RES4AFRICA

RENEWABLE ENERGY SOLUTIONS FOR AFRICA

FOUNDATION



2020 Annual Report

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MEMBERSHIP



New members

BaxEnergy

During its first Executive Committee of the year (25th February), RES4Africa welcomed BaxEnergy as a new partner, expanding the Foundation's network to 31 organisations between members and partners. Through its innovative technological solutions, BaxEnergy makes renewable energy easier, more efficient, affordable and secure, perfectly matching the mission of RES4Africa Foundation.

renewAfrica Partners

On 18th February, RES4Africa welcomed EDP Renewables, Nordex Group and Vestas as new members in the "renewAfrica Partners" category. As an industry-backed initiative in which RES4Africa acts as the interim secretariat, renewAfrica counts the endorsement of 27 organisations that represent the entire European renewable energy value chain. The vast majority of the renewAfrica supporting organisations were not originally RES4Africa members, and are now joining the Foundation in light of the recent positive collaboration.

MEMBERSHIP

EDP Renewables

EDP Renewables is a global leader in the renewable energy sector and the world's fourth-largest wind energy producer. With a sound development pipeline, first class assets, and market-leading operating capacity, EDPR has undergone exceptional development in recent years and is currently present in 14 markets (Belgium, Brazil, Canada, France, Greece, Italy, Mexico, Poland, Portugal, Romania, Spain, the UK, US and Colombia).

Vestas

Vestas is the energy industry's global partner on sustainable energy solutions. Vestas designs, manufactures, installs, and services wind turbines across the globe, and with more than 108 GW of wind turbines in 80 countries, it has installed more wind power than anyone else.

Nordex

Nordex Group is one of the world's leading suppliers of wind turbines. The principal focus is on units with a high capacity – above all in the megawatt range, the strongest growth segment in the sector.

Schneider Electric

On 27th May, during the second Executive Committee of 2020, RES4Africa welcomed Schneider Electric within its member network in the "renewAfrica Partner" membership category. On 16th April, on the occasion of renewAfrica's fifth Steering Committee meeting, Schneider Electric joined the initiative signing its Declaration of Intent. Schneider joined the renewAfrica Initiative to reinforce its commitment to climate action and to providing access to energy to all.

INTERNATIONAL RELATIONS

Partnerships

East Africa Centre of Excellence for Renewable Energy and Energy Efficiency (EACREEE)

On 29th July, RES4Africa and the East Africa Centre of Excellence for Renewable Energy and Energy Efficiency (EACREEE) announced that they had signed a Memorandum of Understanding to increase their cooperation and mutual support in the promotion of renewable energy in Eastern African region. The agreement especially aims to deepen their collaboration in the strengthening and expansion of capacity building in the region, through the Micro-Grid Academy (MGA).

Regional Center for Renewable Energy and Energy Efficiency (RCREEE)

On 21st December, RES4Africa gave notice that an MoU was signed with RCREEE, an intergovernmental organization with diplomatic status that aims to enable and increase the adoption of renewable energy and energy efficiency practices across pan-Arab countries. The aim of the agreement is to join forces and promote sustainable energy in the South- and East-Mediterranean and sub-Saharan African region. In particular, it was agreed to share knowledge and expertise related to renewable energy, to promote actions and initiative to foster RE development in all African countries, to Jointly organise capacity building programmes and to explore the potential of UfM Platform for RE and Energy Efficiency.

INTERNATIONAL RELATIONS

Ministry of Energy, Mines and Environment of Morocco

Ministère de l'Energie, des Mines et de l'Environnement

On 23rd December, RES4Africa signed a Framework Cooperation Agreement aimed at promoting and energizing the cooperation with the Ministry of Energy, Mines & Environment of the Kingdom of Morocco in the fields of electricity and renewable energy. RES4Africa and MEME will coordinate specific working groups, each of them focused on one of the seven areas of collaboration identified in the Framework Cooperation Agreement: Energy transition, Grid flexibility, Energy interconnections, Digitalization: energy and NTIC (telecommunication, system Information), Renewable energy certificate system implementation, Rural electrification decentralized and Capacity building. The Framework Cooperation Agreement with the Ministry will last 5 years. RES4Africa and the Ministry will define the priority of each area and the way of working to implement the actions under the cooperation.

