



ALER

Associação
Lusófona
de Energias
Renováveis



Webinar Apresentação do Fundo de Acesso à Energia Angola e Moçambique

17 de Dezembro 15h (GMT)



A EDP: breve introdução



EDP Renováveis



Installed Capacity: 11.4 GW
 # Wind Onshore and Offshore
 # Solar Power



EDP Brasil



Installed Capacity: 2.3 GW
 Electricity Distributed: 26 TWh
 Clients: ~3.5 M
 # 93,155 km of Network



Iberian Peninsula

Generation and Supply



Installed Capacity: 13.8 GW
 Clients: ~8 M
 # Electricity and Gas
 # Energy Efficiency, Distributed Solutions, E-Mobility

Networks



Electricity Distributed: 54 GW
 # 1 Portuguese Distributer
 # 247,589 km of Network

Com mais de **40 anos de história**, a EDP consolidou-se ao longo da última década nos diversos mercados e tecnologias, preparando a empresa para os desafios do futuro

2006-2008



Antecipação de mercado e criação de opções de crescimento

Dec-05 07 08

12 GW

2009-2011



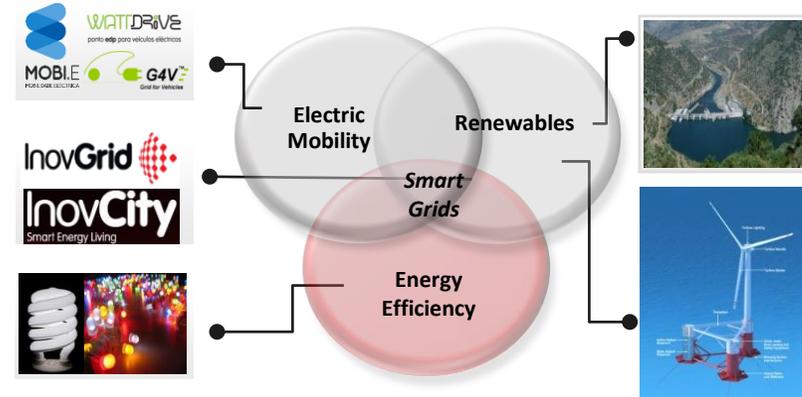
Foco na execução e consolidação da liderança

09 10 11

22 GW

2020...

