

**ACTIVITY
REPORT
2017**

**Nexans
FOUNDATION**
For fair access to electrical power

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ETDITORIAL

for fair access to electrical power



Arnaud Poupart-Lafarge
Chairman of the Nexans Foundation
Chief Executive officer of Nexans

In 2013, Nexans became the first cable player to create a Foundation to act and serve in the general interest of society. The Nexans Foundation aims to **support initiatives that help bring electrical power** to disadvantaged communities throughout the world by giving priority to grassroots-level organizations and sustainable solutions. Energy plays a key role in Nexans' business, so the Group decided to make it a priority for its Foundation. This commitment follows on from the United Nation (UN)'s call in 2012 **to promote awareness worldwide about energy poverty** and the importance of developing access to energy. In 2015, the UN took this initiative further by including an energy component in its new sustainability targets – to ensure access to affordable, reliable, sustainable and modern energy for all (Sustainable Development Goal no. 7) – a priority long recommended by the International Energy Agency (IEA)⁽¹⁾, which advocates **universal energy access by 2030**.

Energy does not only provide access to light ; **it facilitates education, healthcare, teaching, women's empowerment, economic development and more**.

These are essential needs that must be met. Sustainable Energy for All ⁽²⁾ currently estimates that 1.1 billion people do not have access to electricity and at least 2.9 billion people do not have access to clean energy for cooking. More than 95% of these people live in sub-Saharan Africa or in developing countries in Asia. The governance of the Nexans Foundation is organized with a project selection committee made up of employees from different countries and functions who meet every year to review the projects submitted in the annual call for projects. A short-list of projects is then

presented to the Board of Directors, which is chaired by the Group's CEO and includes eight members divided into three groups (founding companies, employee representatives and qualified experts). Supporting 39 organizations and helping over 700,000 people since 2013 with an annual budget of 300,000 euros, the Nexans Foundation has supported 68 projects in 30 countries in partnership with 39 organizations since it was created. These projects have brought or plan to bring electrical power to nearly 700,000 people. Due to the ever-growing involvement of the Group's local entities, the Nexans Foundation supports large non-profits that are well known in the area of access to energy as well as smaller organizations.

**39 ASSOCIATIONS
SUPPORTED
BY NEARLY
700 000
BENEFICIARIES
SINCE 2013**

It works in all countries and primarily in countries affected by energy poverty. A Foundation that acts fast in emergencies Working with Electricians Without Borders for many years, **the Nexans Foundation also supports one-off projects involving emergency situations**, Recent examples include Haiti in 2016 and several Caribbean territories in 2017 after Hurricane Irma. To respond even faster in handling humanitarian

emergencies, the Nexans Foundation, along with 10 other leaders from the electricity industry, **formed a partnership in late 2017 with the crisis center of the French Ministry for Europe and Foreign Affairs and Electricians Without Borders**.

In the event of a humanitarian crisis, Electricians Without Borders intervenes to restore access to energy. This action is crucial in an emergency because it allows international solidarity organizations to act in the best conditions possible to help people in need.



BRAZIL

INSTALLATION OF PHOTOVOLTAIC PANELS IN AMAZONIA WITH **INSTITUTO PACTO AMAZÔNICO**



Amazonia has a low-income population that does not have access to electrical energy. The LUZ NA FLORESTA II project (Light in the forest), developed by The Instituto Pacto Amazônico (API) and supported by Nexans aim at serving populations of the national forest of Humaitá (Brazil) essentially consisting of small family, traditional farmers who have no access to electrical energy. In this second phase, the project will allow **the installation**

of photovoltaic panels for the isolated production of solar energy.

Following a conflict and attacks of Garimpeiros the head office of Humaitá and the ship used by the technical team were destroyed. For security reasons the activities were suspended. THE API opened a representation in the city of Manaus and takes all the necessary measures to finalize the activities by the end of June, 2018.



IMPROVEMENT AND SECURE OF THE POWER SUPPLY OF COMMUNAL INITIATIVE CENTER IN HAITI WITH **ÉLECTRICIENS SANS FRONTIÈRES**



ESF was solicited by a Franco-Haitian association; the Francophone Environmental Action Group (GAFF), to **secure the power supply of the KENSCOFF Communal Initiative Center (CICK)**. Frequented by school pupils and associations but penalized by the lack of availability of electricity the CICK has to improve reliability of its electric supply, to cover the costs of operation and to

render the center financially autonomous. The project involves the installation of a photovoltaic field covering the energy requirements associated with batteries with one day autonomy and the maintenance of the connection to the national grid (EDH) **will enable the development of activities that consume electricity** (Multimedia training evening (library meeting rooms and training), operating the kitchen and organizing festive evenings which are sources of income).



