

MARKETS

Volunteers in Peru

FOCUS

Energy efficiency



**ACCIONA 100%
EcoPowered,**
first zero-emissions car
to enter the Dakar Rally



www.acciona.com



WE WERE GIVEN THE AWARD BUT WE ARE ALL WINNERS

As a reward for our daily effort on doing things properly, ACCIONA has been named world leader in the fight against climate change, heading the new CDP global index **"A List: CDP Climate Performance Leadership Index 2014"**. In addition, we were also given the best rating in environmental transparency in our history. These prizes will encourage us to continue working towards maintaining our status as the energy company which has the lowest greenhouse gas emissions in the world. Because our best reward is being able to share that with everyone.



INFRASTRUCTURE

WATER

SERVICES

RENEWABLE ENERGIES

Developing a method... to advance beyond it!

Alongside the genius of a brilliant idea, method appears to have the purpose of creating the same thing over and over again – call it serial production if you like. Yet only an exact method, proved and rigorously applied, ensures quality and excellence. And only by mastering this method can we take a step further, overtake it, improve on and question it, in order to launch a better alternative.

For the past 20 years, method, linked to innovation, has given rise to great progress in the design and efficiency of wind turbine generators. It has also been behind the fine-tuning of automation and control systems to obtain maximum performance from water treatment plants.

Monitoring and protocols helped us design a method for energy efficiency for it to become the added value in the services we offer today. Our exhaustive knowledge of materials, and systematic testing methods, have brought new properties to the fore enabling us to construct time-honored infrastructure in innovative ways.

Repetition of mundane tasks and checks is vital for safety, for example, when penetrating the depths of the Earth, whether that is in the sewers of Madrid, or a cave in Peru. Similar methods will be essential for the drivers taking part in the Dakar Rally for the first time in our zero-emissions vehicle.

The tough training that sportsmen and sportswomen go through, repeating the same exercises time and again, eventually enables them to beat personal bests. Contrast that with the leap of imagination APD needs to create unrepeatable spectacles at sporting events in which these competitors participate.

Generating goodwill in social actions requires a methodology, too, whether for the community plan we drew up for the Chiripa, Costa Rica, wind farm, or the social business model developed by the Microenergy Foundation. And systemizing such activities allows us to translate our knowhow to forums such as the Climate Summit in Lima (COP20), or display it effectively in the shop window that is today's Web.

Daily routine, systematic work and quality in all a project's stages are priceless values when translated to our business areas. From this vantage point, given our commitment to the future, we are able to discover and invent new ways of going beyond.

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*Developing
a method...
to advance
beyond it!*

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excellence

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El Perdón 20 years on

ACCIONA's first wind farm was a benchmark for the technology in Spain.

It was back in December 1994 that the first phase of El Perdón wind farm was commissioned, a facility of six wind turbine generators of 500 kW capacity each the biggest to come on stream in their day. This was the beginning of the successful journey that has transformed ACCIONA into a benchmark worldwide for the development of renewable energies.

The El Perdón complex was completed in 1995 and 1996 with 34 other turbines taking it up to 20 MW of total capacity. The facility was erected in an excellent location

for wind energy, near to Pamplona in Navarre, visible from the city and accessible by road, which allowed the 200,000 population to know, from the first moment, that this was wind power, and they could see it with their own eyes, without anyone having to explain what it was all about. This 'what you see, is what you get' factor was to favor the acceptance of wind energy by local communities in an extraordinary way.

Tens of thousands of people visited the installation in the months and years to come.

Hundreds of organizations and experts visited it with a view to copying the model in their regions or countries. From the moment it was commissioned, El Perdón gave rise to an important new industry. Renewable energy also became a part of the dynamic of school curricula, with hundreds of pupils and students touring the wind farm.

Wind power has indeed become an unmistakable byword for energy socio-economically, environmentally and technologically.

FLAGSHIP FACILITY

Capacity:

20 MW

Wind turbine generators:

40 x 500 kW

Annual average production:

67.8 GWh

CO₂ emissions avoided (*):

61,156 tons/year

Atmospheric cleaning:

Equivalent to 3.1 million trees

(*) From coal power stations.



View of part of El Perdón wind farm from the city of Pamplona, Navarre (Spain).

Brilliant growth

The 20 years that have passed since El Perdón was connected to the grid have seen the Company grow remarkably in the clean energy sector.

ACCIONA has become the biggest 'independent' renewable energy supplier in the world, in that it does not belong to a traditional electricity utility.

- We own 218 wind farms with a total capacity of 7,042 MW.
- We dispose of outstanding hydroelectric, photovoltaic, solar thermal and biomass assets.

→ *The Company has gone from 19 to 2,650 employees in two decades*

→ *ACCIONA Energy is today present on all five continents*

- In Spain, we generate over 5% of all electricity and inject nearly 18% of wind power into the grid.
- We are leaders in Mexico and

have made our presence felt in the United States, Australia and Canada.

- We are growing in Poland, Chile and South Africa.
- We have assets in India, Croatia, Italy, Greece, Portugal, Hungary and Costa Rica.
- We make our own wind turbine generator and have orders for it from 18 countries.

No one would have imagined all of this when, in December 1994, the first six turbines were connected to the grid at El Perdón. ►

➔ *Today's 3 MW ACCIONA Windpower turbines generate six times more electricity than those installed at El Perdón*

► **That was then, this is now**

The wind turbine generators at El Perdón, which appeared giants when they were first installed, now seem like mere drawings compared to the turbines ACCIONA installs at its facilities today.

20 years on and the capacity of machines —comparing those at El Perdón with modern 3 MW ACCIONA Windpower turbines— has multiplied sixfold.

The first El Perdón towers are 40 meters high, whereas today they rise to 120 metres above ground. The blades, 20 meters long at the time, are now 61.2 m; the height up to the tip of the blade today reaches up to over 182 m. Modern turbines can generate more electricity, and the same or more production is achieved with fewer machines.

The capture efficiency of wind energy has improved, too, such that



Turbines at El Perdón (1994) and Vedadillo (2014) wind farms, the latter three times the size of the former.

the turbines start to produce and reach their maximum load at lower wind speeds, meaning they can generate for more hours per year. The technology may have improved, but the turbines at El Perdón reach the 20th birthday celebrations in perfect operating condition. They are capable of continuing to

generate electricity with complete efficiency. No one has yet been able to place a sell-by date on their useful life. ■

ONLINE INFO

■ www.acciona.energia.com

FACTOR	EVOLUTION OVER 20 YEARS
Capacity	X 6
Production	X 6
Tower height	X 3
Height to blade tip	X 3
Blade length	X 3,1
Total weight (t)	X 21.8 ⁽¹⁾

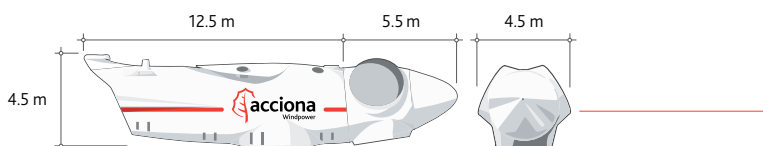
⁽¹⁾ With concrete tower.

