the skills of your team, delegating responsibilities, if everyone knows and enjoys their work, things will surely work better.



Aqualia team visiting one of the treatment plants in Colombia.

> “I believe in teamwork, in the importance of communicating, of knowing our common objective”

I believe in teamwork, in the importance of communicating, of knowing our common goal, and where we are going, what we expect. A leader who delegates but also follows up, shares achievements, challenges and even problems as a team.

What are your main challenges in your new role?

I have a great responsibility on my shoulders, to aim for the growth of Aqualia in Colombia, to find new business opportunities for the company, seeking to consolidate our position as the number one operator in the country, marked by the strategy of triple sustainability, social, environmental and financial. All this under the coordination of our Country Manager and with the support of the corporate communication and sustainability team, which helps us to promote our corporate image and our “Aqualia” brand.

- **Flandes (Tolima)** Operation, expansion, rehabilitation, infrastructure maintenance and commercial management of public water and sewerage services.

- **Ruitoque (Floridablanca, Girón and Piedecuesta; Santander)** Acquisition of the assets of Ruitoque S.A. E.S.P., which holds concessions for water services for urbanisations located in the three municipalities.

- In the last quarter of 2022, Aqualia acquires SAUR’s concessions in Colombia and becomes the second private operator of domiciliary public water and sewerage services in Colombia. Specifically, these acquisitions involve the management of the concessions of the following municipalities:

  - **Albania and Maicao (La Guajira).**

  - **Manatí, Candelaria, Repelón, Campo de la Cruz, Santa Lucia and Luruaco (Atlántico).**

  - **Aracataca, El Retén and Fundación (Magdalena).**

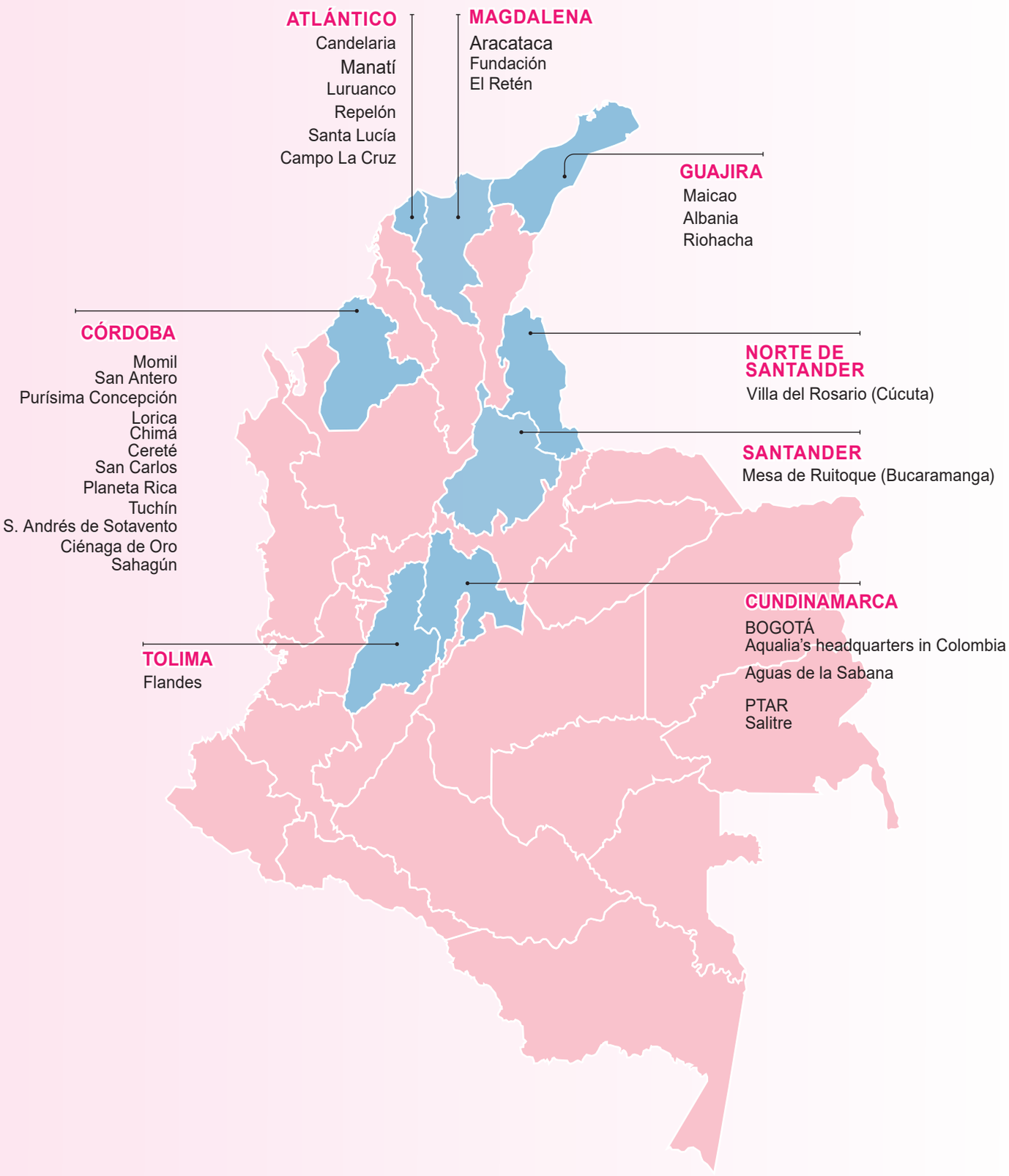
- **Aguas de la Sabana:** Industrial area covering the municipalities of Cota, Funza and Tenjo (Bogotá metropolitan area). Acquisition of 79.8% of Aguas de la Sabana de Bogotá, concessionaire and owner of the water and sanitation service assets of the agro-industrial area of Bogotá.

- **Riohacha:** Capital of La Guajira, where the management of the end-to-end water cycle has been awarded by tender for 30 years, providing service to more than 200,000 inhabitants.

