

TALARA



Desalination plant

CAJAMARCA



Microenergy Foundation

Coastline Project

LA LIBERTAD



La Chira wastewater treatment plant

LIMA



Villena bridge

AREQUIPA



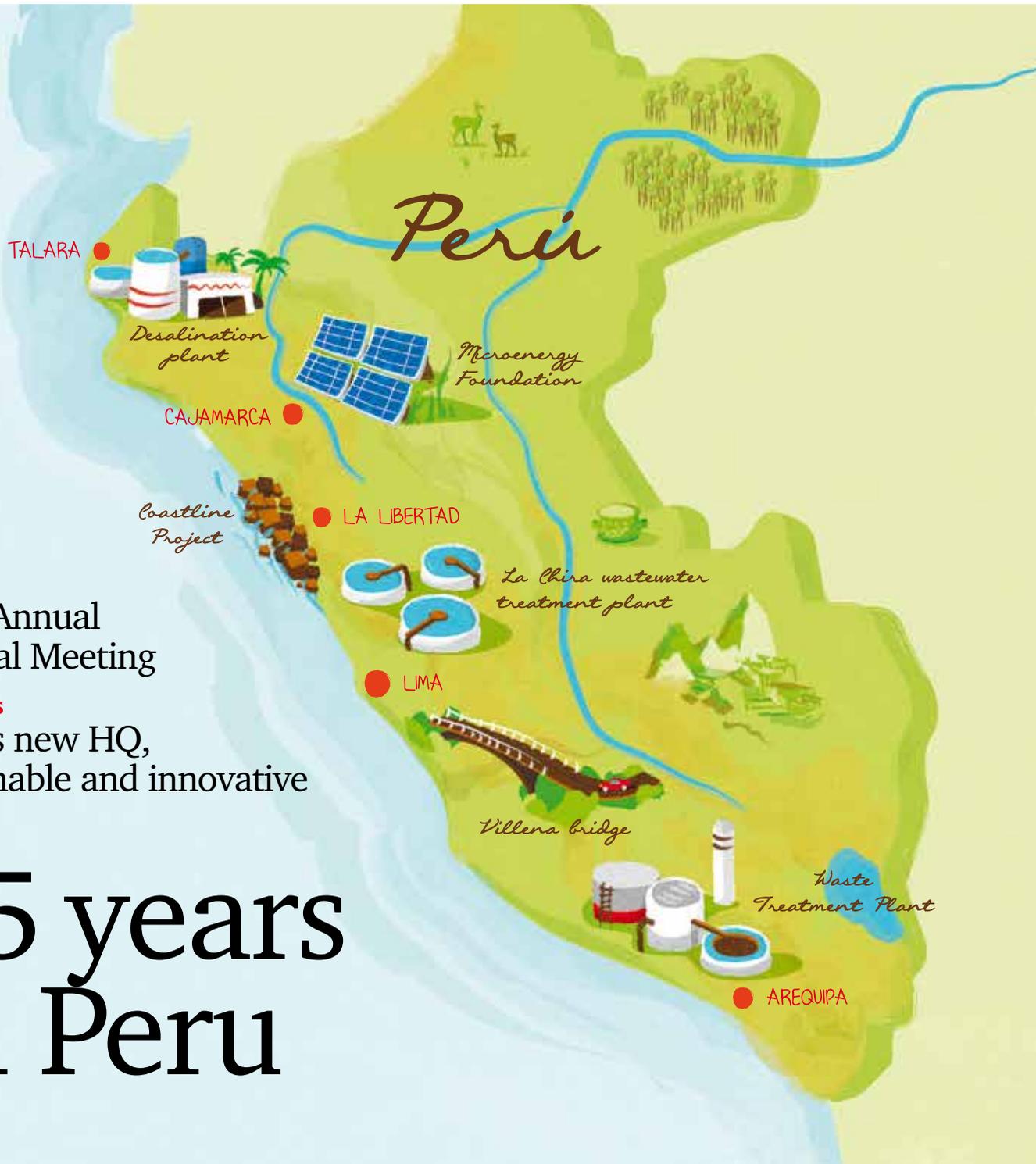
Waste Treatment Plant

FOCUS
2015 Annual
General Meeting

SOLUTIONS
BBVA's new HQ,
sustainable and innovative

MARKETS

15 years in Peru





Discover our latest news, the most recent job offers and find out who you know in ACCIONA so that you can contact them from our page on **LinkedIn**.

Follow us and make the most of its advantages!
<https://www.linkedin.com/company/acciona>

LinkedIn is the biggest professional network in the world. It is a virtual business card holder which is constantly updated. Having an active profile can be an advantage to you as a professional.

Join us on

Linked in™!



We want to be different

Being different means making a constant effort to change step, adapting to the reality in which we develop our talents, while exploring new frontiers and daring to conquer them. ACCIONA has succeeded in embarking on a new phase, relying on sound management skills to counter a difficult economic and regulatory environment, while staying true to our renewable energy vocation and entrepreneurial vision.

This effort to adapt has seen us diversify strikingly. Countries as distinctive as South Africa, Peru and Qatar have become promising destinations for the diffusion of our commitment to a less-polluting energy model, efficient management of a resource as precious as water, engineering as a basis for empowering and enriching a country, and the added value of services performed to excellent standards.

Making a difference means offering something different to our clients. In this respect, see our effort to assure that desalination - already accepted as a viable alternative in obtaining fresh water - becomes more sustainable as a process, by reducing the amount of energy it consumes. Because we want to desalinate differently. Make it more competitive.

A different perspective also helps bring about change. Using drones to fly over our projects not only gives us a bird's eye view, but, fresh detailed, digitized information that facilitates our operations by helping us to see things in another way...

The aim for our new headquarters for BBVA was for it to stand out in a crowded cityscape - not only because it is a spectacular and technically stunning architectural project, but also because we believe in enriching workplace environments and raising the standards of sustainability in building construction.

Acting with personal commitment sets us apart from the rest. It's what makes us unique. ACCIONA volunteers want to do things differently, because they want a different world, and they demonstrate this by their involvement. The Company in which they work also takes up the torch to raise these social and environmental commitment in international fora and is seeking to convince COP21 to open up to new horizons. We are fighting to bring our principles to bear, because we want to be different.

Contents



No 61

July 2015

Published by:
Department of Communication
and Corporate Image
ACCIONA, S.A.
Avda. de Europa, 18
P. E. La Moraleja
28108 Alcobendas
Madrid. Tel: (+34) 91 663 22 87
E-mail:
comunicacioninterna@acciona.es
Design and Production:
MRM // McCann
Legal Deposit:
M-12560-2015

The paper used for making this magazine is chlorine-free and originates in sustainable forests. FSC certification, promoted by the Forest Stewardship Council, assures that forests are managed responsibly and that traceability is maintained throughout the entire process of transformation and finish of the product.



Editorial

3

We want to be different

MORE INFO



Follow us on



Focus

2015 Annual General Meeting

06-07

ACCIONA Chairman José Manuel Entrecanales told the General Shareholders' Meeting that the results of the efforts and management of recent years had returned the Company to the path of growth.

Markets

Renewable roll-out in South Africa

08-11

Sishen photovoltaic plant and Gouda wind farm open the way to ACCIONA for new projects in the country.

Markets

ACCIONA in Peru

12-17

Manuel Cáceres, ACCIONA country director for Peru, tells us about the three main projects the Company is developing there.

Get to know

Nature restoration for indigenous species

18

ACCIONA Environment is carrying out a Conservation Project in the mountain wetlands of the Fuentes Carrionas Natural Park in Palencia, Spain.



Get to know

Energy efficiency in desalination plants

19-21

Advances in efficiency and reduction of energy consumption have been key to consolidating desalination as an important source of fresh water.

Markets

Qatar selects ACCIONA to provide services

22-25

ACCIONA Service has consolidated its presence in Qatar by winning various contracts for integrated management, cleaning and waste collection.

Solutions

Allied to flight

26-27

ACCIONA continues to explore the use of drones to carry out plant maintenance and optimize project monitoring on the ground.

Solutions

New HQ for BBVA

28-33

ACCIONA has built a new HQ for BBVA bank, which has become a landmark in Madrid.

Con_science

Protecting the environment

34-35

ACCIONA actively collaborates and participates in different forums and initiatives with the aim of halting global warming.

Sustainability

Volunteer Day

36-37

ACCIONA volunteers lead workshops for over 8,000 pupils in 12 countries.

Commitment

Social initiatives

38-39

Social commitment is our hallmark, a challenge ACCIONA and its employees assume with passion.

Social networks

#ACCIONA ontheNet

40-41

The Company has operated in social networks since 2009, making use of their many advantages and possibilities.

News roundup

42-43

A summary of ACCIONA's news and events over the past four months.