20 years of evolving wind power technology

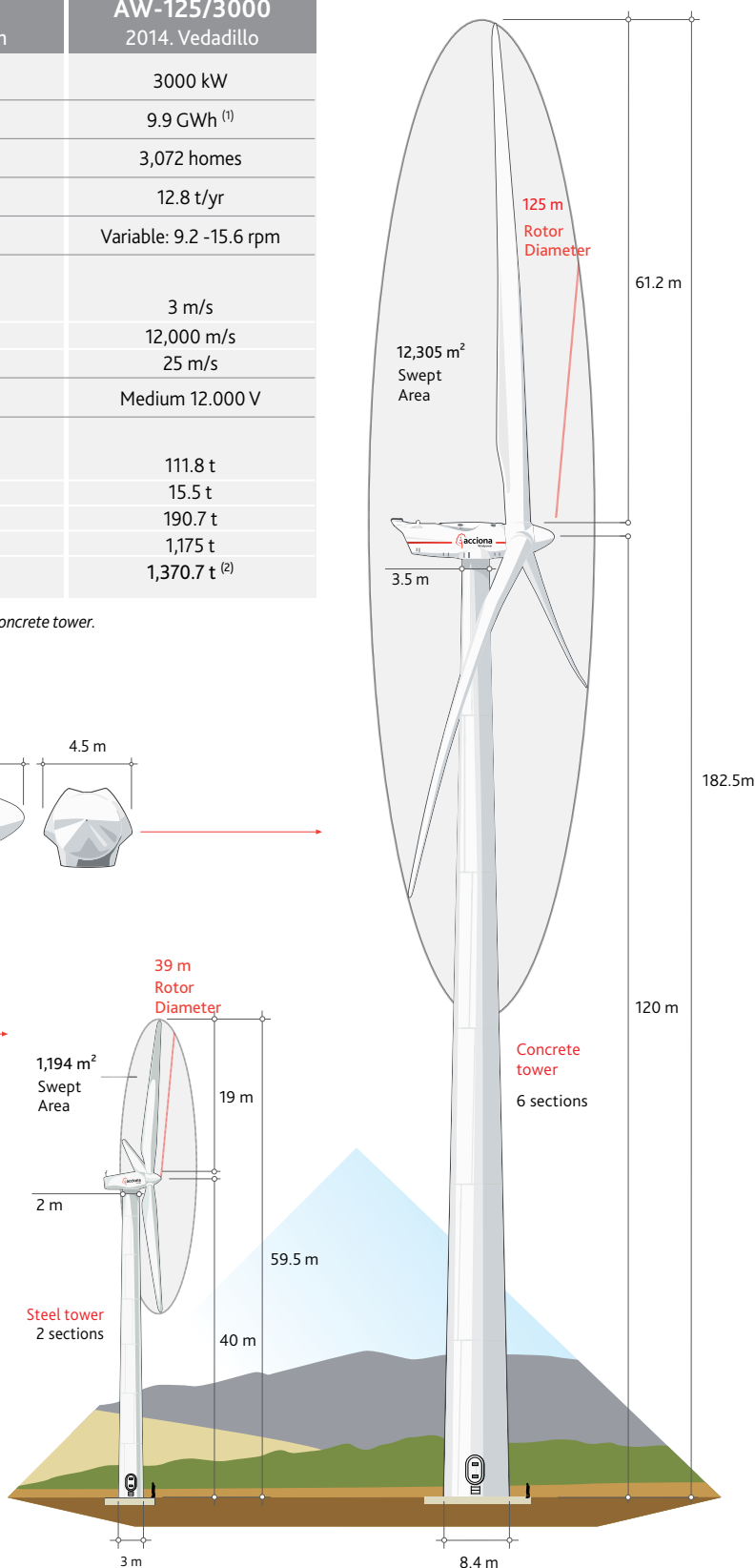
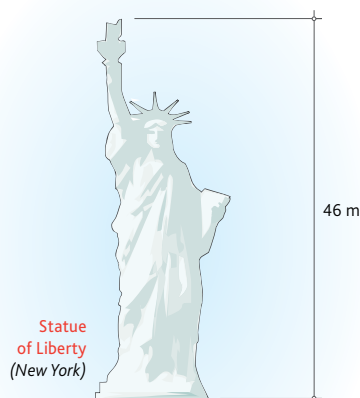
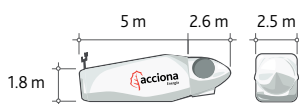
	G-39/500 1994. El Perdón	AW-125/3000 2014. Vedadillo
Nominal capacity	500 kW	3000 kW
Production	1.65 GWh	9.9 GWh ⁽¹⁾
Equivalent consumption	512 homes	3,072 homes
CO ₂ emissions avoided	1.6 t/yr	12.8 t/yr
Rotation speed	Fixed : 30 rpm	Variable: 9.2 -15.6 rpm
Wind speed		
Start-up	4 m/s	3 m/s
Nominal capacity	15 m/s	12,000 m/s
Shutdown	25 m/s	25 m/s
Generator voltage	Low 690 V	Medium 12.000 V
Weight		
Nacelle	20 t	111.8 t
Blade	1.3 t	15.5 t
Nacelle + hub + blade	27.5 t	190.7 t
Tower	35 t	1,175 t
Total	62.5 t	1,370.7 t ⁽²⁾

⁽¹⁾ Calculated using the same wind power capacity as El Perdón. ⁽²⁾ Concrete tower.

2014. Vedadillo. AW-125/3000



1994. El Perdón. G-39/500





An unprecedented project

ACCIONA is a pioneer in investing in projects which respect the Company's principles of innovation and respect for the environment. Its latest challenge, ACCIONA 100% EcoPowered, is the first fully-electric car to take part in the Dakar Rally.

ACCIONA presents the ACCIONA 100% EcoPowered, the first fully electric vehicle to participate in the 2015 DAKAR RALLY, the toughest motorsport event in the world. The car is 100% powered by clean energy, has zero emissions and will truly revolutionize the event.

This completely pioneering project will not only have to face an event in which 50% of the participants retired last year, but also the additional challenges resulting from the particular characteristics of the car, which include the following:

RANGE: a race with long-distance stages and a refuelling system designed exclusively for the car.

EFFICIENCY: electric engine and energy storage system in the most extreme conditions.

LOGISTICS: when you are the only vehicle using electricity rather than fossil fuel, you have to create a whole logistics system in order to recharge and change batteries during the race.

SOLIDITY: it is a completely new prototype which will be subject to the most extreme conditions and will prove its reliability.

Why make something even tougher and more difficult than it already is?

Because we are pioneers and could not do it in any way which did not agree with our principles.

We believe that not only can we compete in the toughest motorsport event in the world, but that we can do it differently, without generating any emissions and leading the way for others to follow in future.

BATTERIES & ELECTRIC POWER

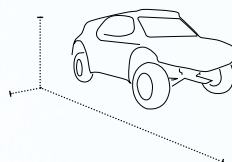
The development of the ACCIONA 100% EcoPowered has required two years of R&D&I to achieve optimum integration between the electric propulsion technology powered entirely by batteries, and the particular characteristics of a racing vehicle prepared to face such an extreme adventure as the Dakar. One of the main challenges of this project

A CAR 100% DRIVEN BY CLEAN
ENERGIES AND
0 EMISSIONS,
A PIONEER IN THE RACE

THE CAR & ITS TECHNOLOGICAL CHALLENGE

The ACCIONA 100% EcoPowered is a T1 class rally car designed in accordance with all the FIA/ASO technical and safety regulations, being the first fully electric car to compete in the Dakar.

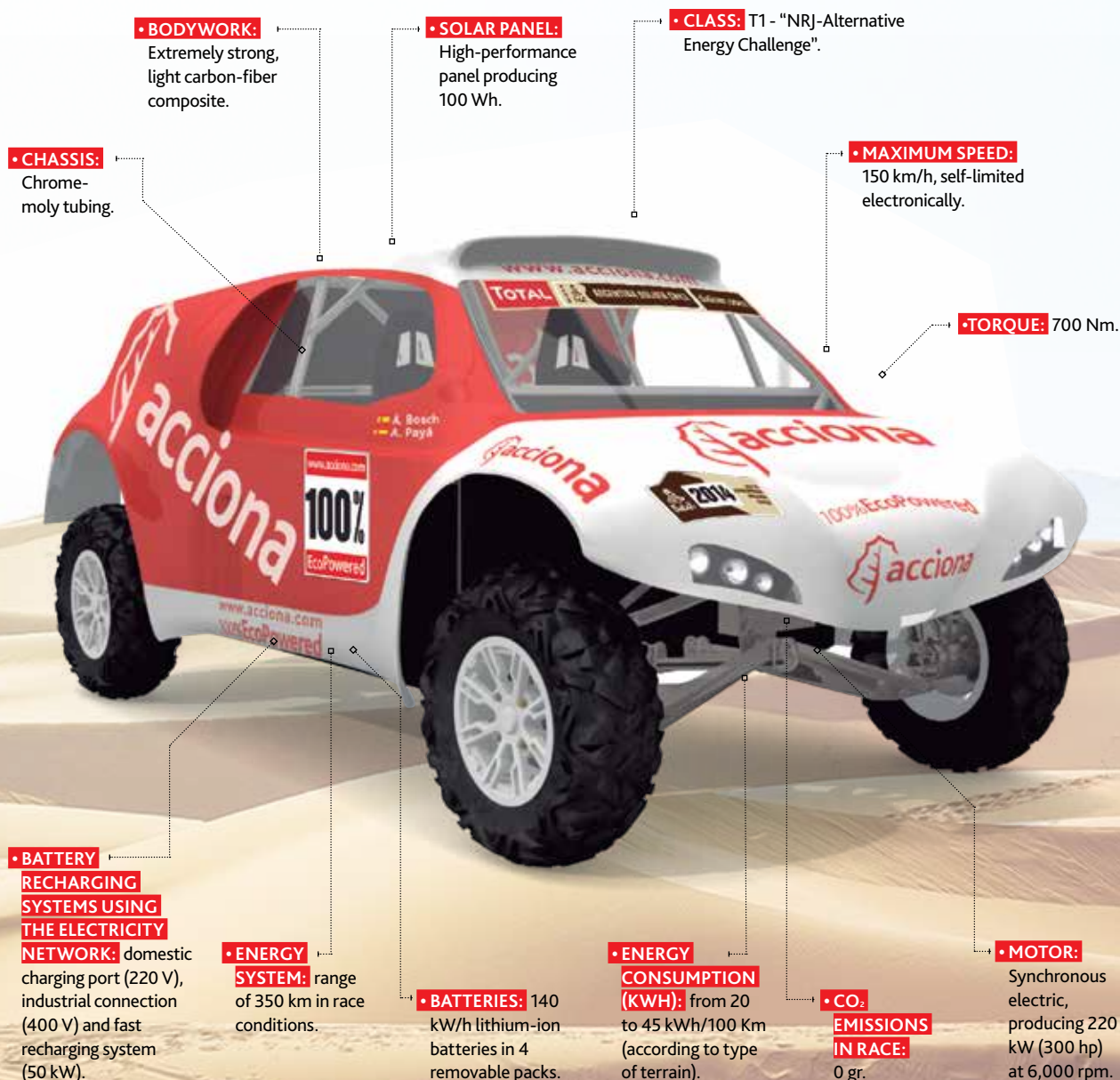
Its main features are as follows:



• **TOTAL LENGTH:** 5.05 m. Total width: 2.18 m. Distance between axles: 3.16 m.

