

10

YEARS | 2008-2018

Activity REPORT **2017**

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Letter from the Chairman



In my capacity as Chairman of the Elecnor Foundation, is it a pleasure for me to present the 2017 Activity Report, which provides a detailed overview of the Social Infrastructure, and Training and Investigation projects on which we have been working.

The immediate idea that springs to mind upon reviewing the following pages is that our entity remains true to the spirit of commitment and permanence with which it was born 10 years ago now.

Indeed, since it was first created to mark the Elecnor Group's 50th anniversary, we have always maintained that our initiatives should be characterised by their ambition to foster roots and bring about positive and sustainable transformation in the communities where we work. Today, projects like Sinergia, to bring water and electricity to a remote community in the Atacama desert in Chile, or Lucas para Aprender, which has given power to many rural schools in Uruguay, are thriving and constantly evolving to reach new goals, in spite of the time that has passed since their formal implementation.

Other more recent activities seem to be on the same path of success, such as the H₂OME project in Angola, which, since the end of 2016, has been providing drinking water to almost 10,000 people who, until then, had serious issues accessing clean water. In addition to this primary goal, the provisions associated with this social infrastructure in training and technological matters are contributing to improving access of the local population to new cultural and educational opportunities, a task that never has to have an end or limits.

The efforts to transform the living conditions of vulnerable environments have yielded another key example last year with the culmination of the Starting Out and Learning in Digital project (PEAD) in Nicaragua, in partnership with Plan International Spain. The aim of this initiative has been to support



education and training for local people, in particular children and adolescents from the Miskita ethnic group, through the sustainable use of ICTs.

Ten years after its formation, we can look back with pride at how our Corporate Volunteer programme has grown. This programme provides an outlet for the aspiration of many people in the Elecnor Group to contribute in their own way to the consolidation of our social infrastructure projects. After the experiences of previous years in the Atacama desert and in the hospitals of Ghana, the Corporate Volunteer programme set its sights on the Angolan town of Gove, the location of the H₂OME project mentioned above, in order to help both in technical matters and in supporting the education of children in the area.

In the area of Training and Research, activities organised by the Elecnor Foundation Renewable Energy and Energy Efficiency Chair included the III Laboratory of Ideas on Renewable Energy, a forum where leading experts debate how to rise to the challenge of achieving a safer, more competitively priced and decarbonised energy supply. Furthermore, in this area it is also worth mentioning the Foundation's efforts for the V Edition of the Specialist Post-Cycle Course in medium- and low-voltage electrical installations of the Salesianos Deusto College, a ground-breaking course in the field of Professional Training.

The Elecnor Foundation commemorates in 2018 its first 10 years in operation by continuing to serve society in the manner that has distinguished the Group since the outset. And it is doing so with a particular focus on the most disadvantaged communities to which the company has access via its activities in the various countries in which it operates.

Looking towards the future, the Foundation that I am honoured to chair will continue to be an essential tool of the Elecnor Group's Corporate Social Responsibility, using its projects and its spirit of

openness to contribute to fully embracing the concept of sustainability that Elecnor has maintained since its foundation 60 years ago now.

I invite you to find out more about our principal activities in 2017 in this report.

Yours sincerely,

Fernando Azaola
Chairman of the Elecnor Foundation

SOCIAL INFRASTRUCTURE
PROJECTS

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Luces para Aprender project, Uruguay

In 2014, the Elecnor Foundation, the Organisation of Ibero-American States (OEI) and the Administración Nacional de Usinas y Trasmisiones Eléctricas (UTE) signed an agreement for the joint development in Uruguay of the **Luces para Aprender project**, which involved supplying solar electricity to 82 rural schools in the country.

The **Luces para Aprender** project in Uruguay consisted of bringing solar energy and internet access to rural public schools throughout the country. As such, the internal and external lighting needs of the schools have been met, also providing power for technological and communications facilities such as computers, TVs and others.

With **Luces para Aprender**, we have closed the digital gap and are putting an end to the isolation of rural communities, who have historically lagged behind technological advancements, facilitating their access to communication technologies in order to further their educational, economic, social and cultural development. In addition, this opens a door to the processes of community participation, making school a place for meeting and leisure in the community.

As a result of this initiative, since 2014, Uruguay has been the only country in Latin America to have electricity in 100% of its rural schools.