2015 Annual General Meeting

ACCIONA faces the future with strong prospects

The results of the Action Plan implemented by the Company point to future growth.

→ *For the fourth year running, the Sustainability Report was approved by the AGM with 99% of shareholders attending voting in favor*

ACCIONA Chairman José Manuel Entrecanales told shareholders at June's Annual General Meeting that the results of the efforts and management of the past several years had returned the Company to the path of growth after weathering a "perfect storm".

It has seen ACCIONA implement an ambitious Action Plan through which the Company has achieved:

- A 67% reduction in gross annual investment compared with pre-regulatory reform levels.
- Asset sales and new investment partners netting more than one billion euros.
- Annual savings of 70m euros in operating costs.
- A 32% cut in senior management pay last year on the year before, and an average cut of 27% over the three previous years.
- A transformation of the Group's sources of corporate finance, from predominately bank lending.
- The elimination of the dividend in 2013.

To the future

As to the future, Mr Entrecanales expressed his confidence for the prospects in the main business areas of the Company. In renewable energies, he underlined its "solid



José Manuel Entrecanales during his presentation to the General Shareholders' Meeting.

position in regions with stable regulatory frameworks, with access to long-term finance and with great energy needs.”

Key countries were “Mexico, Chile, India, South Africa, Brazil, Turkey and Morocco - markets where we will grow strongly in the next few years, either with our own projects or by undertaking projects for clients with our ACCIONA Windpower turbines.” In more mature markets, such as the US, Canada, Poland and Australia, the Company was working on selected low-risk projects in order to maintain a balanced portfolio of assets between emerging and

developed countries, he said.

In Infrastructure, the Chairman said “we continue to see positive tendencies in market segments such as urban development, transport, social infrastructure and, of course, water infrastructure”. Scandinavia, central Europe, the Middle East, Canada, Mexico, Brazil, Chile, Peru and Australia all offered significant opportunities for ACCIONA. ■

ONLINE INFO

■ www.acciona.com/shareholders-investors

BOARD OF DIRECTORS

Shareholders accepted the nomination of Ana Sainz de Vicuña as an independent director, while Valentín Montoya, Carlos Espinosa de los Monteros and Sol Daurella stepped down from the board. With these changes, the board is now composed of 11 members, a majority (six) of which are independents.

Renewable roll-out in South Africa

Sishen photovoltaic plant and Gouda wind farm, both already operating, have opened the way for ACCIONA Energy to launch new projects in South Africa, while ACCIONA Industrial is making headway with projects in the solar thermal field.

ACCIONA Energy's first renewable facilities in South Africa are already a reality. The photovoltaic plant at Sishen and the wind farm at Gouda are connected to the grid, thus achieving the initial goals of the company in this country, in which it now plans to develop further outstanding business opportunities.

Both projects are owned by a consortium, in which ACCIONA is the majority partner, including South African company, Aveng, and two community development bodies. The consortium was selected for the project in Round 2 of the Renewable Energy Independent Power Producer Procurement Programme (REIPPPP) established by the South African Government. The plants total 232 MW in capacity, making South Africa ACCIONA Energy's fifth biggest country in terms of renewable energy installation after Spain, the USA, Mexico and Australia.

250 hectares

The photovoltaic plant at Sishen (94.3 MWp) is the biggest built by ACCIO-

NA worldwide. It has 470 horizontal solar tracking structures, made up of 319,600 photovoltaic modules. If these were laid out in a straight line they would extend 327 km. They occupy a surface area of 250 hectares in the municipality of Dibeng (Northern Cape).

It is the photovoltaic power station producing the most electrical energy on the African continent. As well as having vast solar resources in the region, the Sishen plant's solar tracking structure allows greater production than from a fixed installation. It is forecast to generate annually up to 216 GWh (millions of kilowatt-hours), a figure that has been adjusted upwards since the station was commissioned at the end of 2014.

AW3000 turbines

The 138 MW Gouda wind farm (135.2 MW net) came on stream this summer. Located in the municipality of Drakenstein (Western Cape), it consists of 46 AW100/3000 wind turbine generators – ACCIONA

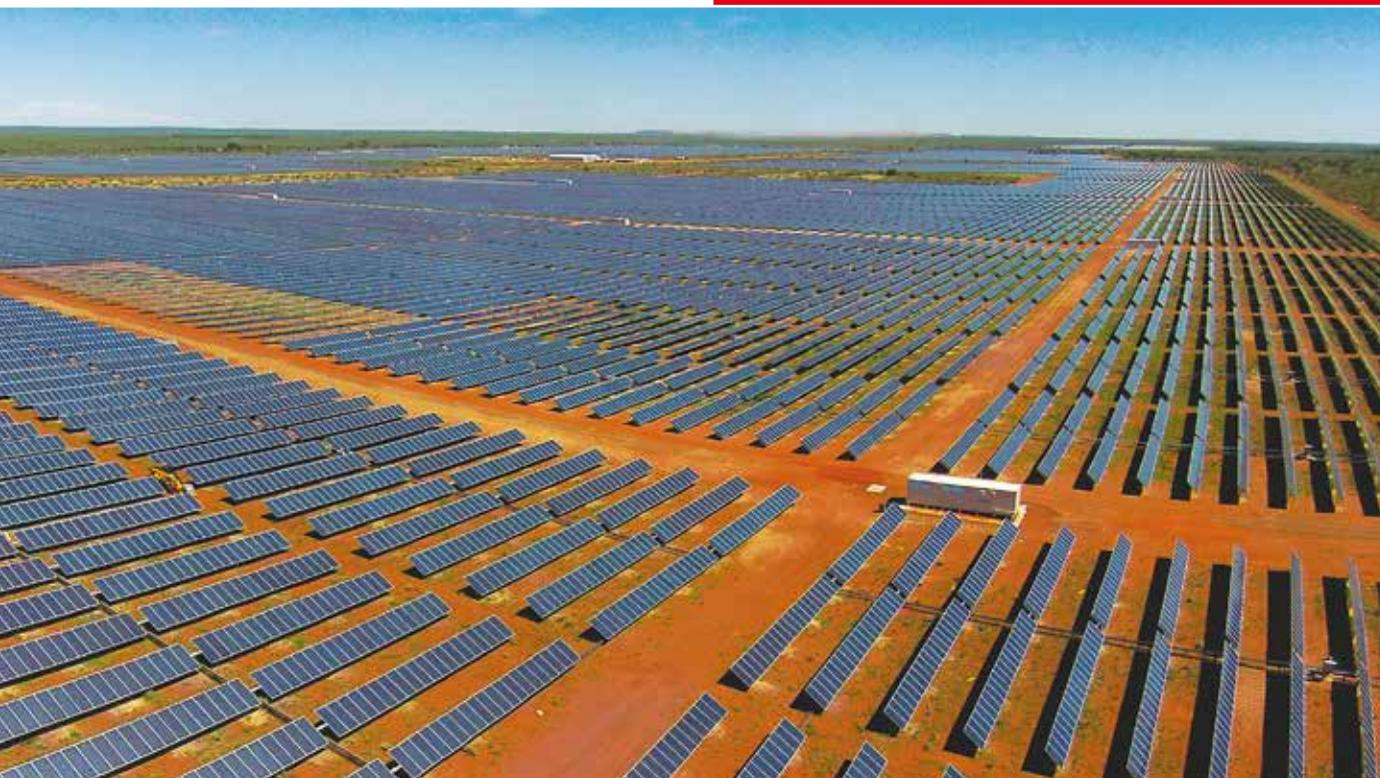


The Sishen plant is double the size of ACCIONA's previous biggest photovoltaic power station.

319,600
photovoltaic
modules
generating
energy for
100,000
homes

ACCIONA'S BIGGEST PHOTOVOLTAIC STATION

NAME: **Sishen PV plant**
 CAPACITY: **94.3 MWp (75 MW nominal)**
 LOCATION: **Dibeng, Northern Cape**
 SURFACE AREA: **250 ha**
 NO. FOLLOWERS: **470**
 NO. PHOTOVOLTAIC MODULES: **319,600**
 ESTIMATED PRODUCTION: **216 GWh**
 EQUIVALENT CONSUMPTION: **100,000 homes**
 CO₂ EMISSIONS AVOIDED: **208,000 t/year**



Windpower technology – with 100-meter diameter rotors on 100-meter-high concrete towers. The high winds in the area of the facility will allow it to produce some 423 GWh, equivalent to electricity consumption by 200,000 South African homes. It is ACCIONA's first wind farm on the African continent. ►

OUR FIRST WIND FARM IN AFRICA

- NAME: **Gouda wind farm**
- CAPACITY: **138 MW (135.2 MW net)**
- LOCATION: **Drakenstein, Western Cape**
- WIND TURBINES: **46 AW100/3000**
- TECHNOLOGY: **ACCIONA Windpower**
- TOWERS: **Concrete, 100 m high**
- ESTIMATED PRODUCTION: **423 GWh**
- EQUIVALENT CONSUMPTION: **200,000 homes**
- CO₂ EMISSIONS AVOIDED: **406,000 t/year**

Promising horizons

The launch of two significant projects in South Africa linked to Round 2 of the renewable energy support programme looks like the beginning of a business success story in the country.

