Communication Network

News for the people of FCC

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New edition of the International Eco-Efficiency Awards

Crossrail, a maze under the heart of London

FCC environmental a powerful team for expansión in the U.S.

InfoAqualia , a new client communication channel is born

FCC employees with WWF-Spain play a key role in the II Reforestation Seminar

Dow Jones Sustainability Indexes

Dow Jones assesses FCC's commitment to human capital and ethics

Summary

Cover
FCC Environmental, a powerful team for expansión in the U.S.

Corporate
New edition of the International Eco-Efficiency Awards
Pág 4
Dow Jones assesses FCC's commitment to human capita and ethics
Pág 6
FCC Construcción and FCC Industrial Debut Their New Web Site
Pág 8

Business
Top speed with recycled oil
Pág 15
FCC inaugurates its first solar thermal power plant, in Palma del Río, Córdoba
Pág 16
The Regional Government of Gran Canaria visit the first tyre recycling plant
Pág 18

People
Aqualia supports one of the most important mountain bike races
Pág 37

Social Responsibility
FCC employees play important role in the 2nd reforestation campaign with WWF-Spain
Pág 42
Comic book and yoga workshops at the Nuestra Casa de Collado Villalba (Madrid) retirement home
Pág 45

Well-being
FCC committed to Road Safety
Pág 54
Supporting the activities of the European Mobility Week
Pág 56

Knowledge
The new InfoAqualia client communication channel is born
Pág 60

The Place
Crossrail, a maze under the heart of London
Pág 64

Communities
Houston, a large city in a huge State
Pág 70

New edition of the International Eco-Efficiency Awards

Your idea for improving the world will take you to the Maya Riviera in México!

For the third consecutive year, FCC is organizing the "Eco-Efficiency Awards" to reward ideas or projects submitted by FCC employees to encourage sustainable development, the optimisation of natural resources, and the use of new technologies to benefit the environment.

A new concept has been created for this edition of the award which will accompany the prizes and summarises the objectives of FCC with this initiative that was launched three years ago. "Ideas that change the World" aims to encourage all employees who participate and make them aware that their ideas and actions can change the world. A trip to the Mayan Riviera in Mexico will be the prize for your idea to improve the world.

All FCC employees who wish to participate, alone or as part of a group, will be able to participate in this contest which is divided into two categories:

- Efficient idea/project that contribute to improving the life of the community.
- Efficient idea/project that improves the company's earnings performance.

A prize will be awarded for each category. This year, the prize is a 5-day trip to Mexico, all expenses paid, for two people or the possibility of changing it for a cash prize. Honour diplomas will also be awarded at the discretion of the panel of judges.

FCC employees who are interested in participating in the Eco-Efficiency Awards may obtain the participation forms at their work sites or download it from intranet.

We want to promote eco-efficiency among the team and achieve, as in previous editions of this contest, a high rate of participation to make eco-efficiency a trademark of the company and an intrinsic part of FCCs on a day-to-day basis.

We encourage you to contribute your ideas and to spread the word to other company departments, encouraging the involvement of people who are part of the FCC Group.

Link to the PDF document: Download the terms and conditions of the contest.

Link PDF document: Download the form

III Edición
Premios a la
Ec
-eficiencia

Una idea con destino: Riviera Maya

Ideas que cambian el mundo

FCC
Servicios Ciudadanos

Dow Jones assesses FCC's commitment to human capital and ethics

Dow Jones Sustainability Indexes

Renews its presence in the sustainability index

The Citizen Services group, has been included in the prestigious Dow Jones World and Europe Sustainability Indexes (DJSI) for the fifth consecutive year.

FCC's focus on corporate responsibility has obtained international recognition once again. FCC, the Citizen Services group, has been included in the prestigious Dow Jones World and Europe Sustainability Indices (DJSI) for the fifth consecutive year. In particular, Dow Jones highlighted FCC's focus on developing human capital and on ethics and integrity in business.

In the area of human capital development, FCC placed particular emphasis this year on employee training. In this connection,

the Strategic Human Resources Plan led to the implementation of an organisation structure model based on responsibilities and competencies, and the integration of compensation and benefit policies and models.

The Group is currently redesigning its performance evaluation systems so that they apply uniformly to all employees. Specifically, Dow Jones gave FCC the highest possible score in the Development and Human Capital area. It also obtained the highest score in the areas of Transport & Logistics and in efficiency and resource conservation.

FCC also greatly enhanced its score in the Ethics and Integrity area this year. This good score recognises the new tools implemented by FCC to ensure compliance with its Code of Ethics.

Along these lines, the Group created a Response Committee whose function is to publicise and oversee compliance with the Code of Ethics, draft amendments, and draw up a manual for preventing ethics breaches and responding to crimes. That manual establishes procedures for identifying behaviours that pose crime risk, and for implementing internal controls in the business areas.

Climate change

FCC's policy on climate change also obtained a notable increase in score in the Dow Jones Sustainability Indexes. DJSI rated the creation of the Group's Climate Change Committee and the strategy designed by the Committee, which will be approved in the near future. Key aspects in this area were the sustainable management of the vehicle fleet and initiatives related to energy efficiency and water consumption.

Lastly, other factors that increased FCC's score included risk and crisis management, and workplace health and safety. In particular, the workplace accident rate declined year-on-year. This performance is attributable to such action as the approval of the Group's new Workplace Safety Policy, the production of the Corporate Manual on Workplace Health and Safety, the first edition of the Safety Awards, specific awareness-raising campaigns, and a number of safety training measures.

FCC Construcción and FCC Industrial Debut Their New Web Site

FCC Construcción and FCC Industrial debut their new web site today. It's designed to make for better customer service and a stronger brand image in the FCC Group's Infrastructure business area. It adheres to the graphic style set by the FCC Group web site, so as to project a unified image.

Each firm has defined its page's architecture, factoring in each business's needs.

The brand-new features available include:

- A more intuitive design.
- A clearly discernible organizational structure.
- Updated information.
- Quality images.
- An open channel for communication and dialogue with the different communities where FCC operates.

This initiative is one of the ways FCC is living up to its responsibility in information transparency, with the goal of connecting with its stakeholder groups in dialogue and cooperation to respond to stakeholders' expectations.

The FCC Construcción Web Site

The contents of FCC Construcción's web site have been revamped and updated to provide users with high-quality, up-to-date content.

One of the big new features is a section on people, which covers all the company's human resource policies. The section's aim is to attract new talent and keep top talent engaged, and it talks about the campaigns that are currently under way. In addition, the Innovation and Development section includes information about FCC Construcción's patents.

The new web site has a media room, a place where journalists can find breaking news and multimedia information.

The directory has also been updated to show every place where FCC Construcción can be found all over the world.

FCC Construcción

Idioma | Mapa web | Contacto | Sala de comunicación | Buscar

22-nov-2012 20:29:11 | Madrid 5ºC Barcelona 10ºC

Área corporativa | Sostenibilidad | Actividades | Obras singulares | Innovación | Personas | Actualidad

Acerca de FCC Construcción

16/11/2012

FCC colabora con la XXII Cumbre Iberoamericana con la ...

FCC ha colaborado con el desarrollo de la XXII Cumbre Iberoamericana, que se celebra en Cádiz los días 16 y 17 de este mes en Cádiz. El grupo de Servicios Ciudadanos ha realizado las obras de acondicionamiento de la antigua estación de ferrocarril de la capital gaditana.

El interior de estas instalaciones se ha ...

más información ▸

14/11/2012

El Pacto Mundial de Naciones Unidas distingue el Informe de ...

FCC Construcción ha presentado el Informe de Progreso de 2012, communication on progress, conforme a su compromiso con El Pacto Mundial, describiendo sus actuaciones, resultados y objetivos respecto a cada uno de los Diez Principios del Pacto Mundial. Este año se ha añadido una auto-evaluación.

El Informe ha ...

más información ▸

08/11/2012

FCC refuerza su liderazgo en Centroamérica con nuevos contratos ...

Dos nuevos contratos consolidan la posición de FCC como empresa líder en Centroamérica. La construcción de la carretera de acceso a la costa y al este del proyecto Mina de Cobre en Panamá y el desdoblamiento de la carretera Interamericana Norte en Costa Rica refuerzan la hegemonía del Grupo de Servicios ...

más información ▸

FCC Industrial

English | Mapa web | Contacto | Buscar

22-nov-2012 20:27:53 | Madrid 5ºC Barcelona 10ºC

Área corporativa | Actividades y servicios | Sostenibilidad | Obras singulares | Actualidad

Acerca de FCC Industrial

25/10/2012

FCC Construcción y FCC Industrial estrenan nueva página web

FCC Construcción y FCC Industrial estrenan hoy nueva página web. El proyecto persigue reforzar la imagen de marca de estas compañías del área de infraestructuras del Grupo de Servicios Ciudadanos y mejorar el servicio a los clientes, manteniendo como línea gráfica el diseño de la web del Grupo FCC para proyectar una imagen ...

04/10/2012

FCC Construcción publica su Memoria de Sostenibilidad ...

FCC Construcción ha publicado su Memoria de Sostenibilidad 2011-2012, redactada de acuerdo a las recomendaciones del Global Reporting Initiative, asociación independiente que desarrolla y difunde una guía estándar mundial para la elaboración de memorias de Sostenibilidad con los indicadores recogidos en el ...

13/09/2012

Dow Jones valora la apuesta de FCC por el capital humano y la ...

La apuesta de FCC por la responsabilidad corporativa ha obtenido un nuevo reconocimiento internacional. El Grupo de Servicios Ciudadanos ha sido incluido por quinto año consecutivo en los índices de sostenibilidad elaborados por Dow Jones, tanto en su apartado mundial como en el europeo. La compañía de índices ...

The FCC Industrial Web Site

The FCC Industrial portal is the information platform for FCC Construcción's industrial firms, FCC Actividades de Construcción Industrial, FCC Servicios Industriales y Energéticos, Prefabricados Delta and Megaplas, which have all been doing business under the FCC Industrial umbrella name since late 2010.

.

The new web site provides a window into the company, where people can find information about FCC Industrial's main business activities and services and a selection of pacesetting projects, so new clients can see just what FCC Industrial is capable of. This channel is yet another step forward in the consolidation of the FCC Group's youngest brand name.

Cemusa also revamps its website

A global leader in outdoor advertising segment, Cemusa's activities range from the design, installation, maintenance, and the use of advertising in high-quality city furniture adapted to the specific landscape of each environment.

Cemusa's new website was upgraded and expanded and now includes more information on the activities that it carries out throughout the world in the countries where it operates. Conceived with a simple and more agile design, modern and highly visual, it offers information on the company, its philosophy, the outdoor media, its advantages, advertising campaigns and new designs.

The company, with this new website, wants to put its broad experience at the disposal of city councils, transport agencies, airports, commercial centres, and other public and private entities thereby contributing to the beauty, functionality, and economic development of cities.

The company also created a new presentation format for experts who work with Cemusa in designing urban furniture, including information on the collaborators who joined the company's team recently.

The new page includes links to Cemusa Tec's mini-site which provides information on technological solutions for digital communication and other innovative projects. It also includes Rambla Digital, a dynamic product reinventing the newspaper stands at the Ramblas (one of the main boulevards in Barcelona) thanks to which, Cemusa offers its clients an advertising support with great impact in Barcelona's most commercial and tourist district.

Link: www.cemusa.es

Third International
FCC Human Resources Conference

The third international conference on FCC Human Resources was held on 10 and 11 October in El Escorial (Madrid). The directors and managers from this department from the main countries or geographical areas where FCC operates participated in this meeting, including those from Spain, the United States, Austria, the United Kingdom, Central America, Czechoslovakia and Central Europe.

Headed by Francisco Martín Monteagudo, the managing director of the FCC Group Human Resources division, the meeting is held annually. The objective of this initiative is to bolster the functions of this department, establishing the strategies, combining policies and determining the synergies to be able to develop a service focused on business needs, greater quality, and which improves the efficiency of the company's most important assets: its human resources.

> "Creating value through people"

The workshops organized for this conference focused this year on creating value through people, focusing on human resources policies and projects that contribute to the company's current internationalisation drive, as a priority, under the premise of greater efficiency.

The contributions resulting from this conference are being considered in the preparation of the strategic lines that will be implemented from now until 2015.

FCC's technological tips

The enormous progress achieved in information and communication technologies has had a great impact in all areas of our society. Information technologies represent a great step forward in our daily lives, even though it may seem difficult for us to keep up with the progress achieved because of the deployment speed of these new technologies.