The **Luces para Aprender** project was honoured at the WISE Education Awards in 2017. These awards recognise the most innovative and impactful initiatives in the field of education.

SECOND STAGE: REUSING THE DISUSED PANELS

Subsequent to the installation of the solar panels, part of the 82 schools was gradually connected to the grid through the rural electrification project undertaken by UTE.

At the end of 2016, the Elecnor Foundation, OEI and UTE undertook to relocate those photovoltaic facilities that had fallen into disuse.

That commitment was formalised in May 2017 through signing an addendum to the agreement in Montevideo, which gave rise to the start of the project's second stage. The aim was to install that equipment in homes or productive enterprises with certain characteristics, thereby contributing to improving the quality of life and higher energy efficiency both in domestic settings and on the economy.

During the signing ceremony, the **Luces para Aprender** project was highlighted as an example of collaboration between the State, a private Spanish entity and an international organisation like OEI. It was also pointed out that it is a "living programme", with a second stage that will contribute to equal opportunities for rural families and businesses.

As part of this same second stage of the project, the OEI, UTE and Elecnor Foundation, with the support of the Departmental Government of Rocha and the National System of Protected Areas (SNAP), have installed solar equipment in "La Cocina de la Barra", an area located in the Laguna de Rocha. This action benefited the local fishing community APALCO (Lagunas Costeras Local Fishing Association).

Installing this equipment will allow the families that are part of APALCO to strengthen their gastronomy business, which has a growing flow of visitors, especially during the summer months. Additionally, they will be able to work in a more sustainable and professional manner in this protected area.

In 2014, Uruguay became the first Ibero-American country to have electricity in all of its rural schools.



Video
THE SECOND STAGE OF
THE LUCES PARA
APRENDER PROJECT

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The OEI-Mercosur Office in Uruguay celebrates and congratulates the Elecnor Foundation on its 10 years of work. Sharing the achievements of the **Luces para Aprender** project has been an invaluable experience.

Currently, all of the rural schools in Uruguay have electricity and connectivity. This welcome news, unprecedented in Latin America, became more than just a pipe dream thanks to the fundamental contribution of the Elecnor Foundation, who, alongside the UTE, the OEI, the National Public Education Administration, the Ministry of Education and Culture and the Ceibal Plan (connectivity and basic information technology for online), gave a glimmer of hope to all of the educational centres.

In this message, we want to especially highlight the excellent professional and emotional bond that we established with the friends of the Foundation.

Ignacio Hernaiz
OEI-Mercosur office in Uruguay
Director of the Ibero-American Institute of Human Rights Education
Regional Coordinator

Sinergia project, Chile

Water and power are essential for life, para economic growth and human progress

The Sinergia project was born with the aim of supplying water and power to the Chilean town of Totoral (Atacama desert), benefiting some 40 families. Since it was implemented, the Elecnor Foundation has maintained its commitment and involvement with regular monitoring and through the support of corporate volunteers who have come to the area from various countries in which the Elecnor Group operates.

The Sinergia project came about as a result of the collaboration of the Elecnor Foundation with Chile's Institute of Agricultural Development (INDAP), part of the Ministry of Agriculture.

The Sinergia Project is unique as it combines water and solar photovoltaic energy. Hence its name, Sinergia, or synergy, reflecting how these two elements can produce greater results when used together than when used on their own.

True to its philosophy of providing sustainability and permanence in its activities, the Elecnor Foundation maintains regular contact with the INDAP to keep informed of the operation. From the information provided from Chile, we have noticed that the facilities are operating at 100% and the Totoral energy committee, which is locally responsible for the system, is working diligently to ensure that these facilities are in a perfect state of maintenance.

This same philosophy explains the celebration in Totoral of two consecutive editions (2014 and 2015) of Elecnor's Corporate Volunteer programme, which involved bringing volunteers to the area from various countries in which Elecnor operates in order to help improve and maintain the equipment and systems, as well as training and educating the participants of the local energy and water committee.

In 2017, the project once again proved its merits and



its good standing by obtaining funding to install a security device at the plant and in the control room. The amount of the subsidy, granted by the regional Government of Atacama, amounted to 7,000 euros.

The degree of development of Totoral has improved by resolving the issues of access to basic necessities (drinking water, water for irrigation and electricity). It is important to point out that the Sinergia project has been planned bearing in mind environmental and cultural aspects as well as the actual needs of the community.