BURKINA FASO

INSTALLATION OF PHOTOVOLTAIC PANELS FOR THE NEW HIGH SCHOOL BUILDING IN BURKINA FASO WITH **LUMIÈRE POUR TOUS**



For 7 years, the association Lumière Pour Tous has been offering a group of young people from the High School and students from the Mulhouse IUT, aged from 18 to 22 years, to create a complete lighting installation in schools in Burkina Faso. Especially in the city of Boromo and the province of Balé, halfway between Ouagadougou and Bobo-Dioulasso. The production of electrical energy is ensured by

photovoltaic panels coupled with a small wind turbine. This facility constitutes the point of convergence between two countries and two cultures which thus come together for a common objective. Hence the name of the association. The lighting of the schools **allows literacy for a large number of adults** who can only come in the evening and level of education of the population, essential link for the development of the villages.



POWER SUPPLY FROM PHOTOVOLTAIC PANELS OF THE FARESO HOME OF ORPHANAGE IN CAMEROON AND TRAINING CENTER FOR YOUNG PEOPLE ATTENDING SCHOOL WITH **LA GERBE**



The association La Gerbe works with the orphanage center FARESO and the village of N' Tolo **to mitigate the lack of electricity, water, training and food** in a population center which undergoes the drift from the land. The project of an autonomous Module of Electricity Production (MAP) allows in particular :

- Electrical production from photovoltaic panels;
- Development of a training center «FARESO FORMATION» for young people attending school;
- Creation of a food processing workshop by dehydration and marketing;
- Innovative solution for the production of heat feeding the dehydrators.

The 4 objectives ensuring its sustainability are:

- NOURISHING: **Preserving food** throughout the year from locally produced raw materials on a seasonal basis with standard and reliable electrical equipment. To do this, one must produce electricity and have drinking water;
- FORMING: everything we are going to build will serve as teaching aids: photovoltaic production and distribution electrical, water treatment and distribution. The pedagogical levels are compatible with the training given by the high school's partners;
- HAVE A FUTURE: all the beneficiaries will be able, if they wish, to seize the MAP **to project themselves in the future economic, social and human development;**
- ENSURE AUTONOMY: : through training, energy and drinking water available and adequate food.



BRING ENERGY TO A VILLAGE IN MADAGASCAR WITH **LES EXPERTS SOLIDAIRES**



The project involves the **installation of a solar powered mini-powerplant** in the Marosely village in the north of Madagascar enabling 450 households (2500 people) to get access to electricity. In the district of Ambanja less than 5% of households have access to electricity.

This low access to electricity prevent the development of generating income, creating wealth, jobs and local development.

This project allows:

- **To improve their social life** (light in the evening, lighting of the school and the basic health center) and the development of service activities;
- To develop a specific methodology to support the development of enterprises based on the electrification of a village;
- Stimulate employment and income generation by setting up coaching and training activities for entrepreneurs;
- Improve the environment by reducing the consumption of fossil fuels and releasing batteries.



TO AN ENERGY SOLIDARITY: SUPPORT LOCAL ACTION AGAINST ENERGY POVERTY IN FRANCE WITH **LES AMIS D'ENERCOOP**



The **Énergie Solidaire** project aims to collect micro-donations on energy consumption to support local actions **to combat energy poverty in France**.

Enercoop will be the first energy supplier to offer the micro-donation.

It is in this context that Énergie Solidaire wishes to:

- Collect funds through micro-donations on energy consumption, energy donation and conventional donations

- Support local actions to fight against fuel poverty;
- **Promote an energy transition accessible to all** by information, training, support and advocacy.

Specific objectives

- By the end of 2018, **a minimum of 1,650 households** will have been identified as being in a precarious energy situation and will benefit from support from these local structures.