The Information Systems Division wants to address the demand for initiatives to transform these changes into opportunities for improvement and encourage greater use of these technologies, so that instead of an obstacle, these can be used on a daily basis.

As a result of this and with the intention of optimising the use of technological applications, the FCC Information Systems and Technology Division has created this space to offer "technological tips" to promote the proper use of these new technologies.

What are "Technological Tips?

These technological tips are step-by-step simulations that you can see in your PC which show, in a simple and clear fashion, the way to obtain the maximum performance from the software at our disposal. You can also check the user's manual in a PDF format.

What are the advantages of the "Technological Tips"?

- Save time and efforts that are not necessary: the most common tasks that seem long and difficult are made simple and advantageous for our daily work.
- You will learn about the functionalities of your software which you did not use before.
- You will also increase your knowledge and will be able to take advantage of progress achieved in information technologies.

"Technological Tips" have been created with a document management application known as Uperform. You do not have to install any new application in your computer and will not require any user account or password. To access these technological tips, all you have to do is go to:

http://fccnet/corp/ES/admin/syti/sa/tiptec/Paginas/tiptec_p.aspx

Viewing simulations

The Technological Tips and many other documents for helping the end user are being programmed using the RWD – uperform product that makes it possible to simulate the steps for obtaining a specific result in our PCs.

The aim of the tool is to standardise the training documentation prepared by information systems division and to create users' manuals. The following document explains how to use these simulations:

Link for viewing the simulations

Tip Tecnológico

Ya puedes visualizar el TIP del mes:

"Cómo usar la selección múltiple en SAP"

Aprende a explotar la gestión de la información en los informes SAPs lo más eficientemente posible minimizando el tratamiento posterior. Utiliza este procedimiento para cualquier informe de extracción de información que disponga de selección múltiple en alguno de sus campos.

¿Qué son los "Tips Tecnológicos"?

Los "tips tecnológicos" (ayudas tecnológicas) son simulaciones grabadas paso a paso, que visionarás desde tu PC, y te mostrarán de una forma sencilla y clara, la manera de obtener el máximo rendimiento a las aplicaciones informáticas que tenemos disponibles. También podrás consultar un manual de usuario en formato pdf.

Periódicamente os informaremos de las nuevas publicaciones de "tips tecnológicos" en la Intranet de FCC.

Ventajas de los "Tips Tecnológicos"

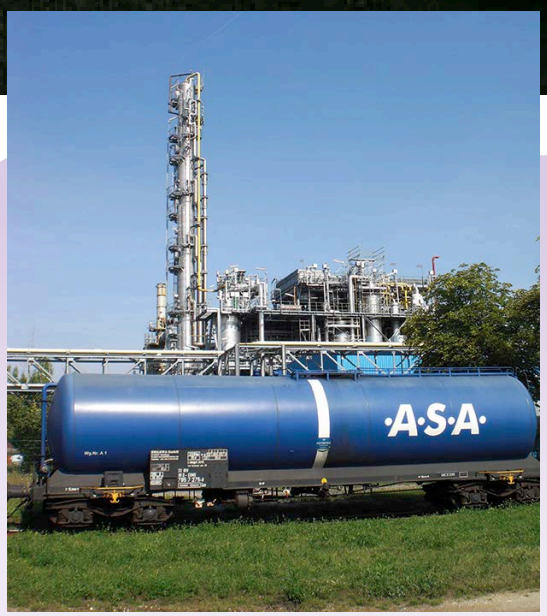
- Ahorrarás tiempo y esfuerzo innecesario: las tareas más comunes que resultan largas y pesadas pueden convertirse en sencillas y provechosas para nuestro trabajo diario.
- Conocerás funcionalidades de aplicaciones que ya tenías y no habías utilizado.
- Ampliarás conocimientos y te ayudarán a asumir el avance de las tecnologías de la información.

Esperamos que esta iniciativa sea de utilidad e interés para todos y te animamos a aplicar estos consejos.

División de Sistemas y Tecnologías de la Información

FCC Servicios Ciudadanos

Business



Waste management leader in Central and Eastern Europe

.A.S.A. Group, based in Himberg near Vienna, is the largest waste management company in Central and Eastern Europe, with a turnover of 377 million Euros in 2011. The company employs approximately 4,400 people, 3,800 of them in Eastern Europe. In 2011, the .A.S.A. Group was able to recycle a total of approximately 500.000 tons of waste (so called secondary raw materials such as paper, plastics, wood, used clothes, metals, refuse-derived fuels, fats, mineral oils) and sell to industrial companies as secondary raw materials.

Top *speed* with recycled oil

.A.S.A. uses a secondary raw material for racing sports

.A.S.A. Abfall Service AG, the largest waste management company in Central and Eastern Europe, with headquarters in Himberg near Vienna, and Puralube, the German market leader in used oil recycling, are strengthening their cooperation. Used oil from Austria is limbered up by .A.S.A. in the Puralube refinery near Leipzig, to be further used under the highest quality requirements, as it is the case in motor sports. During such races as ADAC GT Masters which took place in August at Red Bull Ring in Spielberg "secondary raw material in their engine" awards the racing team "wings".

Encourage the use of high-quality recycled oil

.A.S.A. and Puralube intend to increasingly focus on the developments in the automotive industry and to push the use of high-quality recycled oils. The companies plan to become the market leader in material recycling of used oil in Central and Eastern Europe.

Crude oil is running short; thanks to innovative technologies, used oil can be distilled today into the highest quality base oil and used in the production of lubricants for modern, efficient combustion engines. At the same time, the energy consumption is only half of that needed for the production of lubricants from crude oil.

Up to 0.7 litres of "new" base oil can be produced from 1 litre of used oil and is being used for engine, transmission and hydraulic oils. The quality is often better than that of base oils derived from crude oil.

Around 3 million tons of used oil is collected In the European Union each year; however, more than half of the collected amount is incinerated instead of being recycled. In Austria, more than 40,000 tons of used oil is collected annually, of which .A.S.A. recycles 11,000 tons.

> "The two partners intensify their cooperation in recycling used oil"

FCC inaugurates its first solar thermal power plant, in Palma del Río, Córdoba

The investment in the utility plant, which will produce 100,000 Mwh/year and cover the needs of a population of 26,000, was worth an investment of 280 million Euros.

> “More than 500 workers were involved in the construction of this plant, worth 280 million Euros, during peak activities”

It has taken FCC just over two years to complete the construction of its first solar thermal power plant in Spain. The Guzmán plant, in Palma del Río (Córdoba), was inaugurated this morning by Antonio Ávila, Minister of the Economy in the Andalusian Regional Government, and Eduardo González, General Manager of FCC Energía. The plant became fully operational just a few days ago.

FCC, the Citizen Services Group, created a 70:30 joint venture with Japanese company Mitsui to build the plant (50 MW), which cost around 280 million euro and involved more than 500 workers at its peak.

At the inauguration, Mr Ávila highlighted “the effects of this project, in local and overall terms, on advancing towards energy sustainability as a source of wealth and growth”. He also noted that Andalusia is the leading region in Spain in terms of solar thermal power facilities, with 950 MW operational (61% of the total in Spain), and it exports that technology through innovative

R&D projects, which are then developed at Andalusian universities and at the Solar Platform and the Advanced Technology Centre for Renewable Energy, both in Almería. Córdoba is the second Andalusian province in terms of installed solar thermal capacity, accounting for 31% of the regional total.

Mr González noted that Guzmán "represents a milestone for FCC because it exemplifies our progress in renewable energies. We headed the development, funding, construction and operation of the plant with the invaluable help of our partners: Mitsui, on the investment side, and FCC Industrial, Abantia and Seridom, on the construction side".

The plant will benefit from its ideal location in Palma del Río: it is one of the best sites in Europe in terms of insolation, and it has easy access to water and gas supply and suitable power offtake structures. The plant will produce enough energy to meet the electricity needs of 26,000 people (around 100,000 MWh) and will reduce emissions by approximately 100,000 tons of CO_2.

The Regional Government of Gran Canaria visit the first tyre recycling plant

The production capacity of the only facility of its kind in the Canary Islands is 7,000 tons of granulated rubber per year, equivalent to the asphalt used to cover 1,000 kilometres of roads.

From left to right: the Regional Minister of Assets and Water of Gran Canaria Island; Francisco Miguel Santana Melián; the councilman for Urban Development, the Environment, Assets, and Contracting of the Telde (Las Palmas) City Council; Francisco A. López Sánchez; María del Mar Arévalo Araya, regional minister of the Environment and Emergencies; Jesús Mª Núñez Imaz, Managing Director of Signus Ecovalo; the regional minister of Public Works and Infrastructures of the Gran Canaria Retional Government, Carlos Alberto Sánchez Ojeda; and Francisco Javier Fuentes Martín, the Director of FCC Ambito's Centro-Levante-Canarias Regional offices.

María del Mar Arévalo Araya, regional minister of the Environment and Emergencies, and Carlos Alberto Sánchez Ojeda, the regional minister of Public Works, Infrastructures, and Water of the Gran Canaria Council, visited the used tyre recycling facility run by GENEUS Canarias (owned by FCC Ámbito, an FCC Group subsidiary) which was awarded the project in a tender organized by SIGNUS in 2008 to build these facilities and to provide this service.

Worth an investment of five million Euros, the facility which started operations in May 2012, has an annual recycling capacity of 10,500 tons, that is, the total number of tyres generated in the Canary Islands. According to SIGNUS data, 8,530 tons of used tyres were collected in 2012 of which 958 tons were handled in the autonomous community (for second-hand sales and for retreading) while the remaining amount was transferred outside the islands to be used in waste-to-energy facilities.

The start of operations of this recycling plan will contribute to achieving two objectives: firstly, that all unused tyres in the Canary Islands can be recycled at these facilities; and, secondly that all recycled products can be used in different applications and, preferably, in the islands.

The Gran Canary City Council has shown in this visit its interest in gaining first-hand information on the functioning of this plant, including the possibilities that it offers that will benefit the entire population of the population in the islands.

In the centre, María del Mar Arévalo Araya, regional minister of the Environment and Emergencies, with employees from the tyre recycling plant.

From left to right: Francisco Millán, head of Administration; Gonzalo Molina, director of the contractor; Andrés López, driver; Alberto Amaro, operator; Marco Pérez, foreman; Dionisio Quintana, driver; Agustín Yedra, head of Production and Maintenance; José Pérez, foreman; Iván Pagés, operator; Cristina Rodríguez, head of logistics; and Carolina Rodríguez, head of Quality, MA and PRL.

Marepa obtains its first AENOR certificate for the destruction of confidential information

Marepa, an FCC Ámbito company, was awarded its first AENOR certificate based on the EN 15713 Standard, certifying the service that it provides involving the "Confidential and Secure Destruction of Information".

The new legal requirements for maintaining the confidentiality of information requires new work methods to ensure the destruction of information considered to be sensitive. This certificate ensures that the confidential destruction of any type of information is performed in accordance with several security requisites and measures, during transport as well as during the destruction process, thereby ensuring the level of disintegration rendering the information undecipherable, complying with current law and with European standards.

As part of the FCC Ámbito division, Marepa is the specialised company of the FCC Citizen Services Group engaging in the recycling of paper, plastics, wood, and other materials. It has a department in charge of destroying confidential information, files, and stocks.

Marepa's main facilities are located in Fuenlabrada (Madrid). At this location, all types of document supports (paper and electronic) are treated until these are disabled, thereby ensuring confidentiality of these supports throughout the entire process.

A closed system featuring security and video-surveillance measures, makes it possible to perform the process confidentially and securely. Besides these facilities, the company has a fleet of vans which provides services, collecting the materials at the client's installations.

These document-destroying facilities are able to eliminate, confidentially and securely, counterfeit materials, clothing, surplus stocks, confiscated materials, and other.

Marepa has a wide nationwide network enabling clients to have just one sole manager for their hazardous and non-hazardous waste throughout the country.

NOSOTROS RECOGEMOS
Y TRATAMOS LOS
RESIDUOS.
TÚ LOS SEPARAS.

LO ESTAMOS
HACIENDO JUNTOS

Servicios Ciudadanos

Infraestructuras | Medioambiente
Gestión del agua | Energías renovables

The Prince and Princess of Asturias visit the Panama City Metro work site

Built by FCC in a partnership with Odebrecht

Prince Felipe and Princess Letizia of Asturias visited the Panama City Metro, currently under construction by FCC together with Brazilian company Odebrecht, during their official visit to Panama. The team in charge from FCC led by the company's directors for Latin America, Eugenio del Barrio, and for Central America, Julio Casla, shared details of the project with the Prince and Princess.