SUSTENTABILIDADE



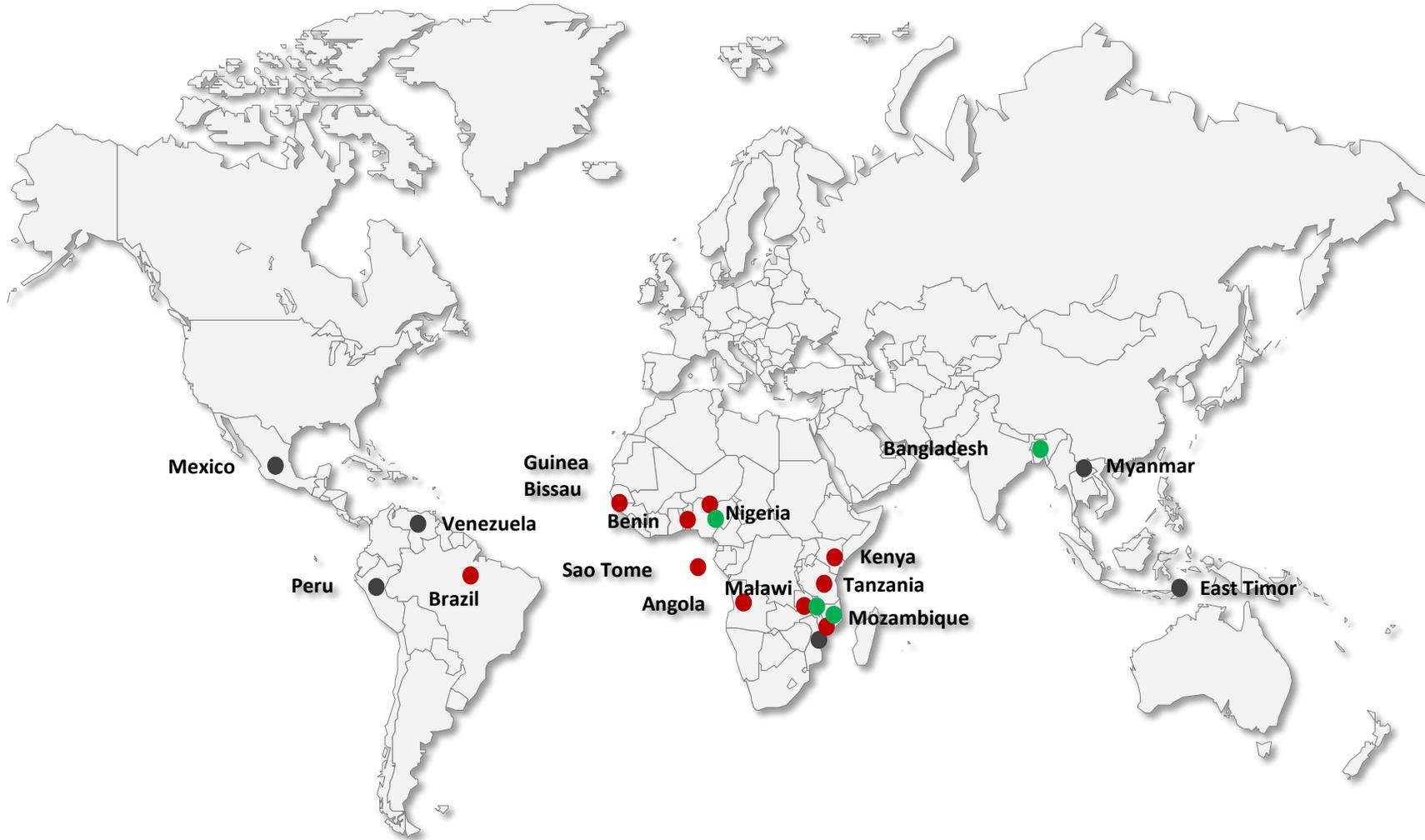
- Novos países
- Eficiência energética, SmartCities, EVs

12 13 14 15 16 17 18

27 GW

Capacidade Instalada

Na última década, o Grupo EDP investiu cerca de 11 M€ em projectos de **Acesso à Energia (A2E)** que beneficiaram mais de 200.000 pessoas



EDP A2E NO MUNDO

- Investimento em Empresas
- Projecto Implementado
- Projecto Desenvolvido

Saiba mais: <https://youtu.be/T7qXBVMoNQ>





EDP Fundo de Acesso à Energia

No âmbito da estratégia de Acesso à Energia da EDP, a EDP lançou em 2018 um Fundo de apoio a projetos de energia limpa e sustentável em países em desenvolvimento. Esses projetos promoverão o desenvolvimento ambiental, social e económico de comunidades rurais em países em desenvolvimento. O Fundo A2E reafirma o compromisso do Grupo com a sustentabilidade, priorizando a mitigação da exclusão elétrica, que ainda afeta 789 milhões de pessoas.

A **1ª edição** deste programa, lançada em outubro de 2018, recebeu 108 candidaturas para apoiar projetos no **Quénia, Tanzânia, Moçambique e Malawi**, das quais 5 foram selecionadas para implementação.

A **2ª edição** (2019/2020) foi lançada em outubro de 2019 e foram apresentadas 160 candidaturas. Oito organizações foram selecionadas para apoiar seus projetos no **Quénia, Tanzânia, Moçambique, Malawi e Nigéria**.

A **3ª edição** (2020/2020), lançada em novembro de 2020, visa apoiar projetos em **Angola, Ruanda, Moçambique, Malawi e Nigéria**.