In addition, Aqualia has continued to integrate and improve the management of the services acquired in 2020 in the Department of Córdoba: Aguas de Sinú, Uniaguas and OPSA, as well as the municipality of Villa del Rosario, in Norte de Santander.

MANAGEMENT UNIT	POPULATION SERVED
CÓRDOBA	564.241
ORIENTE (Villa del Rosario and Ruitoque)	121.057
CENTRO (Flandes and Aguas De la Sabana)	23.315
ATLÁNTICO	70.393
MAGDALENA	88.717
LA GUAJIRA	313.550
TOTAL	**1.181.273**

Presence in **Colombia**



Anna **Profitós**

Head of Production at FCC Medio Ambiente's Catalunya II branch office

The Catalunya II branch covers the provinces of Lleida and Tarragona, managing all kinds of contracts related to the collection and management of solid urban waste, street and building cleaning and gardening contracts. In the province of Tarragona, solid waste collection and street cleaning services are provided in the city of Tarragona, the most important of the delegation, as well as those of the Consell Comarcal del Tarragones, Baix Penedes and Baix Ebre and Montsià.

In the province of Lleida, on the one hand, the solid waste collection service is provided in the Consell Comarcal de La Noguera, Garrigues and Pla d'Urgell, and also in the town councils of smaller municipalities. On the other hand, in the province of Lleida, the management of the Lleida waste treatment plant has recently been awarded.

FCC Medio Ambiente is in charge of waste collection, street cleaning, garden maintenance, cleaning of premises and waste disposal, and currently employs some 950 workers.



Anna, with the Tarragona street cleaning staff.



Anna, when you decided to become an industrial engineer, did you ever think you would work in the environmental field?

Initially, when I decided to study Industrial Engineering, I wasn't really sure what area I wanted to work in. It was during my degree, and while studying the different specialisations, that my special interest in energy and the environment began to awaken.

How long have you been working at FCC Environment?

I have been working since 2017. My first contact with FCC Medio Ambiente was while I was doing my Master's Degree in Industrial Engineering. I started doing an internship, and have been working here since then.

What has been your professional career in the company?

I started working at FCC Medio Ambiente in the Barcelona and Balearic Islands office, as a trainee in the waste collection part of a very ambitious and enriching project. Once I finished my internship, I was offered the opportunity to stay with the company and manage the fountain service in Barcelona along with the maintenance of the city's buildings. After two years, the opportunity arose to move to the Catalonia II Delegation and I accepted, as my home town is Lleida. I have been there for the last few years as head of the waste collection service. FCC has been a determining factor in my constant professional growth and learning.

What is the role of a Production Manager?

Fundamentally have the ability to work, commitment and dedication to the company. To manage the team by creating a collaborative environment, supervising and providing the required support and back-up at all times. Fortunately, I am surrounded by highly qualified technicians and very committed staff.

Since you joined FCC, what has been your greatest challenge?

As an FCC team, we face a big challenge on a daily basis. This is not an easy job and not everyone realises how complicated it is to clean up and keep a city clean. The challenge is a daily one and it is everyone's, mine and the whole team's, everyone counts. Facing all the situations that occur on a daily basis, with the best professional and personal version of each one of us.

Sincerely, my great challenge is presented from now on, with the new position and the responsibilities it entails.

How do you organise yourself to coordinate the work of so many people and municipalities we serve? Do you have to travel a lot?

It is important to know how to delegate and to trust in the experience and professionalism of the team. I am lucky to be surrounded by very committed people. This allows me to organise the agenda taking into account the most important aspects to be dealt with. In addition to giving me time to attend to the various unforeseen events that may occur, which are usually many, in order of priority. I try to be at least once a week in each area where we provide services.

In the delegation we cover quite a large territory, although in terms of time and distance by car I can reach all the municipalities.

What is the most important challenge in your new role, and the most complex one?

Personally, the most important challenge I am facing right now, and at the same time the most complex one, is to give stability to the branch and to make it grow. At the moment, we are facing the renewal of the branch's most important contract, and at the same time, we have the opportunity to increase production by acquiring new contracts. We have to understand that rivalry and competition between companies is at its highest, and it will not be easy. But we face the challenge with dedication, strength, perseverance and a positive attitude.

How is the incorporation of women in environmental services going?

In my own experience, I have had no difficulty whatsoever being a woman in the company. In our delegation, and at company level as FCC Environment, equal opportunities are actively promoted in all jobs. This has made it easier for more and more women to occupy positions of responsibility. Although in the sector, and at a general level, there is still a long way to go.



Waste collection team of the Consell Comarcal del Pla d'Urgell.

What are **ESG** Criteria?

ESG criteria stand for ‘Environmental, Social and Governance’, which refers to the environmental, social and corporate governance factors that are taken into account at the company level.

The ESG criteria cover the following aspects

Environmental aspects

Climate action through the transition to a low-emission economy and energy efficiency, and the efficient use of resources by applying the principles of the circular economy: reuse, repair, recycle and focus on increasing the useful life of materials. It also refers to the responsible management of raw materials and resources, such as water, and the maintenance and preservation of natural capital, biodiversity and ecosystems.

Social aspects

Refers to contributing to social, cultural, economic and labour development and welfare, in which the commitment to the protection of human rights is very present. We also refer to contributing to the economic and social development of communities and society, through solidarity, education and social investment. Another of the lines of action focuses on the generation of quality jobs, in which talent is encouraged and opportunities for personal and professional growth are created, on the development of workplaces where the safety, health and well-being of people are paramount, and on the promotion of the principles of equality, equity, and the commitment to diversity and inclusion.

Good governance aspects

It is related to management efficiency, cybersecurity, compliance, and those values and principles that guide and mark actions and strategies. The commitment is aimed at creating ethical and upstanding environments, promoting responsible and exemplary behaviour, ensuring legislative and regulatory compliance, transparency in our actions, and fostering independence and diversity on boards of directors. The strategies are also aligned with stakeholders and with the supply chain itself, suppliers and contractors, generating relationships of trust and joining forces in the common goal of sustainable development.