In the turbine marketing section, ACCIONA Windpower wind generators are incorporated in several wind projects selected in Round 4 of the programme. Over the months to come, the terms of the respective contracts have to be negotiated, but it is reasonable to expect that the agreements will be formalized before the end of this year. These wind farms

total more than 500 MW, all of them with AW3000 turbines.

Some of the wind farm projects involved will include turnkey construction by ACCIONA Energy as well as the supply of turbines.

As for own investment, the Company will compete with projects in Round 5 and could win a wind farm project through its bid in what is known as Round 4.5, an initiative that will permit the presentation and selection of projects that were rejected in the first four rounds of the REIPPPP.

ACCIONA Windpower will also

→ *South Africa is already ACCIONA's 5th biggest country in terms of renewable energy installations*



The solar thermal plant at Bokpoort will provide 9.3 hours of operation (1,300 MWh) using a molten salt energy storage system.

*Gouda wind farm
has 46, 3 MW
ACCIONA Windpower
turbine generators.*

continue to deploy its commercial activity so that the AW3000 turbines figure in the projects selected in these rounds.

This all makes South Africa an increasingly important country in the future business strategy of ACCIONA's energy division.



► Turnkey solar thermal projects

ACCIONA Industrial has been carrying out renewable energy projects in South Africa since 2013. It currently forms part of the consortium performing the EPC contract for the solar thermal plant at Bokpoort in Northern Cape, which should be complete by the end of 2015. This is a plant of 55 MW gross with two Thermal Energy Storage (TES) plants of 36/40 m diameter and 18 m high, using molten salts. It provides 9.3 hours of operation (1,300 MWh). The plant uses cylindrical parabolic technology, 180 Senertrough loops, 150-m collectors

and Siemens turbines. The execution of the works involves the movement of 600,000 m³ of earth, 9,000 foundations and 200,000 inches of welding. Bokpoort is the second largest solar thermal plant built by the company outside Spain, after the 160 MW one at Ouarzazate in Morocco.

The commitment of ACCIONA Industrial to develop renewable energy in South Africa was recently rewarded when its consortium was chosen as the preferred bidder for the execution of the EPC contract for the future 100 MW Kathu solar thermal plant. ■

➔ *ACCIONA Industrial forms part of the consortium carrying out the EPC contract for the Bokpoort solar thermal plant in Northern Cape*

ONLINE INFO

- www.acciona-energia.com
- www.acciona-infraestructuras.com

ACCIONA in Peru

ACCIONA's various divisions have completed many projects in Peru over the past 20 years. Construction, Engineering, Water and Forwarding have all performed contracts to put the Company in a solid position in a market it wants to stay in the long term.



La Chira wastewater treatment plant in Lima.



Talara desalination plant.

ACCIONA stepped out in Peru through ACCIONA Forwarding in 1998 and, in 2000, with ACCIONA Agua, whose contract at the Talara Refinery represented a milestone, involving the construction and later operation and maintenance of the facilities there. In 2011 and 2013, ACCIONA Ingeniería and ACCIONA Construction arrived in the country, consolidating the presence of the Company's different business lines through several important contracts. One example is La Chira water treatment plant, which will serve over 2.5 million people and has helped the Company obtain a clear position in the Peruvian market for this type of project.

Then ACCIONA Construction obtained its first contracts: a 25,000 m² hospital in Huancayo and the prison at Pucallpa, the first project that is 100% ACCIONA, without the need for a local consortium.

These recent awards have positioned ACCIONA as a valued global Company able to undertake almost every kind of project, with a clear wish to stay in Peru for the long term, and the capacity to take part in the main projects put out for tender. Peru is one of the countries where ACCIONA Agua is proud to be present in both of the Company's main business lines: Construction and Water Cycle Management. The Company can be found in three important cities in the country:

Lima, the capital; Arequipa (second city by population), and; Talara (hub of the national oil industry).

TALARA

ACCIONA Agua's experience in Peru goes back to 2000, when it won the concession for Petroperú's desalination plant in Talara. This facility has a production capacity of 2,200 m³/day and, at the time, was the first industrial-scale reverse osmosis desalination plant built in the country.

Talara region is synonymous with oil, but also with drought. This is an arid northern region with a general shortage of natural water resources, which led ACCIONA, in coordination with Petroperú (the state company



Arequipa wastewater treatment plant.

dedicated to the exploration, exploitation, transport, refining, distribution and sale of oil-derived fuels), to pitch for a Concession Contract for the construction and operation of a desalination plant until 2017. The Petroperú facility captures water through an open surface intake, located next to a fuel loading and unloading quay, at a depth of 10 meters, which makes pre-treatment difficult. But this is where ACCIONA has left its mark, contributing technological capacity and experience.

AREQUIPA

In Arequipa, southern Peru, ACCIONA Agua built the wastewater treatment plant for the city and is operating

and maintaining it for three years. This plant will benefit getting on for 240,000 people (30% of the population) and will contribute to solving sanitary and environmental problems in the northern tip of the metropolitan area, as well as decontaminating the river Chili. For this, the plant needed a total of 130 workers. By biologically treating waste water, it plans to reduce the pollution burden by 90%, which will allow the water to be used for agriculture in the future.

LIMA

In the capital, ACCIONA Agua is finishing building La Chira WWTP and manages the water services for seven million residents in the city. ▶

→ *Chira WWTP was nominated by the Inter-American Development Bank for the 360° Infrastructure Award, as one of the 12 best privately-financed projects in the region that significantly benefits the population*



La Chira WWTP is a facility that will treat volumes of up to 11.3 m³/s and will give Lima a sewage-free coast. The works include building a tunnel taking raw water to the plant and an underwater outlet which will pump the processed water into the sea.

This plant will treat waste water from 2.6 million inhabitants and will contribute to solving the sanitary and environmental problems of Lima, whose collectors currently tip directly into the sea without any treatment whatsoever.

ACCIONA Agua will operate the plant for 25 years from this summer onwards.

Also in Lima, ACCIONA Agua (in association) will manage three water services contracts, involving:

- Maintenance of the networks, drinking water systems and sewers in the Southern Services Management area (eight city districts).

- Commercial management of water in two lots in the north of the city, serving over three million people over three years, for which 600 people will be employed.

These activities involve the substitution of 61 km of supply and sewage pipes, more than 17,300 household connections, as well as the maintenance of valves, fire-fighting taps and macro-meters.

In this way, ACCIONA Agua is contributing to improved potable water services in Lima, a vital task in the social development of the city. ■

ACCIONA ENGINEERING

The presence of ACCIONA Ingeniería (Engineering) in Peru is continuously growing in pace with the growth of the country. Thanks to the knowledge it has acquired in over 50 years of operations, the company is able to lend support to new civil engineering and industrial projects for sustainable economic and social development.

It is currently undertaking two highly important projects:

- **The Lambayeque master plan**, supporting the creation of a new port which will give rise to a new economic center in northern Peru. It will help diversify freight transport, 90% of which presently has to go through a bottleneck at Puerto de Callao, constrained by the slow growth of the city.

- **The Borde Costero coastal study**, for the resorts of Las Delicias, Buenos Aires and Huanchaco, responding to a historic problem of beach erosion producing serious difficulties for the tourist sector and coastal housing in La Libertad region. The study offers a solution which will halt the persistent erosion that has occurred over the past 40 years.

Other significant projects are the construction of a second bridge at Puente Villena (Miraflores, Lima), and the hydraulic project for recovering the capacity of the Tablachaca reservoir dam, part of the Mantaro hydro complex responsible for 17% of Peru's electricity.



ACCIONA Peru Country Director

Manuel Cáceres

The first objective was to inform people about what kind of Company we are, our broad experience and our diversification.

How do you assess your experience in Peru?

I came here in August 2013 and the first impression I had was of a country with lots of possibilities in which we didn't yet have a big presence. The first objective was to inform about what kind of Company we

are, our broad experience and the diversification we have, to showcase everything that makes us, not only competitive, but much more attractive to local companies looking for partners for big projects. This approach was fundamental in positioning ourselves locally as a

strategic partner for other big companies, local or international, already installed in Peru, which lack our experience in sectors such as hospitals, concessions or water treatment. In the past two years, we have won projects and our position is more solid. ACCIONA Agua has five projects underway, Construction has two mentioned earlier, and Ingeniería has won various supervision contracts. An example is our current participation in the bidding process for two of the most important projects that will be offered in Peru this year, which are: the Cabecera Hydraulic Works Project (USD 400 million), entered by ACCIONA Agua and Construction in association with two other companies, and; the Longitudinal Sierra Road Concession in which we are participating 50% with a local partner. It has a planned investment of over USD 400 million.