Calendário

de 26 nov 2020 a 10 jan 2021



Candidaturas

(As candidaturas devem ser submetidas até às 23:59 (GMT) do dia 10 de janeiro de 2021. Os projetos submetidos após esta data não serão considerados inscritos.)

jan - fev



Análise das candidaturas

fev - mar



Pré-seleção I

(envio de informação complementar)

mar - abr



Pré-seleção II

(visitas técnicas, se aplicável)

abril

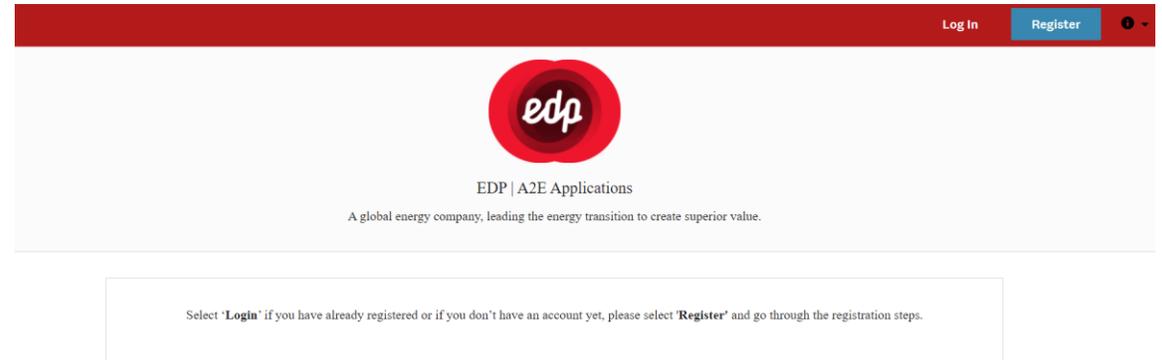


Seleção final e celebração dos contratos

(Os projetos selecionados serão comunicados até 30 de abril de 2021.)

- Serão considerados apenas os Projetos que usam **energia limpa**.
- Os projetos podem candidatar-se a valores entre **25.000€** e **100.000€**. O Fundo suportará:
 - até 75% dos custos totais do projeto, para entidades sem fins lucrativos;
 - até 50% dos custos totais do projeto, para entidades com fins lucrativos;
- Após a validação do cumprimento dos pré-requisitos, os projetos serão avaliados de acordo com os seguintes **critérios**:
 - Relevância social e impacto 20
 - Capacidade para implementar 20
 - Parcerias 20
 - Sustentabilidade 20
 - Expansão 10
 - Número de beneficiários 5
 - Custo/Beneficio 5
 - Total 100*

- Candidatura Online no website <https://edp.smapply.io/>



- Documentos relevantes disponíveis no site EDP:
 - Regulamento;
 - Instruções para o preenchimento;
 - Candidatura Fictícia.
- Contacto para questões: a2e@edpr.com

1st Edition Overview

(2018/2019)



Project 23 - Fundación Energía Sin Fronteras

Project Name: Electricity supply self-sufficiency in St. Mary's Rehabilitation Center, Chezi, Malawi

Category: Energy & Health

Description: 25,9kWp solar system for the electrification of 5 buildings at St. Mary Rehabilitation Center, to provide 24h medical assistance to 130 AIDS orphans, as well as ambulatory medical and educational assistance to other children and vulnerable elderly from the surrounding population.