The Sinergia project has helped revitalise the small town of Totoral. The public school has gone from having two to 10 pupils and has opened two community businesses.



Video
THE SINERGIA PROJECT,
IN IMAGES

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On behalf of the regional team of the Institute of Agricultural Development (INDAP) in the region of Atacama, I would like to send our warmest greetings to the Elecnor Foundation on its 10th anniversary.

With the Elecnor Foundation, we are united by common projects, such as the Sinergia Project for the community of Totoral in Copiapó, which is unique in our country due to its efficiency characteristics and is environmentally friendly through the use of cutting-edge technology in photovoltaic panels. Not only that, but we are also united by our mutual interest in the well-being of isolated rural communities.

We are certain that the progress we have made has not been in vain, because we are convinced that Elecnor will continue to invest in the future through innovation and by constantly seeking solutions to improve the quality of life of the communities.

Tito Villalobos Romero
Head of Operations INDAP Atacama

H₂OME project, Angola

In 2017, the first operational facility under the H₂OME project was inaugurated in Angola, an innovative response to the shortage of drinking water in developing countries launched thanks to Elecnor R&D&i.

To help address the challenge of accessing drinking water in vulnerable environments, the Elecnor Foundation has developed an innovative project featuring cutting-edge technology for the supply of drinking water.

The lack of clean water is responsible for serious health problems and the H₂OME project has demonstrated that technology can contribute to mitigating these issues.

The facility in Angola is intended to supply drinking water to 10,000 people in Gove in Huambo province. The inauguration, which took place on 20 March 2017, was well received by the people and had solid institutional backing as well as the direct support of the Fundação Eduardo dos Santos (FESA), a partner of the Elecnor Foundation in this project.

The ceremonies were presided over by the Governor of Huambo, João Baptista Kussumua, the Secretary of Estado das Águas, Luís Filipe da Silva, and Fernando Azaola, Chairman of the Elecnor Foundation.

WATER, HEALTH AND EDUCATION

H₂OME is a versatile and sustainable solution developed by Elecnor's R&D&i department. It is made from disused shipping containers that are recovered, redesigned and restored to create a two-level mobile structure that is easy to transport and install.

But H₂OME is much more than that; the children will enjoy a 100 m² audiovisual library starting out with



3,000 books, computers, DVDs and a television screen to watch documentaries and films that help to provide students with a higher-quality education. For them, it will mean opening a door to the world and knowledge. This will mean making significant strides towards equal opportunities. And to ensure optimum use of these facilities, it is the teachers of Gove school who draw up a timetable so that children can take advantage of the space and seize the opportunity presented as invaluable access to information and education.

The installation of the H₂OME module in Angola, means the school and health centre in Gove have a direct supply of water, which is also distributed via eleven sources throughout the municipality so that the maximum number of people benefit.

H₂OME is also Gove's first public space designed to offer both educational and leisure activities, complete with electricity and in a safe environment.

The relevance of this unique project has been publicly





Innovation, automation and cutting-edge technology for supplying drinking water to vulnerable areas

recognised:

- The H₂OME project has been honoured by the magazine Actualidad Económica as one of the 100 Best Business Ideas of 2013. H₂OME has been acknowledged within the category of "Sustainable ideas" as one of the outstanding projects in this area.
- In the VI edition of the so-called "Premios Corresponsables" for the most innovative and sustainable CSR initiatives in Spain and Ibero-America, the Elecnor Foundation obtained the overall award within the category of Large Enterprises for H₂OME.



Video
INAUGURATION OF
H₂OME IN ANGOLA



Video
FIND OUT MORE ABOUT
THE PROJECT AT
PROYECTO H₂OME.COM

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On behalf of the Chairman of FESA, we congratulate the Elecnor Foundation on its 10th Anniversary.

We are currently in a time when no organisation is successful when it acts individually. Developing partnerships among not-for-profit organisations focused on obtaining results creates a growing opportunity for those institutions to work together and bring new possibilities into existence that will benefit their respective missions.

With this in mind, on 8 February 2016, FESA and the Elecnor Foundation formalised a cooperation agreement in the city of Luanda. This agreement essentially led to the installation of a station for the collection, treatment and distribution of drinking water for 10,000 inhabitants of the town of Gove, in the municipality of Caála, Huambo province.