These contracts are important in supporting our long-term commitment to Peru...

We are completely established in the local market because we are a company that wants to be here in the long term. This is assuring for both public and private clients. Also, today, ACCIONA Peru has 128 workers, 80% of whom are local. Sustained and stable growth in the Peruvian economy has meant the country is stable for investors, was unknown until recently. This has seen a substantial increase in private and foreign investment that, along with the lack of existing ►

➔ **15 YEARS IN ACCIONA**

Technical Architect, Executive MBA, Master in Building Restoration, Manuel Cáceres joined ACCIONA's Construction business back in 2000 in Portugal. Since then, he has had a long international career in the Infrastructure division. In 2002, he was head of works for two of the stations in the Hato Rey project in Puerto Rico. He returned to Spain in 2003 as head of works in Malaga and two more as Department Director for Malaga and Melilla. Later, he moved to Pamplona where he fulfilled the functions of Department Director for Navarre-La Rioja between 2009 and 2011.

In 2011, he was made Department Director in Brazil and two years later arrived in Peru as Country Director.

infrastructure, has elicited a clear commitment for PPP and CPI (co-financed private initiative) projects. These PPPs make up the big project portfolio that is being put out to tender and for which ACCIONA's Agua and Construction divisions will be bidding both in international consortia and with local partners. The CPIs respond to a concession model that has been encouraged by the Peruvian government and which is a very interesting solution for competing for projects, mainly in the health, education and hydro sectors. CPIs consist of a private company managing the PPP, in one

of these sectors, from the start of the project in conjunction with the final client and through previously negotiated financing that is always 100% of the investment.

ACCIONA Agua and ACCIONA Infraestructure are participating in six different CPIs at the time of writing, all of them with local partners.

Which projects has ACCIONA Agua undertaken in Peru over the years?

In 2000, it built the Talara Refinery Desalination Plant, which supplies water to the system for refining processes and is still operating. Re-



1



2



3

- 1. Condorama dam, 1987.
- 2. Conduits from the Colca and Sigvas rivers for irrigating the Pampas de Majes plain, 1985.
- 3. Arequipa WWTP, 2010.



cently, the company also completed the construction of Arequipa Waste Water Treatment Plant (WWTP) for 150,000 people and will perform the operation and maintenance of the plant over the next three years. In both cases, ACCIONA Agua demonstrated its qualified experience in the most competitive technologies for this type of project. In 2015, ACCIONA Agua has won three different contracts with SEDAPAL, the public body for the Management of Services and Maintenance and Operation of Water in Lima.

What do we bring to the desalination process here?

There are many opportunities in this sector in Peru and in desalination most of them come from the private sector, mainly mining. We consider the mining sector to be an extremely important niche market (it is the most important in the private sector in Peru), and with our recent experience in Chile, where we solved part of the water stress problem in the mining industry through desalination, we are clearly well positioned at the moment to pick up these mining projects.

Which projects is ACCIONA Construction working on in Peru at the moment?

We are concluding (in association with local companies) the construction of the biggest hospital in the

The ACCIONA Microenergy Foundation in Peru began the *Light at Home* program in 2008 which has succeeded in taking electricity in the form of photovoltaic panels to more than 4,000 families and 16,000 people in isolated rural villages unconnected to the grid. The Foundation aims in future to continue collaborating with disadvantaged communities in the region of Cajamarca and plans to install the same model in neighboring regions.



city of Huancayo. It has a surface area of 25,000 m² and a capacity of 175 beds, with an initial cost of around 42 million euros. We also won 100% of the contract for the new prison at Pucallpa, in the Amazon rain forest region of Ucayali. This project involves the extension and restoration of the existing prison, with the extension representing a surface area of 19,000 m². The project will allow the prison to increase its capacity to house approximately 1,300 inmates and is worth 24 million euros. ■

→ *Sustained and stable growth in the Peruvian economy has made the country newly stable for investors*



Restoration of wetlands for indigenous species

ACCIONA Environment is undertaking an important conservation project in the mountainous wetlands of the Fuentes Carrionas Natural Park in Palencia, Spain. The restoration work involves improving degraded habitats that are on the verge of disappearing from the planet forever.

Some 60% of wetlands and natural lakes in Spain have disappeared over the past 40 years, according to the Ministry of Agriculture, Food and Environment, in its Strategic Plan for the Conservation and Rational Use of Wetlands. This is due, among other things, to invasion by visitors to the area and climate change.

Intensive mining in the 1980s damaged areas of the wetland and restoration efforts at the time were only partial and ineffective. This new project, however, has created new wetlands by restoring the derelict coal mines and other zones damaged by livestock activity.

Indeed, the general deterioration of the mountain compromised water quality and quantity, interfering with the final reproductive stages of amphibians in the wetland, where 12 of the 29 amphibian species native to Spain live and breed. These species are considered at risk, of special interest and sensitive to any alteration of the habitat. Almost all of them feature in the Red List of Threatened Species of the International Union for Conservation of Nature (IUCN).

Restoration

ACCIONA Environment is also replanting around 350 indigenous

tree species in the area, repairing and erecting livestock fencing and making natural sources of fresh water fit for consumption once more by fauna, thus helping the general restoration of the area to as it was in the past and thus helping revive its ethnographic heritage.

Thanks to the project, new wetlands have been created, others have been recovered and the habitat of several of the species of amphibians has regenerated. The aim of colonizing nature in these areas, to help indigenous flora and fauna survive, is being well and truly accomplished. ■

Energy efficiency in desalination plants

Seawater desalination capacity worldwide will reach around 100 million m³/day in 2015. Advances in efficiency and reduction in energy consumption have been crucial in proving desalinated water can be an important source of fresh water. Now the challenge is to improve further on the technology's competitiveness.

The main aim of the Department of Research and Development at ACCIONA Agua in the area of desalination is to develop innovative technologies and processes to achieve improved energy efficiency. The ultimate

objective is to produce clean water at the lowest energy and environmental cost.

ACCIONA Agua R&D projects in the area of desalination focus on each and every process in a desalination plant, and aim in turn to develop new high-efficiency processes that consume as little energy as possible.

→ *A good example of an innovative project is HYDROBIONETS, which is developing a wireless sensor to measure the real-time rate and degree of membrane soiling*

Pretreatment systems

- ACCIONA Agua is working on the development of a highly innovative, efficient flotation system, the **ULTRADAF-EVO**. This system will act when algae is in full bloom and provoking operational problems in the reverse osmosis process. Energy efficiency will be improved with respect to conventional systems thanks to better design and the inclusion of nanotechnology.
- Another project is the development of a membrane-based pretreatment called **HIFLUS**, a process that will work at high flows and in problematic operational conditions while





Get to know

- ▶ maintaining high levels of energy efficiency.
- Also related with pretreatment is the **VETRA** project, focusing on the development of a wide portfolio of processes that can be used for the treatment of wastewater from the washing operations that are performed in desalination plants. The objective is to obtain high levels of water recovery at low energy consumption.

Reverse osmosis

- ACCIONA Agua is also working on the development of real-time control systems. A good

example of this type of project is **HYDROBIONETS**, which consists of the development of a wireless sensor to measure the real-time rate and degree of membrane soiling. This will permit the operation of reverse osmosis systems in real time so that energy efficiency can be increased while controlling and preventing soiling.

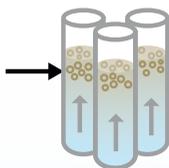
- Finally, the company is also working on the process of **REMINERALIZATION**. The aim of this project is to develop a post-treatment process that will achieve high levels of calcium while producing a high-quality effluent in turbidity terms.