Power Installed: 25,9 kWp

Beneficiaries: 780 direct and 2.000 indirect

Outputs:

- The Center won't have to rely on the national grid, that have frequent power cut-offs from 4h to several days, and will become self-sufficient for operation and routine maintenance, on a sustainable way.
- Safe and sustainable ambulatory medical and educational assistance to children and vulnerable elderly from the surrounding population
- Irrigation for vegetable gardens



Country: Malawi
Location: Chezi, Dowa district

Status July 2020

- Technical design complete
- Installation and Commissioning of the PV System
- 5 buildings of the Centre running on solar energy
- Training sessions on system maintenance held
- Extra funding raised next to third parties

Execution rate: 100%



Project 24 - Co-operative Bank Foundation

Project Name: Adoption of Agribusiness and use of Renewable Energy Technologies for Agriculture by Youth in Kenya

Category: Energy & Water and Agriculture

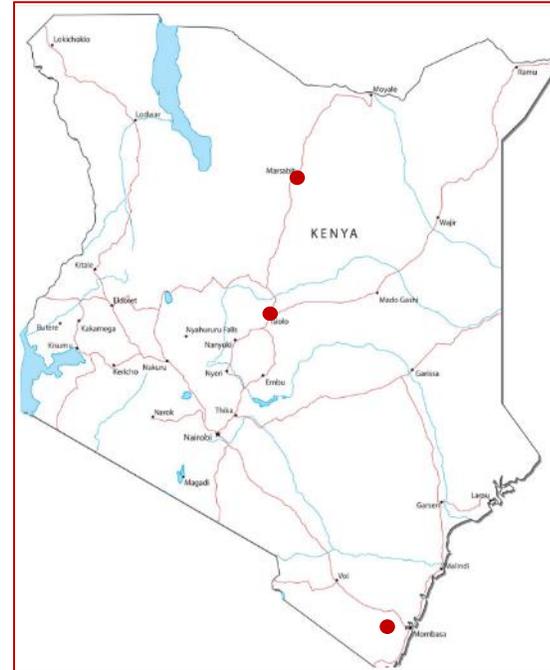
Description: 12 solar power greenhouses and drip irrigation for 7 schools in arid and semiarid areas

Power Installed: 60-100 kWp

Beneficiaries: 6.000 direct and 10.000 indirect

Outputs:

- Agribusiness enterprises set up in 7 public schools
- Food security and nutrition for students
- Students earn an income from sales made from food surplus
- Knowledge transfer for technology applied to agriculture and business management
- Students earn an income from sales for food surplus
- Access to mentorship programs for students



Country: Kenya

Location: Marsabit, Isiolo and Kwale counties

Status July 2020

- All 7 schools have functional greenhouses powered by solar power and fitted with well-functioning irrigation systems.
- In Isiolo County, 5 greenhouses and 3 solar irrigation systems were set up in 3 selected schools. A variety of crops including spinach, tomatoes, potatoes, cabbages and beetroot were planted. The plants are being used to enhance the nutrition of the school diet and this has resulted in the schools making savings which they are re-investing into the greenhouse project.
- In Kwale county, 5 greenhouses and the solar irrigation systems were installed in all the 3 targeted schools. The schools harvested tomatoes, capsicum and spinach.
- In Marsabit, 2 greenhouses and solar irrigation system were set up in the selected school. The students planted tomatoes and spinach in the 2 greenhouses.
- The entrepreneurship and business management training has taken place in all schools.

Execution rate: 100%



Project Name: Energy for a brighter future

Category: Energy & Education

Description: 30 kWp solar system for the Girl Move Academy “ECOCampus” and IT Center in Marrere

Power Installed: 30 kWp

Beneficiaries: 1.230 direct and 6.000 indirect

Outputs:

- Increase the number of training hours
- Improve training capacities
- Energize the talent
- Develop IT skills and access to internet



Country: Mozambique
Location: Marrere, Nampula district

Status March 2020

- Completed construction and furnishing of the talent room with a capacity for about 100 people standing, and around 50 sitting.
- Design of the “IT skills training” workshops finalized
- Installation and Commissioning of the PV System