• **HEIGHT:** (variable according to shock absorber compression).

• **MAXIMUM WEIGHT:** 2,550 kg (at maximum energy capacity). Average weight: 2,100 kg (at 75% energy capacity). Minimum weight: 1,250 kg (at 25% energy capacity).



► was to calculate and design the battery and electric propulsion system. On the one hand, we had to guarantee a high range on all types of terrain and over long distances (storing a lot of energy in the lowest possible number of batteries), and on the other, ensure that it did not overly hinder the dynamic performance of the vehicle. Its multi-faceted removable battery system, with the capacity to adopt a different number of on-board batteries according to the mileage of each stage, the energy efficiency of the motor/inverter equipped with a kinetic energy recovery system (KERS) and the logistics of in-race recharging mean that we can tackle all the stages without the need to carry a single litre of fossil fuel on board.

The on-board generation of renewable energy using a highly-efficient solar panel system

guarantees us a supply of 100% renewable energy to power all our telemetry and safety systems.

The highly-efficient (around 95%) synchronous electric motor and the inverter system for energy recovery under braking, deceleration or on downward slopes, better known as KERS (Kinetic Energy Recovery System) is another of the main features to ensure that we successfully reach the finish. A multidisciplinary team of 20 people has worked on the development of this project, which has also included the involvement of ACCIONA's Innovation Department. ■

ONLINE INFO

www.accionadakar.com



DRIVER
**ALBERT
BOSCH**

"I come from the world of motoring and mountaineering. The "7 Summits" project (climbing the highest summits in each continent) made me aware of the enormous environmental challenge that we face, and crossing Antarctica (98% solo) made me want to make a real commitment. There and then I decided that all my future adventures and general activities would be focused on contributing to the fight for sustainability. I have raced the Rally Dakar 8 times and in 2011 was the first Spaniard to participate in a car without a co-driver."

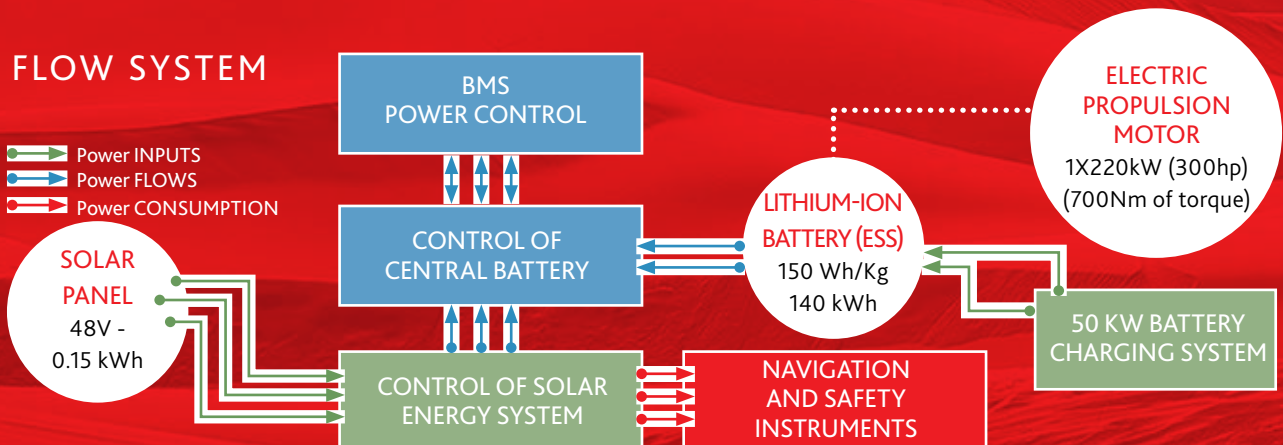


CO-DRIVER
**AGUSTÍN
PAYÁ**

"My aim as a racing driver is to show that motoring technologies based on alternative, environmentally-friendly energy are the way ahead and that these competitions provide the best testing ground for their improvement and eventual introduction into our society."

FLOW SYSTEM

Power INPUTS
Power FLOWS
Power CONSUMPTION





37 YEARS
28 COUNTRIES
CROSSED
431 PARTICIPATING
VEHICLES IN 2014
9,000 KM TO BE COVERED
IN 2015
50° TEMPERATURES
OF ALMOST
800 STAGES
UP TO 800 KM LONG



/ 37th race
// 7th race in South America
/// 13 stages
//// 3 countries: Argentina, Chile and Bolivia
///// 9,000 kilometers

acciona



DAKAR

A CHALLENGE FOR THOSE WHO GO, A DREAM FOR THOSE WHO STAY BEHIND

The Dakar Rally is the creation of a true pioneer, Thierry Sabine. After getting lost with his motorbike in the Libyan desert during the Abidjan-Nice Rally, he returned to France fascinated by the desert and adventure.

In 1978 he created what is today considered the toughest motorsport event in the world, with the motto *A challenge for those who go, a dream for those who stay behind*. Thanks to his strong conviction and a touch of madness typical of all the best ideas, the project quickly became a success.

After 30 years traveling around the African continent, in 2008, the only year in which it was suspended for security reasons, the organisers decided to move the rally to South America, primarily Argentina and Chile.

DAKAR 2015

This year, the Dakar 2015 will travel through Argentina, Chile and Bolivia in an event including several new features such as the marathon stages for all participants.

Over two days' racing, the participants will not be allowed to be assisted by support teams and will have to carry out any maintenance or mechanical repairs themselves. It is undoubtedly an added difficulty which will increase the importance of strategy for teams and drivers. This year there will also be separate routes for different categories, including alternate rest days.



Save through energy

Energy efficiency is a high-value, differentiated service which completes ACCIONA Service's offer to its clients. Indispensable to the production of goods and services, energy is a commodity with a high economic cost and big environmental impact.



*Energy Efficiency
Control Center.*

For some years now, there has been a growing interest in improving energy efficiency on the part of companies and public administrations. Energy efficiency is the series of actions that allows optimization of the relationship between the quantity of energy consumed and the final products and services obtained: making more from less. ACCIONA Service performs the management of these services by promoting a model based on a collaboration agreement with the client and by implementing an Integrated Energy Management System for the continuous improvement of energy efficiency.

Strategic positioning

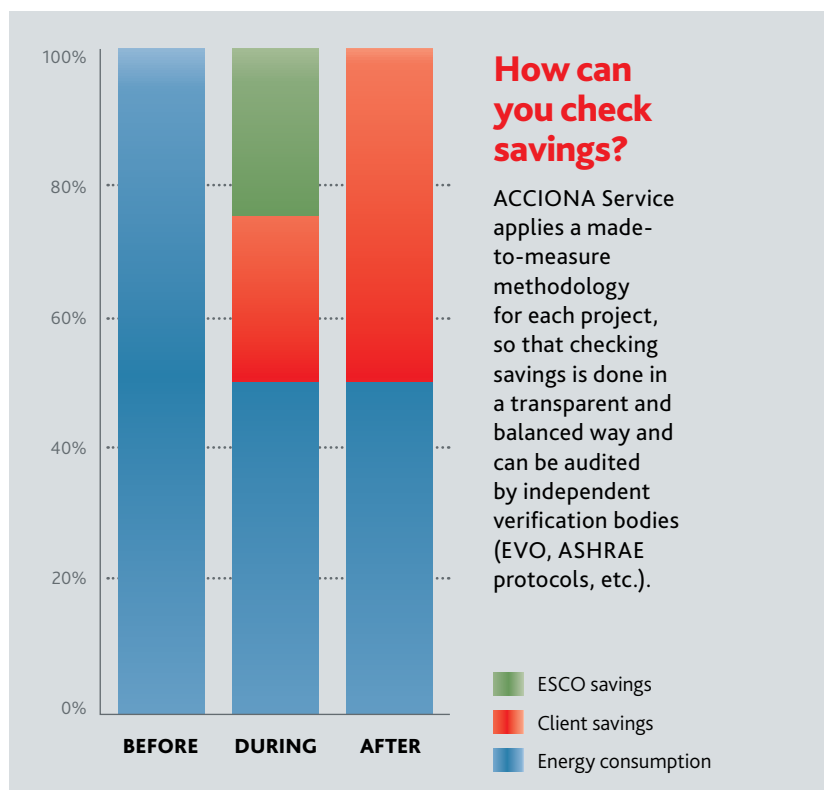
The fact that ACCIONA Service provides non-core business services for over 2,000 clients, along with the knowledge contained in its Operations, facilities and team of professionals, allows ACCIONA to get to know at first hand the needs and opportunities for improvement of each sector and client, so that it can present a personalized, made-to-measure proposal for each company.

ACCIONA Service acts as an ESCO (Energy Services Company), carrying out full projects that involve the responsibility of analyzing opportunities, designing tailor-made solutions, demonstrating technical and economic feasibility, investing in operations, and guaranteeing savings for the client.