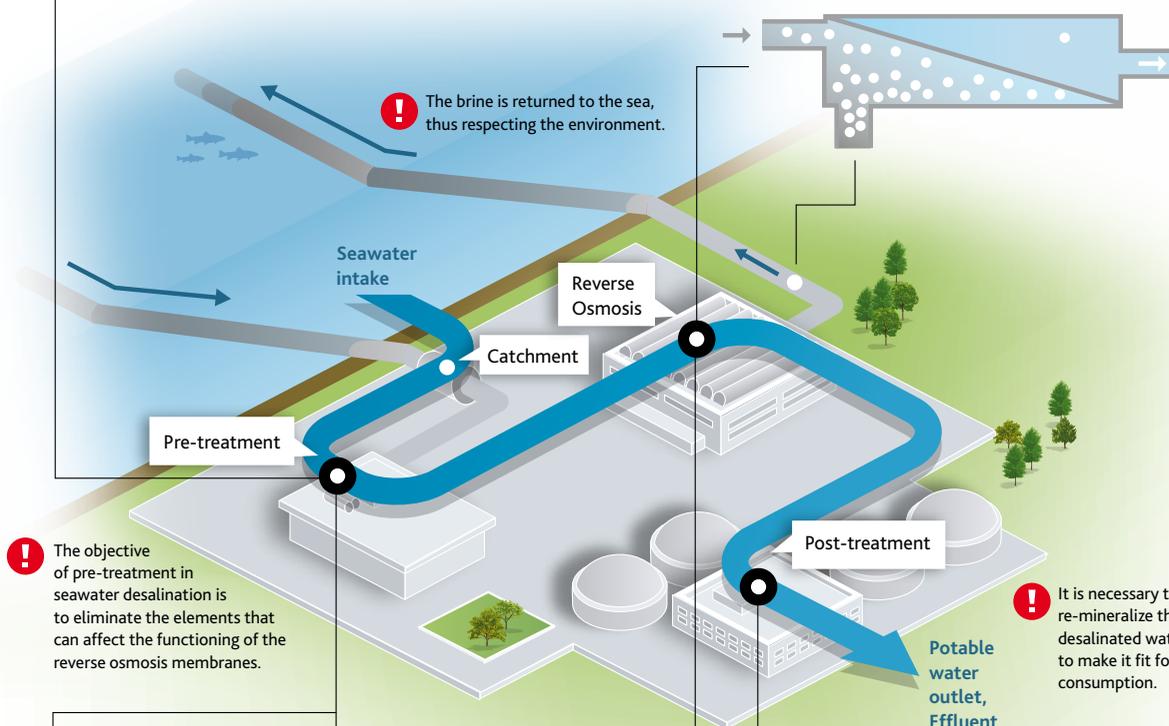
ACCIONA Agua R&D projects in the desalination field focus on each and every process in a desalination plant.

R&D to improve the efficiency of desalination plants

1 **ULTRADAF® EVO:** System of fast solids separation through improved flotation in seawater treatment plants. It is mainly used in cases of a sudden increase in an algae population. The ULTRADAF® EVO system will have lower energy consumption as a result of improved design and operation of both the flotation phase and the clarified water collection system.

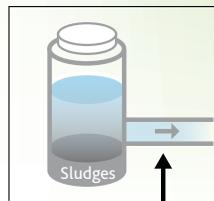


! The desalination of seawater is achieved by using a reverse osmosis membrane that is permeable to water but not to dissolved salts.

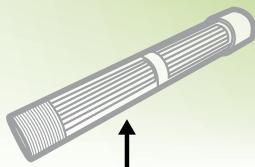


! The objective of pre-treatment in seawater desalination is to eliminate the elements that can affect the functioning of the reverse osmosis membranes.

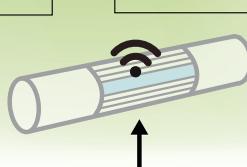
! It is necessary to re-mineralize the desalinated water to make it fit for consumption.



2 **VETRA®:** Technology for the treatment of waste streams that are produced as a consequence of reverse osmosis desalination. The project focuses on discharges from washing and backwashing operations in the pre-treatment phase. It makes better use of membranes and concentrates the effluents in the form of solids, thus achieving a much lower level of waste and the re-use of the filtered water.



3 **HIFLUS:** A pre-treatment system applicable to reverse osmosis desalination plants treating open intake seawater. It is based on the operation of membranes under extreme conditions or at very high flow rates. As a result, each plant needs a smaller number of membranes, which reduces the operating and capital costs of the plant considerably.



4 **HYDROBIONETS:** The first wireless system that allows the real-time detection of biological fouling in the water treatment membranes, the main cause of loss of their operational capacity in desalination plants. Fouling prevention and control will lead to lower consumption of both chemical reagents and energy.



5 **REMINERALIZACIÓN:** This project develops a compact technology that increases the efficiency of the remineralization process and reduces the associated impact on the environment.

ONLINE INFO

www.acciona-agua.com

Employees of ACCIONA Service at different medical centers owned by the Hamad Medical Corporation (HMC).



Qatar trusts ACCIONA with important services

ACCIONA Service has strengthened its presence in Qatar through several contracts providing integrated management and services for hospital cleaning and waste collection, schools, embassies and hotels, and flagship projects involving ACCIONA Productions and Design.

ACCIONA Service has been selected in recent months to perform the management of auxiliary services for the Argentine, Peruvian and Paraguayan embassies, as well as cleaning and waste management for three big hospitals and around 50 medical centers owned by the Hamad Medical Corporation (HMC), in Qatar. These contracts add to others awarded to ACCIONA over the past year to provide a diverse range of services in hotels, schools and museums. ACCIONA Service began operating in Qatar in 2013, when

it signed an association agreement with GSSG (Ghanim Bin Saad Alsaad & Sons Group Holdings), an important company in the trade, engineering, aviation, education, information technology and automobile sectors. Now ACCIONA Service is a benchmark for the provision of non-core business services for public and private clients in the country.

Active in health care

In the hospital sector, through its participation in ACCIONA-GSSG Facility Services, the Company

won the contract for cleaning and waste management at Al Wakrah, Al Khor and Dukhan hospitals, as well as at two emergency pediatric centers, five health centers and 50 emergency medical services centers, all belonging to HMC. It is also servicing HMC's central warehouse.

ACCIONA Service will also provide kitchen auxiliary services at Hamad General Hospital and the new Hamad Medical City. The total worth of the contracts is 145 million Qatar riyals and they are to last for five years, employing over 500 people.

ACCIONA has thus entered the



ACCIONA has entered the Qatari hospital services sector in partnership with HMC



Qatar hospital sector in partnership with HMC, the main public health entity in the State of Qatar and which is attached to the Ministry of Health.

Diplomacy in hand

Three embassies —those of Argentina, Peru and Paraguay— have trusted ACCIONA with the management of their auxiliary services. In the case of the Argentine and Peruvian embassies, ACCIONA is entrusted with integrated management, i.e. the Facility Management of all its services



Right, SEK International School, for which ACCIONA Service has been providing full support services since September 2013.



→ *The Company became a supplier of auxiliary services for three prestigious educational centers in August 2014*



► for one year (renewable), from maintenance and cleaning to even disinfection and control of plagues. The Paraguayan embassy has also asked ACCIONA to perform the cleaning and disinfection and pest control work.

Back to school

Among other recent contracts, the Company through its subsidiary in August 2014 became the provider of auxiliary services for three of the most prestigious education centers in Qatar, two of them belonging to the Sherborne International School and the other to the Finland-Qatar International School, all in Doha. The contracts, of two years' duration, cover the integrated management of cleaning, waste management, gardening and security services, and full maintenance of buildings (classrooms, laboratories and libraries) and other installations such as sports facilities.

Indeed, in the Qatari educational sector, ACCIONA Service has a large portfolio of clients, including the

MUSEUMS THAT COME ALIVE

ACCIONA Producciones y Diseño (Productions and Design), a part of ACCIONA Service, has in recent years notably increased its activity in the Middle East with projects in Qatar. Two of the most important are for Doha's Museum of Islamic Art and the Qatar Orientalist Museum, at which the company has put on several exhibitions.

In the next few months, a new museum project carried out by ACCIONA Producciones y Diseño will open, "Msheireb Downtown Doha Heritage Houses". This involves the development of a complex of four thematic museums located in traditional Qatari houses, for which APD has undertaken the technical development and curatorial work. These museums, owned by the Qatar Foundation, will together form one of the main attractions in the restored quarter of Msheireb Downtown Doha. Once the renovation of

the quarter has been completed in 2016, the district will become Qatar's center of government and culture. ACCIONA Producciones y Diseño has also been responsible for several temporary exhibitions in the country. Two of these were in the Museum of Islamic Art: one dedicated to the diplomat, Hans Ludwig von Kuefstein, "Heritage of Art Diplomacy: Memoirs of an Ambassador", and another on pilgrimage to Mecca, "Hajj: The Journey through Art". A third took place at the Al Riwarq Exhibition Hall, entitled "The Art of Travel: Bartholomäus Schachman (1559-1614)".

Also this year, for the first time, ACCIONA Producciones y Diseño put on an audiovisual spectacular in Qatar. The Ali Bin Ali Group chose the company to launch its Katara Plaza commercial, cultural and leisure complex with a presentation for the media, international investors and top fashion professionals.



ACCIONA Producciones y Diseño (APD) put on its first audiovisual event in Qatar in 2015 with a presentation of the Katara Plaza shopping mall.