Execution rate: 100%



Project Name: Empowered schools in Namacurra District

Category: Energy & Education

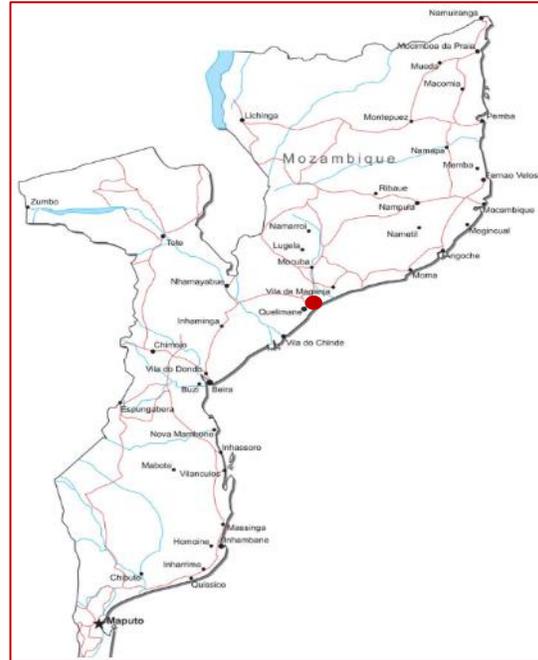
Description: 3,84kWp solar system for 2 schools in flooded Zambezia (for displaced people) w/warning systems

Power Installed: 3,84kWp

Beneficiaries: 1.300 direct and 7.000 indirect

Outputs:

- 12 classrooms in 2 schools with electricity
- Community access to education, extended school hours for adults
- Power charging stations in the schools, generating income for the schools
- Access to IT and Internet
- Installation of early catastrophe warning systems
- Reinforce community capacity in disaster preparedness



Country: Mozambique

Location: Namacurra District, Province of Zambezia

Status November 2020

- Selection of 2 schools to receive the solar PV systems
- Community public consultation conducted
- School facility adaptation with installation of doors and windows to ensure the security of solar panels and electric system
- Installation and Commissioning of the PV System
- Training on risk management, early-warning systems and solar system maintenance conducted
- Inauguration took place after being postponed due to COVID-19 preventive measures

Execution rate: 100%



Project Name: Enabling Access to Energy in Kakuma

Category: Energy & Business

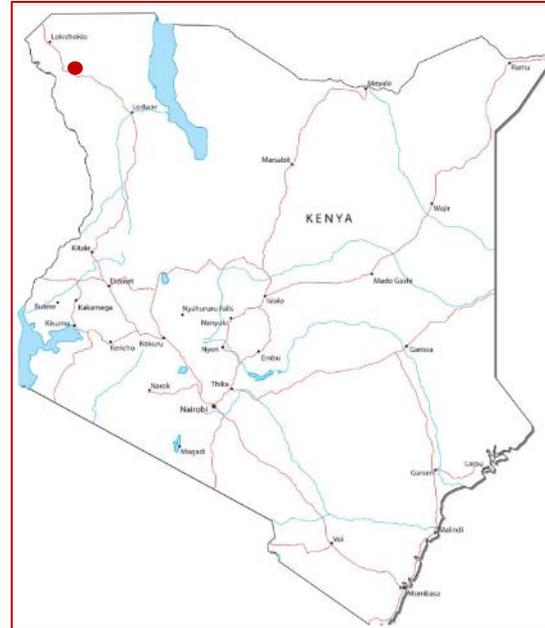
Description: 20 kWp MiniGrid in Kakuma Refugee Camp, to supply PAYG electricity to 150 households, 50 commercial customers, with smart metering technology, and ongoing capacitation and customer’s education.

Power Installed: 20 kWp

Beneficiaries: 800 direct and 18.000 indirect

Outputs:

- 200 customers with 24/7 electricity (~800 direct beneficiaries)
- Access to electricity (health, education, income generation...)
- Job creation
- Business empowerment
- Replication potential, with increase awareness among Kakuma Refugees relying on diesel gensets, 5 hours a day



Country: Kenya

Location: Kakuma Refugee Camp



Status November 2020

- Preliminary technical surveys conducted
- About 200 potential customers identified
- Identification and procurement of equipment and suppliers for the solar mini grid.
- Organization of community awareness sessions
- Construction of the powerhouse and installation of the solar mini-grid
- Governmental licensing pending, due to the COVID-19 preventive measures

Execution rate: 60% *



* The implementation rate is based on the specific objectives activities for each project. Most of those objectives are set from the acquisition and implementation of the energy systems phase.