Strategic outreach at international level



IRENA 2020 Public-Private Dialogue

On 10th January, RES4Africa held the session "Scaling-up private sector investment to accelerate Africa's energy transition" at the International Renewable Energy Agency (IRENA) 2020 Public-Private Dialogue together with the IRENA Coalition for Action.

The discussion addressed the barriers and hampering elements in energy markets to be removed in order to create a favourable environment for investments, to accelerate Africa's renewable energy transition, with a focus on new regulatory frameworks and financial **de-risking mechanisms**. Representatives from relevant energy and banking organisation active in the Africa field, such as Enel Green Power, the African Development Bank (AfDB), Africa Renewable Energy Initiative (AREI), the Government of Kenya participated in the discussion.

More information

INTERNATIONAL RELATIONS

Union for Mediterranean (UfM) Annual Meeting

On 29 and 30th January, RES4Africa took part in the UfM Energy Platforms Annual Meeting in Barcelona to present the 2020 RES4Med Programme. The discussion addressed the **main issues for Euro-Mediterranean Cooperation**, including multi-stakeholder dialogue, de-risking mechanisms, cross border opportunities and building capacity through training programmes, that will be the keys to develop renewable energy in the Southern-Mediterranean area.

Alliance for Rural Electrification (ARE) Call to Action

In May, RES4Africa joined the Alliance for Rural Electrification (ARE) Call to Action that highlights the role of the decentralised renewable energy sector as an essential service to fight against the worst impacts of Covid-19. *Go to Call to Action*

Global Energy Wind Council (GWEC)

RES4Africa endorsed the Global Wind Energy Council (GWEC) statement to urge governments to put wind energy at the centre of their economic recovery plans from Covid-19. *Go to Statement*

E-Africa Business Lab

From 16th to 18th June, RES4Africa has been appointed by the Italian Trade Agency to coordinate three days of the sectoral path dedicated to the energy sector within the E-Africa Business Lab. The training provided 20 Italian companies from the energy sector and interested in investment opportunities in Kenya and Mozambique with skills in order to evaluate the risks and opportunities in investing successfully in these targeted countries. RES4Africa was asked to be further involved in a one-to-one path to support companies in their internationalisation process, in order to help them build a successful commercial strategy and better position themselves.

INTERNATIONAL RELATIONS

Italy-Africa Business Week

On 9th November, RES4Africa held a session at the Italy-Africa Business Week (IABW): building on the Micro-Grid Academy experience, the session aimed at **highlighting the importance of capacity building** for the deployment of renewable energy in Africa.

The session saw the participation of BFP Group, Friem, AVSI Foundation, EACREEE and Strathmore University.



ECOWAS Sustainable Energy Forum (ESEF)

On November 24, RES4Africa joined and supported the ECOWAS Sustainable Energy Forum (ESEF 2020). The event was organized by ECREEE in partnership with the Alliance for Rural Electrification (ARE), the global decentralized renewable energy industry association, and supported by GET.invest, GIZ and the Austrian Development Cooperation.

ESEF 2020 raised awareness about the progress made by ECOWAS member states toward achieving sustainable energy targets set for 2030. It also focused on achieving the vision of the ECOWAS for a prosperous regional sustainable energy market, which is contingent upon harnessing the region's vast renewable energy potential.