FCC Group's lines of action in ESG matters

The commitments and actions in ESG matters in the FCC Group are directed from the highest governing bodies of the company, from the Board of Directors to which the Sustainability Committee reports, and are specified in our Sustainability Policy, which is perfectly aligned with the 2030 Agenda for Sustainable Development and the United Nations Global Compact.

Master plan



Expansion of the A9 motorway, Netherlands.



Extension of the A465 motorway in Wales, United Kingdom.

> “FCC Construcción’s strategy promotes diversity, inclusion in the workplace and equality”

FCC Construcción exports its **innovative and sustainable** model to the world

FCC Construcción continues its international expansion driven by economic results and by a strategy based on sustainability and innovation.

Already ranked third in its sector in Spain by contracting volume and in the world’s top 35, it increased its revenues by 18.5% to 1,966.9 million euros in the 2022 financial year. With a presence in more than 25 countries, it reduced turnover by 1.7% in Spain to 870.1 million euros, but in Europe, the figure grew by 19.7% compared to the previous year and reached 501.7 million euros, mainly due to the development of the A-9 motorway in the Netherlands and the A-465 in Wales (UK). In the Americas, it grew significantly to 434.2 million euros, 107.1% more, largely supported by the greater contribution of the Tren Maya project in Mexico, together with the sustained progress of works such as the Guillermo Gaviria tunnel - one of the longest tunnels in Latin America - in Colombia, lines 2 and 4 of the Lima metro in Peru and the start of the RER-3 in Toronto (Canada).

Projects in the Middle East led to an increase in revenues of 7.6% to 156.7 million euros. Of particular note was the Riyadh metro project, whose completion has been extended to April 2024.

The consortium in which FCC Construcción participates was awarded the contract for the design, construction, operation and maintenance of a commuter rail network in the metropolitan area of the city of Toronto (Canada). In addition, the company won the contract for the design and construction of the Sotra Link project in Norway, which consists of the creation of the RV 555 motorway between the island of Sotra and the city of Bergen.

In Saudi Arabia, FCC Construcción is operating in Neom. This city will be the city of the future, where innovation, sustainability and talent come together to build an authentic Smart City.



> Third largest construction company by volume in Spain and firmly consolidated in the world's top 35, increased revenues by more than 18% in 2022.

Sustainable development and innovation

The company integrates all these projects in its model attached to the Sustainable Development Goals of the UN Agenda 2030 and the Registry of carbon footprint, compensation and absorption of carbon dioxide of the Ministry for Ecological Transition. Likewise, its Sustainability Strategy establishes the lines along which the company will work in the coming years. It includes the fight against climate change and its goal of becoming carbon neutral by 2050. At the same time, it is developing programmes to promote equality, inclusion, diversity and inclusion in the workplace.

FCC thus combines engineering, construction, innovation, sustainability and progress through the execution of its projects, together with the experience of its more than 120 years of experience and the quality for which it has managed to establish itself on all five continents.

Line 2 tunnel of the Lima Metro, Peru.

The **Cementos Portland Valderrivas Group** establishes the **ISO 50001 standard in its workplaces**



Panoramic view of the El Alto factory in Morata de Tajuña, Madrid.



Installation for the use of biomass at the plant in Alcalá de Guadaíra, Seville.

At the Cementos Portland Valderrivas Group we firmly believe that present and future business success depends to a large extent on the development of a sustainable business, where environmental and energy aspects are a priority, focusing on continuous improvements in the production of cement, aggregate, concrete and mortar.

For this reason, and as the main objective of the Group's Environmental and Energy Strategy, we have completed the establishment of a new, more ambitious standard in 90% of our work centres, specifically ISO 50001, which is the most widely used business energy management standard in the world.

With this certification, we are implementing an energy policy that seeks real and quantifiable energy cost savings in production, controlling the steps and acting on those that represent an "energy and economic leakage". This undoubtedly contributes to a more efficient and sustainable use of energy.



Our commitment to improving environmental and energy performance is centred on the following principles:

- Provide the necessary resources and means to guarantee, at all times, the establishment and fulfilment of environmental and energy objectives and applicable legislation and regulations, including other commitments subscribed to with stakeholders with the will to go beyond strict compliance.
- Promote a policy of continuous improvement in the management of production facilities, environmental aspects and energy use and consumption of the products, activities and services over which we have influence, taking into account a life cycle analysis approach and promoting renewable energies.
- Establish action plans and provide resources for their achievement aimed at reaching the objectives of energy transition and decarbonisation aligned with the sectoral, national and international strategy.
- Incorporate environmental and energy considerations in strategic planning, investment programmes and equipment acquisitions and deepen the progressive application of the best available techniques.
- Facilitate the training and awareness of our employees so that they participate in and support the environmental and energy policy and objectives, respect the environment and promote the efficient use of energy resources in their professional and personal performance.
- Disseminate our sustainable environmental and energy principles to stakeholders, promoting communication and supporting the implementation of good environmental and energy practices.
- Promote the efficient use of energy resources by implementing energy saving and efficiency measures in processes and ensuring the control and monitoring of significant energy uses.
- Identify the risks and opportunities of our activities in order to effectively plan the implementation of protection, prevention, action and remediation measures.
- Promote the fight against climate change based on control, reduction of greenhouse gas emissions, adaptation and innovation towards the development of less carbon-intensive and environmentally friendly products.
- Promote the sustainability of natural resources, introducing circular economy principles, encouraging the use of alternative raw materials and fuels.
- Reduce wastewater discharges and optimise water consumption.
- Favour the minimisation of waste, both hazardous and non-hazardous, encouraging reduction, reuse or recycling, including energy recovery as opposed to disposal or dumping.
- Conserve the natural environment of the facilities by adopting measures to reduce, mitigate or restore any adverse impact on the environment caused by our extractive activities, preserving biodiversity.