The objective of the official visit is to show support for the Spanish companies operating in Panama, which are contributing to the country's economic and social development and strengthening existing ties between the two countries.

Their Royal Highnesses were received by representatives from the Panama Metro Secretariat and the Línea Uno consortium, which is responsible for the construction of Line 1 of the city's metro and is led by FCC and Odebrecht. The Prince and Princess visited the Trinchera Norte portal, on Simón Bolívar Avenue.

The Metro, which is the flagship project of Panama president Ricardo Martinelli's administration, is 45% complete according to data from the Panama Metro Secretariat.

It is scheduled for completion in the first quarter of 2014, when trains will travel the 13.7 km route in just 22 minutes. Of that distance, 7.5 km will be tunnels, 4.9 km will be elevated and 1.3 km will be in trenches.

Approximately one million people will benefit directly from Metro Line 1, which will run from the Grand National Transport Terminal in Albrook to the Los Andes shopping centre, in the town of San Miguelito.

FCC Construcción representatives accompanied the Prince and Princess of Asturias during the tour of the work site. In the photograph, Eugenio del Barrio, manager of the America Regional area greeting Don Felipe and, at the background, Julio Casla, manager of the Central American office. Zona América, saludando a Don Felipe, y al fondo, Julio Casla, directorof the Central America Regional area.

The design of Line One of the Panama Metro envisages the construction of 12 passenger stations; six for the underground section, five for the ground level sections, and one for the semi-buried section. As part of the project, there are plans, currently under evaluation by the National Government of Panama, to build an additional station in the Curundú district.

ALPINE wins "European Property Award" for Baku Crystal Hall

The multipurpose hall built by Alpine for this year's Eurovision Song Contest is "Best Leisure Development"

The Baku Crystal Hall built by ALPINE was awarded the "2012 European Property Award" in the "Best Leisure Development" category in London. The "Crystal Hall" in the harbour of Baku, the Azerbaijan capital, served as the venue for the 2012 Eurovision Song Contest and was built in a record time of only eight months.

As the European winner in this category, the project will automatically enter the global qualification on December 7, 2012, when the winners from the regions of Europe, Arabia, Asian-Pacific, Africa, Great Britain and North and South America compete in the international finals.

The Crystal Hall's architectural façade replicates the structure of crystals. The building, having a length of 230 meters and a width of 160 meters, is covered by transparent membrane panels. Up to 25,000 spectators are protected from the sun and weather in the arena. Over 80,000 lamps integrated in the façade make the hall glisten and sparkle at night.

www.fcc.es

Somos agua de principio a fin.

En FCC llevamos más de 100 años aplicando conocimiento, innovación y capacidad técnica para prestar un servicio inteligente, como el que ofrece **aqualia** a más de 28 millones de personas en todo el mundo, en la gestión de servicios públicos del agua.

Lo estamos haciendo juntos.

FCC
Servicios Ciudadanos

The Romanian and Bulgarian prime ministers visit the Vidin-Calafat bridge over the Danube River

Boyko Borisov and Víctor Ponta, prime ministers of Bulgaria and Romania, respectively, and the European Commissioner for Regional Politics, Johannes Hahn, visited the Vidin-Calafat project on 24 October. Built by FCC Construcción, the infrastructure over the Danube River connects both countries, Bulgaria and Romania, and is currently in the final stages of construction.

The authorities were accompanied by Spain's ambassador to Bulgaria, the CEO of FCC Construcción, José Mayor Oreja, the deputy-director for Europe and the chief executive of Alpine, Alejandro Tuya, and other company managers.

They strolled along the bridge to inspect the trans-border and railway structure, already connected.

The Bulgarian prime minister stated that the bridge is one of the most important projects in the country, supported by the EU, whereas the Romanian minister acknowledge the excellent work being carried out by FCC to make this bridge a reality.

The most relevant construction project in Bulgaria – the second bridge over the Danube river, spans over 1,951 metres and involves the construction of a 1,951 metre combined bridge for road and railway traffic. It has four lanes, a single set of rails, a bicycle lane, and two sidewalks for pedestrians and service uses. It also includes the construction of the necessary infrastructures for road and rail traffic, with a new freight station, seven new kilometres of railways, the refurbishment of the existing passenger station, and the execution of seven junctions at different levels.

Just a few months left before the bridge has been completed, the work still pending is to connect the two countries, the final closing concrete pour measuring 0.4 metres in length at the last span which be executed on time after performing the final geometric topography control.

The infrastructure forms part of the Corridor IV which links Dresden (Germany) with Istanbul (Turkey). Over 600 people work at the project, 75% of whom are Bulgarians.

The budget for this bridge over the Danube and the access roads from the Bulgarian side is more than 162 million, financed with a European non-repayable grant from the Instrument for Structural Policies for Pre-Accession programme, with funding from the European Investment Bank, France and Germany.

The Algerian minister of Water resources tours Aqualia's macro-desalination plant at Cap Djinet

> "The plant, at full production capacity, will supply water to more than half a million Algerians"

In the centre, Hocine Necib, Algeria's Minister of Water Resources on his left, Josu Atxurra, Aqualia's manager of plants in Algeria.

The desalination plant built by Aqualia at Cap Djinet (Algeria) welcomed Hocine Necib, the Minister of Water Resources of this country in North Africa. The minister toured the facilities accompanied by Josu Atxurra, Aqualia's manager of desalination plants in Algeria, and Salah Kouchi, director of the joint venture responsible for the project: Aqualia and GS-Inima 51% and the remaining 49% held by AEC, the Algerian Energy Company).

Situated at the Boumerdès region, the plant is, in the words of the Minister, "one of the most important infrastructures created for the supply of drinking water".

It recently started operations and in two days reached its maximum output of 100,000 m^3/day. This desalination plant will provide drinking water to a population of more than half a million in this region. The contract contemplated the design, funding, operations, and maintenance of the plant over a 25-year period during which the purchase of water is guaranteed by the State company Sonatrach.

Different moments during the tour of the facilities where the Algerian minister listens to the explanations provided by Salah Kouchi, director of the company in charge of the project.

The group watches the work being carried out at the project.

European Investment Bank representatives Aqualia's project in Montenegro

The commissioners of the European Investment Bank (EIB), Marco Beros, the engineer in charge of water treatment, and Wolfgang Spieles, senior Loan Officer for the Western Balkans, visited the worksite to check the progress achieved at the project in Niksic, Montenegro which is being executed by Aqualia Infrastructuras, a subsidiary of Aqualia.

Representatives from the local authorities also visited the site, including Nebojsa Radojicic, the mayor of Niksic, and Olivera Bozovic, Manager of the Public Water Company. They were greeted by Juan Bofill, manager of Aqualia Infrastructuras Europe Zone director; Fernando Ruiz, managing director of Tecnoma, a Spanish company engaging in providing technical assistance for the project, and Jadranka Vojinovic, manager of the Project Implementation Unit.

The waste water treatment plant in Niksic is expected to be completed by December 2013. It will be most important water treatment plant in the country, handling a total volume of 15,500 m^3, and will be providing drinking water to a population of more than 100,000.

Funded by the EIB, the project has enabled Aqualia to gain a foothold in the Balkans, a region of great business growth in the waste water treatment segment in the short and medium term thanks to the European pre-adhesion funds.

Juan Bofill, manager of the Europe division of Aqualia Infraestructuras, explains to the guests the key characteristics of the project and the progress achieved to date.

Valverde del Camino, Huelva awards a 25-year end-to-end water management contract to Aqualia

> "The company had been providing this service under an emergency contract, since the month of March when the local authorities terminated the agreement with the public company of the province of Huelva"

In the image, from left to right: Rocío Delgado, secretary of the Valverde del Camino Town Council; Loles López, the town's mayor; Lucas Díaz, manager of Aqualia's Southern Division, and Francisco Jiménez, the manager of Institutional Relations of this division.

In 2008, Aqualia ceased to provide services to this town in Huelva after the public company Giahsa was awarded the contract. The town's authorities have decided to award the new contract, returning to the previous indirect management model. Seven months ago, Aqualia has been handling the end-to-end water service for this town under an emergency contract and was finally chosen by the local authorities which awarded the company a 25-year contract.

This contract implies a business portfolio of 56.7 million Euros. Expiring in 2037, the contract was executed by Loles López, the town's mayor, and Lucas Díaz, head of Aqualia's South Region division.

Under this contract, Aqualia will implement several upgrades in the town's water infrastructures, such as replacing the pumps, the telecontrol system, the replacement of equipment at pumping stations, and will also be doing improvement work on the water deposits and other processes for producing drinking water.

Aqualia begins to operate the Bajo Almanzora desalination plant

The build-to-operate (BOT) contract will generate income of 16.8 million over the next 15 years.

After having completed the construction and roll-out phases, Aqualia is now operating the Bajo Almanzora desalination plant jointly with Abengoa Water in a 60:40% joint venture with this company.

The facilities were put out to tender by Acuamed under a build-to-operate (BOT) arrangement, and built by the FCC-Aqualia Infraestructuras-Aqualia-Abengoa Water partnership. The project, in its current operations phase, will generate 16.8 million revenues for Aqualia over the 15-year term of the contract.

Situated in Villaricos, Almeria the infrastructure collects water from the sea as well as from wells on the beach. The desalination process uses the reverse osmosis membrane system.

The water treatment capacity of the plant is 45,000m^3/day which is supplied to Aguas de Almanzora, the entity comprising 17 irrigation associations covering an area of 24,000 hectares of irrigated land.

Reverse osmosis membranes

View of the facilities from the sheet of water in front of the building's façade.

In the photo: Pilar Icaran and Elena Maneiro in front of the Aqualia poster, jointly with Irene Rivas, the company's representatives at this conference.

Participation in a European Forum on IISIS and Ithaca projects

The Belgian city of Ghent hosted the 1st European International Society for Microbial Electrochemistry and Technology Meeting (EU-ISMET), the only European forum for the transfer of knowledge on the scientific and technological progress achieved in this innovative sector which focuses on the study of the biological transformation of organic matter into electricity.

Aqualia'0s interest in this topic is directly related to the company's role in two INNPRONTA projects in which it is currently involved: IISIS, which is carrying out research on the design of a self-sustainable island; and ITACA, focusing on concepts such as reuse and sustainability in waste water treatment and in desalination plants. These projects are analysing the application of bacteria for generating energy in conjunction with desalination (IISS) and water treatment (ITACA). In both of these research projects, Aqualia collaborates with Dr. Abraham Esteve who works at IMDEA-water, and with the University of Alcalá (UAH).

Aqualia was represented by: Irene Rivas (a well-known Aqualia researcher at Universidad de Alcalá involved in the ITACA project; Pilar Icaran (head of the global ITACA project); and, Elena Maneiro (head of the IISIS project and of the Aqualia-Universidad de Alcalá ITACA project). The company also supports this scientific meeting as one of the sponsors, enabling it to demonstrate the investigation potential among the 200 scientists who attended the conference.

Béjar defends the benefits of recycling for the environment and for the competitiveness of the cement industry

Juan Béjar, chairman of Cementos Portland Valderrivas, Oficemen and Fundación CEMA

The executive chairman of the Cementos Portland Group, Juan Bejar, who is also the chairman of the Oficemen employer's association and Fundación Laboral del Cemento y el Medio Ambiente (CEMA), defended the use of non-hazardous waste as fuel at the cement factories, the so-called waste-to-energy concept, thanks to its positive impact on the environment and the sector's competitiveness.

Béjar spoke on 30 October at the inaugural session of the II Fundación CEMA Conference, held in Madrid under the theme "Recovering waste as a guarantee for the future". He was accompanied at this first session by the secretary of State for the Environment, Federico Ramos de Armas, and the secretaries general of MCA-UGT and FECOMA-CCOO, Manuel Fernández "Lito" and Fernando Serrano Pernas, respectively.

The executive chairman of Cementos Portland Valderrivas underscored the importance of recycling as an essential aspect for achieving efficient waste management and to ensure the survival of the cement sector since it enables this industry to reduce the cost of energy, which accounts for 40% of total costs, and to increase competitiveness "Without energy recycling, our industry has little chance of survival", he said.