The station came on line in March 2017 and the impact for the beneficiaries was huge. The people consume treated water that guarantees all of their daily needs to defend and improve their health and quality of life.

Another important component of the project is the library. This has allowed the children in the area to make regular enquiries, which improves their knowledge, makes them better students and, above all, better citizens. Today, thanks to the H₂OME project, the community of Gove is a place where the improvement in the quality of life is making a difference in the Huambo province.

Finally, we would like to take the time to consider the fact that the success of the project in partnership with the Elecnor Foundation is due to these key factors: understanding, joint planning, the aligning of our respective missions and trust.

With that said, we send you our warmest regards.

João de Deus Gomes Pereira
Managing Director FESA

Fourth edition of the Corporate Volunteer programme, Angola

2017 saw the launch of the latest edition of the Corporate Volunteer programme. On this occasion, the scope of action was the H₂OME project in Gove (Huambo province, Angola), inaugurated a few months before. The four participating volunteers combined aspects of technical assistance with support for educating the children in the area, making formative use of educational resources associated with the device.

The 2017 edition of the Foundation Elecnor's Corporate Volunteer programme was developed during the second and third week in September, with four leaders belonging to different areas of the Group. This year, two of them showed, as is habitual in this initiative, a technical profile with the idea of helping to improve the water purification process, while the other two, as a significant change compared to the three previous editions, carried out training workshops and organised a calendar with the teachers at the Gove school to use in the projects multifunctional classroom.

TECHNICAL VOLUNTEERING

- The activities planned were related to the inspection, repair and servicing of the facilities. Some of the tasks undertaken were:
- Inspecting the pump and the raw water tank, checking that their overall operation is good and that the start and stop parameters are set correctly.
 - Disinfecting and cleaning the raw water tank.
 - Inspecting the levels in the treated water tank.
 - ETAP: inspection of the automatic start and the remote control.
 - Training the four new local operators.

The 2017 Corporate Volunteer programme combined aspects of technical assistance with support for educating the children of Gove



EDUCATIONAL VOLUNTEERING

- The two volunteers in charge of developing the education of the children of Gove received a guide with entertaining games and workshops from Fundación Elecnor in the area of education for development in Angola. Its objectives were:
- To raise awareness of the importance of an educational and human approach within the practice of development cooperation;
 - To offer the volunteers a broad range of games, dynamics and workshops to use with children in the area of education for development;
 - To put the game instructions and the methodology into the social and political context of impoverished countries.
- In addition to this, school materials were acquired so that the children could cut, draw, paint and enjoy arts and crafts.



Video
THE 2017 VOLUNTEERS,
IN IMAGES

Starting Out and Learning in Digital (PEAD) project, Nicaragua

The aim of this project, which culminated in June 2017, was to improve education and training for local people, in particular children and adolescents from the Miskita ethnic group, through the sustainable use of ICTs. It has directly benefited almost 3,800 people.

To implement the Starting Out and Learning in Digital (PEAD) project, the Elecnor Foundation took part with Plan International Nicaragua in the Spanish International Development Cooperation Agency (AECID)'s 2015 funding round for Non-Governmental Development Organisations.

PEAD has directly benefited 3,778 people in six remote communities of Francia Sirpi in the north of Nicaragua. It is the country's most vulnerable region in social terms, with a severe poverty level of 71%. It is also a region with a high concentration of indigenous people. In fact, it is home to 70% of all the indigenous population and those of African descent throughout Nicaragua. And within this segment the Miskitu are the largest ethnic group, representing 91% of the communities included in the project.

The lack of electricity means that are serious contamination issues stemming from the use of kerosene lamps, batteries, and, in very remote areas, the use of diesel motors. Among the indigenous communities there are cultural obstacles that hinder the implementation of new technologies and access to energy, thus increasing their technological isolation.

THE ARRIVAL OF THE DIGITAL KIOSK

The digital kiosk is a community space set up in a classroom attached to the community school which offers access to basic telecommunications services, i.e. telephony and internet, and educational materials.

The project is based on an inclusive community management model, and its long-term viability is ensured by charging small amounts for services and the installation of a premium-quality photovoltaic system that ensures that the kiosk can operate off-grid.

Back-up battery systems have been installed for periods when there is insufficient solar radiation, which can power the kiosk for three days if required. There is also a satellite connector which permits four hours of data downloading per day, telephone communication, the recharging of mobile phones and document printing and scanning. These services will finance maintenance and enable green jobs to be created.

