



ANNUAL
REPORT
2021

Nexans
FOUNDATION
For fair access to electrical power



| Summary

Edito	2
The Nexans Foundation - key figures.....	4
A Foundation with transparent and organised governance.....	5
Involved and committed employees and sites	7
Testimonies of employees who are sponsors of projects in 2021	9
Project life cycle	10
Our programs in 2021	12
Socio-professional integration projects and access to quality education	13
Well-being improvement projects and access to quality care	17
Projects adressing the needs of the family and children’s communities	18
Projects in favor of a socio-economic dynamic	21





THE NEXANS FOUNDATION: FOR INCLUSIVE ELECTRICAL ENERGY

In 2013, Nexans became the first player in the cable industry to create a Corporate Foundation dedicated to serving the public interest. The objective of the Nexans Corporate Foundation is to **support actions in favour of access to energy for underprivileged populations throughout the world**, by favouring organisations that are close to the field and reliable and sustainable solutions.

Energy is at the heart of Nexans' business; the Group has therefore decided to make it a priority for its Foundation as well.

THE NEXANS FOUNDATION AND THE SUSTAINABLE DEVELOPMENT GOALS

This commitment follows the United Nations (UN) call in 2012 to raise awareness of energy poverty and the importance of developing access to energy. In 2015, the UN reinforced this call by including in

its new Sustainable Development Goals (SDGs) an energy component to «Ensure access to reliable, sustainable, modern and affordable energy services for all» (SDG7), an imperative long advocated by the International Energy Agency (IEA) (1) which advocates universal access to energy by 2030.

Energy does not only provide access to light; it provides access to education and promotes learning (SDG4), improves access to healthcare (SDG3), empowers women and girls (SDG5), provides access to work and participation in economic growth (MDG8), establish sustainable consumption and production patterns (SDG12), take urgent action to address climate change and its impacts (SDG13), and also preserve and restore the Earth's ecosystems (SDG15). The aim is to transform living conditions, economic development and respect for the environment.

Today, according to the United Nations Development Programme (UNDP) (2), it is estimated that one in seven people still do not have access to electricity, most of whom live in rural areas of the developing world. Similarly, over 40% of the world's population, or 3

billion people, rely on polluting and unhealthy fuels for cooking.

GOVERNANCE OF THE NEXANS FOUNDATION

The governance of the Nexans Foundation is made up of two distinct bodies, the Project Selection and Evaluation Committee and the Board of Directors.

The Project Selection and Evaluation Committee, made up of employees from different countries and functions, meets every year to evaluate the projects submitted during the annual call for projects.

A selection of projects is then proposed to the Board of Directors, which is chaired by the Group's CEO and made up of 6 members divided into 3 colleges (founding companies, employee representatives and qualified personalities).

63 ASSOCIATIONS SUPPORTED FOR OVER 1,800,000 BENEFICIARIES SINCE 2013

With an annual budget of 300,000 euros, the Nexans Foundation has supported **134 projects in 38 countries** led by **63 associations** since its creation. Thanks to

the support of these projects, more than **1,800,000 people have benefited or will benefit from access to electricity.**

Because of the ever-growing involvement of the Group's local entities, the Foundation supports both large associations recognised in the field of access to energy such as Electriciens sans frontières, GERES (Groupe Énergies Renouvelables, Environnement et Solidarités), FONDEM (Fondation Énergies pour le Monde) - for large-scale projects - and small organisations such as SHEKINA, ACCESMAD, Lumières pour tous.

The Foundation is active in all countries and mainly in those most affected by energy poverty. Most of the projects have been developed in **sub-Saharan Africa** (in 19 different countries), but there are also projects in **Morocco, Lebanon, Turkey, Asia** (in 9 countries), **South America** (in 6 countries) and **France**.

The payment of the sums allocated is conditional on the submission of activity reports proving that the project has been carried out correctly.

For more information on the Nexans Corporate Foundation: www.fondation.nexans.com

(1) www.iea.org

(2) www.undp.org



The Nexans Foundation - key figures |

9



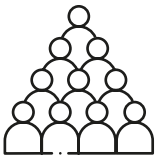
Years since the creation of the Nexans Foundation



38

Countries

1,9 MILLIONS



People have benefited from the Nexans Foundation's actions

63



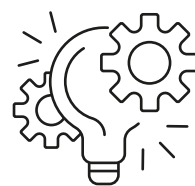
Partners supported



Annual intervention budget

300 000€

134



Projects supported

A Foundation with transparent and organised governance

A BOARD OF DIRECTORS ORGANISED INTO 3 COLLEGE



1st COLLEGE

(founding members Nexans France and Nexans SA):

- **Christopher GUERIN**, CEO of Nexans Group, President of the Nexans Foundation
- **Nino CUSIMANO**, General Counsel and Corporate Secretary
- **Olivier CHEVREAU**, Financial Director B&T South Business Group
- **Johan BURNIER**, Business Development Manager 72KV

2ème COLLEGE

(employee representative):

- **Khady CISSE**, Payroll & Personnel Administration Manager

3ème COLLEGE

(external qualified person):

- **Colette LEWINER**, Energy and Utilities Expert

A SELECTION AND EVALUATION COMMITTEE COMPOSED OF **NEXANS GROUP** EMPLOYEES



The committee meets once a year to pre-select the projects submitted during the annual call for projects.