INTERNATIONAL RELATIONS

Photovoltafrica

On 9th December, the renewAfrica Initiative was presented at Photovoltafrica, the **International Congress of Renewable Energies and Energy Efficiency** based in Morocco; the Initiative was presented again on 16th December on the occasion of Renpower Maghreb. The presentations marked a milestone for renewAfrica, as the Initiative was officially presented before an African and international audience. *More information*

IRENA Coalition for Action

On 7th December, as member of the Coalition for Action, RES4Africa joined the International Renewable Energy Agency (IRENA) and more than 100 leading renewable players in urging governments to re-align recovery measures with the Paris Agreement.
Building on a previous call to action, RES4Africa adhered to the Coalition for Action in urging governments to reset their priorities through six actions in order to align their economic recovery from Covid-19 with their climate plans, deliver on their commitments under the Paris Agreement, and come back stronger than ever from the Covid-19 crisis. *More information*



CodeWay 2020

On 25th November, RES4Africa was invited to hold a session at CodeWay titled "Access to Energy in Africa: the importance of capacity building in the post-Covid time": highlighting the **importance that access to clean and sustainable energy can play it building back better in the Covid recovery phase.** The session also focused on the key role played by training and capacity building, and it saw the participation of representatives of AVSI Foundation, Sapienza University, Elettrici Senza Frontiere Italia and AINA Onlus as speakers.
More information

STRATEGIC PROGRAMMES

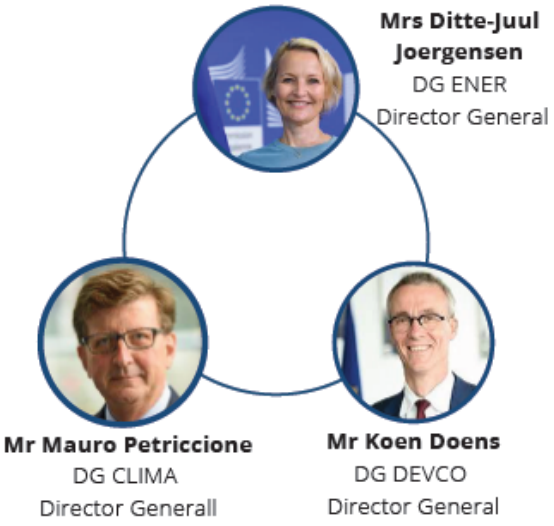
renewAfrica

Amid the unprecedented effects of Covid-19, the renewAfrica Initiative has restlessly worked to advocate for the need to support Africa's green and sustainable future through the **adoption of a comprehensive, one-stop shop approach to de-risking renewable energy investments in Africa.** During 2020, four Steering Committee meetings shaped the ambitious way forward and objectives of the Initiative. To carve the proposed comprehensive approach and delivery ready package, four priority work streams were proposed and approved during the fourth Steering Committee meeting, held on 25th February:

- Country prioritisation,
- Financial support,
- Technical assistance,
- Advocacy and outreach.

The Task Forces are working smoothly and effectively. The decisions of the SC have also enabled the renewAfrica Initiative to create momentum in Europe for its proposals while intensifying the collaboration with the European Commission and African stakeholders.

The members of the Steering Committee have promoted an innovative vision in order to deliver results for **the continuous growing of renewAfrica**, which i**n 2021 will be translated into a rich and comprehensive outreach programme in Africa**, supported by RES4Africa.



renewAfrica Meeting in Brussels

On 28th January, the renewAfrica signatories and Secretariat met in Brussels to take stock of progress made and outline the way forward. The European Commission Director Generals Mauro Petriccione (CLIMA), Koen Doens (DEVCO) and Ditte Juul Jørgensen (ENER), and the Deputy Managing Director of the EIB's European External Action Service Birgitte Markussen, also took part in the meeting.