2nd Edition Overview

(2019/2020)



Project Name: Improvement of lives of poor, vulnerable youths, women & girls by providing access to solar energy to enhance economic development on poor communities in Nigeria.

Category: Energy & Education

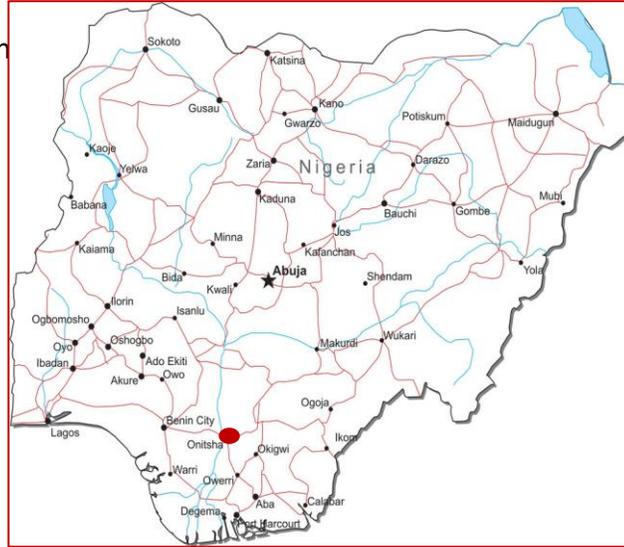
Description: 10 kWp solar system for Technical Vocational Education Center (lighting and Solar Energy Workshop)

Power Installed: 10 kWp

Beneficiaries: 2.700 direct and 7.000 indirect

Outputs:

- Substantial savings on diesel generators
- Enhancing training and education of young solar technicians (electricians and electrical solar system experts)
- Develop a solar power/renewable energy Workshop, to be replicated in other Don Bosco TVET's



Country: Nigeria
Location: Onitsha, Anambra state

Status November 2020

- The solar facilities installed
- Solar workshop established with learning materials
- Community outreach conducted
- Training pending due to the COVID-19 preventive measures

Execution rate: 80% *



* The implementation rate is based on the specific objectives activities for each project. Most of those objectives are set from the acquisition and implementation of the energy systems phase.

Project Name: Climate Resilient Water Supply System for Schools and Communities in Nsanje

Category: Energy & Water and Agriculture

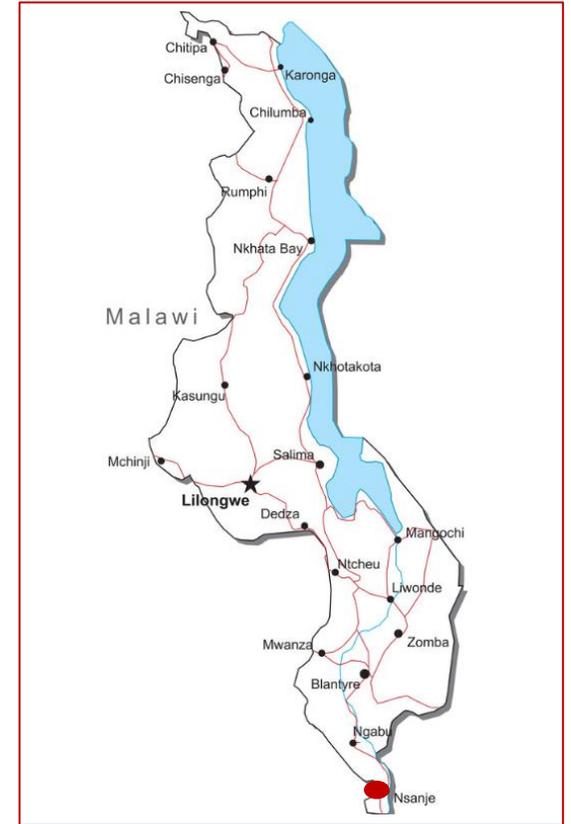
Description: 1.8 kWp solar systems (2) to power water pumps in 2 schools and neighboring communities improving access to safely managed water