- **Laurence VANDAELE** CSR Director
- **Bertrand JULIAN** CSR Mission Leader of the Nexans Foundation
- **Souhalla DRISSI** Communication Manager Nexans Morocco
- **Nancy BOTCHWAY** QHSE office, Nexans Ghana
- **Nestor ANTEY** General Manager Nexans Ivory Coast
- **Alain GIRARD** Marketing Innovation Manager Nexans Brazil
- **Rosemary RABANAL** Communication analyst Nexans Peru
- **Sascha SCHAFFRATH** Manager Sales 8& T Nexans Germany
- **Natacha JUSHKO** Sales and Marketing Director-Southern & Eastern Africa
- **Damien SIMON** Onshore Renewables & Electrification Offer Portfolio manager
- **Chao LI** Digital development engineer
- **Karlma CHERIF** HQ HR Director & France HR Coordinator
- **Olivier DERVOUT** Segment Manager Railways & Power Generation
- **Johan BURNIER** Business Development Manager 72KV
- **Riad MOAWAD** Industrial Performance Liban câbles
- **Zoya GRIFFITHS** General Manager-HR Nexans Australia

Involved and committed employees and sites

The Nexans Foundation encourages its employees worldwide to get involved and support the projects of its partner associations.



IECD / Nexans Ivory Coast

Nexans Ivory Coast has donated electrical cables to IECD and the association «Heures joyeuses» for their training centres (renovation of some workshops and use of equipment for practical work) and organised an educational visit for 29 trainees from the Training Center in Mechanics and Electricity (CPMME) and six teachers.



IECD / Nexans Morocco

On the occasion of the International Women's Rights Day 2022, Nexans Morocco organised an event for all its female employees, with the IECD as guest of honour. The project manager of and an apprentice in building electricity. Training centre in Mkanssa, gave their testimonies in front of all the employees of Nexans in Morocco.



IECD / Lebanon cables

A team from the IECD, students and teachers were warmly welcomed at the Lebanon Cables Innovation Day.

Electriciens sans frontières /NST

Nexans Solar Technology (France) has donated over **150 solar panels** to Electriciens sans frontières.

These panels will be used by Electriciens sans frontières for projects from 2022 and onwards.



Nexans France

November 2021: renewal of the **partnership agreement with the Crisis and Support Centre (COCS) of the French Ministry of European Affairs**, Electriciens sans frontières and a dozen partner companies and foundations from the French electrical sector. Nexans France is committed to supporting the implementation of future emergency interventions financially and through the gift of cables.



NORTHCODE /Nexans Ghana

Delivery of all cables by the site for a total amount of about 35 k€

5 employees created a project unit and thanks to their involvement and dedication were able to:

- **bring in local sponsors** to complete the financing of the project for 13 k€.
- **find the subcontracting** of Northern Electricity Distribution Company (Nedco) subcontractor who provided the electrification of the community.
- Organise the inauguration of the project.



Testimonies of employees who are sponsors of projects in 2021

The role of the sponsor

- He/she is a local relay: he/she has a coordination role between the local project association or its local partners and the Nexans Foundation on the follow-up of the project but also in support of the communication.
- He or she is either an employee who has presented a project to the Foundation or a volunteer employee who is geographically close to the NGO or the project.
- He/she is involved in the pre-selection of projects with the Foundation's project officer before they are proposed to the selection and evaluation committee.
- Once the project has been validated by the Foundation's board of directors, he/she supports the organisation in every possible way to ensure that the project is successfully completed. For example, he/she can use its network of local contacts for the association, offer his/her expertise and technical and/or administrative skills, offer to host a press conference on Nexans' premises, etc.
- He/she is an ambassador for the Nexans Foundation and helps to make it known within the Group.



NESTOR ANTEY (General Manager - Nexans Ivory Coast)

"As a Sponsor of the Nexans Foundation activities in Côte d'Ivoire, I enjoyed working with the Shekina Association whose project consisted of electrifying three (3) health centres (GLOPAOUDI, KOARHO and BAGOHOOU) located in the west of Côte d'Ivoire in 2021. It is a feeling of joy and pride to know the happiness that the electrification of these health centres brings to the rural populations. I am also happy to know that the Nexans Foundation is helping to improve the working conditions of the staff of these health centres.

Finally, I would like to reiterate my commitment and that of my colleagues to further support all projects of this nature of the Nexans Foundation in the future."



JESSICA ORTEGA (HR Business Unit South America)

"Being part of the programs that the Nexans Foundation promotes with the purpose of modifying people's living conditions for the better makes me a better person, it connects me with the reality of my country and its needs. Through these programs we not only support with financial but also human resources, the level of involvement with the project and the NGOs is increasingly close, which not only generates relationship ties within the scope of project management, but also and very importantly, a relationship is consolidated by identity in a common purpose: to improve the quality of life of people

and thereby improve the daily life of society as a whole or, at least, of the most disadvantaged social groups. In a nutshell, it allows me to experience the UNITED value."