STRATEGIC PROGRAMMES

This occasion confirmed that **renewAfrica's mission perfectly matches the ambitions of A European Green Deal and of A Stronger Europe in the World,** set out by the EU Commission. Moreover, to deliver on its stated effort to build Green Alliances abroad and use development cooperation to advance climate action, the EU will need to undertake concrete steps and measures, of which renewAfrica can be part of.

renewAfrica First Anniversary

On 4th June, renewAfrica celebrated the first anniversary of the initiative. In only twelve months, **renewAfrica has reached 26 supporting members** and gained interest among African and European actors, advancing its position at the top of the European renewable energy agenda. Throughout this year the renewAfrica Task Forces have built an advanced framework of analysis and proposals to support the vision of the initiative and allow steady progress.

renewAfrica presented to 200 international ATC participants

The seventh edition of the Advanced Training Course, launched in mid-November, offered the opportunity to present renewAfrica in a dedicated session with the participation of key stakeholders from the European Investment Bank, Cassa Depositi e Prestiti, PricewaterhouseCoopers (PwC), Intesa Sanpaolo and Enel Green Power. The webinar represented an excellent occasion to **present the details and rationale of renewAfrica to more than 200 participants from all African countries** providing the opportunity to combine training and capacity building to effective outreach in Africa.



STRATEGIC PROGRAMMES



The renewAfrica Initiative presented to EVP Timmermans

On 29th October, the renewAfrica Initiative was presented to Mr Frans Timmermans, the European Commission's Executive Vice-President for the European Green Deal. By the end of the meeting, which saw the **participation of CEOs and high-level representatives of 18 European leading companies** and organizations working in the renewable energy value chain, EVP Timmermans appreciated that the Initiative is in line with the green ambitions of the European Commission. Furthermore, he welcomed the work of renewAfrica so far as a positive contribution to the EU's Comprehensive Strategy with Africa. The meeting was followed by a more detailed dialogue with DG INTPA (International Partnership, previously "DG DEVCO), DG ENER and DG CLIMA, which confirmed that renewAfrica could be an effective tool to support EU's efforts in Africa to fight climate change and promote sustainable energy objectives.

STRATEGIC PROGRAMMES

The Missing Link

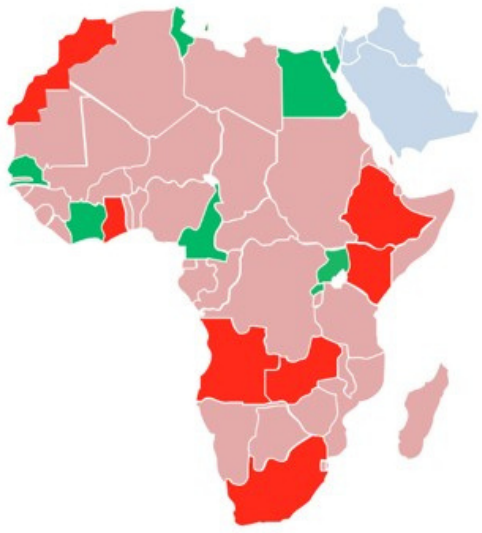
The programme, carried out by the United Nations Economic Commission for Africa (UNECA) in collaboration with RES4Africa, established **an analytical framework to investigate the ability of African countries' electricity policy and regulatory framework** in crowding-in private sector investments in generation, transmission, distribution and off-grid systems.

Taking a private sector perspective, the underlying project methodology clusters electricity sector-related policies, legislation and regulatory texts under three main dimensions: openness, attractiveness, and readiness.

The assessment results were delivered through individual country reports to support African countries to crowd-in private sector investments in their electricity infrastructures.

The trained on-the-ground energy experts gathered the data through RES4Africa's data questionnaire for the first 9 countries: Ghana, Ethiopia, Zambia, Angola, South Africa, Kenya, Rwanda, Morocco and Mauritania. With the help of over 150 participants from the national Utilities, Ministries and Regulatory Authorities of the respective countries, the data validation phase has been concluded successfully for this first batch of countries. To date, the programme has launched in 17 African countries with the aim of producing a comprehensive and accurate continental report under the mandate of the Specialised Technical Committee of the African Union.