LetsRecycle Excellence Awards and double victory for FCC Environment

FCC Environment has received two major awards at the 'LetsRecycle' Awards for Excellence. The awards recognise companies for their achievements in recycling, waste reuse and waste reduction.

Net Zero Contribution category for the project "Reuse and Repair".

FCC Environment is committed to achieving "net zero" and reducing its carbon footprint, considering that repair and reuse are at the heart of reducing emissions by keeping items in service for longer and avoiding the manufacture of new ones.

VIEW WINNING PROJECT

Civic Amenity of the Year category to High Wycombe.

Buckinghamshire Council's High Wycombe Household Recycling Centre (HRC) has been voted best in the country in the 'Let's Recycle' awards for excellence in recycling and waste management. An example where council, public and operators have joined forces to make a tangible, real and measurable difference.

VIEW WINNING PROJECT

A Canal Sur TV report on water management in the face of climate change, winner of the **7th Aqualia Journalism Award**



Family photo of the winning journalists at the 7th edition of the Aqualia Journalism Awards.

The report for the television programmes “Tierra y Mar” and “Espacio Protegido” on the Andalusian regional channel Canal Sur TV, directed by José María Montero and presented by Ángela Blanco, has won out of the 60 journalistic works presented in this edition of the 7th Aqualia Journalism Award. The work, which was broadcast on the occasion of the celebration of the National Congress on urban water supply, sanitation and treatment in Cordoba in September 2022, aims to draw attention to the role of water management companies in their work to bring water to homes and return it to the environment in optimal conditions, a process that is made more difficult by climate change. “In this new scenario, water must be more highly valued. Our well-being and the balance of nature depend on it,” say the creators of the report.

In awarding the first prize, the jury valued “the informative approach and the quality of the report, which helps to raise awareness of the challenges of water through a channel with a large local audience and a non-specialised public”.

The first and second runners-up prizes went to the articles published by Roberto López in La Razón on the price of water and losses due to leaks, and to the article by Roberto Zamarbide for La Gaceta de Salamanca on sanitation and purification in the capital of Salamanca.

Two special mentions were awarded to Pilar Fernández and Cristina Aguinaga for their work in Diario de Navarra and to Erika Fontalvo for her article in the Colombian newspaper El Heraldo.

The awards ceremony took place at the headquarters of the Press Association of Madrid.



José María Montero and Ángela Blanco, from Canal Sur TV, winners of the 7th edition of the Aqualia Journalism Award.

FCC holds the fifth edition of the Vive Saludable Awards

FCC has held the 5th VIVE Saludable Awards at its corporate headquarters in Las Tablas, Madrid. In this way, the FCC Group recognises the work and commitment to occupational safety, health and well-being of the different participating organisational units, thus highlighting the special importance of dedication to improving working conditions through best practices in occupational risk prevention and the promotion of health in the workplace.

The event was opened by Pedro Ledesma, who gave way to welcoming remarks by Felipe Bernabé García, general secretary of FCC. Also in attendance were the chairman of the FCC Group, Esther Alcocer Koplowitz, and the main executives of the company's business areas.

As in previous editions, the result was excellent. The winning candidates were selected from among almost 40 entries from all the organisation's geographical and business areas. The aim was to reward initiatives or actions carried out by FCC departments, teams, business areas or individuals that contribute to the consolidation of a culture of prevention and the promotion of health and well-being in the workplace.

The winners in the three categories "Prevention of Occupational Risks", "Health Promotion" and "Personal Mention" were as follows:



Family photo of the award winners.



Pedro Ledesma, head of occupational health and safety, FCC Group HR Department.

Category
Occupational risk prevention

Recognition of the commitment with proven effectiveness in the management of occupational risk prevention, specified in: significant milestones, implemented processes, innovative technical measures, entrepreneurial initiatives and any other fact that has favoured the control of these risks and the improvement of safety conditions.

First prize

- Project “Design and implementation of street cleaning trolleys” for Zone III of the Madrid Delegation - LV Zone 6 (Madrid) of the Environment area.

Second prize (shared)

- Candidature “LED lighting in the visitable galleries of the sewerage system” of Zone I of the Central Delegation - UTE Alacant Madrid Lot D of the Aqualia team.
- Project presented by the Construction area of Portugal “Demolition of beams, pillars and slabs by remote robot”, in the Luis Bívar Building.



Felipe Bernabé García, general secretary of FCC, during his speech.

Category
Health promotion

Recognition for the work of promoting healthy values, habits and practices, for the contribution to preserving and improving people’s health and well-being, and for innovative alternatives for a healthier working environment.

First prize (shared)

- Candidacy “Protocol for the management of health, well-being and especially adaptation of posts for particularly sensitive and older workers” presented by the Castilla y León branch of FCC Medio Ambiente.
- Five minutes of exercise at work programme” project submitted by the Álava, Vizcaya and Cantabria branch of the Bilbao Environment Internal Joint Venture.

Second prize (shared)

- Project “Prevention of musculoskeletal disorders” presented by the Aqualia team of the North-Asturias branch.
- Project “Emotional well-being in Aqualia: Covid-19 Challenge” presented by the Aqualia SSCC.

Category
Personal Mention

Professional recognition for employees who have made an outstanding contribution to improving health and safety in the workplace in their area of responsibility:

- Cipriano M. Castro González, production manager for FCC Construcción’s Middle East-Riyadh Metro.
- The maintenance team (Ángel Luis Sánchez Sánchez, Ángel Fernández Pérez, José Feito García, Idahosa Igbinovia Imiefan Collins, Rodrigo Loreto Peña, Juan Manuel Alcaide Mellén) of the Corporate Safety and General Services Department.
- Francisco Javier Casco Lozano, ETAP operator from Aqualia’s Extremadura office.
- Lara Martín Rodríguez, Valdemoro Garden Services technician for Zone III of the Environment Centre Delegation.
- Carlos Sánchez Serrano, factory manager of the Megaplas, S.A. Industrial Area.
- Paulino Romero Nevado, head of Zone, Inspection and Sewerage Cleaning of Zone III of the Barcelona Capital and Balearic Islands Branch of FCC Medio Ambiente.
- Amandino Da Silva Moura and Manuel Pereira, general managers at RRC, Area I of Portugal for FCC Construcción.