Guaranteed savings shared

The possibility of saving energy costs is always well received by clients, but the

investment needed to do so can put them off. ACCIONA Service offers a model that consists of assuming the initial investment and sharing the savings by amortizing the investment, covering the operational costs and incentivizing the client to assume a medium-term commitment to ACCIONA as its energy manager. The client obtains part of the savings from the start of the



ACCIONA Service offers to assume the initial investment and share the savings in order to amortize the investment and incentivize the client to commit to ACCIONA as its energy manager.

SUCCESS STORIES

Monitoring as a management tool

INFANTA SOFÍA HOSPITAL IN MADRID

At ACCIONA, we place great value on the activity of energy monitoring. Our Building Control Center was a pioneer in the sector, allowing the Company to go beyond the typical activities of replacing equipment and other elements that consume energy.

Getting to know the consumption profile of a system and characterizing the variables which influence it can allow the forecasting of future consumption as a function of certain conditions: climate, activity level, people displacement, etc.

In this way, any deviation from normal consumption can be detected in real-time and corrected immediately. This concept has been key to the success of our demand management projects, such as at the Infanta Sofía Hospital in Madrid. By managing the heat loop to avoid consumption when there is no demand along with optimization of humidifiers, reprogramming of air conditioning, etc. consolidated annual savings of 13% in electricity and 34% in natural gas have been achieved.

Audits for performing tailor-made projects

INDUSTRIAL SECTOR

In the industrial sector energy consumption can represent a high percentage of operating costs.

Using more efficient equipment and technology that consumes less energy improves production processes, recovers energy emitted by some processes, and will allow operating cost reductions in industry.

ACCIONA Service has performed the replacement of lighting with 20,000 LED technology lamps at two industrial plants, leading to an energy saving of 60%.

Elsewhere, the installation of a cogeneration plant to recover the heat from flue gases given off by several industrial processes has allowed savings in the use of natural gas and an improvement in the efficiency of the facility as a whole. ACCIONA Service has performed energy efficiency projects for a large variety of clients in all sectors: shopping malls, automotive plants, government and corporate office buildings, etc. All of them resulted in important savings.



Measurement is essential for audits (left). Worker at Infanta Sofía Hospital, Madrid (right).



- project and the rest is used by ACCIONA to recover the investment and make a small profit.

Environmental respect

As well as economic savings, we are successful in reducing energy consumption and CO₂ emissions, with the corresponding environmental benefits. According to the International Energy Agency (IEA), in a 2008 study, by applying energy efficiency criteria in buildings, industrial processes, transport, supply processes and equipment, world energy demand could be reduced by a third and greenhouse gas emissions by 50% (on 2005 levels) by 2050. Also, however, companies would obtain an increasingly important intangible benefit: the improvement of corporate image as a sustainable and environmentally respectful company. ■

Energy efficiency is a tool within every company's and organization's reach, to improve competitiveness and be more respectful to the environment. ACCIONA, since its first pioneering days in sustainability, has developed this business line in harmony with the principles that define its business strategy, maximizing environmental commitment at the same time.



ONLINE INFO

■ www.acciona-service.com

On top of making economic savings, we are successful in reducing energy consumption and CO₂ emissions, with the corresponding environmental benefits



By applying energy efficiency criteria in buildings, industrial processes, transport, supply processes and equipment, world energy demand could be reduced by a third and greenhouse gas emissions by 50%.

Optimization of processes

As a response to the new technological needs that arise in the operation and design of plants, ACCIONA Agua has a department for automation, control, telecoms and software projects, which also gives support to other departments and optimizes processes using advanced solutions.



Automation and Control systems are present in all and every one of ACCIONA Agua's past, present and future projects. All the Company's processes and installations are controlled by control and automation equipment that requires specialized maintenance, updating and continuous care in order to optimize the plants and their processes. As head of the department, Alejandro Beivide, explained, "You could say that our Automation of the water cycle processes is what differentiates us from the competition. It is one of the

chief specializations of the Company as a whole."

How this department works?

Automation and Control systems are essential to all ACCIONA Agua's projects. All the processes and installations are commanded by control and automation equipment which need specialized maintenance, updating and continuous care in order to optimize plants and processes.

With which areas of the company do you collaborate?

"We work horizontally across many of

the departments of the Company in order to support them in specialized tasks and add value to their offer in the area of design competitiveness and optimization. At the moment, we are studying calls for tender to act as Automation and Tele-control solution integrators in order to generate a business line compatible with the activity of the company and which can improve our position and image in the sector as innovators and technologists. In the department, we are six people and everything passes through here, from the design of systems to their commissioning. Our aim as a team is



OUR TEAM



Automation and Control systems are present in all the ACCIONA's projects



Two of the engineers in the team, specialists in carrying out work with maximum efficiency.

Alejandro Beivide is an Industrial Automation and Electronics engineer and leads a team of five, all of them with specialist knowledge in programming and engineering. They all have different roles in which the tasks they carry out can diversify. Alejandro looks after remote control systems and industrial communications, Automation and Industrial Control Systems and the design and implementation of applications.

Jessica Ruiz is an IT engineer who is concerned with the development of applications and their security and encryption, and is also responsible for installations and projects.

Alain Fernández Bartolomé is also an Industrial Automation and Electronics engineer who performs the programming of SCADAs (Supervisory Control and Data Acquisition systems) and PLCs (Programmable Logic Controllers). Alongside Jessica, he also works on installations and projects.

David Bragado González is the team's Telecommunications engineer. He programs the servers and takes care of the telecoms systems and network configuration and management.

José Antonio López González is an industrial engineer specializing in Electronics. He is also responsible for the PLCs, SCADAs and remote control systems and their commissioning, and also works on network configuration and management.

Adrián Campos is an agronomic engineer, is the guy who coordinates and carries out the administration of both international and national projects, and prepares the offers and studies related to them.

The team has all the knowledge needed to carry out its tasks. Theirs is a very specialized and complex area, since they are dealing with the global communications and control system."The automation and control tasks are recurring ones; they are always on the agenda in the full management cycle of a project and, globally, in ACCIONA Agua's business model, combining project development with operations and maintenance of our own and third party systems," explained Alejandro.



A view of the Adelaide desalination plant in Australia, one of ACCIONA's most important projects.

► to obtain optimum, highly competitive solutions in the automation sector.”

Which significant projects have you carried out or are going on at the moment?

“One of the most important on which we have worked is the design, programming and implementation, along with the relevant execution and commissioning departments, of the **Control System for the Adelaide desalination plant in Australia**. We implemented the design and execution of the control system, including the SCADA (the Supervisory Control and Data Acquisition system) and the PLC (Programmable Logic Controller) program, as well as instrumentation, management, supervision, consultancy and control of the programming and subcontracting technology. We also did the work for, and obtained, the certification relating to the FATs (Final Acceptance Tests) of the control and communications systems,” Alejandro answered. ■

ADELAIDE (AUSTRALIA)

This desalination plant has just passed its *Proving Test* certifying that the construction fulfils all the contractual objectives as far as the process is concerned, opening the door for the return of the bank guarantees the client, SA WATER, has from ACCIONA Agua.

OTHER SIGNIFICANT PROJECTS

- Commissioning of the Torrevieja desalination plant in Alicante, Spain.
- Modifications and improvements to Fouka desal plant in Algeria.
- Collaboration in the O&M for Hadda and Arena WWTP in Saudi Arabia.
- SmartWater4Europe European project.
- Remote control system for La Unión, Murcia, Spain.
- Remote control system for Somajasa, Jaén, Spain.
- Remote control system for Andratx, Majorca.
- ISO 50001 energy management certification.
- Design, execution and commissioning of the Control and Communications system for La China sewage regeneration plant in Madrid.
- Control and Communications audits for Canal de Isabel II, Madrid.

ONLINE INFO

■ www.accion-a-agua.com

Juan Felipe Ramos, Head of Works in Madrid's Sewers and Head of Service for ACCIONA Agua Services in Yuncos (Toledo)

Journey to the center of the Earth

Technical specialist Juan Felipe Ramos explains his unusual work in the bowels of cities and tells us about the complex rescue of a Spanish caver in the Peruvian Amazon jungle.

The daily routine of his work is played out in the sewers of Madrid (among other locations) where he supervises repairs and carries out technical checks.

Juan Felipe Ramos is also a renowned caver, known in the US as a spelunker, or potholer, and he was one of the team of 60 people who took part in the rescue of his compatriot and fellow caver Cecilio López-Tercero, who was trapped underground - the subject of worldwide media interest - in the rugged and little explored Peruvian jungle in September.

What does your daily work consist of?

In the sewage system of Madrid,

I perform the technical, organizational, production and economic checks for the works. This can concern improving the network or resolving faults, flooding, subsidence or urgent jobs. I also perform administrative tasks. Part of the work is to propose improvements to the network and see they are accepted. As Head of Service for Yuncos (Toledo), I organize the preventive maintenance and urgent work, meter reading, leak discovery, water analytics, invoicing control, user management, project preparations and network budgets, quality management and health and safety at work checks.

How is your day-to-day in the Madrid sewage system?