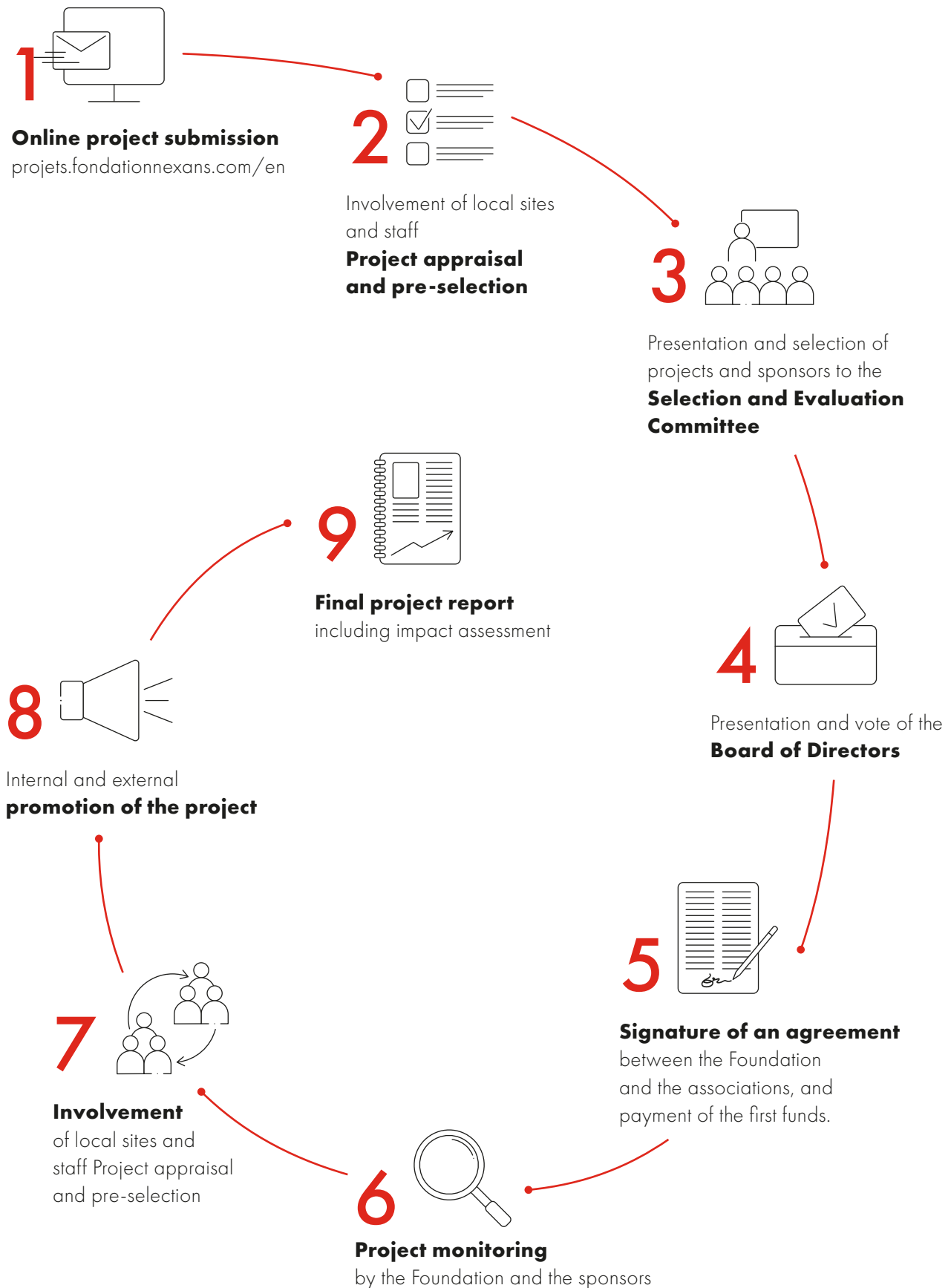


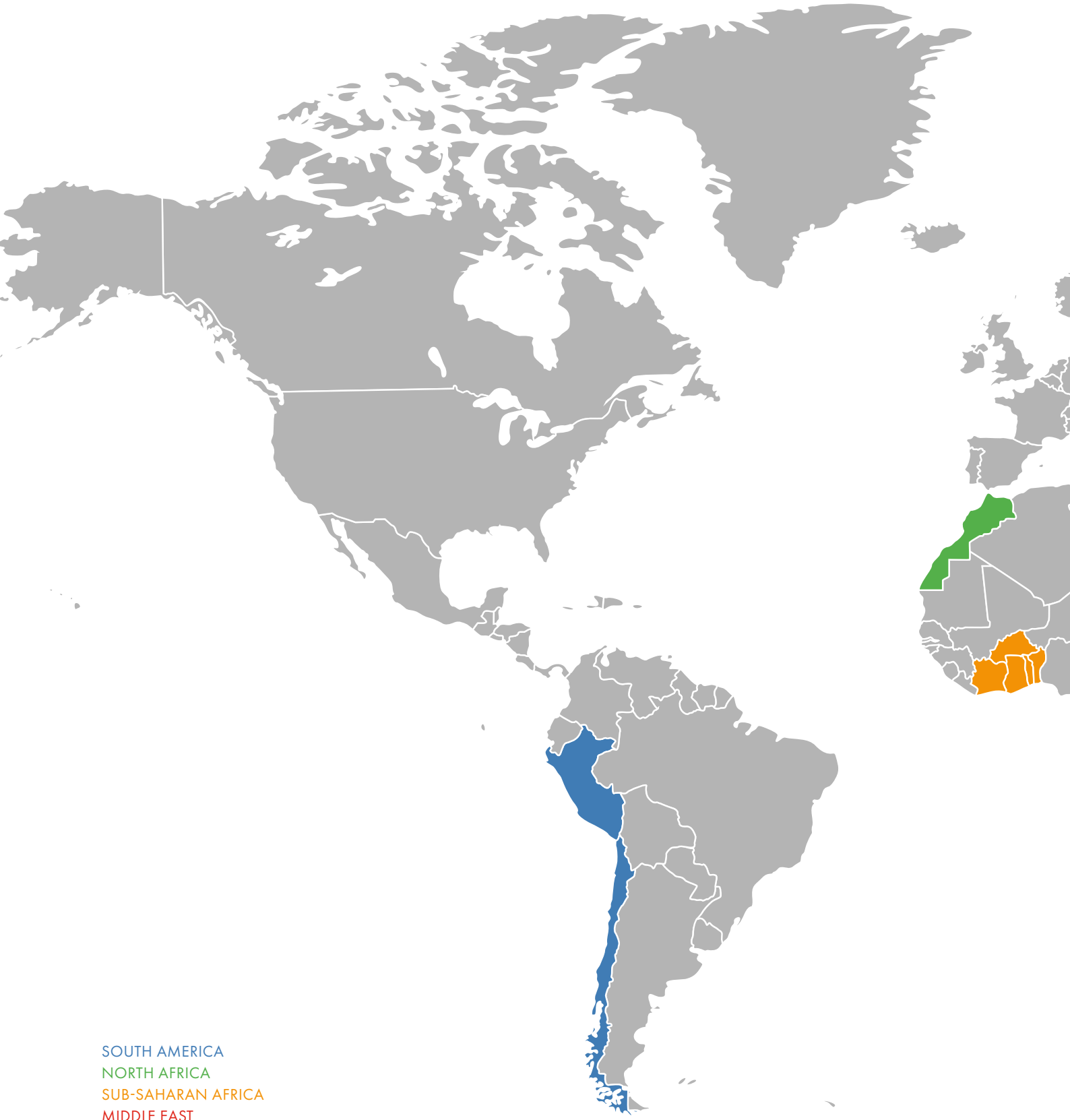
DESIREE CARDENAS PAEZ (HR Nexans Chile)