SEK International School, to which it has been providing full support services since September 2013.

Five-star services

ACCIONA-GSSG also provides auxiliary services to the hotel sector, the highlight being the contract signed with Al Diyafa

Hotel Apartments, a five-star luxury establishment in the heart of the Al-Sadd district. The services, which ACCIONA-GSSG began performing in October 2014, include cleaning of public areas as well as bedrooms, and managing the integrated maintenance of the facilities. ■

ONLINE INFO

■ www.accionaservice.com

Flying over ACCIONA

ACCIONA continues to explore the use of drones to carry out plant maintenance and optimize monitoring of projects from above.

The use of drones in civil engineering is becoming increasingly important and will be more common in the medium term. Drones are forecast to become one of the main support tools for the engineering, development, control and monitoring of works, due to multiple advantages compared to conventional techniques. They are highly flexible in acquiring aerial data, taking high-res photos from afar, reduce costs and contribute to occupational safety in high-

risk areas. ACCIONA's Innovation Department has been exploring the possible applications of drone technology, carrying out initiatives to demonstrate their usefulness and how they can be adapted to perform diverse activities.

Civil engineering

The first experimental flight with fixed-wing drones was made in May 2015 to survey the B-40, the Barcelona Orbital motorway (Olesa de Montserrat-Viladecavalls section),

for Spain's Ministry of Public Works. This is a project consisting of a 6 km, six-lane motorway, 1.3 km of which is in tunnel.

The data was recorded in a very short time and the images processed gave a cloud of 3D points from which a metric-precision vector-based GIS map could be reproduced. Once the data are recorded, the processing can be done in just three days and then the work continues using digital cartography. Using the drones allows 60-70 hectares to be covered within an hour, compared to the 2-3 ha/day possible using traditional methods.

There are two areas of use for drone mapping in civil engineering:

- Creation of digital models of the ground: thanks to geo-tracking and periodic data gathering, measurements can be taken, modifications recorded and a history compiled of the progress of the works from start to finish.
- Project development carried out at the engineering level by making use of resolution power down to 4 cm.

Plant maintenance

ACCIONA Energy began a pilot project in 2014 on the use of drones



Using drones, ACCIONA is reaffirming its belief in innovation to increase efficiency.

➔ *This technology allows 60-70 hectares to be covered in an hour compared to the 2-3 ha/day possible before*

with RGB (Red, Green, Blue) and thermal-imaging cameras in the control and maintenance of plants. By employing this technology, ACCIONA reaffirms its belief in innovation to increase the efficiency of inspection and maintenance processes, saving on costs and time compared to traditional plant monitoring and control techniques. ■

NOTE:

Drone flying is subject to legislation and requires a pilot license.

VISUALIZE THIS PROJECT WITH AUGMENTED REALITY

- Download the application 'Visuarteck Augmented Reality' into your smartphone or tablet through App Store or Google Play.
- Open the application and introduce the username 'acciona'. Then select the section 'B-40' in the lower blue drop-down menu.
- Click on the button 'Ver RA' and download the model. Place the tablet or smartphone over this photo and visualize the virtual reproduction of the road.



New HQ for BBVA: smart, sustainable, innovative... and a landmark in the city

ACCIONA has built the corporate headquarters of one of the biggest banks in Spain and made it one of Madrid's architectural landmarks.

A star client moved into Las Tablas district, in north Madrid, just a few months ago. The building is the new corporate head office of one of the biggest banks in Spain, BBVA. The HQ, known as 'La Vela' ('The Sail'), is a striking feature, not only for the financial company itself, but all the city of Madrid. The ovoid-shaped tower, designed by Swiss architects Jacques Herzog and Pierre de Meuron, is 93 meters and 19 storeys

high, has all the majesty of a ship at sea and is a symbol of innovation and continuous progress.

Built on a 59,000 m² plot besides the highway to Burgos, the project involved construction work of huge complexity and great originality in which ACCIONA deployed all its experience.

It consists of two kinds of buildings—one vertical and seven horizontal—connected to each other. The horizontal have a long,

flat, prismatic geometry, with a large oval plaza at the center and streets running off it to access different parts of the buildings. They have three floors above ground (ground floor plus two others) and three below ground level. The floors above are mainly dedicated to offices, with services on the ground floor. Those below ground are for parking. There are 3,000 places for cars and 230 for motorcycles, access for goods vehicles, a loading bay, building

PASSIVE STEEL
post-stressed in Phase II
500 metric tons

PASSIVE STEEL
employed in Phase II
16,000 metric tons
(excluding steel in pre-existing structures)

CONCRETE
highly resistant,
used in Phase I & II
424,000 m³



Façade surface area
GLASS
 49,000 m²

Building height
VERTICAL
 93 meters

FINS
 External solar control
 2,800 units

**TOTAL BUILT
 SURFACE AREA**
 251,000 m²
 above ground: 113,000 m²
 below ground: 138,000 m²

Building height
HORIZONTAL
 13 meters

**SHRUBS
 & PLANTS**
 100,000 units
 [hanging
 400
 units]

Surface area occupied by
TREES & PLANTS
 31,000 m²

TREES
 of considerable size
 490 units



service facilities, stores, etc.

The vertical edifice, 'The Sail', is the most recognizable part of the complex, ovoid in shape, with a width of 16 meters. It was the part that required the biggest construction effort, due to its special form. Emerging from the central plaza, The Sail is already regarded as an architectural icon in the capital. It has 19 floors above ground (ground floor plus 18). The ground floor opens mainly towards

the plaza, while the first floor houses the reception foyer, and offices occupy floors two to 19. The façade is glass, reinforced with forged steel and supported by a metal framework formed by an internal structure of steel mullions and transoms. The external aluminium work is placed over this structure, with the glass fixed by structural silicon to guarantee the rigidity of the aluminium frame. The external southern face is covered with solar ►

➔ *BBVA says energy savings are 40% in the new building*



IN PURSUIT OF SUSTAINABILITY

The new BBVA head office is sustainable in that it provides a modern, healthy, working environment, while being efficient from the viewpoints of design, construction and occupation of space.

ACCIONA Infrastructure, in collaborating to achieve the objective set by BBVA, was successful in:

- Controlling erosion and sedimentation of soils, while avoiding contamination of air with dust and particles during the construction phase.
- Controlling the environmental quality of the air inside by minimizing works that could negatively affect the occupants of the building.
- Managing 100% of inert waste generated by the works.
- Sourcing 42.66% of materials regionally (within 800 km) with respect to the LEED materials budget.
- Sourcing 96.41% of wood in compliance with Forest Stewardship Council (FSC) Principles, ensuring it comes from forests managed responsibly and sustainably.
- Sourcing adhesives, paints, coatings and sealants that are low in Volatile Organic Compounds (VOC), to reduce concentrations of chemical pollutants that can damage air quality, health and the environment.
- Sourcing 100% of carpets and mats in compliance with Green Label Plus certification, fulfilling the strictest criteria for low chemical emissions.



BBVA's new head office, The Sail, built by ACCIONA.

SPECIAL FEATURES OF A UNIQUE PROJECT

- Systems for energy saving
- System to use water sensibly
- Intelligent blinds
- Automated LED lighting
- Fins on windows for sun protection and natural light utilization
- Absence of enclosed offices, walls and doors
- Soundproofed sofas for holding private conversations
- Recycling points distributed throughout the building

► protection fins on the top floors like those on the horizontal buildings, but with a different geometry.

“ACCIONA is a company with broad international experience in projects of this kind. The means and resources it made available to the project meant it was the company which contributed added value to the construction of a project as important to BBVA as this one,” commented Susana López, Project Director for the new BBVA Head Office.

Comfort and savings

The 6,000 employees of the bank who will work in the new BBVA City will be able to enjoy all the advanced features added for their comfort. They will have views and

natural light, for example, open plan offices, will use the gardens and patios as part of the working environment, etc. And all of this, designed and built according to the most stringent certification

➔ *The bank's 6,000 staff in the new BBVA City will enjoy all kinds of advanced features aimed at increasing their comfort*

requirements, will permit considerable savings to be made, mainly in energy, thanks to the use of: wall and roof gardens, solar control fins, plant canopies, natural lighting, electric vehicle parking places, recycled rainwater for the sprinkler system, etc.

ACCIONA has also bestowed on the facility a series of 20 geothermal energy probes that run 100 meters deep, and 100kW of refrigeration capacity that, as well as reducing energy consumption, allows CO₂ emissions to be cut by 2.5%. The Company has also installed 1,032 m² of photovoltaic panels in the top floor of the complex, which generate direct, continuous electric current that is transformed into alternating ►

► current by inverters. This way, some 750,000 kWh is supplied to the building annually for own consumption, reducing the electricity bill by lowering energy consumption by 3.3% and CO₂ emissions by 1.6%. Finally, ACCIONA also equipped the building with 500 m² of solar thermal installations, contributing further to the energy savings.