Power Installed: 1.8 kWp

Beneficiaries: 6.000 direct

Outputs:

- 2 boreholes are built
- 2000 children in 2 primary schools have access to safe water
- 4000 people in surrounding communities have access to safe water
- 2 management water committees created, and 4 members of the communities trained as water operators for maintenance



Country: Malawi
Location: Nsanje, District of the southern region of Malawi

Project Name: Solar Energy for Island of Hope

Category: Energy & Education

Description: 20 kWp solar system for Community Center taking care of orphans and vulnerable children, including kindergarten, primary and secondary school, orphanage and medical clinic, and IT lab.

Power Installed: 20 kWp

Beneficiaries: 510 direct and 1.400 indirect

Outputs:

- Energy for 11 classrooms, Administration block and Computer lab (50 computers)
- Set-up of an internet business for the community
- Reduction on the energy bill (grid and generators)



Country: Kenya
Location: Rusinga Island (Lake Vitoria)

Status November 2020

- Community meetings held
- Construction of the Powerhouse
- Installation of the Solar System
- Testing undergoing

Execution rate: 95% *



* The implementation rate is based on the specific objectives activities for each project. Most of those objectives are set from the acquisition and implementation of the energy systems phase.

Project Name: Introduction of sustainable irrigation scheme in Mabinju

Category: Energy & Water and Agriculture

Description: 10 solar pump drip irrigation systems for 10 farmers clusters plus 2 water tanks for each cluster

Power Installed: 1,2 kWp

Beneficiaries: 1.200 direct and 3.000 indirect

Outputs:

- 10 drip irrigation schemes and 2 water tanks for 10 farmers’ clusters
- 1/3 of households’ farmland in Mabinju Village
- Improvement of farm yields, income increase and food security
- Benefit the most vulnerable segment of the population
- Set up of a Maintenance Savings Fund



Country: Kenya

Location: Mabinju village, Slaya County

Status November 2020

- Community meetings held
- 10 water tanks constructed and installation undergoing
- Equipment purchased, pending delivery

Execution rate: 15% *



* The implementation rate is based on the specific objectives activities for each project. Most of those objectives are set from the acquisition and implementation of the energy systems phase.

Project Name: Powering DADREG Community Training Centre

Category: Energy & Education

Description: 15 kWp Solar System for community training center, to allow young people to access vocational skills for gainful employment

Power Installed: 15 kWp

Beneficiaries: 6.800 direct and 24.620 indirect

Outputs:

- 980 youth will access vocational & entrepreneurship daily
- 1.200 studying at DADREG community center access lighting for education, and, cooking their meals so that children don't go scavenge for food in the dumpsite
- 74 young people will have space to do activities (acting, dancing, singing) at night
- 120 community members with space for meetings during the evening
- Reduce the electricity invoice in 70% (grid and diesel)



Country: Kenya
Location: Dandora slums, Nairobi

Status November 2020

- Expansion of the training center completed
- Community meetings held
- Solar PV system assembling undergoing
- School closed due to the COVID-19 preventive measures

Execution rate: 60% *



* The implementation rate is based on the specific objectives activities for each project. Most of those objectives are set from the acquisition and implementation of the energy systems phase.

Project Name: Improve the quality of life in the Matutuine District, through food security, reforestation and income generation

Category: Energy & Water and Agriculture

Description: 0,6kWp solar panels for water pump irrigation system; 1,25 kWp SHS for Training center; 0,4 kWp Artisans workshop.