"My experience in 2020 and 2021 as a sponsor of Techo Chile's projects has been exceptional, not only for the fact of collaborating with an NGO committed and responsible to the different communities in Chile, but also for the experience of participating and bringing light to many communities in the country in order to facilitate a service that brings to their families a better quality of life, improving their personal security, better spaces for leisure and more light time available for their education. I invite everyone to motivate and inspire all the different associations or non-profit organisations to participate alongside

the Nexans Foundation in this common goal of electrifying the future. I have had a joyful heart for two years, when will you join me?"

Project life cycle |





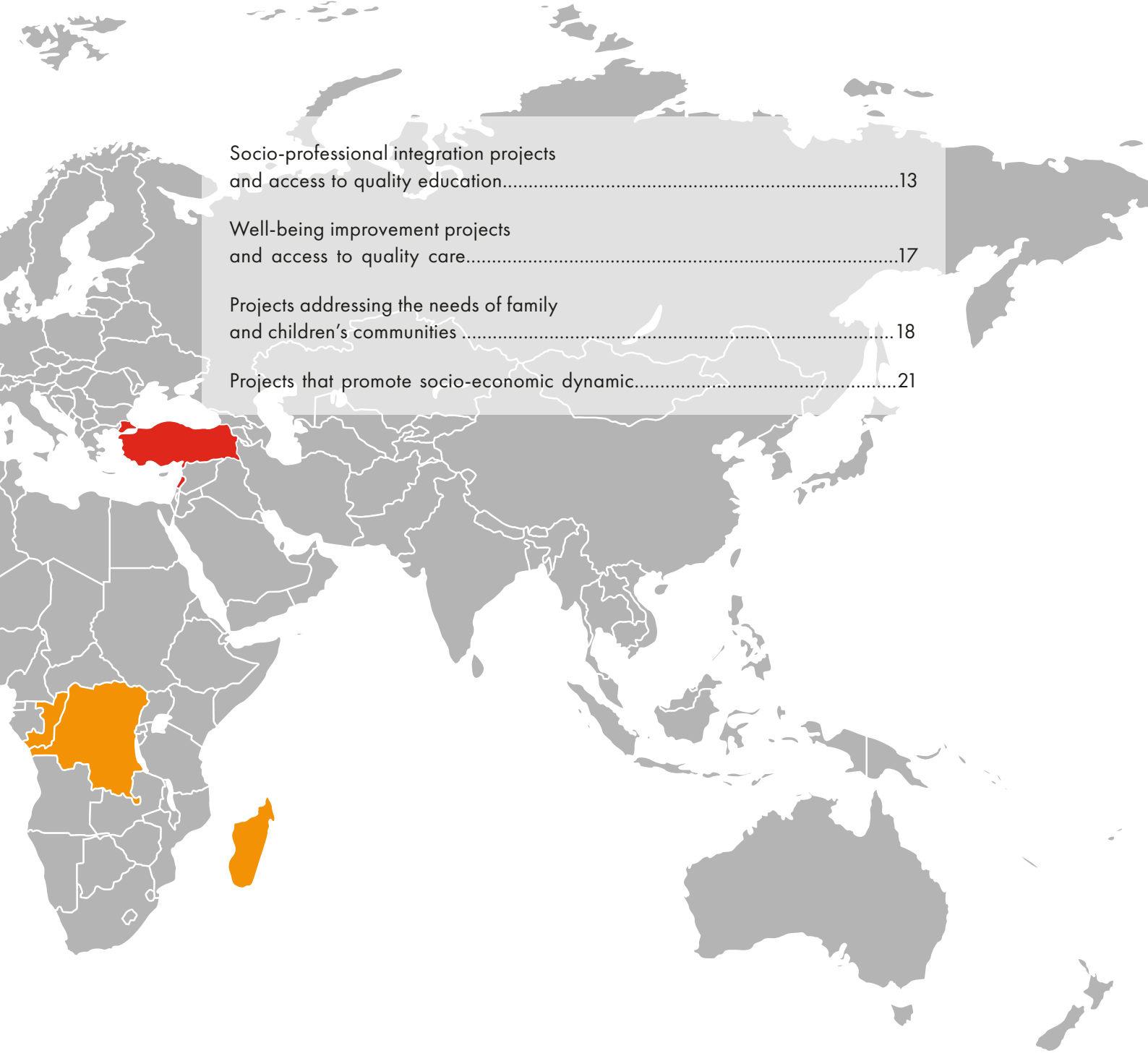
SOUTH AMERICA
NORTH AFRICA
SUB-SAHARAN AFRICA
MIDDLE EAST

Our programs in 2021 |

In 2021, the Nexans Foundation supported 12 projects in 12 countries on 3 continents to improve the living conditions of the most disadvantaged.