The PEAD project has brought new digital educational opportunities to the children and teenagers of six remote communities in Nicaragua



MAIN ACTIVITIES

This model can also be used in other areas of Nicaragua where the social and technological divide is pronounced. These are some of the key activities carried out during the project:

- The establishment of an **inclusive and sustainable model** at a community level through the training of leaders, the development of the business model type, the purchase and installation of the necessary technological resources and the training of the technical team.
- The development of **technological skills through ICTs**, the provision of technological literacy training for teachers, the installation of IT packages for accessing information on culture, education,

healthcare and child protection, and the promotion of reading through the use of free educational software.

- Prioritisation of the **use of renewable energy and ICTs** in the community development plan for six communities. This involved updating the plan with the input of children, adolescents and young people, and reporting to the community and the regional authorities.
- **The transfer of the model** to other communities through participatory sessions, the preparation of a narrative and audiovisual training document, the preparation of a technical and financial report, the organisation of national events, etc.

Collaboration agreement with Ayuda en Acción, Latin America and Africa

In 2017, the Elecnor Foundation and Ayuda en Acción signed a framework agreement in which both entities undertook to collaborate in identifying and developing projects.

The projects that are included in the agreement will be located in Latin America and Africa, continents where both entities have extensive experience in implementing cooperation and development programmes.

The key action areas are water, the use of renewable energy, basic living and the sustainable management of natural resources.

The agreement was signed on 18 May by the Chairman of Ayuda en Acción, Jaime Montalvo, and Fernando Azaola, Chairman of the Elecnor Foundation.



TRAINING AND RESEARCH PROJECTS

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III Laboratory of Ideas on Renewable Energy

The Elecnor Foundation Renewable Energy and Energy Efficiency Chair, created in partnership with the Technical University of Madrid's Higher Technical School of Industrial Engineering (ETSII), organises various activities with the aim of fostering research projects and professional meetings with sector players.

With the aim of establishing the major trends in the energy sector over the coming years, in 2017, the third edition of the Laboratory of Ideas on Renewable Energy was held. This time, the topic was "Renewables must overcome the challenge of volatile market prices".

The forum was attended by Juan Temboury, Managing Director of Fortia Energía; Carmen Becerril, Director of Acciona; Tomás Gómez, a professor from Comillas Pontifical University; Rafael Gómez-Elvira, Director of the Chairman and CEO's Office at OMIE; Guillermo Planas, Chairman of Enerfín (Elecnor Group); Emilio Mínguez, Director of the ETSII; Carlos Veganzones, a teacher at the school; and Rubén Esteller, Editor in Chief of the business daily EL Economista.

Among other conclusions, the Laboratory noted that the long-term fixed-price contracts and the internalisation of environmental costs are the keys to the success of modern energy systems. It was also highlighted that sources of renewable energy, especially wind and solar photovoltaic energy, are now a reality, having reached levels of cost and technological maturity that allows them to compete with traditional energy generation technologies on a level playing field.



Fostering research via the Elecnor Foundation Renewable Energy and Energy Efficiency Chair

Under the auspices of the Elecnor Foundation Renewable Energy and Energy Efficiency Chair the following research projects were carried out in 2017:

- **The optimisation of combined cycles:** the aim is to be able to replicate the thermodynamic model of a combined cycle plant and then to reproduce the results obtained in the different operation cases and to obtain theoretical backing for the conclusions derived from the "ThermoFlow" programme. 2017 saw the development of the model in the tool and we worked on settings its parameters in order to obtain the same results as "ThermoFlow" in the various operating conditions.
- **Optimisation of the photovoltaic processes:** consists of an analysis of all the processes involved in the construction of a solar PV farm, from bidding through engineering, logistics and construction to maintenance. Following the work undertaken in 2017, –which included extensive data gathering, we have still to carry out the final validation of the process sheets with the personnel involved and produce the flow diagrams.
- **Efficiency in the hospitals of Ghana:** this project came about in relation to one of the main activities of the Elecnor Foundation in Africa: the Back-Up Systems project, geared towards strengthening the supply of electricity in six hospitals and three clinics in the country. This related activity is centred around

rehabilitating the energy production of two of those health centres in Ghana by analysing the current systems and their energy demand with the aim of reducing consumption, producing a report on the situation and, finally, preparing a basic project with savings measures that will help reduce the consumption of both hospitals.