Power Installed: 2 kWp

Beneficiaries: 425 direct and 4.060 indirect

Outputs:

- Increase of plant production at forest nursery
- Water Pumping
- Increase production of honey
- Access to information about forestation, agroforest, systems and food security



Country: Mozambique
Location: Djabula community, District Matutuine, Maputo

Status November 2020

- Installation of the solar panel system at the Centro de Informação and at the Multipurpose building of CDCD
- Workshop on Natural Resources Management for Teachers and Technicians from the Local Agriculture Services held
- Training for honey producers undergoing

Execution rate: 20% *



* The implementation rate is based on the specific objectives activities for each project. Most of those objectives are set from the acquisition and implementation of the energy systems phase.

Project Name: EASI-WATER, EASI-PAY: Enabling Malawian smallholder farmers to approach farming commercially

Category: Energy & Water and Agriculture

Description: 50 hydro-power Barsha Pumps and 50 irrigation kits, to lease to 250 smallholder farmers to practice irrigation agriculture during dry season, with pay-as-you-harvest.

Power Installed: 6 kW

Beneficiaries: 250 direct and 2.000 indirect

Outputs:

- 50 Barsha pumps installed
- Installed renewable capacity of 3.600 kWh per month, based on an installed renewable energy capacity of 6 kW that can be used 24/7
- Each Barsha pump prevents the emission of 0.8 t CO2/year
- Up to 150% farmer income
- Creation of 15 jobs



Country: Malawi
Location: Blantyre, Zomba, Thyolo districts

Status November 2020

- Site feasibility and promotional activities conducted
- 150 smallholder farmers interested in purchasing pumps
- Training in green innovation, irrigation and water management for all interested farmers
- 14 pumps already purchased and installed
- Delay in pumps shipment due to the COVID-19

Execution rate: 40% *



* The implementation rate is based on the specific objectives activities for each project. Most of those objectives are set from the acquisition and implementation of the energy systems phase.

Project Name: Solar Switch Mwanza

Category: Energy & Health

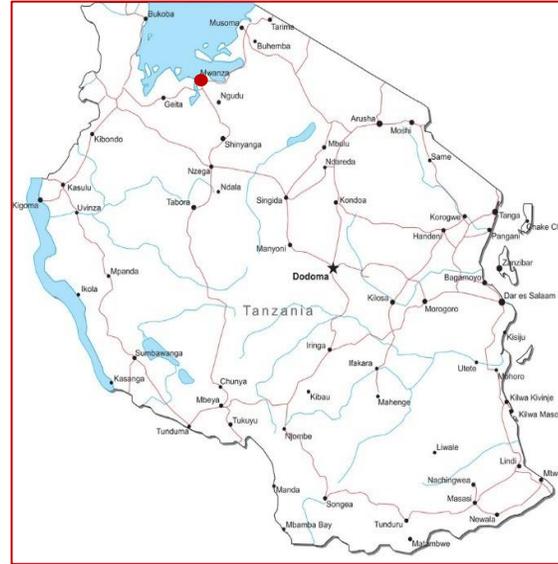
Description: 39,6 kWp solar system for the Aga Khan (new) Hospital and 26 solar water heating, to avoid frequent power outages, reduce electrical bill and replace the diesel consumption of the back-up gensets

Power Installed: 39,6 kWp

Beneficiaries: 1 million users per year

Outputs:

- Generate reliable, sustainable and clean electricity to maintain access to high standard of care for patients
- Reduction of the energy costs (grid and diesel)



Country: Tanzania
Location: Mwanza

Status November 2020

- Set up of a Steering committee
- Procurement completed, and vendor selected
- Structure Reinforcement works completed
- Equipment delivery delayed due to the COVID-19

Execution rate: 45% *



* The implementation rate is based on the specific objectives activities for each project. Most of those objectives are set from the acquisition and implementation of the energy systems phase.