The work we carry out in the Madrid sewers are mainly tubular, installing

channels and underground work, building brick galleries very similar to those constructed back in the mid-17th Century or even before then, the so-called water 'viajes' ('journeys').

What is Madrid like down there?

Madrid has sewage galleries over 20 m deep. The oldest are an adaptation of the use of the ancient water 'viajes'; others were built anew, dug underground and lined with factory brick over traditional concrete, or before that on granite flagstones. They feel eternal. Every time there is a break, it is due to an unusual down feed or

Madrid has sewage galleries over 20 m deep. The oldest are known as water 'viajes' ('journeys')

- ▶ a blockage, never to the collapse of the gallery by its normal hydraulic use. In some galleries, you can see the remains of stone columns, old bridges or foundations that were covered for many years due to the urban planning needs of the moment and, in some cases, we have come across old bolt-holes from the civil war era.

Is it dangerous to walk these galleries?

Yes, for someone who doesn't know the sector and work procedures. We have seen the earth subside into holes 12 m deep and 12 m across, which appear

from one day to the next. In some cases, we have emptied mortar into holes only to find out that below the surface (road or pavement) there is a cavern of over 50 meters.

Any curiosities you have come across down there?

You're always getting surprises from animal and bird life: pigeons, cockerels, snakes, rats, cockroaches, etc. Or anything that people chuck, or safeguard, down there: safe boxes, bicycles, motorbikes. I found a dressing gown in a drainpipe. As an anecdote, years ago people used to place little

baskets under the downpipes from buildings in the hope of collecting jewellery that might drop down from bathrooms.

Is caving an advantage in your line of work?

Caving gives me knowledge of how to work vertically, in confined spaces, as well as a good aptitude for, and attitude to, working down in the service galleries.

What qualities does a good potholer need?

He needs stamina for long-lasting physical duress in an 80% aerobic and 20% anaerobic environment. Perhaps the psychology is the most important. You have to control your nerves, phobias, fears, be patient, prepare to stand the cold, etc.

What led you to go to Peru to help save Cecilio?

A sense of solidarity with a like-minded fellow. Any one of us cavers could have been in the similar situation. I also wanted to help because I could. I had the capacity and necessary knowledge. I have been a member of the Madrid Federation's Speleology Rescue Committee for 14 years and have acted

PROFILE

Juan Felipe Ramos, 39, is a renowned caver, champion of Spain, ranked no.1 in 2005, and came fourth for stamina and fifth for speed in the 2006 world championships. In 2012, he took part in setting a new world record for depth (-2,197 m), reaching the maximum possible without diving gear (-2,080 m) in the Krubera-Voronya cave in the separatist region of Abkhazia (Georgia). He has twice won awards at Madrid's Sporting Federations' Union gala, including best caver in the Madrid Speleology Federation.

as Team Leader in the simulations we organize at provincial and national level. At the rescue, we were mainly members of national Speleology Rescue Committees, qualified first-aiders and potholers. Around 60 people went into the cave and others on top perform logistical tasks.

How did the rescue unfold?

Cecilio injured himself 400 meters down in the Intimachay cave in the Peruvian Amazon. To get to the cave, you take an 11 to 15 hour flight to Lima, 23 hours on a bus to Chachapoyas, three hours in a van to Leymebamba and it's a three-hour climb up to the base camp, which is 40 minutes from the cave.

The cave is an active water course with many ledges down to 150 m. Then it gets more vertical with 12-35 m deep caves, down to the depth of -400 m. We went down to where Cecilio was and took him provisions and dry clothing. I was acting as Team Leader in the first contingent of 12 rescuers. We divided ourselves into Intervention Groups (GIs) and we managed to get Cecilio out and up to -300m after a few hard 18-hour days. With the arrival of more cave rescuers, we shortened the working days and split up the rest of the difficult stages of the cave between the other six GIs. We worked frenetically to install zip-wires, counterweights, restraining equipment and traction drives. The GI under my charge raised his stretcher from -225 m to -150 m. Four other GIs left Cecilio at -100 m, and the following day the two final GIs brought him out of the mouth of the cave. As well as the hard conditions in the cave, full of mud, wet, and 10°C, outside in the camp

the conditions were not easy either. I have never been in a situation like it, neither as a rescuer or being rescued.

Do you plan to carry on with the hobby after this drama?

This sport has its risks like any other open air sport: mountaineering, climbing, canyoning, etc. In this world, there are few things left to explore: far space, the ocean depths and the underground world. The feeling of being in a place where no other human has been before is addictive, like the sensation explorers of the past experienced. Caving, which joins sport with science, can be defined as the last frontier within the reach of ordinary people.

Does your family pothole?

My wife and I practise the same hobby and our children come with us on 90% of our activities. We've been walking in the mountains with them and entering caves with them since they were a few months old. My four-year-old son has done *vías ferratas* (routes with cables to hold on to) and he has been down 60 m in a cave. We've carried the two-year-old down on our backs in a three-hour descent where there were many ledges and little vertical caves descending eight to ten meters. Logically, the kind of activities you can perform with children has to be undemanding, and this obliges us to lower our targets, but we enjoy doing this kind of activity with them very much. ■



THE RESCUE IN FIGURES

It was paid for wholly from voluntary contributions.

58 Spanish potholing rescuers.

7 members of the original expedition.

40 Peruvian military personnel, firefighters and police. Mr. Nicolás, special police envoy from the Spanish Consulate in Lima; Mr. Jabier Farje and Mr. Humberto (expedition

collaborators); 10 members of Peru's Andean Caving Club and the Bagnols Marcolé group (France), among them James Apaéstegui, experienced former rescue coordinator in the area.

Equipment on the ground

4,800 kg of material in total

2,000 m of rope

750 climbing anchors

5 hand drills

2 generators

40 tents

1 kitchen

Equipment contributed by Peruvian Air Force

2 helicopters (one of them was diverted to help out in the earthquake in neighboring Ecuador).

1 Hercules transport aircraft.



Sport as spectacle

ACCIONA Producciones y Diseño has more than 20 years' experience organizing events which create memorable experiences for spectators.

The impact of an event on the people attending it has never been more important. Indeed, it is one of the main challenges facing designers and organizers. When we speak of impact, we should remember we are talking about creating the unforgettable experience. It consists, at the end of the day, of sparking emotions, since it is emotion that makes an event memorable, fulfilling its ultimate aim.

All this is well understood by ACCIONA Producciones y Diseño (APD). Dedicated to the design and production of events, museums and exhibitions for over 20 years, every one of its new projects represents a unique challenge for the Company's professionals: how to surprise an audience already somewhat blasé about many different types of stimuli and leave a positive, lasting imprint on their memories. And when the event is associated with,

say, a tournament exciting huge media interest, the responsibility is even greater (if that's possible!).

Such has been the case with the latest work carried out by the Company, which has performed key roles at some of the best known sporting events in Europe. Last year, APD put on a striking audiovisual spectacle in Trafalgar Square in the heart of London to celebrate the holding of the Champions League Final and the UEFA Champions Festival in the city. A unique stage design, consisting of a 200 square-meter screen, recreated the form of an open ball, and captivated the public with a mapping show paying tribute to the European Cup and UEFA itself, football's top governing body in Europe.

APD also took advantage of the big interest in cycling's 2014 Tour of



Announcement
of the
13
European cities to
host Football's Euro
2020 championship



Geneva



Design and
production
of the event
applied creativity,
technology and the
'surprise' factor



Cycling's 2014
Tour of Spain



Santiago de
Compostela



Audiovisual
spectacular on
the façade of the
Palacio de Raxoi



178 countries
800 journalists
33 TV stations



Event to mark
Football's
Champions League
Final and the UEFA
Champions Festival



Trafalgar Square,
London



Stage design
for a
200 m²
screen

Spain, the final time trial of which was held in Santiago de Compostela, Spain. The Company mounted another audiovisual spectacle projected onto the central façade of the city's Palacio de Raxoi, one of several activities organized by the Galician regional government and Santiago City Council to celebrate this important annual date in the sporting calendar. The final stage was broadcast by 33 television stations to 178 countries worldwide,

and attended by 800 journalists.

The other great sporting moment to fall into APD's hands took place in Geneva (Switzerland) in September 2014. This was the ceremony to announce the 13 European cities which will host matches in the Euro 2020 football championship. This

represents a milestone in the history of UEFA, the first time several countries on the continent will host the tournament at the same time; traditionally it is held in only one or two. Yet again, APD was responsible for entertaining hundreds of thousands of people worldwide to follow the ceremony live. ■

ONLINE INFO

■ www.acciona.apd.com

The beacon lighting up the future

ACCIONA is building the first lighthouse in the world from composite materials, in Valencia.

ACCIONA has developed a composite material construction solution that allows the faster and more environmentally-friendly building of lighthouses. The technique cuts work completion time by over 40% and avoids a fifth of the pollution previously associated with such structures.

The system is being employed for the first time worldwide in the construction of the new lighthouse for the Port of Valencia. The structure is wholly manufactured from composite materials and is being developed

at ACCIONA Infrastructure's R&D center. The new kind of lighthouse is more resistant to corrosive conditions exposed to at sea and needs less maintenance work. Environmental impact during the construction phase is less and the work does not interfere with other operations at the port. The lighthouse will also include nine solar panels and a small wind turbine generator to produce electricity entirely complementary to its primary function.