At the end of 2017, a large chunk of the analysis work had already been completed for both hospitals and the ETSII had proposed the initial measures to be implemented. The measures that are considered the most optimum for each hospital must still be developed, selected and quantified.



Video
ENERGY EFFICIENCY
PROJECT IN HOSPITALS
IN GHANA

Awards and scholarships programme with the School of Industrial Engineering (ETSI) of the Polytechnic University of Valencia

2018 is a special year for the Higher Technical School of Industrial Engineering. In October this year, the School will celebrate 50 years since its foundation. This year also coincides with the 10th anniversary of the creation of the Elecnor Foundation.

ETSI's relationship with Elecnor dates back over 30 years. Numerous students from our Centre began their journey as interns and eventually became part of the Elecnor workforce, some of them now even in positions of responsibility.

As such, it is evident that ours is a close relationship based on responsibility, work and mutual trust, which has been expressly highlighted through the Elecnor Foundation's commitment to the internships that are granted each year to students at the Polytechnic University of Valencia, especially promoting the University-Company collaboration that we hope will continue in the years ahead.

Jorge García-Serra García
Director of the Higher Technical School of Industrial Engineering
Polytechnic University of Valencia

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Since 1988, Elecnor has been party to a collaboration agreement with the Polytechnic University of Valencia through which five Grants and a First Prize were awarded in 2017 for the best Master's dissertation.

On 22 October 2017, the Elecnor Foundation awarded the diplomas under the Master's Dissertation Grants programme at the Polytechnic University of Valencia's Higher Technical School of Industrial Engineering (ETSI), in the area of Electrical Engineering, Energy Efficiency and Renewable Energy. This time, four ETSI students who completed their Master's Dissertation at Elecnor during the 2016-2017 academic year received internships.

The Foundation also gave out the First Prize of 1,500 euros to the best dissertation submitted. The prize went to the student María Esther Olmos García for her work on energy efficiency in hospital centres. The project stood out for its originality, innovation, applicability and the quality of the documented submitted.



V Edition of the Specialist Post-Cycle Course in medium- and low-voltage electrical installations

The Elecnor Foundation, in conjunction with the Salesianos Deusto College (Bilbao), sponsors this pioneering course in the field of professional training. The Foundation is actively involved in the design of this project and in the financing of the equipment required in the College's laboratory.

The programme for the 2016-2017 course was offered between 17 February and 7 March 2017. As in previous editions, the 82-hour course is modular and is divided into theoretical and hands-on classes and a visit to Elecnor's facilities. There were 13 attendees.

This course provides a great opportunity for young vocational training students of electricity distribution in the standard grade to complement their theoretical and practical training in this sphere.



The number "10" is always significant, full, round... As such, I extend my wholehearted congratulations to the Elecnor Foundation for its 10 years of life.

My experience with the company goes hand in hand with its commitment to training, particularly professional training and social and labour integration:

- Medium- and low-tension specialisation courses.
- Preparation of the post-cycle specialist course for intermediate-level Electrical Installations students.
- Projects in developing countries designed around educating the underprivileged.

In my opinion, the Foundation is clear on the fact that professional and technical training is the best means of collaboration in the personal, social, economic and political development of people and societies.

In light of these circumstances, with the company celebrating 10 years in operation, in addition to my congratulations I wish you a bright and promising future.

Isaac Díez
Director of the Salesianos Deusto College

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Classrooms and football to teach values to young Angolans

In 2017, Elecnor celebrated its first 25 years of operation in Angola, and it commemorated it by creating closer ties with the country, its institutions and its people. On this last point, the support given to local talented young people in their comprehensive education is something to be highlighted.

It is precisely due to the close relationship with its people that we were able to carry out an internship project so that students in Angola could come to Spain to receive comprehensive, academic and sports education.

After signing a collaboration agreement with Santos Football Club in Luando, Elecnor Angola and the Elecnor Foundation in the end managed to bring three young Angolans to go through Basic Vocational Training in Salesianos Deusto College in Bilbao during the 2017-2018 academic year.

To supplement this training, the initiative includes the opportunity to train each evening with the Arenas Club de Getxo junior football team, who are officially sponsored by Elecnor.