He also expressed the sector's concern for the trend in the electricity tariff which, with the new legislation, could increase by about 16%, which would, in turn, widen even more the difference in costs in Spain in comparison with neighbouring countries. With regards to environmental issues, the executive underscored that the use of waste as fuel at cement factories is "harmless" since, among other factors, the characteristics of cement furnaces which reach very high temperatures over a prolonged period. He also mentioned that the waste that is used for this purpose is treated previously by authorised government agents.

The executive chairman of Cementos Portland Valderrivas emphasised the fact that recycling reduces the volume of waste at landfill sites thereby reducing methane emissions and the use of non-renewable fossil fuels which generate CO_2 emissions to air.

He stressed that in 2011 60% of urban waste generated in Spain ended up at landfill sites in comparison with 6% in Scandinavian countries and 0.5% in Germany.

The Spanish cement industry has invested nearly 400 million Euros in recent years to enable their facilities to generate energy from waste. In 2011, 22.4% of fossil fuels in Spain were replaced with waste at cement factories in comparison with 11% in 2009. This is equivalent to the annual energy consumption of 517,000 households, although at quite a distance from the levels reached in countries such as Holland or Germany where this figure is 80%.

During his speech, the secretary of State for the Environment emphasised the need for managing waste as "resources" and reminded the audience that in 2011 energy-to-waste processes made it possible to reduce CO_2 emissions by 12%, equivalent to 752,000 tons.

The secretary general of MCA-UGT spoke on the current difficult situation of the cement industry in Spain and stressed the competitive advantages derived from the reduction of energy costs.

Along these lines, the secretary general of FECOMA-CCOO called for an energy policy that does not erode the competitiveness of the cement industry.

The concrete supply contract of Cementos Portland Valderrivas in Tunisia increases significantly

The Tunisian company Select Béton, a subsidiary of Société Ciments d'Enfidha , a Cementos Portland Valderrivas Group company, increases one of its major concrete supply contracts in Tunisia for the construction of the third phase of the combined cycle plant (natural gas) at Sousse Sidi Abdelhamid, situated 140 kilometres south of the capital.

The sum of the contract increased 80% from 1.85 million to 3.38 Dinars (equivalent to 1.66 million Euros), which implies the supply of an additional 14,000 m3 of concrete.

The contract was executed by the Tunisian company Services SNC-Lavalin, owned by a Canadian engineering and construction Group. The combined cycle plant, being built for the State company Société Tunisienne d'Electricité et du Gaz (STEG), previously had installed capacity of 600 megawatts (Mw).

Cementos Portland Valderrivas develops its concrete business in Tunisia through Select Béton, a wholly owned affiliate of Société des Ciments d'Enfidha, a subsidiary of the Spanish Group.

Select Béton operates four plants in three locations in Tunisia Ben Arous, Bouficha and Sousse. This last company is the one responsible for supplying concrete for the construction of the combined cycle plant.

Cemusa awarded advertising contract for 84% of Spanish airports

The Spanish company Aena Aeropuertos S.A. has awarded CEMUSA the contract for the advertising rights at a total of 41 Spanish airports. The concession covers a period of six years, extendable for a further period of four years, and is above all intended to revamp and adapt the advertising offering in line with new trends.

Under the terms of the exclusive concession, CEMUSA will handle advertising at mainland airports as well as the Balearic Islands, Ceuta and Melilla from 1 January 2013 onwards. In 2011 these airports handled close on 170 million passengers, or 83% of all traffic.

The airports contemplated in the contract include Madrid and Barcelona which, thanks to the combination of a strong business profile and the tourists attracted to both cities, are placed respectively fifth and ninth in the European rankings in terms of passengers handled.

The contract will also include other busy tourist airports, such as Palma de Majorca, Malaga, Alicante, Ibiza, Valencia and Seville, which in 2011 provided the gateway for some of the almost 57 million international tourists who make Spain the world's second-ranked country in tourism revenue.

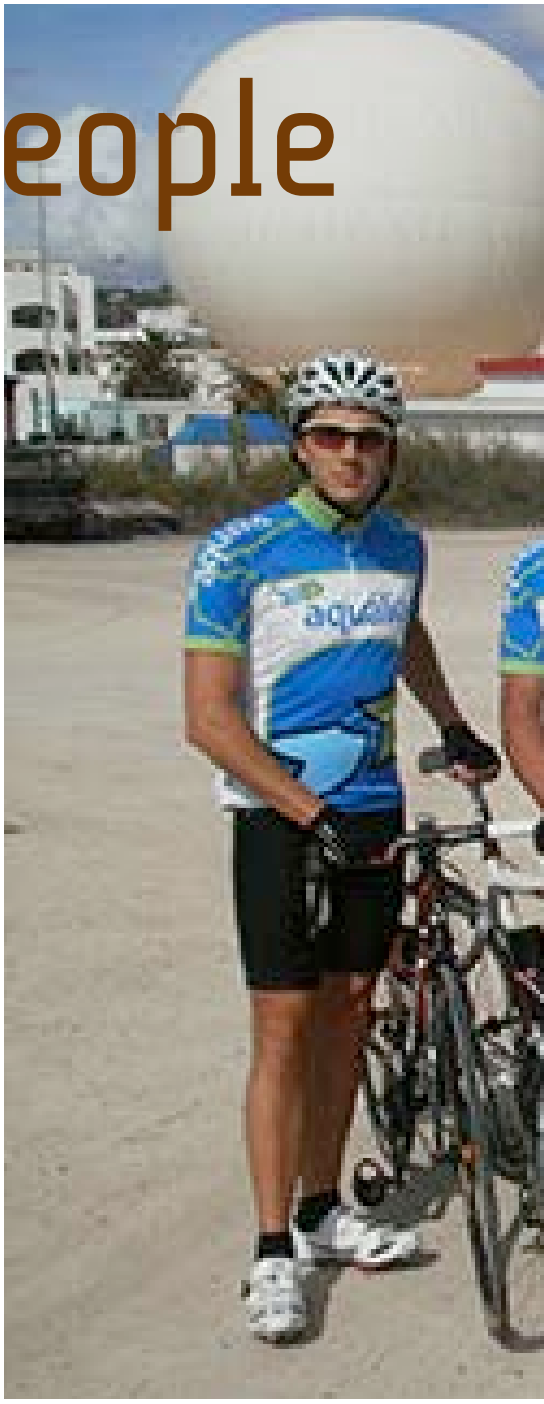
The contract will serve to revamp advertising and communication activities to put them on an equal footing with the world's leading airports through more innovative and interactive solutions to revitalise the specific environment of each airport, improve the services offered to passengers and guarantee advertisers the greatest possible potential in reaching out to consumers.

Three different types of advertising formats will in fact be used: advertising on conventional structures, advertising on digital displays and spectacular/promotional advertising, providing the advertising market with a new showcase for global communication within a privileged, high value-added setting, offering brands unrestricted and effective dialogue with their customers.

This will make CEMUSA the leader in advertising management at Spanish airports and consolidate the diversification of its portfolio by offering brands a high-quality complement to its street furniture networks.

NOSOTROS RECOGEMOS Y TRATAMOS LOS RESIDUOS. TÚ LOS SEPARAS.
LO ESTAMOS HACIENDO JUNTOS
FCC
Servicios Ciudadanos
Infraestructuras | Medioambiente
Gestión del agua | Energías renovables
RECOGIDA DE RESIDUOS
TRATAMIENTO DE RESIDU
ORGÁNICA
INORGÁNICA
PROCESOS
RECEPCIÓN
GESTIÓN
COMPOSTAJE
CONTROL
CLASIFICACIÓN
ENERGÍA
PREVENCIÓN
sd europe
SOLAR DECATHLON

Aqualia supports one of the most important mountain bike races



The company placed fresh water tanks along the 125 kilometres of the race circuit to quench the thirst of participants.

For yet another year, Aqualia has collaborated with the organizers of the Talajara B-PRO Bike race, one of the most popular mountain bike races nationwide in which more than 4,000 participated in this fifth edition. Starting and ending in Talavera de la Reina (Toledo) the circuit covered the La Jara region through two different routes, 125 and 80 kilometres, respectively, depending on the modality chosen by the competitors.

The organizers of the race stressed environmental aspects to ensure that the competition did not have any negative impact on the surroundings. Aqualia's collaboration was in keeping with the sustainability aspect. It installed drinking water tanks along the route to ensure that participants were able to drench their thirst instead of using plastic bottles that usually end up in the wayside when empty.

Thanks to Aqualia's collaboration, water supplies were installed along the circuit thereby eliminating the need for plastic bottles. With a capacity of 6000 litres, the tanks, filled with water that had passed all relevant sanitary controls, were sufficient to cover the needs of all racers thereby contributing to respecting the environment and surroundings where the race took place by keeping it clean.

A photograph of the group of racers before going to the starting line.

Aqualia's presence was also appreciated by the crowds who went to watch the races and the media that reported the event since 10 of the competitors were wearing a maillot with the Aqualia brand name

The As Eiróas sports complex open its doors

The atmosphere during the course of the project was always good, with smiles and friendly relations among all colleagues.

The As Eiróas sports complex, sponsored by the Orense Sports Department, built by FCC for the company Serviocio, opens to the public.

The facilities include an artificial grass outdoor soccer field and an interior modern design and modular pavilion with two heated pools, a 200 m2 Spa, a 600 m2 fitness room, an game room, an aesthetic and wellness centre, and a cafeteria.

The sports facilities were built in Eiroás, district 21 next to the Bichita neighbourhood, one of the most deprived areas. It is part of the Partial Plan which also includes the construction of a medical centre and 500 new homes. This project also called for the refurbishment of all infrastructures thereby facilitating the mobility of the population of Orense in the northern part of the city.

The work team wants to stress the good atmosphere throughout the entire project execution phase where there was always a smile and good relations among the colleagues.

The work team at the As Eiróas sports centre

Project manager:
Aníbal Freiría Fernández.
Administration:
Mariano Balsalobre Dopico.
Head of the project:
José Pérez Iglesias.
Head of the technical office, quality, and the environment:
Jacobo Melchor López.
Head of installations:
Laura Castro González.
Production manager:
Samuel Tomás Puente - Dodd Marzoa.

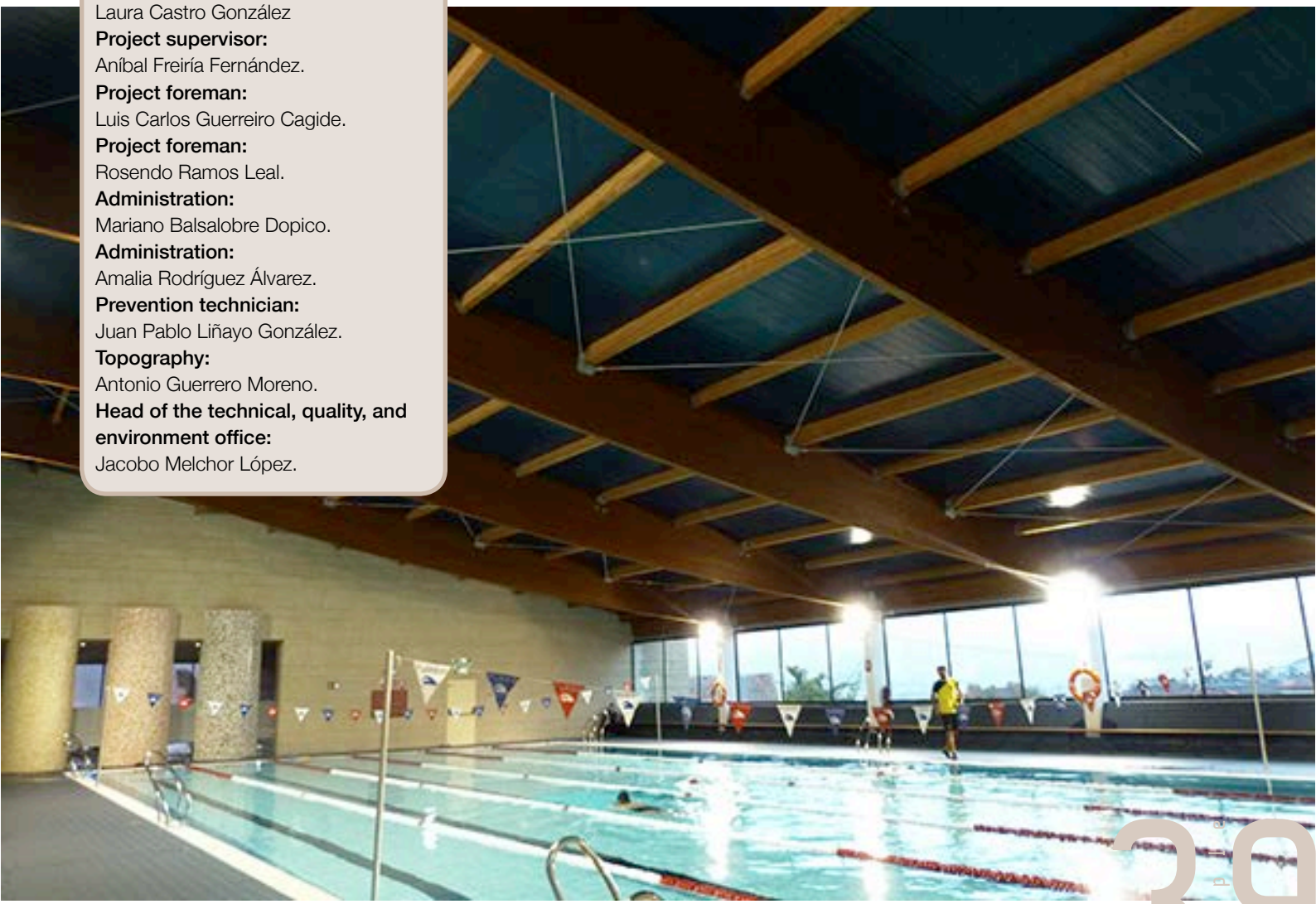
Oira Sports Centre

FCC Construcción was also involved in the construction of the paddle sports centre in Oira. This sports facility includes two outdoor pools, eight paddle courts, a building with locker rooms, a warehouse building, and another one for the installations plus the outdoor landscaping.