The solidarity of FCC employees has contributed to **improving the lives of 333 patients** after the last **blood donation campaign**



Thank you all for your solidarity and generosity!

The participation of FCC employees in the last blood donation campaign launched with the Red Cross in March at the company's corporate headquarters in Las Tablas and Federico Salmón (Madrid) has once again had a very favourable impact in view of the permanent need for blood in hospitals and the demand for transfusions.

The solidarity of the donors who have approached the Red Cross mobile units has contributed to improving the lives of 333 patients. This figure has been possible thanks to the effective participation of 111 people in this challenge, whom the humanitarian institution would like to thank for their willingness, as a great example of generosity and collaboration, as well as those who, despite not having been able to do so, wanted to join the initiative.

Thank you all for once again contributing to this cause of solidarity, "CoRazones que se buscan CoRazones que donen sangre", and for joining forces with the commitment to SDG 3 Health and Wellbeing, one of the 17 SDGs reflected in the United Nations 2030 Agenda.

One donation, three lives

FCC and the Red Cross work together every year to progressively register a greater number of donors and continue to raise social awareness of the permanent need for blood in hospitals and the demand for transfusions to help other people.

Each blood donation can save up to three lives, which is why they are needed constantly and regularly, so that the reserves are maintained and do not go into red alert. The involvement, collaboration and solidarity of everyone is essential, because with simple gestures like this we are saving a large number of lives.



FCC's Running Club runs again for a good cause



The FCC Running Club took part in the Wings for Life World Run, held last May 2023 in Campo de las Naciones (Madrid). A race in which all participants start at the same time, all over the world, more than 14,600 teams. It doesn't matter if you are a professional athlete, an athlete for fun, or a beginner. There is no finish line. Instead, 30 minutes after the start, the Catcher Car starts its chase, overtaking runners and wheelchair participants one after the other.

100% of the entry fee and donations go directly to spinal cord research and will help to cure spinal cord injuries.

The permanent attention to the safety, health and well-being of people in the workplace is a distinguishing feature of our organisation, making initiatives such as the Vive Saludable project grow, a commitment to the well-being of the people who form part of FCC.

FCC Medio Ambiente takes part in the **"Ponle Freno"** race in Zaragoza



Last May, part of FCC Medio Ambiente's staff in Zaragoza took part in the "Ponle Freno" race, a solidarity event for road safety, the entire proceeds of which will go to a project in favour of traffic victims.

This initiative shows FCC's active commitment to road safety, and this activity has also managed to encourage the habit of sport among the company's workers



Children, relatives of FCC workers at the 5th Children's Road Safety Day.

FCC holds its **5th Children's Road Safety Education Day** in collaboration with **Alcobendas Town Council**

FCC, in collaboration with Alcobendas City Council, organised the 5th Children's Road Safety Day, a family activity that took place on Saturday 3 June 2023 at the Alcobendas Road Safety Education Park, with fun and educational activities on road safety for children and family members of FCC employees.

The children's programme was structured in two parts: a theoretical module lasting about an hour, which aimed to raise awareness of proper behaviour on the roads as pedestrians, travellers and bicycle drivers, and a practical module that took place on the park's circuit, with routes on foot and in go-karts, vehicles provided by the park to carry out the activity and experience a real traffic and circulation situation. Both actions were led by the Alcobendas Local Police.

As a company committed to sustainability, FCC has framed this initiative within its corporate welfare objectives, and with this experience it aims to raise awareness of the importance of road safety education in a close and familiar context, while sharing a relaxed and entertaining time among the people of the company and their families.







> Both projects have a total value of 800 million euros





FCC Construcción continues to grow in Romania with two new railway contracts

The two new sections awarded to FCC Construcción by the National Railway Company (CFR) are Lugoj-Timisoara Est and Ales-Poieni. Both projects have a total value of more than 800 million euro and 42 months of execution, including six months of design.

Lugoj-Timișoara Est section

The Caransebes-Timisoara-Arad line consists of the remodelling and duplication of an existing 54-kilometre section of electrified single track, with the aim of reaching a speed of 160 km/h for passenger trains and 120 km/h for freight trains. In addition, the drainage works will be enlarged and the carrying capacity of the platform will be increased with the necessary material replacements and consolidations, and the superstructure will be completely renovated.

All stations and platforms will be upgraded to increase their capacity and meet new technological needs, and all buildings will be renovated in terms of installations and finishes. Pedestrian walkways will be built and platforms will be lengthened and raised to comply with European standards.

Aleșd-Poieni section

This is the Cluj-Episcopia Bihor line, which is 52 km long and includes the modernisation of Bratca and Alesd stations, seven stations and the construction of six stops.



Railway section of the Pan-European Corridor in Romania.

> After completion of the projects, passenger trains will be able to run at a maximum speed of 160 km/h, and goods trains at 120 km/h

In addition, renovation of 10 bridges and 91 drainage works, two tunnels in Şuncuiuș and Peștera, construction of two new overpasses and modernisation of 31 level crossings will be carried out.

Both projects include signalling works with the implementation of the ERTMS system (ETCS level 2 and GSM-R) along the entire route, as well as electrification works and modernisation of the railway infrastructure and superstructure.