The aim of the Elecnor Foundation with this activity is to use its resources to help students acquire a set of knowledge, skills and attitudes that will allow them to grow professionally and prepare them to go on to further studies and their integration into the world of work.



Video
THE VISIT OF YOUNG
TALENTED ANGOLANS
TO SPAIN

OTHER PROJECTS IN THESE 10 YEARS

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I would like to thank the Elecnor Foundation for the projects that it has built in the field of solar energy. It has helped us to bring electricity to four villages, four of the most isolated and neglected communities that we had in the municipality: Agua Fría, Bañaderos, Quebrada Arriba and Palo Verde.

The Ilumina project has undoubtedly changed their lives. We have many benefits for which we are deeply grateful.

On an environmental level, the fact that we have solar energy in each of the homes in this community has taken the pressure off the forests. The communities no longer rely on their pine trees, their wood, for light. Now they use solar energy.

Another of the most important benefits relates to health: no longer do the inhabitants have to rely on oil lamps for light as they can use a solar energy light bulb. There is also an economic focus, since the citizens have had substantial savings as they do not buy the kerosene in the neighbouring villages or towns, but rather they use the sun. Let us not forget the advantage for safety as well: their houses are safer now that they are lit, whereas they were previously in total darkness.

I would also like to congratulate you on your 10th anniversary. Those 10 years have been spent supporting local communities. We hope that Cantarranas will remain present in your projects because we there is much to be done in this communities. Congratulations to our friends at Elecnor on the 10th anniversary of your Foundation.

Francisco Gaitán Agüero
Mayor of the Municipality of Cantarranas in the Department of Francisco Morazán

Social infrastructure projects

Ilumina, Honduras

The Ilumina project brought solar PV energy to several communities in the municipality of Cantarranas in the department of Francisco Morazán in Honduras. This involved the installation of 124 photovoltaic systems in three schools, the fire station, for the ambulance service, in other community facilities and in homes.

Over 13,000 people have benefited from a higher standard of living, better opportunities for economic development and greater educational opportunities thanks to artificial lighting in classrooms. It was also possible to set up a library and a toy library in the three schools in the region with the materials generously donated by Elecnor employees.



Video
THE ILUMINA
PROJECT, IN
IMAGES



Loma Atravesada project, Dominican Republic

The Loma Atravesada initiative is the Elecnor Foundation's first social infrastructure project in the Dominican Republic, where Elecnor has been present for three decades.

The project has brought power to 1,400 residents of Loma Atravesada in the municipal district of Las Galeras, who previously lacked any kind of energy infrastructure. The project involved the construction of a seven-kilometre distribution line and the installation of voltage transformers, illuminating a total of 178 homes and the municipal church, the most important community space in the municipality.



Video
THIS IS THE LOMA
ATRAVESADA
PROJECT



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I would like to express our most sincere thanks for this great project that the Foundation carried out in our town in the community of Loma Atravesada. It has transformed the way of life of its residents.

Above all, the project has changed the quality of life of this community, significantly improving the food, education and health.

Whilst it is true that conserving food has contributed to the household economy, it is equally important to note that we have carried out education programmes for adults in the evening, teaching literacy skills to a large portion of the community, which would have been impossible without electricity, not forgetting those with catastrophic illnesses who require their medicine to be stored properly.

In other words, rather than an electricity project, the Elecnor Foundation has given us a life project. Many thanks.

We know that we can count on you.

Mr Genaro Durán
Councillor at the Las Galeras Municipal Council

St. Francis Xavier Hospital is a mission hospital in the diocese of Cape Coas in the Central Region. It functions like a district hospital for the district of Assin, the largest in the Central Region.

In 2011, the Elecnor Foundation began to be a part of the hospital with the solar panel project as a back-up, and it has even managed to substitute our generators on occasion.

I think that one of the goals of the Foundation is to improve the living conditions of those of us who live in poor areas. I have to say that, in our case, it has achieved that goal. Our live at the hospital has changed enormously. When the national energy grid leaves us in the lurch, solar energy takes over without us even noticing, surgical operations can continue and our IT system does not experience outages. When these outages occur at night, solar energy is a blessing, work continues without flashlights or oil lamps, and we don't need to call the convent to get them to turn on the generator. Those days are long gone.