The main areas of intervention are the following:

Socio-professional integration projects and access to quality education.....	13
Well-being improvement projects and access to quality care.....	17
Projects addressing the needs of family and children's communities	18
Projects that promote socio-economic dynamic.....	21



SOCIO-PROFESSIONAL INTEGRATION PROJECTS AND ACCESS TO QUALITY EDUCATION



MADAGASCAR

RAY OF SUNSHINE 3 (TARA MASOANDRO)
- installing innovative photovoltaic systems in 6 high schools and creating a MOOC for training in photovoltaic maintenance.



Project in progress

Partners: Valorem Foundation Watt for Change - The French Agency for Development (AFD)

Financial sponsorship: 15,000 €

Project duration: June 2021 - July 2022

Beneficiaries: 2,800 people

PRESENTATION OF THE ASSOCIATION

ACCESSMAD is an NGO created in 2003 whose objective is to improve and promote scientific and technical education in Madagascar by implementing :

- Development and provision of scientific electronic media libraries.
- Training teachers in its use.
- Installation of computer tools to enable their use.
- Cooperation with public or private associations and organisations.

ENERGY PROBLEM

In Madagascar, schools in remote areas have difficulty accessing electricity and new technology not only because of the cost but also because of their geographical location. They are therefore disadvantaged and lag behind most schools.

SOLUTIONS ADOPTED

Several schools now have access to electricity, computer equipment, better electrical installation, but above all to digital educational resources (REN) and the electronic media library. Students can familiarise themselves with the computer tool.

With this project Accesmad was able to equip the schools with solar panels, **Jirodesk solar computers**, as well as access to the Media Library which contains more than **5,000 digital resources**. Phase 3 of the project consists of adding **24 solar computers** and to equip 3 more schools with solar panels. In total, 11 high schools will be equipped with photovoltaic technology and computer equipment, more than **2,500 students** will benefit, **55,000 students** will have access to a **MOOC on renewable energy** and nearly **60 teachers** will have been trained.



LEBANON



MOROCCO



IVORY COAST

With the «Seeds of Hope» project to promote the socio-professional integration of unqualified young people in the energy and industrial sectors in Lebanon, Morocco and the Ivory Coast.

PRESENTATION OF THE ASSOCIATION

Recognised as a public utility, the IECD is an international solidarity organisation that operates in 15 countries in Africa, the Middle East and South-East Asia. With the aim of building environments that allow everyone to build their own future and a fairer society, IECD trains the responsible actors of tomorrow via 3 fields of action: **technical training and professional integration, support for small businesses and access to education and health for vulnerable people.**

ENERGY PROBLEM

Youth unemployment, especially since the outbreak of the health crisis, is a real issue in Lebanon (35%), Morocco (31.2%) and Ivory Coast (22%). Moreover, a large number of young people work in the informal sector, which does not allow them to have a stable situation. At the same time, the energy sector, which provides jobs, has difficulty recruiting competent technicians. Vocational training in the energy sector is not adapted to the needs of companies.

SOLUTIONS ADOPTED

By working on a global approach to initial training, the "Seeds of Hope" programme enables young people **to achieve sustainable social and professional integration.** Nexans Ivory Coast **donated cables for the training centres** and organised **educational plant visits for the students.** A team from IECD and students were welcomed to Nexans Lebanon's Innovation Day. Nexans Morocco **equipped 5 training centres** with donated electrical cables to enable apprentices to carry out practical work in the workshop. Future construction electricians and electromechanics also received valuable advice through **workshops on job search techniques** run by Nexans employees.

Project in progress

Partners: Schneider Electric - The Julius Baer Foundation - The Lord Michelham Foundation - The CFAO Group - The Terre Plurielle Foundation (Bouygues Construction) - The EDF Foundation - Nexans subsidiaries in Lebanon, Morocco and Ivory Coast

Financial sponsorship: 30,000 €

Project duration: June 2021 - July 2022

Beneficiaries: 1,570 people





TURKEY

FUN ELECTRICITY - Creation of a platform for children aged 6 to 14 to inform them about electrical energy and raise their awareness of the safe use of electricity.



Project completed

Financial sponsorship: 16,578 €

Project duration: June 2021 - March 2022

Beneficiaries: 3,500 people

PRESENTATION OF THE ASSOCIATION

Educational Volunteers Foundation of Turkey (TEGV) aims to **strengthen the basic education** provided by the state by helping children between the ages of 6 and 14 to become well-informed and skilled individuals who have embraced the modern and universal values and fundamental principles of the Republic. TEGV's vision is to be a non-governmental organisation with a sustainable structure that is accessible to all children in Turkey through **effective and distinctive educational programmes that support academic and character development.**

ENERGY PROBLEM

After the pandemic, there was a need to use digital tools in education worldwide. **Informing about electrical energy and raising awareness about the safe use of electricity** to be aware of the threats posed by playing with vehicles, open wires, inserting metal into sockets and **protecting oneself from dangers** is an important prerequisite.