Phase 1	Phase 2
Morocco	Tunisia
Ghana	Egypt
Ethiopia	Senegal
Kenya	Cote d'Ivore
Zambia	Cameroon
Angola	Rwanda
South Africa	Uganda



STRATEGIC PROGRAMMES

Access to Energy and Water Energy Food Nexus



In the past two years, RES4Africa developed several studies, analysing the socio-economic and financial sustainability of an integrated model based on the *Water-Energy-Food Nexus*, demonstrating that **integrated projects bring about greater development impact on local communities than sole energy provision**, and can also bring better financial performance for investors.

Investments in decentralized renewable energy solutions with a full equity structure are not yet viable. To overcome this barrier, RES4Africa started supporting the development and implementation of WEF Nexus projects to validate this model on the field. Such projects aim to redesign the entire rural electrification development process, leveraging on a partnership between an energy player and a non-energy player (e.g., agri-food or health player) to optimize costs and reach the financial viability of the project. Currently RES4Africa is supporting the development of projects in the following sectors: Energy for productive uses (e.g., agriculture); Energy for Education; and Energy for health.

Commercial and Industrial market study in South Africa

Africa's energy market is still unexplored. Commercial and Industrial (C&I) clients need **reliable and affordable power to run their business**. From the mining sector to the agri-food processing and the manufacturing facilities, industrial players are still affected by the low power quality of the national grid and paying indirect costs for their production. A combination of high energy costs and falling solar module prices is spurring sales of solar directly to commercial and industrial customers. This trend could represent a solution to quickly overcome the unsecure electricity supply status in which many Sub-Saharan countries economies are forced because of contingent liabilities of the States, as in many cases requires minor regulation adjustments. In 2020 RES4Africa started developing a **comprehensive analysis** of the commercial and industrial market in South Africa that will be published in 2021. The report analyses the commercial and industrial market segment to understand main potential sectors, players, opportunities to identify and propose available solutions to overcome barriers of the current regulatory framework and speed up investments.

REGIONAL PROGRAMMES

Mediterranean

RES4MED's activities in 2020 aimed at contributing to the **establishment of the regulatory, infrastructural and financial conditions that foster the large-scale development of renewable energy in the Southern Mediterranean area**, following three strategic pillars:

- Fostering Strategic Partnerships;
- Advancing Knowledge;
- Promote Public-Private Dialogue.

RENEWABLE ENERGY SOLUTIONS FOR THE MEDITERRANEAN

As dialogue and strategic partnerships play a fundamental role in supporting renewable energy investments RES4Med aims to be a connecting platform for all the Southern Mediterranean stakeholders and build bridges for new markets. In this direction goes the Morocco Programme under the Cooperation Agreement with the Ministry of Energy, Mines and Environment of Morocco. In addition, through the RES4MED initiative, RES4Africa signed an MoU with RCREEE and negotiated two letters of Intent with MASEN. Another essential goal of RES4Med is sharing of know-how and competences between its members and partners through specific studies.

Survey on RE investments barriers

"Mapping the Risks and Challenges to private investments in RE in the Mediterranean". This report builds on the 2016 survey and expands to include the seven countries in the Mediterranean region: Egypt, Jordan, Morocco, Tunisia, Algeria, Libya and Lebanon. The study assessed **the risk perception of public and private stakeholders** in five areas: legal and regulatory framework, revenues, construction and operational costs, financial structuring and environmental and social issues. The study revealed the differences in views between the public and private respondents and identifies common aspects concluding with a set of recommendations for each country.



REGIONAL PROGRAMMES



Study on Morocco Cross Border PPA

The study, carried out with PwC, analysed the current regulatory and market context for CB PPAs and provides a set of policy recommendations for the Moroccan energy stakeholders to address the current barriers and make CB PPAs more commercially viable and suited to market needs. In particular, the study analysed the business opportunities linked to the possibility to finalise a cross border PPA in Morocco with **particular focus on the regulatory constraints**, evaluating the actual regulatory framework for Morocco and the actions required to further exploit this untapped market.