I think I can safely say that the Elecnor Foundation has not left us; it is still a part of St. Francis. Its work is not yet complete, as one of its goals is the expansion of solar energy to cover vital new services, such as intensive care for adults and newborns. Its social work continues and I am sure that, with its determination, we will achieve it.

It impossible to put into words what Elecnor has done for our daily work. It has to be experienced on a daily basis. Those of us who live, work and are active in this community are grateful to be able to experience it.

All that remains for me to do is say thank you from me and on behalf of the hospital and express our gratitude for your dedication to all of the people who come from far and wide seeking medical attention for their ailments.

Sister María Lourdes Sanz

Solar Back-Up Systems project, Ghana

This project was the first Social Infrastructure action of the Elecnor Foundation on the African continent.

Its goal was to reinforce the supply of electricity of six hospitals and three clinics that manage the congregations of the Sisters Hospitaller of the Sacred Heart of Jesus, las Hermanas de la Caridad de Santa Ana and the Ministry of Health of Ghana. These facilities, which serve on average 500,000 patients and carry out over 7,000 surgical operations each year, have an electricity supply from the grid, but its poor quality means that the most important areas do not function properly: operating theatres, maternity, A&E, laboratory and administration.

The project involves installing back-up systems with solar batteries and inverters/chargers that, reinforced with solar panels, ensure the electricity supply from the grid in critical circumstances when changes in voltage cause power outages. Specifically, 21 systems were installed composed of an inverter/charger, connected to a deep-cycle battery pack reinforced with solar panels that ensure the proper supply of electricity to the different medical departments.



Video
A VISIT
TO THE HOSPITALS
OF GHANA



Ronald McDonald House in Madrid, Spain

The Elecnor Foundation is involved in its first social infrastructure project in Spain in conjunction with the Ronald McDonald Children's Foundation. The aim of this initiative is to provide accommodation for the families of hospitalised children close to where they are being treated.

Elecnor was selected to build the Madrid Ronald McDonald House, the largest in Spain at 3,000 m², on a turnkey basis in the grounds of the Niño Jesús Children's Hospital.

The Elecnor Foundation - which has a representative on the Board of the House - was responsible for the energy efficiency features that enables overall energy savings of around 46% to be achieved compared with conventional facilities and a reduction in CO₂ emissions of approximately 52 tonnes.



Video
A HOME AWAY
FROM HOME



I want to use these words to share our most sincere congratulations to the Elecnor Foundation in its 10th anniversary.

Over these 10 years, your work has centred around providing energy resources and drinking water in the most remote and underdeveloped areas in many countries around the world, making a huge improvement in the lives of many people in need. In addition, your guidance and support projects for young talent in universities is a very valuable endeavour in these times when our university students often have a complex and competitive professional future. On the other hand, your plans for the Corporate Volunteer Programme promote social commitment among employees and reaffirm their feeling of belonging to a great company like yours.

I could not let this opportunity go by without thanking you for the amazing support we have received from you at the Ronald McDonald House in Madrid. You have been one of the main pillars of its construction and maintenance, offering a real "home away from home" for families with hospitalised children.

I would like to congratulate you on each of these projects and wish you all the best for the future. I am sure that with your hard work, effort and commitment, you will continue to have a positive influence on the lives of many people across the globe.

Once again, congratulations and many thanks.

Blanca Moreno
President of the
Ronald McDonald Children's Foundation

Sustainability, CSR and social innovation

The celebration of the Elecnor Foundation's 10th Anniversary is a momentous occasion and one that calls for public recognition.

Our company is in need of gestures of otherness and solidarity such as this. The constitution and development of a foundation is always an exercise for the common good, beyond the legitimate interests of a business activity.

The university world appreciates the support of initiatives like this that allow us to promote the education of professionals and citizens, the generation of knowledge and socially transforming innovation.

José María Guibert Ucin
Rector of the University of Deusto

The Elecnor Foundation and the Deusto Business School have a cooperation agreement to launch and jointly develop forums and training activities relating to sustainability, corporate social responsibility and social innovation.

The agreement came into effect in 2014 at the inaugural Deusto Business School - Elecnor Foundation Dialogue Forum, a gathering of international experts in corporate social responsibility, creating value and business internationalisation.

As part of this collaboration, in 2017 the decision was made to approve the membership of the Board of Patrons of the "Cities Lab Katedra" at the University of Deusto, to develop sustainable development projects.

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