The new Oria swimming pools replace the former ones which were quite deteriorated and had been closed since 2007. The construction of the paddle courts will be covering the city's growing interest and demand for this type of sports.

The work team at the Oira sports centre

Department manager:
Francisco José González Raposo.
Project manager:
José Pérez Iglesias.
Head of project:
Daniel Álvarez Ramos.
Production manager:
Samuel Tomás Puente - Dodd Marzoa.
Head of production:
Julio Comesaña Fernández.
Head of installations:
Laura Castro González
Project supervisor:
Aníbal Freiría Fernández.
Project foreman:
Luis Carlos Guerreiro Cagide.
Project foreman:
Rosendo Ramos Leal.
Administration:
Mariano Balsalobre Dopico.
Administration:
Amalia Rodríguez Álvarez.
Prevention technician:
Juan Pablo Liñayo González.
Topography:
Antonio Guerrero Moreno.
Head of the technical, quality, and environment office:
Jacobo Melchor López.



FCC Environment volunteers

transform the Horncastle (UK) cultural centre

Thanks to the improvement work carried out by FCC Environment volunteers, the cultural centre at Manor House Street in Horncastle is teeming with activity. The volunteers focused on washing curtains, mopping floors, and helping in the thorough cleaning of the kitchen.

A group of workers painted and installed new bathroom fixtures in the men's and ladies' room. The panel dividing the chapel was also re-installed, leaving it ready for a future project since on Sundays this building us used by the Christian community as a place of worship.

The professionals built the exterior wall and installed new wiring. These electrical works were mostly funded thanks to a 9000 sterling pound donation by WREN-Waste Recycling Environmental Ltd., a not-for-profit organization which makes donations to social projects in the United Kingdom, funds which are donated by FCC Environment which, in turns, receives funds from the Association of Landfill Sites.

According to trade union member Bob Wayne, "The centre is an asset which is used frequently by the community, with more than 32,000 visits per year from the organizations located in this municipality".

Some of the groups that take advantage of the facilities at the Centre include the Luncheon Club, Getaway Club, bowlers, the municipal children's playground, the Julie Dean Academy and several art associations.

The third edition of the "FCC Friends of Golf" tournament took place on 29 September. On this occasion, the games were organized around the Scramble handicap modality. FCC family members and employees from various Group divisions participated in this event.

The spirit and commitment of all participants in this initiative was excellent and, despite the bad weather, nobody missed this event.

One of the objectives of this event is to encourage group spirit. The participants played and competed as if only one player was involved, showing that being united, their commitment and teamwork enabled them to achieve goals that would be impossible to attain individually.

In this edition, we joined the initiative Birdies for Smiles to support UNICEF. This idea involved the donation of one Euro for each birdie awarded to a player and was

Congratulations to everybody!

We invite you to get involved and participate in the forthcoming edition in 2013 and contribute your ideas so that we can continue to make progress.

Third edition of FCC Friends of Golf

Social Responsibility

FCC employees play important role in the 2nd reforestation campaign with WWF-Spain

FCC, in collaboration with WWF-Spain, organised on 27 October the II Reforestation campaign at the regional Southeast Park near Rivas-Vaciamadrid, Madrid.

A large group of FCC employees and their family members, including many children, collaborated with WWF-Spain in the second edition of the reforestation campaign which the Group celebrates as part of the framework agreement with this well-known international environmental organization. It achieved the objective of planting nearly 300 new trees at the Southeast Regional Park in Madrid.

Situated around the lower beds of the Henares, Manzanares, Tajuna, and Jarama rivers, this natural park, spreading over an area of 31,550 hectares and surrounding territories belongs to 16 townships in the Madrid Autonomous Community.

The park's location is quite special since it is surrounded by urban centres, industrial parks, and is very close to the capital, Madrid. Thanks to its orographic features, the park is the home to steppe birds such as royal owls and peregrine falcons.

The FCC Group took more than forty-three volunteers, including family members and friends of workers at the Citizen Services Group, to an area known as Soto de las Juntas.

For over thirty years, there was a mining operation in this area and in 1998; the area was acquired by the Madrid Community with the intention of taking restoration measures, recovering the ecological processes and functions, and preventing the loss of vegetation and rich productive soil.

The activities carried out during this event including removing dry plants, thinning and clearing work, the reconstruction of the basins and the replacement of protective items.

Thanks to the collaboration of these 43 volunteers, 260 trees were planted, including the following species: White Ash (44 trees), Poplars (32), Black Poplar (27), Almond (32), Gall Oaks (40), Wild Roses (31), Blackberries (12) and European Palm trees (42).

In 2010, the FCC Group and WWF-SPAIN entered into a collaboration agreement with the goal of contributing to sustainable development in our plant. As a result of this Agreement, FCC Group has also donated advertising space of its subsidiary CEMUSA for the "The Hour of the Planet" campaign" which is carried out every year to raise awareness on the need to take care of the Earth and of preserving the plant's limited natural resources. FCC and WWF-Spain have also organised workshops on the use of wood resources certified at the source.

WWF-Spain, 50 years of success

WWF began 50 years ago as a small group of enthusiasts committed to the environment. It is now one of the most important nature conservation organizations in the world. WWF is present in more than 100 countries and is supported by five million people in the six continents.

Comic book and yoga workshops at the Nuestra Casa de Collado Villalba, Madrid retirement home

FCC volunteers, in collaboration with the Esther Koplowitz foundation, have planned a series of workshops for the residents of the "Nuestra Casa" retirement home in Collado Villalba.

Comic book workshop

On 27 October, thanks to the collaboration of our colleague Jesús Miguel Alonso Pérez, a comic book workshop was inaugurated. Jesús Miguel is a mining engineer and the head of the R+D+i department of the FCC Group subsidiary Proyectos y Servicios.

The workshop was divided into three day sessions. In the first one, attended by the twenty-five residents of "Nuestra Casa", a theoretical presentation was made on the world of comic books, their origin, evolution, and other aspects.

A real leisure and cultural alternative

According to Jesús Miguel, the key objective of this workshop was to present comic books as a real leisure and cultural alternative, covering different styles and themes, with a quality comparable to conventional literature or films.

For generations, comic books have brought the world of reading to children. The intent of this workshop, however, was to show that it is a very good format for any type of individual thanks to the illustration/text interaction which makes it easy to read and to comprehend.

Experts believe that comic books are not just for entertainment; in fact, they believe that in difficult situations comic books encourage creativity and contribute to fluency, greater observation capabilities, attention, and concentration.

When the workshop was completed, plans were made to include within the "Nuestra Casa" magazine published at the residence, a comic strip written and designed by those who collaborated in this initiative.

Yoga classes adapted to the retirees

Another workshop organized, with great success, was the yoga classes given by Carmen Gómez García "Renuka" one Friday each month. About fifty people participated in the first session on 5 October.

These yoga workshops, adapted for the elderly, are important because this activity is very beneficial for health and well-being. Practiced regularly, yoga exercises help to improve mental, emotional and physical equilibrium. In the words of the monitor, yoga creates the "life-integrating bridge".

It is quite normal for the elderly to feel stress, anxiety, and frustration. This aggravates the feeling of loneliness and abandonment, and leads many elderly people to become lethargic and to lack motivation to participate in their own lives except for covering the basic needs for survival.

Very beneficial for health

Practicing yoga increases, in a natural way, night sleep, allowing the nervous system to relax and renew itself. Relaxing also helps the brain to secrete greater amounts of endorphins (the hormones of well-being, joy and happiness), contributing to the equilibrium of the mind and body.

In this first workshop, Carmen and her students practiced very simple postures, focusing primarily on the spinal column to alleviate minor discomforts and correct bad posture habits.

Breathing exercises were also performed to improve lung capacity and relaxation, supported by concentration and visualisation exercises.

The class ended with group therapy where residents were able to share their emotions and feelings. The Director of Corporate Responsibility, Javier López-Galiacho, gave Carmen, as a sign of appreciation, a painting from Artedown, the special employment centre

Carmen Gómez García has been a yoga specialist for over the past fourteen years. She is also a specialist in craneo-sacral therapy, foot reflexology, quiro-massage and reiki.

José Menéndez unveils the book, "Los últimos de Guinea"

FCC Volunteers, in collaboration with the Esther Koplowitz Foundation, organized the presentation of the book "Los últimos de Guinea" by its author José Menéndez.

Born in Madrid, José Menéndez Hernández has a Law Degree and is a member of the Senior Corps of Government Administrators, property registrar, and former magistrate of the Supreme Court.

He collaborated with the newspaper ABC and the Spanish Television Network in Guinea during the end of the colonial period and in Tegucigalpa in 1968. Between 1972 and 1975, Menéndez wrote a column in the newspaper Nuevo Diario. He is also the author of fifteen books and more than two hundred legal works.

During eight years, he was a professor at Universidad Complutense de Madrid, and also two years in Universidad Autónoma de Tegucigalpa (Honduras) and in the Balearic Islands.

After answering some questions on the former Spanish colony and signing copies of his books for those who attended the presentation, Javier López-Galiacho Perona, the FCC Director of Corporate Responsibility, gave him a painting from Artedown, as a sign of FCC Volunteers' appreciation for his generous participation in these cultural cycles.

Start of the IV edition of "Fridays at the Residence" conferences

The IV edition of the "Fridays at the Retirement Home" conference cycle, a cultural activity sponsored by FCC Volunteers with the collaboration of the Esther Koplowitz Foundation, kicked off on 19 October with a presentation by Antonio Gómez Ciria, the FCC Group managing director of Administration and Information Technologies.

Born in the province of Scoria, Antonio Gómez Ciria spoke to the retirees living at the "Nuestra Casa" home, his passion for Soria and the poetic works of Antonio Machado, one of Spain's greatest and most immortal poets.

The speaker gave a documented and detailed summary of the impressive biography and works of the Seville-born poet who, as a high-school French teacher went to live in Soria where he met his first wife who became his muse, Leonor Izquierdo.

The pleasant and instructive conference also included songs by Juan Manuel Serrat who sang the poetry of Antonio Machado accompanied by a slide show of images and landscapes of this city on banks of the Duero River.

Antonio Gómez Ciria started his presentation with a few words to express his gratitude to the chairman of the Foundation and core shareholder, Esther Koplowitz. A large group of members of the FCC Group Board of Directors were present at this event, including Fernando Falcó, Rafael Montes and Felipe B. García, members of the Executive Committee such as José Mayor and Miguel Hernanz, as well as Andrés del Río, the vice-chairman of the Esther Koplowitz Foundation.

At the end of the conference, Javier López-Galiacho, the director of FCC's Corporate Responsibility, gave him the traditional painting by children with Down's disease from the Madrid Community. The speaker also distributed small gifts among the retirees who had attended the event.