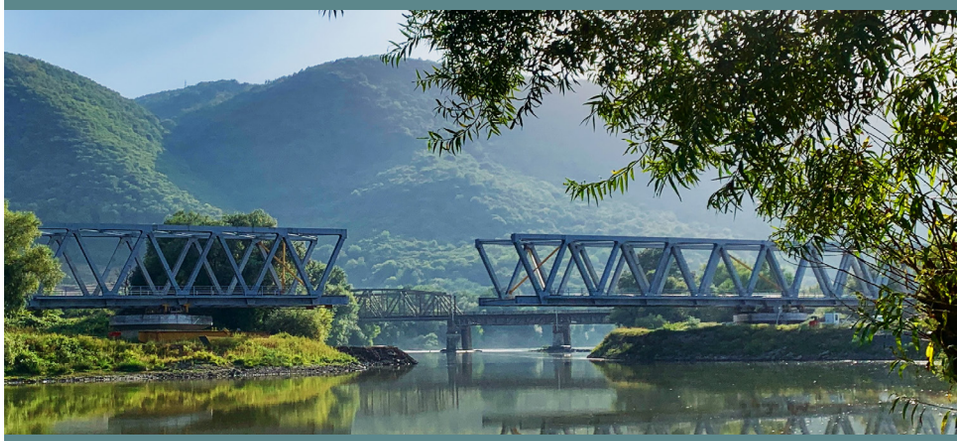
After the completion of the projects, passenger trains will be able to run at a maximum speed of 160 km/h, and goods trains at 120 km/h.

The company is currently executing three works on Pan-European Corridor IV: Section 3, Gurasada-Simeria, Section 2a and Section 2b with a cumulative length of 119 kilometres. These works are currently more than 80% complete and are aimed at increasing the commercial speed to 160 km/h. Pan-European Corridor IV connects Dresden with Istanbul.

FCC Construcción has been executing railway contracts in Romania for CFR since 2012 without interruption.

VIDEO

The history of railways in Romania



The first railway line in Romania was inaugurated in 1869, linking the capital Bucharest with Giurgiu, although the first railway, on the current Romanian territory, was inaugurated in 1854, between Oraviţa and Baziaş, in the Banat, a region which at that time was under the administration of the Austrian Empire and became part of Romania after the First World War.

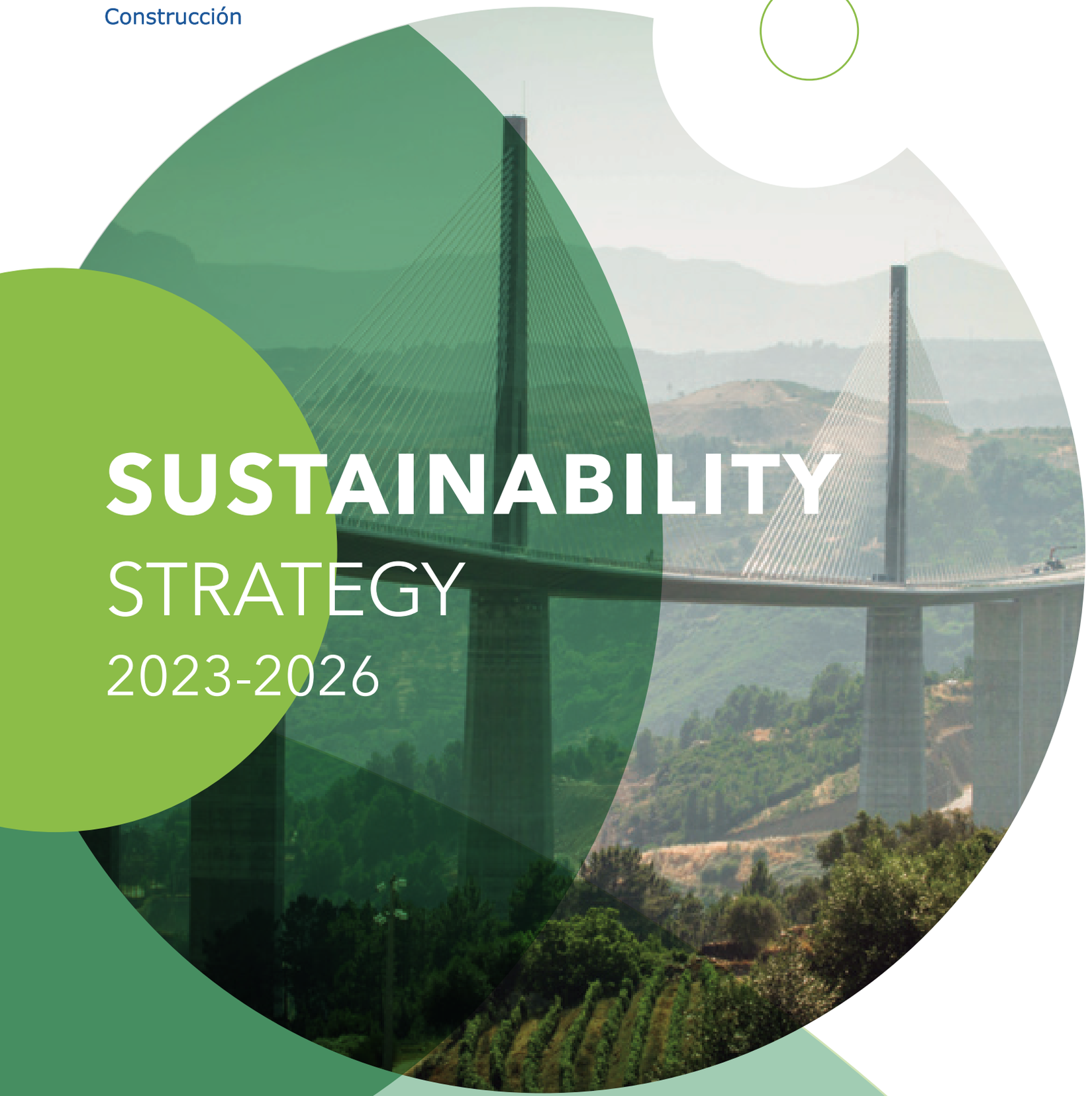
After the Great War, the Kingdom of Romania received the regions of Transylvania, Bessarabia and Bukovina, forming Greater Romania, which meant that part of the railway lines controlled by the Austro-Hungarian and Russian Empires became part of the Romanian National Railway Company (CFR), as well as the large railway construction and iron and steel works in Arad, which made it possible to build new tracks and locomotives.