VIETNAM

DONATION OF SOLAR LAMPS TO VILLAGES IN NORTHERN VIETNAM WITH ENFANCE PARTENARIAT VIÊTNAM



Donation of solar lamps to the families of 3 ethnic villages living below the threshold of poverty. The only lighting comes from the wood fire installed in the middle of the single room of the fireplace. EPVN began installing pico turbines and lamps in 2 of the 3 villages. Lighting is the priority of the villagers because it allows them to :

- bring a **light source** into the houses and during the journeys of the villagers;

- **Contribute to better schooling of children** by allowing them to do their homework at night;
- Enable women to embroider and **dand improve their financial income** thus **significantly improving their conditions of life**;
- Secure the journeys on foot and by motorcycle at nightfall because this solar lamp is also used when traveling, especially at 5 pm to go to the market, to sell their embroideries.



TOGO

POWER SUPPLY BY USAGE OF RENEWABLE ENERGIES IN A VILLAGE IN TOGO WITH **SOS VILLAGES D'ENFANTS**



This project will enable the village to be **100% autonomous in green**

energy and more environmentally friendly in order to improve the comfort of SOS mothers and children welcomed. SOS Villages d'Enfants (SOSVE) Togo wished to introduce the use of renewable energies in the village in order **to control the costs linked to energy consumption and to improve the quality of the sustainable care of the children** (children without parental support or at risk of losing it). Thanks to the support of the Nexans Foundation in 2016, 10 houses have already been equipped. In this second part of the project, it is necessary to complete the installations on the three the remaining structures of the village of Lomé: the administration building, the multipurpose hall and a family house.

Thanks to the installation of solar panels, this project will allow to:

- Preserve the environment by favoring renewable energies;
- Contribute to the increase in the quality of care for children, accessing a quality energy that would facilitate the daily life and schooling of children;
- **Reduce by minimum 40% the cost of electricity invoices.** LThe savings generated will be reinvested directly in the SOS kindergarten attended by 50 children, the youth mentoring structure that accompanies 62 young people, the SOS Medico-Social Center and the Family Strengthening Program which provides direct assistance to 155 children and adolescents from very disadvantaged surrounding families of the village;
- **Ensure the energy autonomy of the Village** with regards to the cuts and shedding of the Compagnie Energie Electrique du Togo.



IN CHEFCHAOUEN IN MOROCCO, THE IMPLEMENTATION OF 3 PHOTOVOLTAIC POWER STATIONS WITH **GERES**



In the transitional city of Chefchaouen in Morocco, the establishment of 3 photovoltaic power stations on communal buildings and the promotion of energy management will allow the development of the electricians' profession, the emergence of green economic activities based on energy transition and ecological tourism, and **the improvement of local living conditions.**

GERES thus accompanies the commune of Chefchaouen in its energy transition since 2015: mobility, public lighting, building energy efficiency, public awareness, institution of

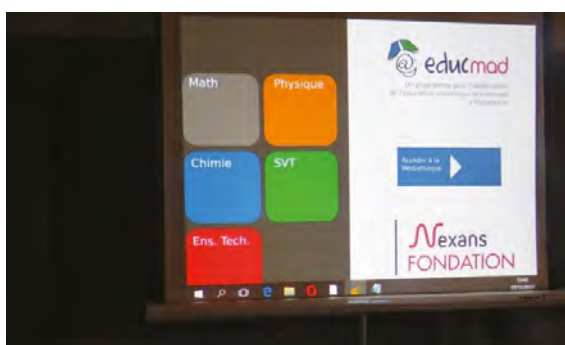
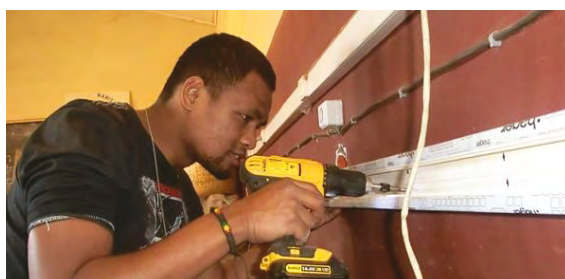
a participative Council of Environment, Energy, Sustainable Development (CPEEDD).

This project will allow to:

1. Favor the production and consumption of solar electricity in public buildings;
2. **Tackle household energy insecurity** and raise awareness among economic players of energy efficiency: an Energy Information Center (CIE), led by local associations formed by the project, supports good management practices and promotes the use of Renewable Energy.



AUTONOMOUS ELECTRIFICATION OF HIGH SCHOOLS IN MADAGASCAR WITH **ACCESMAD**



Madagascar is a country that has a great need for engineers, technicians and researchers to create

infrastructures necessary for its development. To support such needs, the AccesMad association has set up the EducMad-oriented program High School and scientific and technical education. Some high schools have great difficulties in power supply.