Radio program

Also on 26 October, Antonio de Lorenzo Vázquez, broadcast his radio show from the day-care "Nuestra Casa" retirement home, with a special program on songs from the 1940s and 1950s.

Before listening to the songs chosen for this occasion by Antonio de Lorenzo, there were two interviews: one of the director of the residence, Alfredo Boullón, and another one of the director of FCC Corporate Responsibility, Javier López-Galiacho, who spoke about the residence, the profile of the residents, the contributions and involvement of Esther Koplowitz, the benefactor of this project, and on the initiatives of these cultural Fridays sponsored jointly by the Esther Koplowitz Foundation and by FCC Volunteers.

Antonio de Lorenzo is a journalist and holds a diploma on Industrial Safety by the Ministry of Defence. For over twenty-five years he worked at FCC as the director of the Group's corporate image. He maintains his relations with the company as a member of the board of the FCC Foundation.

He also continues to be involved in the radio through two of his own radio stations: "La Voz de los Valles" which broadcasts in La Rioja at 107.2 and 107.0 FM, and also in the program "Music in Spanish" an on-line show for Spanish-speaking radio stations throughout the world.

After being congratulated on his radio show, Javier López-Galiacho handed him the traditional Artedown painting given to speakers for their collaboration in this conference cycle.

The UN recognises FCC's efforts

The United Nations Global Compact awards the FCC Construcción Progress Report the Advanced Level, the maximum rating granted.

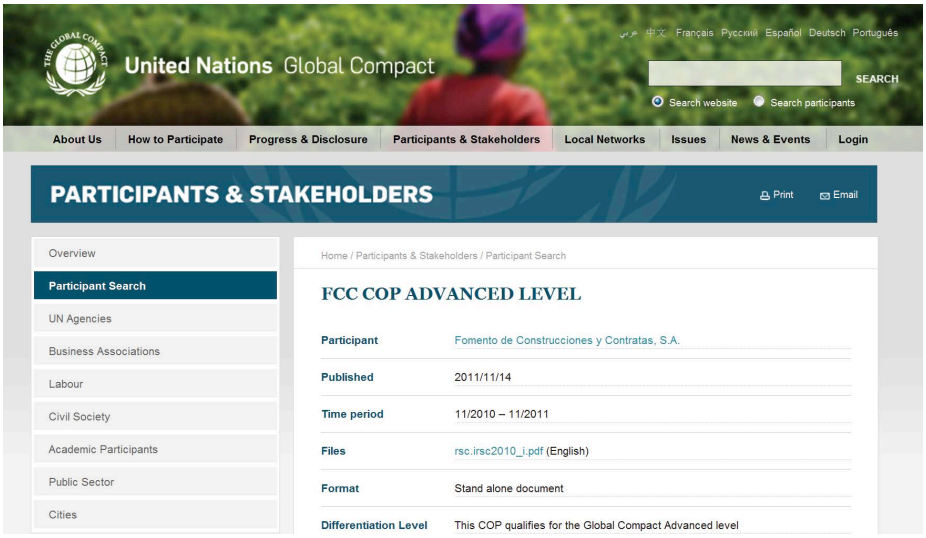
FCC Construcción submitted its 2012 Progress Report, "Communication on Progress", in accordance with its commitment to the Global Compact, describing its actions, results, and objectives in respect of each of the Ten Principles enshrined in the Global Compact. The company's self-assessment was added this year in this report.

Global Compact gave the report the advanced level rating. By awarding this level, the Global Compact office of the United Nations recognises the efforts of companies in striving to be better as well as their information and implementation of a series of good practices in good governance and management of sustainability.

Companies with the advanced level, according to Global Compact, are publicly recognised in the Global Compact website, explaining the results and the detailed self-assessment statistics, and best practices of the company in the participant's progress report page.

In addition to publishing an annual report, FCC Construcción ratified its commitment to its voluntary membership in the Global Compact.

In 2004, the company joined the United Nations Global Compact. As a founding member of Asociación Española del Pacto Mundial de las Naciones Unidas ()ASEPAM, Spanish acronym), it has participated in the activities since the very beginning in order to share good practices that promote the adoption of the Ten Principles.



The Ten Principles of the Global Compact are based on Universal Declarations and Conventions

Principle 1
Protection of fundamental Human Rights.

Principle 2
Non-violation of Human Rights.

Principle 3
Freedom of association and collective bargaining.

Principle 4
Elimination of forced and compulsory labour.

Principle 5
Abolition of child labour.

Principle 6
Elimination of discrimination in employment.

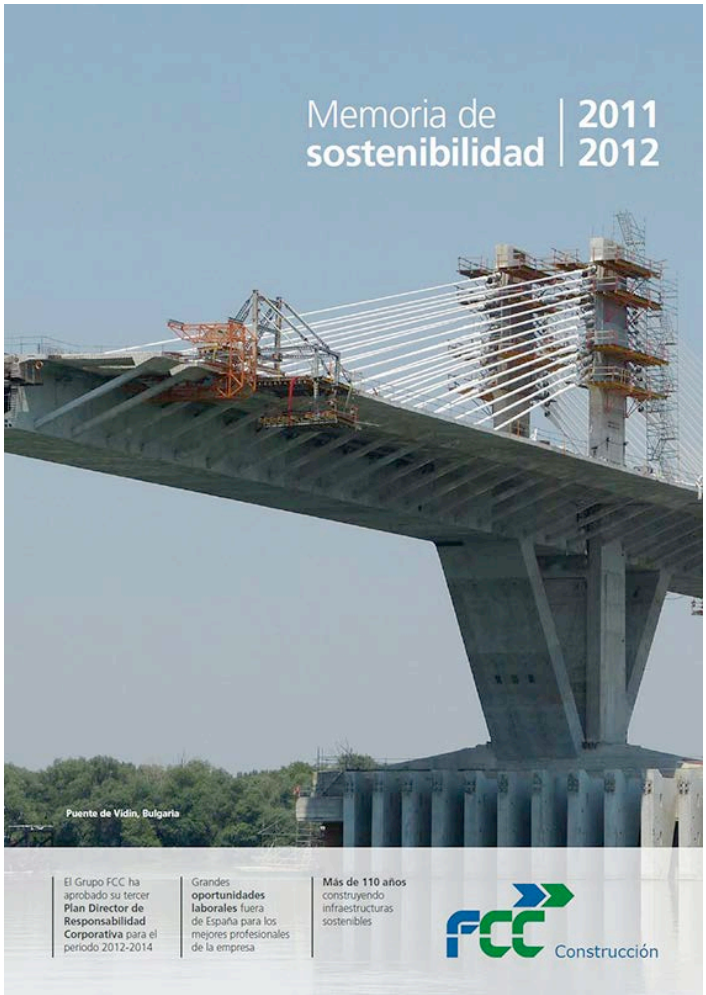
Principle 7
Precautionary approach to environmental challenges.

Principle 8
Initiatives to promote environmental responsibility.

Principle 9
Diffusion of environmentally friendly technologies.

Principle 10
Fight against corruption, extortion, and bribery.

FCC Construcción 2011-2012 Sustainability Report



FCC Construcción has published its 2011-2012 Sustainability Report, drafted in accordance with the Global Reporting Initiative recommendations for the preparation of sustainability reports, including the indicators detained in the supplement for the construction industry.

Published every two years and updated in the odd number years, the report was validated and verified by AENOR which gave it an A+ rating.

The document describes the relevant aspects for our communities to inform all stakeholders on the economic, social and environmental progress achieved by the company as part of its permanent commitment to dialogue and transparent information. It also details the priority lines of Corporate Social Responsibility work for future years.

Sustainable criteria

Despite the economic crisis affecting fiscal year 2011, by anticipating the use of sustainability criteria in its own activities and in the supply chain, FCC Construcción succeeded in maintaining its privileged position in the market thanks to which it is prepared to face the future. It is evident that the current situation of the sector focuses on sustainability as the basis for building a new development model.

During the year, the company pressed ahead with its demanding cost optimisation policies and international expansion. In addition, it also made great efforts to be at the forefront of technology and innovation. An investment of 9 million was made as reflected in 41 ongoing projects, of which 16 are related to sustainability.

In the social sphere, FCC Construcción strove to bolster its fundamentals through the people who are part of the company. Worth highlighting are the steps and measures that the company implemented to disseminate its equality plant, its fight against discrimination, and the work carried out in respect of the prevention of occupational hazards, bringing the organization in alignment with the new international structure.

FCC Construcción is aware of the sector's impact on the environment and, accordingly, maintains a firm environmentally-friendly commitment and, since 200, has been planning and adopting good environmental practice beyond those required by current law.

The development of an energy savings plan at the Alpine offices, the implementation of a protocol for measuring greenhouse gases, and the purchase of a fleet of electric vehicles are among the milestones achieved in 2011 to meet challenges such as the protection of the environment, the fight against climate change, responsible consumption and sustainable construction activities.

Aqualia's innovation in the limelight at the conferences held in Korea and China

The second biannual edition of the IWA World Water Congress & Exhibition was held in Busan, a city on the coast in South Korea. More than 2,500 participants from 150 companies attended the conference. During six days, the leading companies in the industry debated issues such as integrated city water systems, potable water treatment technologies, climate and energy and other subjects. Within this framework, Aqualia was represented by Frank Rogalla, the director of Innovation and Technology who chaired the first technical session on the "Elimination of Nitrogen".

Frank Rogalla next to Dawen Gao during his speech at the conference held in Harbin, China.

Aqualia also participated in the IWA Nutrient Removal and Recovery 2012 Conference held in Harbin China with the participation of more than 200 researchers. The elimination of nutrients is becoming the global model for waste water treatment. The conference was a good opportunity for the participants to learn about the progress being made and news about the industry. As the chairman of a group specialising in the elimination and recovery of nutrients, Frank Rogalla chaired the inaugural session. Among those attending this session were Glen Daigger, the chairman of IWA and two of the most well-known investigators in this field such as James Barnard and Mark van Loosdrecht. Spain was well represented with the greatest number of participants of any other European country, with only China and the United States having a larger representation.

Aqualia, by participating in the most important investigation conferences worldwide, bolsters its position as an innovator in the use of waste water as a source of valuable resources, and in the reduction of energy consumption and emissions as a key element in the design of intelligent and sustainable cities.

Somos agua

desde el principio hasta el fin.

En FCC llevamos más de 100 años aplicando conocimiento, innovación y capacidad técnica para prestar un servicio inteligente, como el que ofrece **aqualia** a más de 28 millones de personas en todo el mundo, en la gestión de servicios públicos del agua.

Lo estamos haciendo juntos.

aqualia

www.fcc.es

www.aqualia.es

FCC committed to Road Safety

In keeping with its commitment to constant improvement and in line with its Citizen Services and Employee Services policy, FCC has implemented a Strategic Road Safety Plan 2010-2015, a project that combines and develops the bases and measures on road safety that are part of the organization's preventive culture.

The program contemplates four plans of action:

- Plan for the Prevention of Occupational Hazards and Road Safety to reduce the rate of accidents.
- Health on the Road Plan aimed at reducing the risks associated with human psycho-physical conditions and conducts, focusing on health and on the medical recommendations which are currently disseminated through the FCC in-house magazine.
- Road Education Plan to disseminate, encourage, and support training and information measures on driving as part of a comprehensive road safety education for citizens.
- Road Mobility Plan, designed to encourage safe, civic, responsible, and sustainable driving habits to promote the quality of life of drivers, pedestrians, and the community in general.

Training Measures

As part of this strategy, several training measures have been developed to promote responsible, efficient, and sustainable driving habits.

- **Road Safety Management Plan. Assessment and prevention of occupational road hazards.**

Realizada con colaboración de Fesvial Carried out in collaboration with Fesvial (Spanish Foundation for Road Safety) and aimed at those responsible for the prevention of occupational hazards, 148 technicians attended the seminars held in Barcelona, Madrid, Seville and Valencia.

The necessary knowledge was acquired so that our technical team is able to:

- Learn about the mobility phenomenon and its impact on occupational road safety.
- Know the urban mobility trends and how this affects the Company in Europe..
- Learn about the importance of occupational road hazards and inclu-

de these in the assessment and in the prevention measures.

- Learn about and develop the methodology for preparing the Road Safety Plans in the company.
- Define the role of the technicians and/or managers in the company in charge of safety as part of occupational road safety.