After the fall of the communist regime in 1989, Romania had one of the largest and densest networks in Europe, although its infrastructure was rather obsolete. During the following years, lack of maintenance and investment led to the deterioration of the railway network. As an example, the current speed of goods trains is 15 -17 km/h.

At the beginning of 2000, Romania embarked on a programme of modernisation of infrastructure, infrastructure automation and rolling stock. The “National Plan for Reconstruction and Resilience”, approved in 2021, is currently being implemented, with a budget of 5 billion euros for the improvement of rail transport.

The managing and operating entity of the railway network in Romania is CFR which, with 143 years of history, has one of the most extensive networks in Europe with almost 11,000 kilometres of operational lines, mostly standard gauge, 969 stations, around 200 tunnels and more than 6,000 bridges. Romanian railways are part of the European Corridors IV and IX.

FCC Construcción



SUSTAINABILITY STRATEGY 2023-2026

Approval date 31/01/2023

FCC begins renovation work on the **Placer County Environmental Complex in California (USA)**



WPWMA board members and FCC Environmental Services executives, from right to left: Bonnie Gore: councillor, Placer County; Shanti Landon: councillor, Placer County; Scott Alvord: president, City of Roseville; Bill Haldin: councillor, City of Rocklin; Dan Brazil, vice president of Operations, FCC Environmental Services; Dan Karleskint: councillor, City of Lincoln; and Andrea Rodriguez, director of Engineering, FCC Environmental Services (Copyright and photo credits courtesy of Western Placer Waste Management Association).

FCC Environmental Services, a subsidiary of FCC Servicios Medio Ambiente in the United States, has begun work on the renovation of the Placer County Waste Recycling Centre in California (USA), with a groundbreaking ceremony organised in the city of Roseville by the Western Placer Waste Management Authority (WPWMA). The event kicked off the construction phase of the contract, which will involve a total investment of 120 million dollars (about 110 million euros) and which, along with its operation, was awarded to the company in April 2022.

This contract will employ 215 people and represents a potential portfolio of 1.5 billion dollars (around 1.37 billion euros) for a term of up to 20 years. The recycling complex will be one of the world's largest plants of its kind, with a capacity of 650,000 tonnes per year.

The new facilities will be state-of-the-art and will include a new materials recovery plant, a construction and demolition waste recycling

> It will be one of the largest plants of its kind in the world, with a capacity of 650,000 tonnes per year

plant, a composting facility and a maintenance workshop, all with the aim of maximising the diversion of waste from landfill using the latest technology.

FCC Environmental Services has been managing more than 600,000 tonnes of waste per year for the WPWMA since the start of the contract in July 2022. The company manages the facility and is committed to the improvements of the renovation project, which will increase the overall recycling rate, reduce odours and maximise the waste-to-resource process.

> This contract represents a portfolio of almost 1,400 million euros

FCC in the United States

It provides comprehensive waste management and recycling services to more than 11 million Americans and is one of the 15 largest companies in the sector in the United States, with a presence in the states of California, Texas, Florida, Nebraska and Iowa. In the last 12 months it has signed contracts worth $2.1 billion (around 1.92 billion euros).



Placer County Waste Recycling Center in Placer County, California (USA).

Placer County

Placer County has 410,000 inhabitants and is located a few miles from Sacramento, the capital of the state of California, whose metropolitan area has 2.2 million inhabitants. The contract, which will begin on 1 July, is to refurbish, modernise and operate the county's existing 130-hectare Municipal Solid Waste Management Authority complex to transform it into a high-level waste recovery and recycling centre.

The Phoenix project **puts Almeria ahead of the new European** requirements for reclaimed water for agriculture.



Pressing the start-up button at the demonstration plant.

Aqualia is leading this innovation project to test new low-cost treatments for the reuse of treated water for agriculture and the elimination of emerging pollutants and microplastics.

Last April saw the official inauguration of the European innovation project Life Phoenix, led by Aqualia, at the El Toyo wastewater treatment plant (WWTP) in the capital of Almeria, where a demonstration plant has been installed to test different low-cost technologies for the reuse of urban water from medium to large populations in agriculture.

The mayor of Almería, María del Mar Vázquez, opened the event, which was also attended by the Deputy Delegate of the Spanish Government, José María Martín; the Regional Minister of Agriculture, Fisheries, Water and Rural Development, Carmen Crespo; and the Spanish Director of Aqualia, Santiago Lafuente.

After the various speeches by the authorities, a commemorative plaque was unveiled, the symbolic start button of the demonstration plant was pressed and there was a guided tour of the facilities, during which the project's team of researchers explained the different technologies that are already in operation.

Treated water “reborn” with the Phoenix project to respond to water shortages

With forecasts predicting a gradual rise in temperatures over the years and greater danger of persistent drought, the need to find alternative sources of water supply for agriculture is becoming more pressing, especially in areas such as Almeria, where the primary sector is the main economic driver.



Influent water to the WWTP and regenerated water after treatment.

Treated wastewater is seen as a solution to this problem in a country where, although it is the leader in Europe, only between 7 and 13% of this water is reused, according to the Spanish Association of Desalination and Reuse (AEDYR).

But to be able to use this treated water in agriculture, it must meet a series of quality standards that will become even stricter this year when the new European Regulation on water reuse approved by the European Parliament comes into force on 26 June: Regulation (EU) 2020/741. This sets minimum quality and control requirements to ensure that reclaimed water is safe for agricultural irrigation, thus ensuring a high level of protection for the environment and human and animal health, promoting the circular economy, supporting adaptation to climate change and tackling water scarcity.