Susana López estimates the energy savings obtained by the bank to be 40% compared to the old head offices.

Additionally, low-volume taps and controlled water usage are reducing potable water consumption by 50%. The Project Director of the new BBVA head office also highlights the digitization plan implemented by the bank prior to the move. This has permitted it to save 80% on paper, moving to a paperless environment in which the number of printers has been cut to a minimum and there are no individual wastepaper bins. ■



BBVA Project Director
for the new headquarters

Susana López

The Sail, although it only represents 10% of the head office development, has become one of the best known landmarks in Madrid.

Susana López, Project Director for the new BBVA Head Office, believes its uniqueness and representativeness, as well as the innovative and efficient design, are the reasons this building has succeeded in becoming a flagship project not only for the bank but all the city of Madrid. “It’s a city within a city,” she explained. The building also transmits several key values: simplicity, innovation, teamwork, commitment to employees, sustainability, progressive thinking, etc.

➔ *The vertical building, The Sail, ovoid in shape and 16 meters thick, has become clearly recognizable in Madrid and required a major construction effort due to its special form*

What is new about this building in relation to others like it?

There are lots of novelties, not least the comfort of all the people working in the building. For example, there are great views and natural light. We've got rid of walled offices and use the gardens and patios as part of the work environment, as well as other informal meeting areas which are all over the building.

It also has international LEED Gold certification for sustainability, innovative systems such as chilled beams and geothermal energy, reduction of the heat island effect, etc.

What qualifies it as a smart building?

There are technological innovations at work in every corner of BBVA City, controlling and detecting temperature, humidity, luminosity, movement, etc. There is also a management system to regulate all the values automatically, optimizing consumption and detecting possible inefficiencies.

Behind every architectural work there is a concept, philosophy, certain values... Which values does BBVA aim to transmit by this project?

Simplicity, innovation, teamwork, commitment to employees, sustainability, progressive thinking.

Is there an especially original feature you could highlight? Something you can only find in this building?

The most unique thing about the project is the shape of the central building, christened by the employees them-

selves as The Sail. Although it only represents about 10% of the developed site, it is already a landmark not only for BBVA but also the city of Madrid itself.

Why is this building a model for energy efficiency? What are its values as far as environmental sustainability and eco-efficiency are concerned?

The building was designed and built according to the most stringent certification. We opted for Gold level LEED certification and have obtained ISO 14001, too. At the moment, I can confirm that the energy saved compared to the buildings we left is in the order of 40%.

How does the building function as a workplace on a day-to-day basis? Are there offices? Has a preference been given to open spaces? Are there meeting rooms, or other rooms for special uses?

The Bank took advantage of the move to a brand new office to change the way we work in the head office. The new headquarters better collaboration and communications. It eliminates closed, individual spaces – they have disappeared altogether – to promote interaction between all the members of the teams. Open spaces are valued, meeting rooms are transparent and there are many areas for informal collaboration. New technologies allow us to work in this new environment and the gardens and patios also function as improvised workplaces and meeting venues. ■



// COP21

France is to host and chair the 21st Conference of the Parties of the 2015 United Nations Framework Convention on Climate Change (COP21/CMP11), also known as Paris 2015, from 30 November to 11 December. It is a crucial event, given that a new international climate agreement needs to be reached that applies to all countries, with the aim of maintaining global warming below 2°C.

International negotiation on climate change has remained an important fixture since Rio in 1992. After the entry in force of the Kyoto Protocol in 2005, a longer term vision was established in 2007 with the Bali Action Plan and, later, in Copenhagen in 2009, a common objective was approved: to limit global warming to an increase of 2°C. Cancun in 2010 made this objective more specific by the creation of specific institutions for key issues, among them the Green Climate Fund and the Technology Mechanism.

The will to act collectively and respect the 2°C objective was reflected, in 2011, at the Durban Platform (ADP), the mission of which was to bring all countries, developed and developing, together around the negotiating table to work on a protocol, a legal instrument or a result with legal force, that will be applicable to all Parties to the UN Climate Convention. The new instrument must be adopted in 2015 to be applied as of 2020. This is what Paris 2015 aspires to do. The Doha Conference ratified the commitment of several industrialized countries to a second period of measures under the Kyoto Protocol (2013-2020) and brought an end to the Bali mandate.

Contributions

The 2013 Warsaw Conference allowed a crucial hurdle to be overcome for reaching a universal climate agreement in Paris 2015. All states must communicate their contributions, i.e. the efforts they are prepared to make to reduce their greenhouse gas emissions, before the Paris Conference so that these can be evaluated during the first half of 2015 (see www.cop21.gouv.fr/es).

ONLINE INFO

- www.sostenibilidad.com/opinion
- www.cop21paris.org

ACCIONA, ROAD TO THE SUMMIT

During this critical year for the development of a global climate change strategy, ACCIONA Chairman José Manuel Entrecanales is actively working with business and political leaders from all over the world to analyze the initiatives of the private sector to halt global warming, with the objective of driving forward the international climate agreement that will be debated in Paris at COP21. In the run-up to Paris 2015, several international meetings have already been held:

Communiqué of the CEO Climate Leadership Group urges world leaders to act against climate change

The CEO Climate Leadership Group, created in the framework of the World Economic Forum in January 2015, and of which the ACCIONA Chairman is a member, knows that the private sector must participate actively in the efforts to reduce greenhouse gas emissions, limit global warming to 2°C and facilitate the transition to a low-carbon economy.



Business and Climate Summit 2015

This Paris event brought together business and political leaders from all over the world to analyze private sector initiatives that limit global warming. The ACCIONA Chairman, José Manuel Entrecanales, took part in the Business and Climate Summit in Paris, part of Climate Week, where he argued the need to fix a price for CO² emissions and establish stable regulatory frameworks for combating climate change.



Carbon Expo, Barcelona, Spain

During the celebration of the Carbon Expo forum, the Spanish Green Growth Group (GECV), a group of Spanish companies committed to the fight against climate change, among them ACCIONA, presented the Barcelona Declaration, responding to how sustainable development can be used to help create a model of green growth in Spain, as well as making recommendations on how to bring about a green economy that is low in emissions and grows sustainably.



José Manuel Entrecanales participating in the Business and Climate Summit in Paris.

A universal, binding agreement needs to be reached that will allow us to fight climate change effectively and drive/accelerate the transition towards resilient low-carbon societies and economies



Volunteers

The values of sustainability

ACCIONA volunteers led workshops on sustainability and climate change to over 8,000 pupils in 12 countries.

ACCIONA organized, for the fourth year running, a corporate volunteer day in which our employees gave workshops on sustainability and climate change to schoolchildren aged between six and ten years old. This year, over 400 staff joined the initiative and over 8,000 pupils benefited from the classes.

The workshops were held in around 100 schools in Australia, Brazil, Chile, Colombia, Costa Rica,



Different moments in the sustainability and climate change workshops led by ACCIONA volunteers.

Italy, Mexico, Poland, Portugal, Spain, Sweden and the USA.

Sustainable awareness

The ACCIONA volunteers went to around 100 participating schools and during two hours demonstrated to the pupils that sustainability can be achieved through small actions in daily life, within the reach of everyone. Through activities and games, they showed the smallest how their lives would be without the resources they use every day.

The aim was to make them aware that, if we don't look after these resources today, they will run out tomorrow.

With Volunteer Day, an initiative held within the framework of Environment Day celebrations, ACCIONA seeks both to raise awareness among schoolchildren about the active role they can play to achieve sustainable development, and to promote the spreading of sustainability values among employees. ■

➔ *Volunteer Day is an initiative held within the framework of Environment Day*

ONLINE INFO

■ www.acciona.com/sustainability/society/volunteering

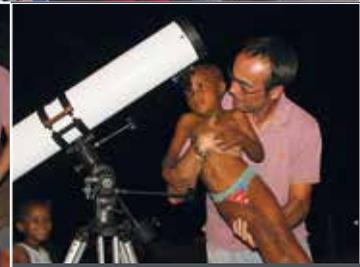
ACCIONA employees get involved in social initiatives

Employees of ACCIONA Construction in Colombia and ACCIONA Engineering in South Africa have launched social projects to improve the lives of people in areas close to where the companies are carrying out works.

ACCIONA Ingeniería, Bokpoort, South Africa

- Opening of a free toyshop for children. Many of them have never been in such a place, or seen so many toys in their lives!
- Donation, by employees of ACCIONA Ingeniería and Industrial, of computers for a classroom and equipment for a health center in the municipality of ¡Kheis.