The manufacture and assembly of all the components is being done at ACCIONA Infrastructure facilities in Alcobendas (Madrid)

and Noblejas (Toledo). Once the lighthouse skeleton is fully mounted, the rest of the structure will be translated to the port as a special load. The new Valencia Lighthouse replaces an old one that now falls inside the port following the latter's expansion. It will be fully operational in the first quarter of 2015, becoming the first working lighthouse in the world to be made from composite materials. ■

ONLINE INFO

■ www.accionainfraestructura.com



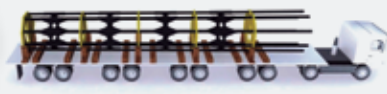
The lighthouse
in the different phases
of its production and
installation at the Port
of Valencia.

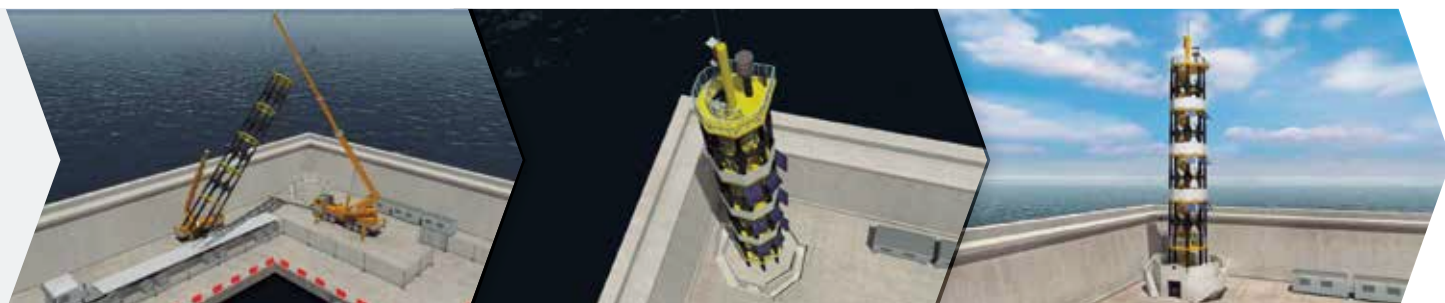
1

**PARTS
MANUFACTURE**

2

**SKELETON
ASSEMBLY**







// ACCIONA among the world's most sustainable companies

ACCIONA confirmed its presence for the 8th year running in the Dow Jones Sustainability World Index (DJSI World) —also its second year in the Electric Utilities sector — following the results of the evaluation carried out by RobecoSAM in 2014.

ACCIONA improved on the previous year both its total score and points in each of the three 'dimensions': economic, social and environmental. These results put ACCIONA at the forefront of implementing corporate sustainability policies, and represent an important recognition of its efforts and commitment in this field.

- Economic dimension – the highlight was our progress in Risk Management with respect to 2013, as well as improvements in Customer Relationship Management and Supply Chain Management.
- Environmental dimension – we obtained a high score in the Biodiversity, Management Policy & Systems and Climate Change Strategy sections.
- Social Dimension – highlighted by our improved score in Labor and Human Rights Indicators, Human Capital Development and Social Action categories. ■

// Business leadership in carbon pricing

ACCIONA participated actively in the United Nations Private Sector Forum, this year incorporated within the Climate Summit. The event was attended by representatives from 120 countries, civil society and the private sector. ACCIONA took part at the event in the presentation of the Business Leadership Criteria on Carbon Pricing organized by Caring for Climate, a joint initiative of the UN Global Compact and the UN Environment Programme (UNEP). It aims to strengthen business's role in the global strategy against climate change and raise awareness among governments and public institutions about mitigation measures.

Around 30 companies—including ACCIONA— committed themselves through the initiative to:

- Set an internal carbon price high enough to materially affect investment decisions to drive down greenhouse gas emissions.
- Publicly advocate the importance of carbon pricing through policy mechanisms that take into account country-specific economies and policy contexts.
- Communicate on progress over time, on the two criteria above, in public corporate reports. ■

THE UN'S SUSTAINABLE ENERGY FOR ALL DECADE (2014-24) IN LATIN AMERICA AND THE CARIBBEAN

ACCIONA and more than 500 representatives of governments, civil society, the private sector and international organizations from throughout Latin America and the Caribbean met in October in Santiago de Chile to launch the United Nations' Sustainable Energy for All Decade (2014-2024) in the region. The key aspects of the initiative are as follows:



ALTHOUGH LATIN AMERICA AND THE CARIBBEAN HAVE THE HIGHEST RATE OF ACCESS TO ELECTRICITY IN THE DEVELOPING WORLD, 95%, 30 MILLION PEOPLE ARE STILL LIVING WITHOUT A SUPPLY

Sustainable Energy for All (SE4ALL) is a UN and World Bank initiative in which ACCIONA was one of the first companies to join, back in September 2011. ACCIONA's Chairman, since his appointment in April 2013, is the only Spanish

representative on the SE4ALL Advisory Board. The initiative seeks to provide universal access to electricity, 30% of energy from renewable sources, and a 40% improvement in energy efficiency.

Volunteering with ACCIONA

More than 140 corporate volunteers from ACCIONA have generously dedicated their time, knowledge and experience to help carry out development cooperation and tackle poverty initiatives in isolated rural areas in Peru and Mexico.



ACCIONA Microenergy Foundation offers a unique opportunity to the Company's employees to get to know at first hand the reality of our world and to take part in development projects for the Foundation in the regions of Cajamarca, Peru, and Oaxaca, Mexico.

Volunteer activities aim to respond to the goodwill of ACCIONA's employees who want to show their solidarity and familiarize themselves with the serious problem of universal access to electricity and demonstrate

how the Foundation's activities are improving the situation. The effect of the volunteers is highly positive, both in improving the quality of life of people with very small incomes – the goal of the project – and the role of the Company in social initiatives such as these.

How can I participate?

Every year we launch at least one call through internal communications for on-the-spot and remote volunteers among ACCIONA employees.

"I could be useful in attending to incidents in the photovoltaic systems that had been installed. I got to know at first hand the conditions the users were living in, enjoyed their friendship, food and above all the smiles of many children despite their difficult environment."

Tito Rúa, ACCIONA Energy, country volunteer, 2011.



"As always, the unwritten law is at work. When we give something to others, we always receive back more than we've given. That's the essence of being a volunteer."

Fernando Justo, ACCIONA Facility Services, country volunteer, 2010.

Over 30 country volunteers have traveled to Cajamarca region in Peru, using part of their holidays, to carry out various tasks according to the project's needs: distribution of Domestic PhotoVoltaic Solar (DPVS) systems to users; supervision of the commissioning of the systems; implementation of the Operating Management System; support for preventive and corrective maintenance activities, etc.

For their part, more than 100 volunteers took part remotely, 'virtually', supporting projects from

their work centers, participating in technical, administrative, management, economic, communications and fundraising support. These activities, which do not require any traveling to the country, are a priceless contribution volunteers make in their free time.

The Foundation can also count on volunteers who have retired from work and decided to dedicate part of their time to the projects underway. Their accumulated experience and knowledge is of great value in realizing solidarity projects. ■

ONLINE INFO

■ www.acciona.com



"I would invite all my ACCIONA colleagues to experience this... I've been fortunate enough to take away with me people's gratitude and their hospitality. They are so thankful, and they give you whatever little they have."

Ana Belén Quintana, ACCIONA Energy, country volunteer, 2014.

ACCIONA Microenergy Foundation

ACCIONA Microenergy is the corporate foundation of ACCIONA, S.A. Created in 2008, it concentrates its activities on providing a basic electricity supply, through stand-alone photovoltaic systems, to isolated rural communities to which electricity networks are unlikely to extend. These activities come under the United Nations' Sustainable

Energy for All initiative. The ACCIONA Microenergy Foundation is currently carrying out the following projects:

- The *Light at Home* program, Cajamarca, Peru: ACCIONA Microenergy Peru facilitates a basic electricity supply, through Domestic PhotoVoltaic Systems, to 3,900 families in poverty.

- The *Cajamarca Community Light Program* Peru: ACCIONA Microenergy Peru supplies, through its Community Photovoltaic Systems, schools, churches, health centers, meeting rooms, etc., in the communities to which it also supplies homes.
- The *Light at Home* program, Oaxaca, Mexico: ACCIONA Microenergy

"I'd go again if I could be useful. It was a highly enriching experience, particularly the field work and contact with the customers."

Alfonso Pozo, ACCIONA Infrastructure, country volunteer, 2012.



"To take part in such a valuable project to its users was very satisfying. It's humbling to see at first hand the difference between living by candlelight and owning an 11-watt spotlight."

Ángel Casariego, ACCIONA Infrastructure, country volunteer, 2013.

Mexico provides basic electricity access through Small Domestic PhotoVoltaic Systems to homes in villages of fewer than 100 inhabitants in Oaxaca State. The aim is to supply electricity to around 9,500 Oaxacan households.