SOLUTIONS ADOPTED

The project created a platform where children can **learn about electrical energy** through fun experiments, videos, simulations and games. The platform is in both Turkish and English. The project helps to develop a **positive attitude towards electrical energy** by developing children's skills of investigation, research, creativity, critical thinking, problem solving and experimentation. Testimonial from a child "On this site **I learned how electricity is transported to the house.** I learned about the magnet experiment with the teaspoon. I recommend this site to everyone."



BENIN

WOMEN SOLAR ACADEMY - Training young African women in the solar industry and helping them to create businesses in the field of renewable energy.

PRESENTATION OF THE ASSOCIATION

WOMEN OF AFRICA (WOA) is an NGO created in 2002 and present in 14 countries. It works for the **empowerment of populations** (women, youth, children) and for the sustainable development of territories in line with the Sustainable Development Goals. Since 2002, WOA has created 10 development programmes in the fields of education, energy, water, vocational training, health, environment, biodiversity, reconstruction, sustainable housing, agriculture, entrepreneurship, science, local resource development, culture, lyrical art and sport. Since its creation, Women of Africa has carried out more than **200 projects and accompanied more than 500,000 people.**

ENERGY PROBLEM

Benin has a **low electrification rate in rural areas** (18.3%) and imports most of its energy from Nigeria, which is fossil fuel-based.

Vocational training in renewable energies is a key issue for the economy and for Benin's young women who are prey to unemployment and insecurity.

SOLUTIONS ADOPTED

This project offers access to quality digital education and access to decent work. It contributes to the empowerment of women and the reduction of inequalities. The beneficiaries of the project are young women (between 16 and 25 years old) with a school level equivalent to the 1st and 2nd grades.

The training lasts 18 months and **alternates between school courses and work in a company.** One of the aims is to enable the students, after 6 months, to reach a level equivalent to that of a Certificate of Professional Aptitude (CAP) for electricians, and then to perfect their knowledge in **the fields of solar and photovoltaic systems, sustainable development, and the creation of digital businesses.**

Project in progress

Partners: Eiffage Energy Foundation

Financial sponsorship: 25,718 €

Project duration: September 2021 - June 2023

Beneficiaries: 350 people



WELL-BEING IMPROVEMENT PROJECTS AND ACCESS TO QUALITY CARE



IVORY COAST

With SHEKINA to improve the quality of care for the population in Ivory Coast.

Project completed

Financial sponsorship: 15,000 €

Project duration: September 2021 - May 2022

Beneficiaries: 3,620 people



PRESENTATION OF THE ASSOCIATION

SHEKINA helps the most needy, in particular orphaned children and widows; participates in their economic, social and cultural well-being; creates a climate of mutual aid between them; supervises women and helps them to take charge of their lives; and all similar, related or complementary objectives or those likely to promote their realisation or development.

ENERGY PROBLEM

The State of Ivory Coast **does not have the means to electrify all the country's health centres**. This leads to a large number of deaths, particularly in childbirth. When it is dark, it is difficult to provide care, especially in the case of childbirth or emergencies, and there are **cases of death due to the lack of electricity**. Some villagers prefer to self-medicate and some women give birth at night at home, with all the risks that this entails.

SOLUTIONS ADOPTED

Photovoltaic panels have been installed in 3 health centres without electricity in Ngapie and Zangohoba (Kabadougou region) and in Kointa (Boukani region). Thanks to the supply of **60,000 KW of solar energy 24 hours a day**, the 3 health centres can now give the population **better access to care, store vaccines and medicines that need to be refrigerated on site**, improve the working conditions of the health centres' medical teams, **allow patients to be treated at any time of the day or night** (particularly for emergencies and deliveries), get neighbouring villages out of their isolation and finally raise awareness and train the population in environmental protection.

PROJECTS ADDRESSING THE NEEDS OF THE FAMILY AND CHILDREN'S COMMUNITIES



TOGO

GREEN ENERGY KARA HOSPITAL - electrifying the maternity ward and improving the well-being and access to quality care for patients in TOGO

Project in progress

Partners: Africaine Des Travaux et Fournitures (ADTF)

Financial sponsorship: 25,000 €

Project duration: July 2021 - July 2022

Beneficiaries: 9,347 people

PRESENTATION OF THE ASSOCIATION

For 42 years, **SOS Children's Villages Togo's** mission has been **to care for children who have lost parental care and those at risk of losing it**. Children who have lost parental care are orphans, abandoned, rejected or separated from their parents for serious family reasons. Those at risk of losing parental care are from very vulnerable families. **In 2020, SOS Togo helped 24,551 beneficiaries through social, educational and health projects.**

ENERGY PROBLEM

The maternity ward of the Mother and Child Hospital (MCH) of the SOS Children's Village in Kara, Togo, has to deal with a deplorable, costly and polluting electricity supply. In this region, **the supply of electricity is inconsistent, very expensive and subject to a high incidence of load shedding**. This situation deteriorates the working equipment in this hospital and has a negative impact on the services offered to patients.

SOLUTIONS ADOPTED

The project consists of providing renewable energy to the maternity ward of the MCH in the village of SOS Kara by **installing 138 400 W panels**. This will **reduce the cost of electricity supply by 30%**, improve the well-being and give to quality care for patients and **contribute to the empowerment of the hospital while being environmentally friendly**.