The solar thermal plant at Bokpoort is located in the district of Siyanda in Northern Cape, where 90% of the population is living below the poverty line. Among the initiatives being carried out by the employees at ACCIONA Ingeniería, we highlight the following.



Employees of ACCIONA Ingeniería hand out toys and donate computer equipment.

ACCIONA Construction,
Bogotá, Colombia

Project MUZÚ

CONSTRUCTING STORIES:

It's their own initiative and entirely voluntary. Employees, contractors and suppliers have got together to create a storybook for children: *Muzú, Constructing Stories*. The authors and others involved have ceded the rights to the book with the aim of donating all the money collected to social causes. Two NGOs will ensure the money reaches disadvantaged children, and those at risk of social exclusion, to go towards food, medical costs and study, among other needs.

ACCIONA Construction is building a sewage and rainwater collector system in the Muzú district of Bogotá (Colombia). ■



ACCIONA employees have once again shown their commitment to social initiatives in South Africa and Colombia.

➔ *Social commitment is our hallmark, a challenge ACCIONA and its employees are passionate about*

ONLINE INFO

■ www.acciona.com/sustainability/society

ACCIONA, 4th most influential company in LinkedIn

ACCIONA is the fourth most influential company among the more than six million Spanish users on LinkedIn, according to the social network, which published the information in the article 'Learning from LinkedIn's Most Influential Brands'.

The ranking is based on the results of a Content Marketing Score, which measures the engagement of corporate pages, i.e. the interaction brands achieve with their audiences.

“Our digital marketing plan hedges strongly on the social networks. Our presence in LinkedIn allows us to inform the world about the Company, especially in those countries where LinkedIn has become the top professional network,” declared Rafael Rodríguez, Digital Marketing manager in ACCIONA.



Why LinkedIn?

ACCIONA has been managing a presence on LinkedIn for the past six years with a triple objective:

- Communication: inform the world about the Company.
- Employer Branding: detect and attract the best talent.
- Digital Transformation: ACCIONA encourages its employees to use the network as an online business card.



ACCIONA followers, the Company's loudspeakers

If you are interested in passing on what's going on in the Company, you can do so by following the **corporate profile** and recommending, sharing and commenting on our news.

→ *“Our presence in LinkedIn allows us to inform the world about the Company, especially in those countries where LinkedIn has become the top professional network”*

Rafael Rodríguez, Digital Marketing manager, ACCIONA.

#ACCIONAontheNet

We've been taking an active part in social networks since 2009, making the most of the advantages and possibilities they offer, to tell the world who we are and what we do, in order to position ourselves as the leading company in infrastructures and renewable energies, as well as to spread the message about anything to do with sustainability.

WHAT MOST INTERESTS YOU?

Another advantage of this new way of communicating is that we can get to know which subjects interest you most. Below are the items that received most chatter on the social networks over the last quarter.

MOST RETWEETS IN TWITTER

US Energy Secretary @ErnestMoniz visited yesterday our booth at AWEA #WINDPOWER15

#WINDPOWER15, the main wind power event in North America, coming in one week. See you there! Booth 3122. <http://windpowerexpo.org/>

We are part of the 7.7M renewable energy employees #REJobs @IRENA



MOST CHATTER ON FACEBOOK

We are part of the 7.7M renewable energy employees #REJobs

Providing a service to a population equivalent of 240,000 with the contract of WWTPs in Seville, Spain <http://acciona.sa/LkHrR>

Dolphins, whales, sharks... Measures to be taken to deal with 'hunting' in the oceans #WorldOceansDay #Sustainability <http://acciona.sa/O1upH>



WHAT CAN YOU DO?



Follow us to stay informed

If you are present in the social networks, we urge you to follow us in any of the networks in which we have a presence too. In this way, you will be kept up-to-date with our Company news. You will also find information related to sustainability and our job offers across the world.



Spreading sustainability

You can spread all you find of interest in our official channels. Share, retweet and recommend sustainability as much as you like.



facebook.com/acciona.English



@ACCIONA_EN



linkedin.com/company/acciona



instagram.com/acciona

ONLINE INFO

■ www.acciona.com/pressroom/social-networks

News roundup...



▲ The José Entrecanales Ibarra Foundation gave awards to the Japanese engineer Shigeo Takahashi and a cooperation project. The **Development Cooperation Prize**, presented by *Ayuda en Acción*, will benefit a region in Bolivia where lack of water supply has caused food shortages and chronic malnutrition.

- ACCIONA Windpower is to supply **129 MW of turbines for a wind farm in Mexico**. The order comprises 43 AW125/3000 wind turbine generators of 3 MW of capacity each, which will be delivered later this year.
- ACCIONA won the contract for the **operation and maintenance of San Jerónimo wastewater plant and associated facilities in Seville**. The plant serves 240,000 people.

- ACCIONA Windpower inaugurated a wind turbine plant in Brazil, the leading market for its 3 MW machine. The ceremony was presided by the Bahía Governor Rui Costa dos Santos and ACCIONA Chairman José Manuel Entrecanales. ▼



- ACCIONA will build Qatar's **two biggest desalination plants to date**. The two contracts are together worth USD 525 million, or 462m euros.
- The ACCIONA Microenergy Foundation took part in a **humanitarian venture to facilitate access to energy in refugee camps**. The public-private alliance is studying modern energy solutions for four refugee camps in northern Ethiopia.

APRIL

- ACCIONA is developing materials that can repair themselves in order to extend the useful life of infrastructure. First full-scale tests on the self-repairing materials will take place in Madrid in late 2016. ▼



MAY

- The Spanish wind power sector has launched the campaign, **Yes to wind energy**. ACCIONA has joined the initiative, based on the 2.0 platform (www.sialaeolica.com), which offers detailed information on the advantages of wind as an energy source.
- ACCIONA Agua won a contract for the **operation and maintenance of the Cuenca del Caudal sanitation system** in Asturias, which is to serve 84,000 people.
- 100 birds of prey, protected species such as barn, tawny and little owls, and kestrels, have been born thanks to nesting boxes placed by ACCIONA at its various facilities. ▼



- ACCIONA Windpower is to commission over **800 MW of wind energy in North America this year**. It will connect 465 MW to the grid in the US, 239 MW in Mexico and 102 MW in Canada.
- ACCIONA has begun building its **first wastewater plant in Trinidad & Tobago**. The project has a budget of \$102 million, or 92m euros.
- The **Light at Home** program was recognized with an **Honorable Mention** for its "scalability and long-term sustainability" by WAME, an initiative that aims to give visibility to the problem of energy poverty in the framework of Expo Milano 2015.



- A consortium including ACCIONA has been selected by Queensland Government in Australia as providing the **best offer for the design, construction, financing, operation and maintenance** of the Toowoomba Second Range Crossing motorway, in which the equivalent of some 1.1 billion euros is being invested.

- ACCIONA Agua won the operation and maintenance work for the **Rubí Wastewater Plant**, managed by the Catalan Water Agency, ACA.
- ACCIONA won the contract to supply electricity to the **Thyssen-Bornemisza Museum** in Madrid. The contract joins those signed by ACCIONA with the **Prado Art Gallery** and the **National Library** in the Spanish capital, making the Company the largest supplier of electricity supplier on what is known as Madrid's "Cultural Mile".
- **ACCIONA Windpower is to supply 99 MW of turbines to Voltaia** for a new wind farm in Brazil. The equipping of the Vila Pará wind farm complex in Rio Grande do Norte will be completed in 2016.

JUNE

- ACCIONA took part in the Inter-American Development Bank's CSR Innolabs platform with the **publication of a report on measuring and managing the social impact of projects in Latin America and the Caribbean**.



- The Navarre municipality of Falces, in which ACCIONA owns three wind farms, won an **award for rural integration of wind energy**. Falces was honored for having known how to use resources generated by wind energy to create wealth and services.
- ACCIONA Infrastructure received the **Agustín de Betancourt International Civil Works Award for the A-30 Quebec Autoroute** in Canada.

- ACCIONA Agua won the contract for the **operation, maintenance and conservation of the Wastewater Transport and Treatment Plant** for the towns of Tafalla and Olite in Navarre.
- ACCIONA Green Energy Developments won a **contract to supply electricity to Acuamed** estimated to be worth 48 million euros.

JULY

- Santiago de Compostela celebrated its patron saint with an **audiovisual and fireworks show** by ACCIONA Production & Design.





EVERY DROP COUNTS

At ACCIONA Agua, we promote the responsible use of water. That is why we work daily to continue improving our integral water management services to make them available to citizens.

Our services cover all the stages involved in the integral water management cycle, from collecting water to preparing it for drinking - including desalination - and purifying and returning it to the environment, all through innovation in design, execution and operation of water treatment plants.