Efficient Driving Seminar

Conducted in collaboration with Fesvial (Fundación Española para la Seguridad Vial) and aimed at those in charge of prevention of occupational and personal hazards and the General Services Department.

The necessary knowledge was acquired so as to take advantage of the possibilities offered by the technologies of current engines to achieve:

- Low fuel consumption.
- Reduction of environmental pollution.
- Greater driving comfort.
- Reduction of road hazards.

Safe Driving Course

Carried out in collaboration with RCC (Real Automóvil Club de Cataluña) and aimed at the parties responsible for the prevention of occupational and personal Hazards at the General Services Department.

Based on acquiring knowledge on:

- The theory on ergonomics behind the driving wheel.
- Slamming the brakes in the event of an emergency.
- Traction at curves.

You can find additional information at the Road Safety Website that FCC's Prevention of Occupational Hazards department has put at the disposal of all employees at this url: (http://fccnet/sites/rrhh/servprevman/segvial/default.aspx)

Supporting the activities of the European Mobility Week

FCC, in line with its commitment to the sustainability and quality of cities, as well as with the Strategic Road Safety Plan, supported the activities carried out in cities during European Mobility Week which took place from 16 to 22 September under the European Slogan "Moving in the Right Direction".

The objective of this European Union initiative is to raise awareness on the consequences on health and the environment of the irrational use of cars within the city and to promote the benefits of other, more sustainable, modes of transport such as public transport, bicycling, and walking.

This year, the Sustainable Urban Mobility Plans (SUMP) was chosen as the theme. It involves several measures to encourage the mobility that people and companies require to reach a balance on environmental quality, economic development, and social equality.

The work carried out in recent years has resulted in the European Mobility Week projects which are now widespread throughout Europe as underscored by the large number of local governments that participate voluntarily in developing these projects, also implementing permanent measures.

In Spain, the Ministry of Agriculture, Food, and the Environment is the national coordinator with the slogan "Participate in your city's mobility plans: Move in the right direction! Spain is the country with the largest number of cities participating in the campaign, 550 (followed by Austria in second place with 539 cities)

Awareness building campaign

The European Mobility Week (EMW) is an awareness-building campaign to create awareness among politicians and citizens on the negative consequences of the irrational use of cars in cities for public health and for the environment, and on the benefits of using more sustainable modes of transport such as bicycling and walking.

The initiative was born in Europe in 1998 and, as of 2000 was backed politically and financially by the European Union. Since then, it has spread throughout Europe and other continents. Held every year from 16 to 22 September, activities are carried out to encourage sustainable mobility and to promote good practices and permanent safety measures.

How to protect yourself from the cold when the temperature falls

The arrival of cold weather tests the efficiency of body's immune system. Measures should be taken with the arrival of cold weather in order to be able to make the best of this season.

People are more prone to suffer respiratory diseases, gain weight, suffer depression and stress during the autumn and winter. This is due partly because of rain, cold weather, and less hours of sunshine.

Some recommendations are provided in this article to ensure good health during these months.

Maintain and bolster good hygiene habits

When the temperature drops, viruses circulate more frequently and risk of transmission of these viruses increases because of closed and badly ventilated rooms. This is why it is important to ventilate the rooms once in a while. It is also important to wash your hands frequently as one of the best way to prevent contagion. Covering your mouth when coughing or sneezing is also recommended so as to avoid the spread of germs.

Avoid sudden changes in temperature

The human body has several systems to maintain the ideal temperature balance, such as skin receptors that detect when it is cold, sends information to the brain, arteries, veins, hormones, and other parts of the body. Nevertheless, with the passing of time this "thermostat" becomes less efficient and the body's ability to support exposure to cold temperature gradually diminishes.

To prevent the detrimental effects of changes in temperature, the best thing to do is to avoid situations of extreme temperatures. The temperature at home should be set at around 22 degrees with sufficient humidity. The ideal level of humidity to keep rooms fresh is around 60-70% and this can be achieved by installing a humidifier close to the radiators.

Skin care

The skin becomes very dry when the weather is cold and, accordingly, it is important to take care of the areas of the body that are most exposed to cold temperatures such as the face, lips and hands.

Keeping the skin moisturised is very important during the cold winter months. It is necessary to choose a good moisturising cream containing mainly urea, amino acids and lipids depending on the part of the body to be treated so as to avoid loss of the skin's hydro-lipid layer. Fat is the first barrier against cold weather.

It is also important not to use very tight clothes that prevent the skin from transpiring correctly since this can cause dry and scaling skin.

Preventing mood disorders

Some people can suffer from stress and sadness during the cold winter months. This is why it is essential to have a positive state of mind and to spend sufficient hours resting and sleeping in a comfortable atmosphere without the room being excessively hot.

Stress can lower the defences of our body significantly and during long bouts of stress, the corticoid levels increase and this can have a devastating effect on the immune system.

The importance of sports

It is also important to exercise during these months since this helps us to remain active, agile, and strong and is also good reducing stress. It also helps us to keep our bodies warm against cold weather.

Our diet during cold weather

It should be borne in mind that when the weather is cold, the body tries to compensate and maintain its heat levels. This could increase your appetite and, consequently, the possibility of gaining weight.

A good diet helps our bodies to protect itself against nasty weather and also increases our defences.

Below are some recommendations for our diet during this time of the year:

- Fresh foods that are rich in vitamin A and C are a very important part of our diet. Vitamin A is found in dairy products, enriched margarine, liver, and egg yolks. It helps prevent dry skin, chapped lips and even helps to prevent frostbite. Citric fruits, tomatoes, green peppers and almost all vegetables are rich in vitamin C which increases our body's defences and helps us prevent catching the flu or cold.

- Proteins, such as those found in meat, eggs, fish, and legumes are also an important part of the diet since they are full of vitamin B which naturally optimises our metabolism.
- Zinc, found in meat (especially red meat) plays a very important role especially in nasal congestion and sore throats.
- Our body needs more calories during the winter months and it recommended that we eat small amounts of dry fruits and to replace sugar with honey which contains more fructose.
- Eat more dairy food. The absence of sunlight reduces our body's ability to assimilate vitamin D which regulates the absorption of calcium and phosphorus. Women who suffer from osteoporosis should take an extra calcium supplement. Potatoes are also important since they are rich in carbohydrates.
- Drink more liquids, particularly hot liquids since this helps keep our bodies warm and well hydrated. It is necessary to compensate the loss of moisture in our bodies caused by cold weather.

The new InfoAqualia, client communication channel is born

A transparent and accessible service

Miguel Perea, Aqualia's national director Client Manager and José Arce, the Communication and Marketing manager.

The more than 14 million invoices issued by Aqualia each year now include on the back of the invoice InfoAqualia, the new client communication channel which features specific information on its services. Miguel Perea, the Aqualia's national client manager, and José Arce, head of Aqualia Communication and Marketing, coincide in stating that this initiative represents another step in the Company's commitment to transparent and a more citizen-friendly service.

Miguel Perea describes the advantages of this new invoice from the standpoint of Info-Aqualia's design. "Until now, we printed only an explanation of the invoice on the back, the suggestions we gave to clients, and information on the Public Act for the Protection of Personal Data, all of

explicación de la factura

TITULAR DEL CONTRATO 1
Datos del titular: Código de cliente. Para cualquier información relacionada con esta factura indique su número de cliente.

DATOS DE SU INTERÉS 2

PUBLICACIÓN DE TARIFAS 3
Fecha de publicación y número de boletín de tarifas aplicadas.

DATOS DE LA FACTURACIÓN 4

DESGLOSE DE BLOQUES 5
Descripción de los bloques de consumo y precios.

CONCEPTOS FACTURADOS 6
Detalle de los conceptos facturados y su importe.

HISTOGRAMA DE CONSUMOS 7

DATOS PARA EL CONTROL DE COBRO 8

FECHA LÍMITE DE PAGO 9
Último día para el pago en periodo voluntario.

TOTAL A PAGAR 10

info aqualia

La e-factura **aqualia** le permite recibir sus facturas por internet y dejar de recibir correo ordinario en su domicilio. Aproveche todas sus ventajas:

Más responsable con el medio ambiente
La e-factura **aqualia** es un gesto sostenible porque contribuye a reducir el consumo de papel y las emisiones de CO_2, ayudando a preservar nuestros bosques.

Más rápida
Podrá disponer de su factura el mismo día en que se emite.

Más segura y cómoda
La e-factura le ofrece mayor confidencialidad, ya que solo usted tendrá acceso a sus facturas. Además podrá archivarlas en su ordenador.

Total validez legal
La e-factura **aqualia** tiene la misma validez legal y fiscal que la factura en papel.

Completamente gratis
La e-factura no tiene ningún coste para usted.

Cómo solicitar la e-factura aqualia

- A través de aqualiaOnline.
- Llamando al Centro de Atención al Cliente.
- Por e-mail a e-factura@aqualia.es.
  Indicando:
  - Nombre y apellidos del titular.
  - Número de contrato.
  - Población.
  - e-mail donde desea recibir la e-factura.

ACCIÓN CONTRA EL HAMBRE
ACF INTERNATIONAL

Para 300 millones de personas la falta de agua es una emergencia, pero el resto del mundo lo desconce. **aqualia** colabora con Acción Contra el Hambre para que esta realidad suene en todas partes. Entra en **www.hazqueseoiga.com** y comparte tu melodía de agua.

OFICINA aqualia
LA MEJOR ATENCIÓN PERSONALIZADA

902 21 60 21
ATENCIÓN AL CLIENTE
De lunes a viernes, de 8 a 20 h. ininterrumpidamente

902 13 60 13
TEL. DE INFORMACIÓN Y GESTIÓN DE AVERÍAS
24 h. al día, 365 días al año

902 26 60 26
SERVICIO DE AUTOLECTURAS
24 h. al día, 365 días al año

OFICINA VIRTUAL aqualiaOnline
www.aqualia.es

aqualia

WINNER
Global Water Awards
2012

En cumplimiento con la Ley Orgánica de Protección de Datos, le informamos que sus datos personales forman parte de un fichero titularidad del Ayuntamiento en el cual Vd. reside, siendo tratados por la entidad concesionaria del servicio, que aparece en el anverso de esta factura. La finalidad del tratamiento es la gestión de la relación contractual con Vd. mantenida (suministro de agua, cobro de facturas y cumplimiento de los demás aspectos contenidos en las normas reguladoras de la prestación del servicio aprobadas por el Ayuntamiento donde Vd. reside), así como atender sus consultas y poderle remitir, en su caso, información sobre novedades, actividades o servicios del ayuntamiento o de la concesionaria, que puedan resultar de su interés, a través de diferentes medios, incluyendo electrónicos. Vd. Podrá negarse al tratamiento con finalidad comercial contactando con el servicio de atención al cliente de la concesionaria, así como ejercer los derechos de acceso, rectificación, cancelación y oposición, dirigiendo una solicitud por escrito, con la ref. "Protección Datos" y fotocopia de su DNI al Departamento de Seguridad de la Información [illegible] C/ Federico Salmón [illegible] - 2801[illegible] Madrid

this in black and white. From now on, the back of the invoice will be printed in colour to highlight the information that we want to offer our clients. This is the major difference; from a text printed in black and white, to one printed in different colours".

He added, "this is the reason why we have been working on the design of the new invoice so we could benefit from full-colour printing which, besides representing a change in our image, is more modern and user-friendly".

José Arce spoke on the way that the information is now organized in three columns. "We include a an explanation on the invoice and the tips and clarifications on one side, and InfoAqualia in the centre, the space which is now reserved for the information that we had previously sent on a separate insert. The third column contains information on telephone numbers and legal texts", he explained. Thanks to this new design, information is presented more clearly.

InfoAqualia includes diverse information presented in a clear structure: the left side of the invoice contains information directly related to billing, such as the main concepts being invoiced. The centre space is reserved for corporate messages and news that will vary in each new invoice. Lastly, the left-hand side is reserved for specific information on communication channels and the law on the protection of personal data. The InfoAqualia design is in colour to highlight the information contents. Another advantage is that, since this information is directly included in the invoice, it is more likely that the recipient will keep it.

A useful communication channel for users

"In the departments where InfoAqualia has been implemented" Arce said "the invoices for the third quarter included information on the e-invoice and the social campaign that Aqualia is carrying out with the NGO Action Against Hunger".