ACCIONA Microenergy Foundation would like to take this opportunity to say thank you to all the ACCIONA employees who have contributed so generously to the *Light at Home* program in Cajamarca, Peru. The *Light at Home* program is demonstrating the feasibility of providing electricity for people in rural areas who are very poor and have no connection to a grid, a service that is proving accessible, as well as economically sustainable for the provider. ACCIONA's volunteers have participated in a project that has benefited more than 16,000 people. Without these volunteers, it would have been impossible to have reached so many.

Social commitment in Costa Rica

ACCIONA Energy has favored local labor contracting and set about improving neighborhood infrastructure for the installation of its first wind farm in Costa Rica, within a broad process of consultation with the community.

Installation of Chiripa wind farm, ACCIONA's first in Costa Rica, has been accompanied by an ambitious social impact management plan associated with the project. With this kind of action, the Company wishes to reflect its commitment to the development and well-being of the communities in which it operates, maximizing the positive impacts of its projects and minimizing those which can take a negative turn.

In the consultation phase, the project was presented to the local stakeholders (authorities, organizations, neighborhood associations, etc.) and qualitative (interviews with local leaders) and quantitative opinion studies were carried out.

Conclusions

Two conclusions stand out: 90% of people surveyed about the project thought the wind farm would positively affect their communities; the main problems in the area are unemployment and a lack of basic infrastructure.

This identified the path to follow. Of the 328 people employed on the construction phase and assembly of



SOCIAL ACTION PLAN TIMELINE

1

2012. Consultations

- 8 meetings to present the project.
- 61 opinion leaders interviewed.
- Opinion survey of 437 people.
- 90% consider the complex positive for the environment.
- 1.7% think it will have negative effects.

2

2013. Construction

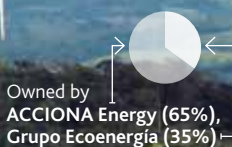
- Regular work meetings with affected communities.
- Contracting and subcontracting incentives to favor local jobs.
- 171 employees (over half the total) contracted from local communities.
- 16 actions to improve infrastructure.
- Corrective measures where environment disturbed.

3

2014. Operation

- Joint works committee to develop local social action projects.
- Drilling of a well to supply water in the town of Monseñor Morena.

CHIRIPA WIND FARM IN FIGURES



Commissioned
July 2014

Production
200 GWh/yr
(equivalent to consumption by 80,000 homes)

the wind farm, 171 (over half) was local labor.

The impact of the works was minimized through a package of measures, from times at which trucks pass through the area to the restoration of roads and gates to property, replanting in fields, and reforestation of woods with indigenous species.

Resurfacing of sports pitches, installation of sewers and renovation of village roads were other activities carried out and they will be built upon through a series of social action projects to be performed annually during the wind farm's operation.

A joint committee of representatives from municipal councils and ACCIONA will consider proposals for projects from community organizations.

The first social action project undertaken was the drilling of a well to supply water in the town of Monseñor Morera, which is now awaiting a permit to begin operating. ■

ONLINE INFO

■ www.acciona.energia.com

Topping the Twitter league table

Why is it important for a company like ACCIONA, the leader in its sector, to have more than 61,000 Twitter followers?

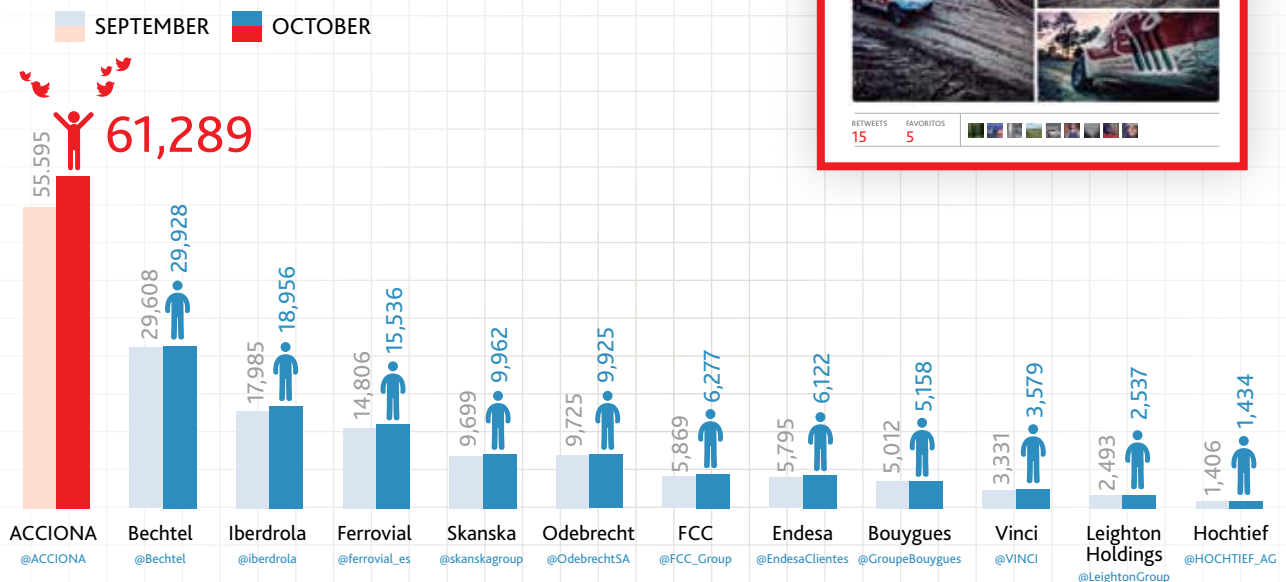
More important even than sharing content on the Company and sustainability, our growing Twitter presence gives us the capacity to get to know the opinions of our stakeholders. What is the news they are most interested in? What news should we seek to share with them? What are their opinions on our latest projects? And there are other plus points:

ONLINE INFO

■ www.acciona.es/salaprensa/redes-sociales/

1ST PLACE IN TWITTER

WORLDWIDE BENCHMARK COMPARISON



INTERACTION

We respond to requests for information and keep contact with the institutions with which we share the same beliefs.



VISIBILITY

It allows us to advertise our activities worldwide, since the Internet knows no borders. We can extend our brand presence to places where as yet we have no projects.



ONE OF THE LATEST TWEETS

acciona ACCIONA @ACCIONA

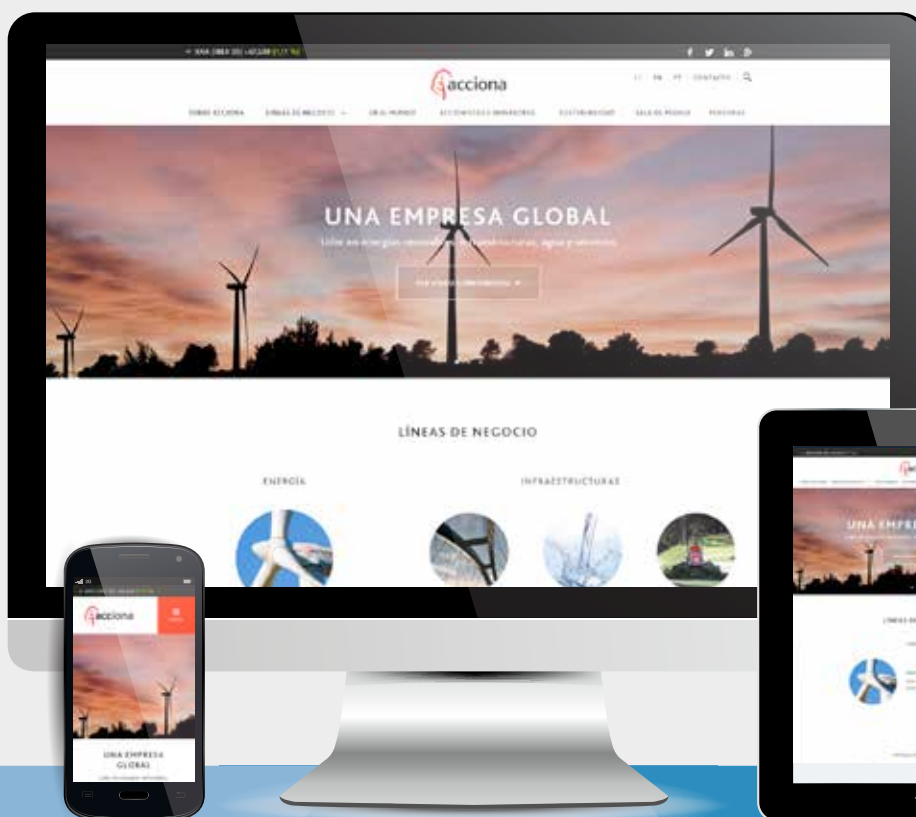
Photos of ACCIONA 100% Ecopowered, the 1st electric and zero-emission vehicle to compete in the Dakar #ACCIONADakar



RETWEETS 15 FAVORITOS 5

Keeping up with trends in the digital world

ACCIONA has redesigned its website with a clean, new look. It's visual, modern and, thanks to big improvements, makes for an outstanding user experience.