The objective of the project is to upgrade the electrical wiring and network of computer rooms connected to the public network and continuity of supply or safety.

The project will allow to:

- **Install autonomous power supply in 1 additional lycée in 2017;**
- Continue the **deployment of the multimedia library in «autonomous mode»**: the networked computers are replaced by a configuration comprising a computer equipment which is powered by photovoltaic panels and its distribution equipment energy;
- **Upgrade the electrical and network wiring of 10 high schools** with a connection to the electrical network but whose installation is deficient.



IMPROVEMENT OF THE WOMEN'S WORKING CONDITIONS IN THE CASAMANCE AREA IN SENEGAL WITH **LA FONDEM**



The EGALES project aims to exploit Casamance's energy potential by installing solar pumps and irrigation systems in 10 market gardens in the Bignona district.

Women who have been forced to extract water manually will see the reduction of the painfulness of their work and the increase of their production with environmentally friendly technologies.

The electrification in the countryside remains scarce. In this context, women's groups have expressed the need to be equipped with solar pumps and drip irrigation, increasing production while limiting water consumption. The gains

generated will cover a share of household spending, including schooling for children.

Through the development of solar energy resources, the project aims to:

- **Improve the operating conditions of a dozen market gardens** through the installation of solar pumping and drip irrigation systems;
- **Improve household food security** (approximately 4,000 people) through stable access to quality food;
- Sensitize women to other uses of electricity in households
- Strengthen the structuring of a maintenance network;
- Provide to local and international actors opportunities related to the use of local sources of energy.



MOROCCO



IVORY COAST



LEBANON

INTEGRATION OF YOUNG PEOPLE THROUGH TRAINING IN THE TRADES OF ELECTRICITY IN MOROCCO, IVORY COAST AND LEBANON WITH THE **IECD**



The **Graines d'Espérance** project aims to improve employability and promote the socio-professional

integration of young people in promising sectors by modernizing the supply of training in the electricity trades and adapting it to the needs of companies. In Morocco, the energy sectors are facing increasing demand and significant needs in the workforce of manual and technical workers. Unemployment affects 37.8% of urban Moroccan youth.

The IECD relies on existing vocational training centers and aims at **improving their training offer, recreating the link** to

meet their needs, enabling young people to integrate socially and professionally, and to become actors in the development of their country.

This project allows them to:

- **Improve the employability and integration of young people in the labor market**, particularly in the electricity and energy fields;
- Strengthen the players in vocational and technical education **to ensure a lasting response to the challenges of integration of young people**.



SOUTH KOREA

THE REPAIR OF PEOPLE'S HOUSES IN POOR URBAN AREAS IN SOUTH KOREA WITH **LOVE HOUSE**



Due to the distinct change of seasons changes in the housing environment are very significant and it is very difficult for the poor to repair their homes. Love House takes care free of charge of repairs, of replacement of cables or electrical lights, and of the maintenance of these disadvantaged homes, thus reducing sanitary risks and diseases and giving them hope of life.



TANZANIA

POVERTY REDUCTION BY SUPPLYING CLEAN PHOTOVOLTAIC ENERGY TO FISHERMEN IN TANZANIA WITH **SIDI**



Thanks to SIDI and Nexans Foundation this project aims to build a 8.6 kW mini grid to generate and distribute

solar energy **to improve fishery practices and help to improve livelihoods** in Lyamwenge island, close to Victoria Lake in Tanzania. This project supports a population **of more than 600 fishermen.**

By powering 2 solar dryers, and 5 refrigerators to reduce fish and providing electricity to 150 households the project allows to :

- **Increase access and use of low cost and clean energy** to light households;
- **Improve fish value addition**- refrigerating and solar drying fish stocks during off peak season, to reduce spoiled fish and fishermen can wait for good price season;
- **Improve health services** delivery by refrigerating medicines and operating hospital machines including e.g. laboratory tests etc, thus reducing deaths and social vulnerability.