> "Miguel Perea: InfoAqualia implies eliminating various costs and, most importantly, it significantly minimises the environmental impact"

> "José Arce: The new service will be personalised for the consumer, containing specific information adapted to each locality"

Miguel Perea mentioned that InfoAqualia is an example of how an invoice can be used to open a useful information channel. It can be used, he said, "to provide information on the e-invoice, the new rates, the direct debit campaign, the launch of a new service, etc., eliminating the costs of inserts, handling, putting the correspondence inside envelopes, the cost of packaging, etc., some of the costs incurred up to now, and most importantly, it also contributes to reducing the impact on the environment".

"As to the backside of the invoice, from now on it will include a new intelligent service logo on the bottom to encourage good environmental habits", he added. "For the recipient, the new design will be personalised, providing specific information on the invoice but also adapted to the companies billed (joint ventures, etc.) and the official language of each territory", he pointed out. "InfoAqualia information will be personalised according to the client's locality", he added.

A histogram will be included on the back of the invoice so that the client is able to monitor consumption and will also include information on how to access up-to-data information on the rates in force and on the previous invoice.

InfoAqualia appears in the nearly 14 million invoices that Aqualia issues every year, including 360,000 e-invoices (sent electronically) which represent one of the company's wagers to promote a more expeditious, rapid, and comfortable service for the client which is also environmentally-friendly since the support of is clean, sustainable and non-pollutant.

NOSOTROS GESTIONAMOS EL CICLO DEL AGUA A TRAVÉS DE AQUALIA.
TÚ HACES UN CONSUMO RESPONSABLE.

LO ESTAMOS HACIENDO JUNTOS

FCC
Servicios Ciudadanos

Infraestructuras | Medioambiente
Gestión del agua | Energías renovables

Crossrail,

a maze under the heart of London

The commuter train will run 119 kilometres from Maidenhead and Heathrow, in West London, to Shenfield and Abbey Wood in East London with 37 stops along the route. The sections through the centre of London and the connection to Heathrow Airport will be underground while the remaining twenty-eight stops along the route will be at ground level.

FCC, through Alpine, its subsidiary for Central and Eastern Europe, is working one of the major landmarks of the United Kingdom and all of Europe: Crossrail, a project consisting in the construction of a 119 km-long infrastructure for a commuter train and 37 stations.

Crossrail will run from Maidenhead and Heathrow, in West London, to Shenfield and Abbey Wood in East London. The sections through the centre of London and the connection to Heathrow Airport, a total of 21 kilometres, will be underground while the remaining twenty-eight stops along the route will be at ground level.

When it opens in 2018, an additional 1.5 million people will be able to travel to business areas in 25% and capacity in the British capital's railway transport system will increase by 10%. In short, this project represents the most important tunnel construction in the United Kingdom since the Jubilee underground and the Channel Tunnel Rail Link.

The enormous London Crossrail project was considered 100 years ago and a serious proposal was made for the first time in the 1980s. Nevertheless, the Governments were wary because of the huge costs involved. In the huge cost involved. London's relentless growth and the pressures on its public transport system finally led the £14.8 billion project to start in 2007.

The trains will run from Reading to Shenfield and Abbey Wood

Crossrail will be linking railway lines that at present terminate on the edges of central London to provide a through service under the UK capital's heart.

Trains will run from Reading to Shenfield and Abbey Wood, linking Heathrow airport and the skyscrapers of Canary Wharf.

Alpine is working on two stations contemplated in the project as part of BBMV – a long-established partnership with Balfour Beatty, Morgan Sindall and Vinci: the excavation of stations at Liverpool Street, in the City of London, and at Whitechapel in the historic East End.

The former is in the main financial district, but Whitechapel, though barely 20 minutes' walk away, is quite different. This is the old East End, where outsiders' images persist of cheerful Cockneys talking in rhyming slang while dressed in pearly costumes; a place once associated with the notorious Jack The Ripper and the Kray twins, and with popular television shows from Till Death Us Do Part to Eastenders.

This district is changing rapidly. Whitechapel has been home to successive waves of immigration, most recently from Bangladesh, and colourful market stalls of Asian clothes and fresh produce and the extended Royal London Hospital impart an air of busy activity. Whitechapel station is already served by London's Underground and Overground lines, and Crossrail will turn it into an important interchange, making the area much more attractive.

On a very constricted site near Whitechapel market, engineers are at work on the Crossrail station, which will be built beneath the existing one. They started in January 2011 and are due to finish in 2015. They are excavating the station tunnels and its associated internal passages, escalator shafts and concourses using sprayed concrete lining, ultimately to a 300-400mm thickness to hold them place.

London had the first underground

The stations must connect to the running tunnels and the surface entrances, both of which are being built by other contractors. When station excavations are complete, the tunnel boring machines will pass through and resume their work on the far side, so all tasks must be completed to rigid timetables to ensure smooth workflow without delays. Alpine's chief geotechnical engineer Alfred Stärk says London clay "is pretty much perfectly well formed for tunnelling, it has no water and is easy to excavate".

Nevertheless, it not fully known is what structures the tunnellers may encounter. As Dr Stärk explains: "London was the first city that built an underground railway, and in the 1860s nobody paid attention to making records of where these underground structures are. "At one stage nearly every building had a well. Those days are gone but the wells haven't, and not all of them are recorded. At Liverpool Street we were tunnelling and suddenly there was a well that was not on any drawing."

That well was easily made safe, but the work at Liverpool Street (which links to nearby Moorgate station) is highly complex because the site is crossed by London Underground's Hammersmith & City and Northern lines, by the Post Office's disused rail line – now used for telecommunications cables – and by the long-abandoned Queen Victoria tunnel.

One further complex piece of work will be the Vallance Road crossover, to enable trains to change from the westbound to eastbound track at Whitechapel. With up to a 20m span it will, Dr Stärk says, probably be one of the largest structures ever built in London clay.

It is essential that everything is built to last – Crossrail structures have a 120 years design life – so two of Alpine BeMo's most experienced quality inspectors have been called in. Hermann Dettelbacher and Karl Fender have 70 years' experience between them. This experience will be essential in order to complete one of the most complex underground "jigsaws" that they are ever likely to encounter.

Houston,

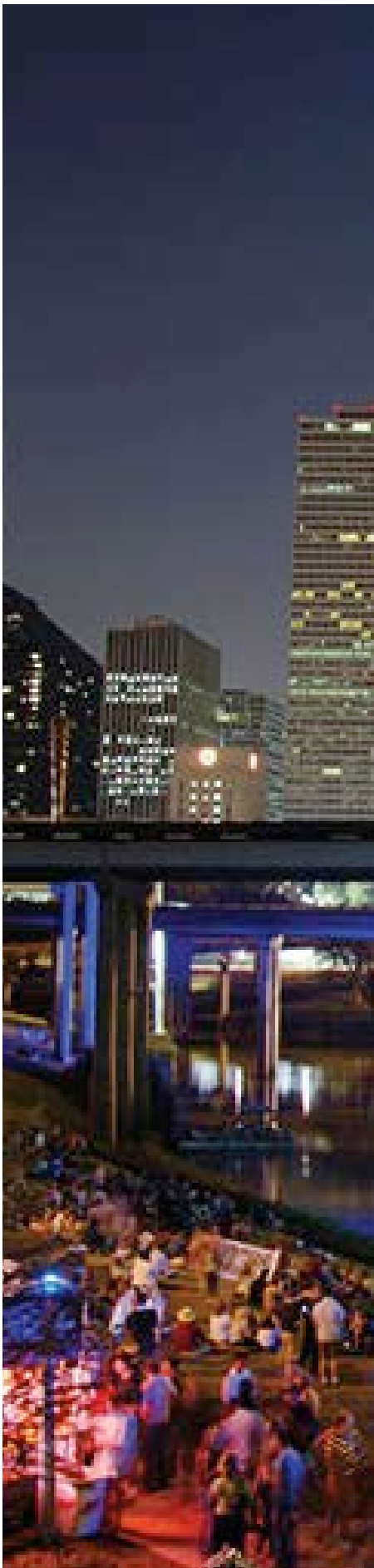
a large city in a huge State

In 1969, "Houston" was the first word that was spoken at the moon. The Apollo 11 mission placed the city in the map of history when the astronaut Neil Armstrong spoke that famous phrase: "Houston, Tranquillity Base here. The Eagle has landed".

Houston –the city where FCC Environmental has its headquarters – is on the eastern coast of the State of Texas; a melting pot of people and cultures, a dynamic world-class art community, entertainment, gastronomy, and places of interest. With warm and humid weather, the temperature in the summer can be quite hot while the winters are mild. Its location in the Gulf of Mexico makes it the gateway to Latin America and the rest of the world and its diverse economy, entrepreneurial spirit, has made it a

Houston: key figures

- 4th largest city in the United States (1,642 km^2).
- 2.1 million inhabitants (25.6% non-Hispanic Americans; 43.8% Hispanic; 23.1% Afro-Americans; 7.4% Asians/other).
- 90 languages are spoken in Houston.
- 9.2 million people enjoy every year the cultural events and exhibits in Houston
- 4 types of performing arts are represented in Houston's theatre district: ballet, opera, symphony orchestra, and theatre.
- 14 major higher-learning institutes are located in Houston's metropolitan area and the city is the cradle of nanotechnology.
- 8,000 restaurants offer food from more than 60 countries and regions in the U.S.
- 52 organizations make up the prestigious Texas Medical Centre. The first heart transplant was performed successfully in Houston by Dr. Denton Cooley in 1968.



Buffalo Bayou Nigth.
Credits: Greater Houston Convention and Visitors Bureau

key destination for businessmen and all of those who seek new opportunities.

Founded in 1836

The city of Houston was founded in 1836 by the brothers Augustus and John Allen. In the following year, Houston was incorporated in the Republic of Texas and was the capital of the State until 1840. The city was named after Sam Houston, the general who led the Battle of San Jacinto, who at that time was the president of the Republic of Texas. This battle took place 40 km east of where the city had been founded.

At that time, the economy of Houston was based mainly on agriculture. Nevertheless, after oil was discovered in 1901, it became the key mainstay of the economy. In the middle of the twentieth century, Houston became the home of the Texas Medical Center, the largest concentration of research and healthcare facilities in the world. It also became the home of NASA's Lyndon B. Johnson mission control centre for all manned space flights, Houston is famous worldwide for its petrochemical, oil, and natural gas industry. It is the main hub for the construction of equipment for the oil industry. A large part of the city's success as a petrochemical complex is due to its harbour, the leading one in the United States for international trade and the tenth largest one in the world.

FCC in Houston

FCC Environmental, with its headquarters in Houston (Texas) provides services to more than 40,000 clients through its 33 processing plants situated in 22 States. It focuses on a sustainable development model, with services ranging from efficient recycling for industrial cleaning projects as well as other service activities such as soil decontamination.

Operator at the New Orleans plant unloading a truck that collects used engine oil.

Personnel at FCC Environmental de Houston.

The main line of business, however, is oil and gas recycling, generally known as "oil recycling". It is considered one of the most competent companies in the oil industry, with the largest transport fleet in the country, providing comprehensive industrial waste management services.

Oil and gas recovery and recycling in the United States began during the Second World War when oil supplies were limited. At that time, the focus was based strictly on the requirements and little importance was attached to the environment. Nowadays, oil recycling plays an important role in reducing carbon emissions in the United States and the need for oil imports. The recycling of used oil currently prevents more than 50 billion litres of oil per year from being managed in an inappropriate fashion, according to the American Oil Institute.

Used oil has many practical uses. One of the main ones is re-refining it for use as a lubricant. Re-refined oil is of a quality as good as that of virgin oil. Another application for used oil is utilising it as fuel to obtain energy. This is done by using large industrial boilers to recycle used oil with minimal pollution.

FCC Environmental is aware of the importance of innovation and growth. The organization is currently engaged in securing permits for the construction of an engine oil re-refinery facility in Baltimore, (Maryland) in order to enhance the company's competitive edge. This project will enable FCC Environmental to have the opportunity for increasing the quality of recycled oil significantly as well as profitability by creating a greater quality end product.

The company expects to increase its market share, thanks to this project, and to be able to recycle used oil to obtain oil of the same quality as new lubricant oil. FCC Environmental is wagering on a brilliant and prosperous future and intends to keep growing in the U.S. market.

Complete list of services

Our main objective is to offer our more than 40,000 clients the services necessary to minimise their waste. When it is impossible to prevent the generation of waste, recycling and reusing are the key steps, according to the Environmental Protection Agency. How to manage waste is what our clients, as the generators of such waste, want to know and this is what we, as the service providers can address.

FCC

Servicios Ciudadanos