The new design improves user experience considerably and thus their perception of the Company.

www.acciona.com

RESPONSIVE, ADAPTABLE WEB DESIGN

Use of mobiles such as smartphones and tablets is growing incredibly. Internet navigation by these devices is increasingly the norm. ACCIONA's new website design adapts to any terminal: PC, tablet or mobile.

CLEAN, VISUAL DESIGN

The new website has clean and carefully defined graphics - down to the last detail. Audiovisual content predominates: videos, infographics and photos.

SOCIAL NETWORKS & CONTENT

Real-time content from social networks is incorporated into the website's lead pages and via a social hub. Well-developed cross-selling eases the search for information and increases the time a visitor spends on the site.

News round-up

- ACCIONA is growing in Portugal thanks to winning a new contract to design, build and commission a Waste Water Treatment Plant at Vila do Bispo, on the Algarve.

- ACCIONA Energy is to build a photovoltaic plant in Chile for the E-CL electric company. It will handle the design, engineering, supply, construction and commissioning of the plant, and take care of its operation and maintenance for two years.

- ACCIONA will supply drinking water to three Italian islands for 10 years, strengthening its presence in the Mediterranean area with this contract for Pantelleria, Linosa and Lampedusa.

- The Mexican President opened the Ixtapaluca Road Distributor built by ACCIONA which will smooth access for 800,000 Mexicans to the municipalities of Ixtapaluca and Chalco, and the exit road to Mexico City and Puebla.

- ACCIONA wins the 'upstream' water supply contract for New Cairo, Egypt. The four-year award includes capturing water from the Nile river, purifying and transporting it to distribution tanks in the final consumer network.

- ACCIONA Windpower signed its seventh contract to supply wind turbine generators in Brazil. The order for 54 MW of capacity is for the Santa Vitória do Palmar wind power complex, owned by Atlantic Energias Renováveis, to which AWP agreed earlier in the year to supply 153 MW.

- ACCIONA Agua won a two-year, 3.6 m euro contract for the operation and maintenance of the Melilla water facilities, to begin on 1 September.

- ACCIONA Energy will build a turnkey wind farm in Mexico for 86 million euros. The 50 MW Ingenio project developed by ACCIONA for Actis and Comexhidro is located on the Isthmus of Tehuantepec in Oaxaca and consists of 33, 1.5 MW WTGs.



- Engineers Australia (Western Australia Division) gave an 2014 Engineering Excellence Award to the Mundaring Water Treatment Plant for the concept, development and implementation of a bush fire protection network the plant will supply, as well as for state-of-the-art technology it uses in the facility.

JULY

- ACCIONA has been jointly awarded two sections of the new Line 3 of Santiago de Chile metro for 77 million euros. ▼



AUGUST

SEPTEMBER



- ACCIONA Producciones y Diseño received the international Red Dot Design Award for its audiovisual spectacular for the Wu Kingdom Relic Museum in the Chinese city of Wuxi. The Company designed and built the multimedia installation, which hosts the biggest immersive screen in the world, at over 650 m², and capacity to accommodate 3,840 visitors per day.



• ACCIONA obtained its first water contract in Oman, further consolidating its presence in the Middle East. It was awarded the operation, maintenance and technical redesign of the Sohar desalination plant for around 20 million euros.

• ACCIONA Windpower installed its first AW125/3000 wind turbine generator at a site in Navarre, Spain. The 125-meter rotor, one of the biggest in the world, optimizes production and reduces cost of energy. The Company's orders for the model have reached 552 MW worldwide.

• The joint candidature of ACCIONA Ingeniería, S.A., with three other Spanish engineering companies, won the 2014 FIDIC Award for Outstanding Project for their participation in the Madrid M-30 M-Rio scheme.

• ACCIONA signed a contract for 3.7 billion euros with the Victoria State Government in Australia to finance, design and construct the East-West Link in Melbourne, the biggest civil works project in the country.

• ACCIONA Windpower began supplying WTGs to a 300 MW wind farm complex in Texas. The first stage of the complex, comprising 50 AW 116/3000 turbines, of 3 MW of capacity each, will be operating by March 2015.

• The prestigious annual European Best Event Awards awarded ACCIONA Producciones y Diseño the Bronze Elephant for Best European Public Event in 2013, for the design and execution of the audiovisual spectacular *200 years building San Sebastian*.



• ACCIONA and the Mexican Federal Electricity Commission (CFE) laid the first stone for the Baja California Sur 5 thermal power station, a contract worth 107 million dollars.

OCTOBER

• Volkswagen Autoeuropa is once again placing its confidence in ACCIONA Service by awarding it a contract for all its waste management at the car manufacturer's plant in Portugal. ACCIONA Facility Services will be jointly responsible for the activity for three years.

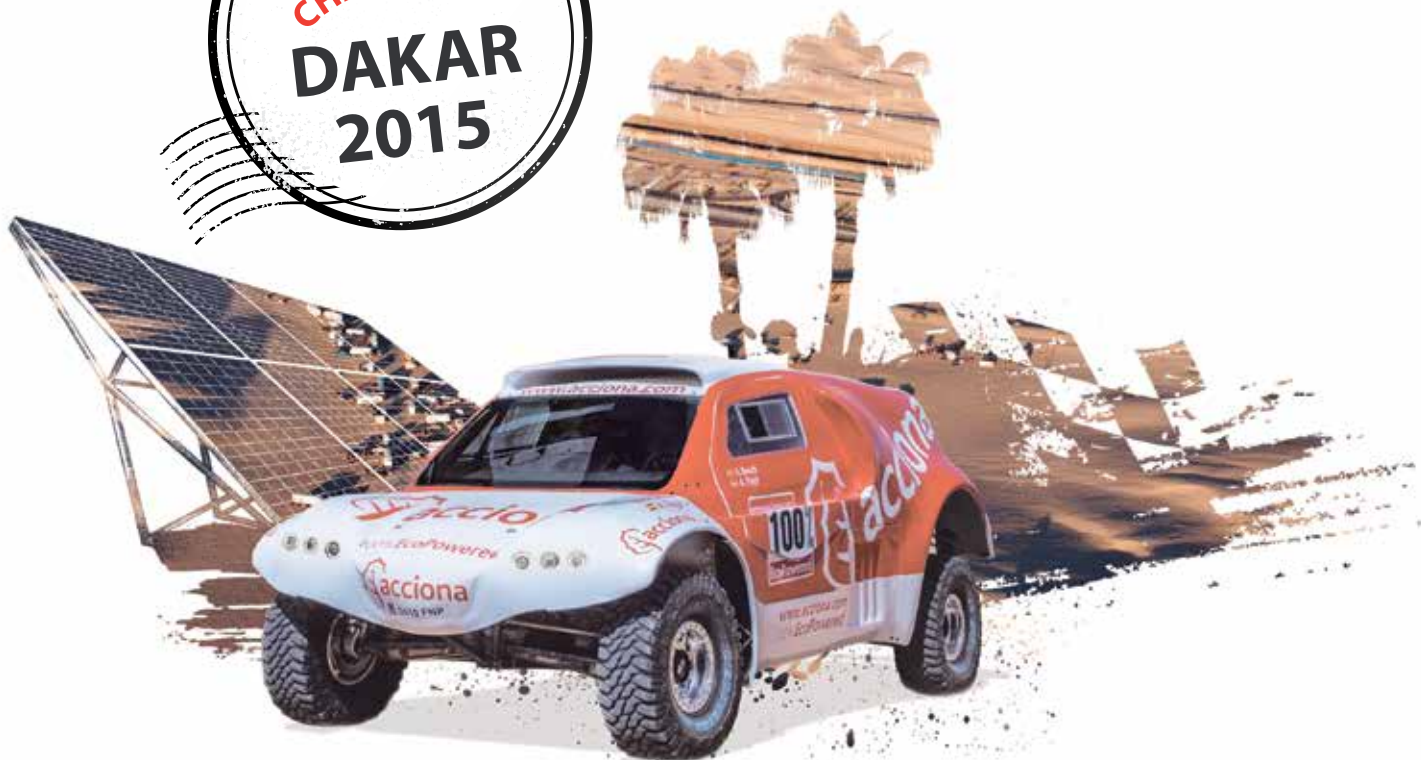


• ACCIONA and KKR came to an agreement about their alliance in the global renewable energies market. KKR acquired a one-third stake in ACCIONA Energy International (AEI), which holds ACCIONA Energy's renewable operating assets outside Spain: some 2.3 GW in 14 countries.

• ACCIONA commissioned its first wind farm in Chile with the biggest turbines to be installed in the country. Punta Palmeras, in Canela municipality, consists of fifteen, 3 MW ACCIONA Windpower WTGs.

• ACCIONA Infrastructure has built and installed the first bridge made out of composite materials in Africa, part of the work for the construction of a mini-hydro station near Iboundji in Gabon.





EARTH, WIND AND WATER 100% ECOPOWERED

At ACCIONA we believe there is another way of doing things. So instead of fighting nature, we have joined it. With this premise in mind we decided to embark on the 100% EcoPowered projects, travelling around Antarctica in a wind-driven sleigh and sailing around the world in a boat powered by renewable energies. Now we are taking it a step further by participating in the 2015 Dakar Rally, the most extreme motoring event on the planet, in a zero emissions electric car.

Because being pioneers means showing that another world is possible.