TADJIKISTAN

PROVIDE ACCESS TO ELECTRICITY TO THE LOCAL SECONDARY SCHOOL AND MEDICAL CENTRE OF ARNOKHUN IN TAJIKISTAN WITH **ACTED**



The Project aims to set up a micro Hydro Power Plant in Arnokhun (Sughd Oblast, Tajikistan) **to provide access to electricity to the local Secondary School and Medical Centre.**

By building a reliable and clean source of electricity the project will **improve the quality of education and**

health service delivered, consequently creating better opportunities for the development of the community. Indeed, during the autumn/winter season, electricity is cut 18 hours a day, which has **significant important social and economic impact**. The rooms of the health center are not lit and computers / printers in the school cannot be used.



COLOMBIA

RENOVATION OF A LOW VOLTAGE ELECTRICAL NETWORK SYSTEM IN COLOMBIA WITH **LIDERANDO FUTURO**



In the Antillana region, a small community in Colombia, the urban area does not have a proper distribution system for low-voltage electrical networks. Thanks to the Liderando Futuro **the distribution of electric power for many low-income families will improve significantly.** Systems with an

adequate balance of charges and voltage efficiency will be given to the community to supply low voltage energy of 240/120 V, **thereby improving and standardizing the existing cabling.**



CHILE

INSTALLATION OF PHOTOVOLTAIC PANELS FOR 4 COMMUNITY CENTERS IN CHILE WITH **TECHO-CHILE**



The project involves the construction of 4 community centers to the benefit communities damaged by the fires which that ravaged Chile at the beginning of 2017. These spaces, which will **allow the community organization and the implementation of social activities and trainings**, will be built with solar panels to provide an autonomous power source to its inhabitants.





SENEGAL

SOLAR ELECTRIFICATION OF A VILLAGE OF CASAMANCE BY « SOLAR MUMS » WHO ARE ILLITERATE WOMEN IN SENEGAL WITH **DELINE'S GIFT**



The project consists in realizing the solar energy electrification of a landlocked village of Casamance (Senegal) by « solar moms » who are illiterate women trained during 6 months in India to become solar engineers. These women assemble, install, repair and maintain lamps and solar panels. The Nexans Foundation subsidy will be used to provide the long-awaited equipment **to electrify each of the households in**

the village. Coulaye village inhabitants live in extreme poverty and above all without any form of electricity.

The project enable this village to emerge in all aspects : empowering families, reducing costs linked to petrol consumption, **improving the air quality thanks to LED solar lamps , allowing the children to study in of better conditions,** and lastly by reinforcing the generation of income thanks to longer hours of light during the day.



VIETNAM

INSTALLATION OF PHOTOVOLTAIC PANELS IN MAE ORPHANAGE IN VIETNAM WITH **HOLY INFANT ORPHANAGE**



As electric supply is erratic in the region, a full solar power system will enable the Orphanage **to have a regular and continuous supply of electricity, and for the children to have better school conditions.**





SAINT MARTIN ISLAND URGENCY: **ÉLECTRICIENS SANS FRONTIÈRES** INTERVENTION FOLLOWING HURRICANE IRMA



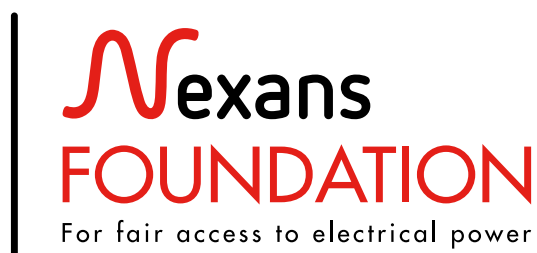
Having arrived at Saint Martin, on Thursday, September 14th, 2017, 4 volunteers from Electriciens Without Borders first secured the electrical installations of the Collège du Mont des Accords in Marigot which serves as a site facility shared among several mobilized actors: servicemen, French Red Cross and Electriciens Without Borders.

As most of the buildings, the school was badly damaged by hurricane Irma. The roof was torn away and the water flows by numerous breaches. Before any power reconnection, numerous interventions were necessary **to secure the internal electric installations**, torn away, damaged by collapsed roofs, and subject to the bad weather.

With the French Red Cross, the solar electrification of six « service points » for the victims was organized to allow in

particular the recharge of telephones. In parallel, **the distribution of 3000 solar kits to the population** was organized: representatives were identified in six districts who will serve to identify the priority persons in connection with the local Red Cross.

The project allows ESF to **estimate and secure 12 school buildings**. About fifteen generating sets and the associated electric installations were installed in two district health centers and in houses used to accommodate families whose were destroyed. The coordination of all the actions in the field and the meetings to liaise with EDF crisis units and Saint Martin's community were effective.



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