PERU

ILUMINADO FUTUROS - install 50 public lighting poles in the cities of Vista Hermosa and Portada del Sol to carry out their daily activities normally.

Project completed

Partners: Municipality of San Juan de Miraflores

Financial sponsorship: 17,000 €

Project duration: August 2021 - December 2022

Beneficiaries: 950 people



PRESENTATION OF THE ASSOCIATION

TECHO Peru, as a non-profit organisation, aims to **overcome poverty in the slums** through the joint actions of community members and young volunteers. Its objective is to **create an inclusive society free of poverty where everyone can exercise and enjoy their rights**. **TECHO** promotes community development to carry out projects in the areas of housing, vocational training, education and infrastructure, among others.

ENERGY PROBLEM

The **Virgen del Carmen** family group is located in the San Juan de Lurigancho district of **Lima**. It was founded in 2001 on a sandy plot of land, with a rough access road and no basic services. In 2005, the electricity and water project was consolidated and the certificate of possession was also issued to the inhabitants and residents by the municipality. The lack of street lighting creates **safety and security risks for the families** in the settlement.

SOLUTIONS ADOPTED

50 street lights have been installed. The charging process takes place during the day and is quickly recharged by the solar panel. At night, after being recharged, it provides light automatically. It is remote controlled and has a high quality lamp. As they do not depend on the connection to the electricity grid, the **risks associated with irregular connections are avoided** (fires) and thanks to these light poles, the community will have safe and illuminated roads and transit paths. The luminaire will **prevent accidents and falls**. In addition, it will generate **greater security against attacks and crimes**.



LUZ AL BARRIO - installing solar street lighting and photovoltaic panels in vulnerable communities to reduce the feeling of insecurity.

PRESENTATION OF THE ASSOCIATION

TECHO Chile is a non-profit organisation operating in Latin America and the Caribbean with the objective of **fighting social exclusion by building just and sustainable cities**. To achieve this, TECHO-Chile works on proposals to enable families to leave these precarious neighbourhoods and on initiatives that will improve the quality of life of the people living in these neighbourhoods. TECHO-Chile acts by preventing the entry of new housing, working on the dimension of employment, education, security and social services for families in vulnerable neighbourhoods.

ENERGY PROBLEM

For the daily life of the population of **16 vulnerable communities** in **7 regions of Chile** (Antofagasta, Coquimbo and Atacama, Metropolitan Region, Biobío, Valparaíso and Los Lagos) **reducing the feeling of insecurity** in the streets and common spaces due to the lack of installation of public lights is **vital for their well-being**.

SOLUTIONS ADOPTED

The "Luz El Barrio" project has resulted in the installation of **80 solar street lights** in the communities and the installation of **photovoltaic panels in 2 community centres**. This project would not have been possible without the families in the community, who collaborated in the installation of the light poles. **Workshops on energy efficiency** and house and home repairs were held. The beneficiaries take ownership of the project and learn to use energy efficiently and take care of their environment. This has social, economic, environmental and safety benefits. Due to the COVID pandemic, the **lack of materials**, infections and reduced capacity resulted in delays and the construction day with the community and **Madeco by Nexans** employees had to be cancelled. Despite these challenges, the project was completed on time.

Project completed

Partners: Sumando Energías - Meta Solar Madeco by Nexans

Financial sponsorship: 17,000 €

Project duration: September 2021 - March 2022

Beneficiaries: 16,000 people



PROJECTS IN FAVOR OF A SOCIO-ECONOMIC DYNAMIC



BURKINA FASO

DEVEL'UP - Enhancing the productive uses of electricity by supporting rural entrepreneurship and strengthening the viability of electrical services in order to develop and sustain the supply of services related to renewable energy.



Project in progress

Partners: Eiffage Energy Foundation

Financial sponsorship: 20,000 €

Project duration: October 2021 - September 2024

Beneficiaries: 65,000 people

PRESENTATION OF THE ASSOCIATION

A recognised public utility foundation, **Energies pour le Monde** has been working since 1990 to **promote access to clean and inclusive electricity in rural areas through the use of renewable energy**. In recent years, **FONDEM** has decided to focus its decentralised rural electrification activities where the needs are greatest and the impacts of climate change most problematic: Sub-Saharan Africa.

ENERGY PROBLEM

A majority of rural populations in Burkina Faso are **not connected to the national grid** and turn to expensive and polluting decentralised electrification solutions. **The lack of rural economic development and the absence of job opportunities** are driving young people in particular to the countryside. **Electrification creates opportunities for the development of income-generating activities**, which, unlike the sole domestic use of electricity, allow the viability of a rural electricity service.

SOLUTIONS ADOPTED

DEVEL'UP will **support 40 new rural entrepreneurs in launching or developing their activities through secure and sustainable access to electricity**. The **rehabilitation of the solar power plants** will bring electricity to 90% of the inhabitants; these jobs (crafts, sewing, hairdressing, food, etc.) will increase the income of the households involved. In the long term, their activity will make it possible to **pay for their children's schooling or rent, to buy meals and to save in case of famine**. Finally, the sustainability of rural electrical services will bring local economic development that will benefit 50,000 inhabitants of the region.



DRC

HYDROELECTRICITE IDJWI – PHASE 3 - Modernising and upgrading an existing hydroelectric plant and connecting public facilities, such as schools, to the grid to support local development.

PRESENTATION OF THE ASSOCIATION

Engineers Without Borders - Karlsruhe Institute of Technology e.V. (EWB) is an **NGO with 380 students working in 10 countries on different projects**. Since its foundation in 2005, EWB has carried out a total of 33 projects. The main focus is development cooperation through technical engineering projects. The majority of the members are from the engineering sector. In addition to students of civil engineering, electrical engineering, economics, biology and chemistry, other students accompany them in their work: e.g. pedagogues, computer scientists, physicists, health workers.