It is within this framework that the Life Phoenix project was born, in which

> “Life Phoenix seeks to convert wastewater into a high-value element for reuse in agricultural irrigation in a safe and efficient way”

> “Treated wastewater is seen as a solution to this problem in a country where, although the leader in Europe, only 7–13% of wastewater is reused”

Aqualia and its partners seek to convert wastewater into a high-value element for reuse in agricultural irrigation in a safe and efficient manner, in accordance with these new standards imposed by Europe.

The project, which is part of the European LIFE programme, has a budget of more than 3 million euros and is made up of an international consortium, led by Aqualia, made up of 8 entities, including international partners such as Águas de Portugal and the Dutch company MicroLAN; national partners such as CETIM and Newland EnTech; and Spanish public entities such as the University of Almería, the Provincial Council of Almería and the Hydrographic Confederation of the Guadalquivir (CHG).

LIFE Phoenix also faces the growing challenge of emerging pollutants and microplastics, which cause problems in current purification systems, as they are difficult to eliminate and often end up in seas and rivers, posing a serious environmental risk.

REUSA, a platform for experimentation in water reuse in **Almeria**



View of the El Toyo wastewater treatment plant in Almería.

This research platform also includes the **Life Incover** project, completed in 2019 but whose facilities are still underway at the El Toyo WWTP, where microalgae are cultivated on an industrial scale in a 3,000 m^2 lagoon, known as raceway, and wastewater treatment is carried out thanks to the algae-bacteria symbiosis. The water obtained from this process meets the most demanding parameters in a sustainable, simple way and with energy savings of up to 80% compared to a conventional treatment plant.

REUSA also includes the **Life Ulises** project, which is being developed at the El Bobar WWTP and aims to revolutionise conventional purification processes through a set of innovative technologies that not only regenerate water suitable for agriculture, but also produce valuable resources, such as biofuel for vehicles or agricultural biofertilisers from wastewater.

The project also aims to reduce energy consumption and the carbon footprint associated with water treatment by increasing the efficiency of a conventional wastewater treatment plant.
All these projects, led by Aqualia, show the company’s potential in R&D and its commitment to Almeria as a spearhead in the application of new technologies that provide value and innovative solutions to the environmental, economic and social needs of the region from the perspective of sustainability.

HIPPO, the innovative system for cleaning drainage pipes on roads, streets and railways

FCC Austria Abfall Services is recognised as an expert in the field of pipe and drain cleaning by its sewage and sewer cleaning department. Proving to be a viable partner for our customers who demand the maintenance of sewer and drainage pipes as well as the treatment of wastewater in our plants.

Its experience, coupled with its modern and efficient fleet of vehicles, enables the execution of projects ranging from inspection to customised cleaning solutions. In this line, the company also helps significantly to prolong the life of the installations and drains.

In addition to its fleet of dedicated suction trucks for cleaning sewers and sewage treatment plants, it also offers unique solutions for cleaning circular and long drainage pipes.

Cleaning of pipe drains in arterial streets and railways

All tunnels are equipped with sewer systems for the drainage of water that accumulates inside the tunnel. However, these systems can become clogged due to calcareous sediments in the water, especially in mountainous regions. This can have negative consequences for the drainage system, such as the reduction of the pipe cross-section, which decreases the water drainage capacity or even the clogging of pipe slots and openings.

Therefore, to ensure proper and safe operation of tunnels, it is important to keep the drainage systems clean, which is an important part of the maintenance costs of tunnels. In 2016, Austria's national rail provider ÖBB issued a tender for the cleaning of tunnel drainage systems with reduced operational interruption intervals. FCC won the tender and has been cleaning the drainage systems of these ÖBB rail tunnels since November 2017, using our high-pressure pipe cleaning system - HIPPO - which was specially developed to meet the unique requirements demanded by customers.

In addition, in February 2022, FCC AT again won the tender for the cleaning of the ÖBB Wienerwald tunnel for three years.

HIPPO 600

VIDEO



The HIPPO 600 high-pressure pipe cleaning system was originally custom-developed for the "Wienerwaldtunnel" (Vienna Forest Tunnel) near Vienna in Austria, but it is still a flexible method that can be used in different types of drainage systems.

HIPPO 1500

VIDEO



Between 2018 and 2022, FCC participated in the European Union's 30-month Horizon 2020 Shift2Rail Joint Undertaking, also known as "Assets4Rail".

During this EU project, the HIPPO 600 was upgraded to the HIPPO 1500, a new longer-distance HIPPO that still retains all the advantages of the 600-metre equipment. Under non-optimal conditions during validation tests, the HIPPO 1500 was able to reach a maximum operating length of 1,024 metres. If tunnel conditions are suitable, cleaning lengths of up to 1,500 metres can be achieved, according to the tests performed. Over longer distances, cleaning and complete documentation can still be carried out as usual, but the big advantage is the reduced disruption to rail tunnels. HIPPO 1500 is an extremely manoeuvrable machine, which can be flexibly adapted to the circumstances and needs of the customer.

2022 edition of the Fomento Awards ceremony



Delivery ceremony of the Fomento Awards in its 2022 edition.

FCC Construcción presented the 2022 edition of the Fomento Awards at its corporate headquarters in Las Tablas, Madrid. The aim of these historic awards is to recognise the most outstanding teams in the implementation of management and sustainability principles, the application of best practices and excellence in execution and processes.

In addition to the award winners, the ceremony was attended by the manager of Spain, Portugal and the industrial area, the manager of the Middle East and Australia, the manager of Western Europe and the general manager of FCC Industrial.

Fomento Quality Award

Mersey Bridge Works, Area II,
United Kingdom



Fomento Award for Innovation

UTE Fotovoltaica Puertollano Project: bifacial photovoltaic panel. Area V, FCC Industrial



Fomento Awards

These awards were created in 1995, in accordance with continuous improvement, to recognise the effort in the implementation of the principles of quality management during the development and execution of works.

Subsequently, the Fomento de la Innovación award was established to recognise actions related to research, development and innovation in the field of construction.

The purpose of these annual awards is to recognise the high levels of technical qualification, innovation and capacity of the projects developed by the company throughout the world.

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