ENERGY PROBLEM

The industrial campus on Idjwi Island (population 250,000), which includes a maize mill, a carpentry factory, a chick farm, a juice and water bottling plant, a soap factory, a coffee sorting plant and a community centre, was powered by diesel generators. **The high price of diesel prevents an economically viable supply** of electricity and hinders the growth of the campus as well as employment and training places. To counter this problem, EWB in 2018 and 2019 re-commissioned a small 24kW hydroelectric plant and built a new power grid. **The currently available power is not yet sufficient to cover the demand.**

SOLUTIONS ADOPTED

In this third phase of the project, EWB will **increase the capacity of the hydropower plant**. The elevation of the canal and the new pipe will double the head of the water, which will multiply the available power, especially during the dry season. EWB **will install a new turbine-generator set** that is optimally designed for the site conditions.

Project in progress

Partners: Prolasa - Evangelische Kirchengemeinde Merzig - Tools For Life Foundation Kelkheim - GLS Treuhand Bank Bochum - Aktion Eine Welt - Rottweil - Reiner Lemoine Institut Berlin - Netze BWGmbH Stuttgart

Financial sponsorship: 20,000 €

Project duration: January 2017 - December 2022

Beneficiaries: 6,000 people





MOROCCO

ALL ACTORS OF THE ENERGY TRANSITION IN MOROCCO - Empowering and raising the awareness of the inhabitants of the province of Tata about energy and climate through the deployment of energy-climate information services and the installation of photovoltaic power plants.



Project in progress

Partners: Agence Française de Développement - Tangier - Tetouan - Al Hoceima Region - Tata Province - ENGIE Foundation

Financial sponsorship: 35,000 €

Project duration: January 2021 – December 2022

Beneficiaries: 3,740 people

PRESENTATION OF THE ASSOCIATION

GERES is an international NGO which works to **improve living conditions and combat climate change and its impacts**. Energy transition is a major lever for its action. Energy efficiency, renewable energy and local economic development are at the heart of its activities.

ENERGY PROBLEM

Housing and energy is the second largest item of household expenditure in Morocco. Faced with this, the Kingdom has set itself **ambitious objectives for energy management and the development of renewable energies**. The emergence of a **resilient and inclusive low-carbon society** can only be achieved through a common culture of energy and climate issues among all territorial actors.

SOLUTIONS ADOPTED

This project is a phase 2 of the project to continue the actions in 2021 and 2022. It aims to combat fuel poverty by giving inhabitants the means to take action and to train the population in energy and climate issues through the deployment of Energy Information and Climate Services and the installation of a number of energy centres.

Climate Services, and the installation of photovoltaic plants as case studies.

The expected impacts of this project are:

- **An improvement in the quality and comfort of life** for all, including the most vulnerable, at a controlled cost (decent housing, lower electricity bills, thermal comfort in buildings).
- A reduction in illnesses linked to unsuitable indoor temperatures.
- **Controlling the energy expenditure** of economic actors.
- The creation of activities and jobs linked to renewable energy.
- **Raising people’s awareness of environmental issues.**



GHANA

ELECTRIFICATION OF JELINKON COMMUNITY FOR HONEY PROCESSING AND IMPROVED LIVELIHOODS - Connecting the community to the national grid and building a honey processing unit.

PRESENTATION OF THE ASSOCIATION

The vision of **NORTHCODE** is to stimulate, facilitate, support and provide resources for accelerated development in Northern Ghana. It seeks to achieve its mandate through programmes and projects in the areas of biodiversity conservation and natural resource management, health advocacy and promotion, agriculture, food security and livelihood development, as well as contributing to other areas of sustainable human development in Ghana.

ENERGY PROBLEM

The lack of electricity in Jelinkon severely affects the quality of life and contributes greatly to the rural poverty of the community. Economic activity is limited to agriculture, and many people live below the poverty line. The community leaders have appealed for help to ensure the electrification of the community to improve their standard of living. The lack of electricity also hinders the proper functioning of the new honey processing unit, especially as the honey and wax must be handled at night when the bees are less active (so as not to attract swarms of bees to the village). Located 8km from the nearest electricity pole, they are asking for help to extend the national electricity grid to the community.

SOLUTIONS ADOPTED

The project involves erecting wooden poles, **laying electricity cables and installing transformers** and other necessary equipment. The project **will strengthen the development of the honey and wax** value chain, which will support the economic development of this predominantly agricultural community, and will also benefit the Jelinkon. **300 hives have been provided to 220 beekeepers (mostly women)** in the Jelinkon CREMA (Community Resource Management Area), which encompasses 10 communities.

Project in progress

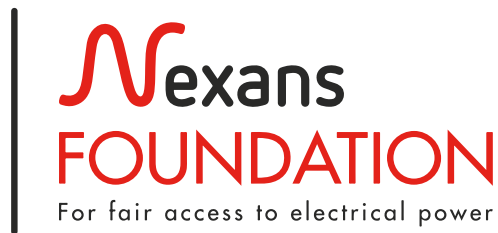
Partners: NEDCO (Northern Electricity Distribution Company) - Nexans Kabelmetal Ghana Limited - L'agence Française pour le Développement (AFD) - ONG Noë

Financial sponsorship: 25,000 €

Project duration: July 2021 - June 2022

Beneficiaries: 5,000 people





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