Cross border PPA will provide more stability of the system with a consistent reduction of risks for investors, facilitating the commercial energy exchanges and increasing competition. The study also investigated how the grid can support the exchange of energy with the EU countries.

Study: "Enabling the development of decentralised routes to market for RES in Tunisia"



The study, presented in a special event organized on 27th November 2020, focused on how to accelerate the development of decentralised RES projects for self-consumption, identifying the barriers that affect the lifecycle of the project at different levels conditioning the final decision of private investors.

REGIONAL PROGRAMMES

Study: "Decarbonisation pathway for Morocco"
The study was carried out with Enel, AFRY and the Policy Centre for the New South to further support Morocco towards the pathway of decarbonisation. The aim of the study was to **assess new policies and public scenarios** e.g. mid-term targets defined by the national INDC, upgrade sector analysis performed in the past adding new technologies, provide new scenarios of commodity price projections and generation mix, performing an analysis of costs and related benefits for the de-carbonised scenario identified quantifying investment costs of different low carbon technologies, possible supportive measures and assessing social costs of emissions, as well as elaborating of a set of policy recommendations that enables the decarbonisation pathway.

To Promote Public-Private Dialogue inside the RES4Med Programme, two webinars were organized, the first one focused on the investment opportunities and challenges for RE market in Egypt ("Progress of power and renewable energy market in Egypt: investment opportunities and challenges") and the second one on the potential of RE market in Tunisia ("How to unleash the full potential of Tunisia's renewable energy market?"). See the section "Webinars and Events" for more details.

Moreover, to foster dialogue among the stakeholders, RES4Med Programme launched the "Med Platform". **The Med Platform is an online space** created by RES4Africa **for the exchange of ideas and content as well as discussions** on topics of general interest in the MENA region renewable energy field. Other than being RES4Africa Foundation projects sharing tool of on-going missions within the RES4Med Program, this platform was opened to anyone that would like to share and discuss issues, projects or initiatives that are implemented in the MENA region.

REGIONAL PROGRAMMES

Sub-Saharan Africa

B2G Meeting in Kenya

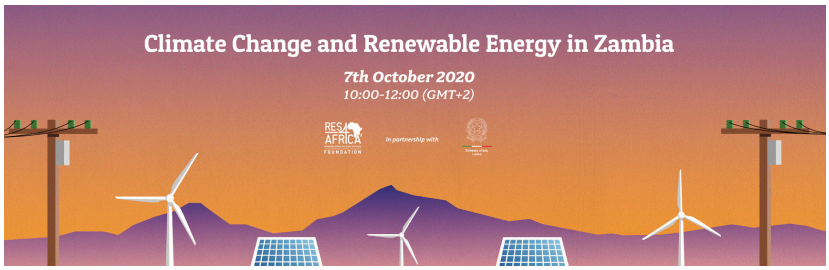
On 22nd January, on request of the Italian Embassy in Nairobi, RES4Africa held a business to government (B2G) workshop in Nairobi titled "Renewable Energy in Kenya: Unlocking Investments, Innovation and Research". The event included five **thematic sessions that aimed at exploring** a variety of topics on **new business opportunities to unlock RE potential in Kenya** through enabling regulatory and policy frameworks.



The workshop gathered 250 people from the private sector, government, international organizations, Kenyan public institutions and Italian companies to discuss lessons learned and cutting-edge innovation in the renewable energy sector. High institutional presence was represented by Alberto Pieri, Italian Ambassador in Kenya, and by Charles Keter, State Minister of Energy.

Climate Change and Renewable Energy in Zambia

On 7th October, RES4Africa and the Embassy of Italy in Lusaka held a virtual event on climate change and renewable energy in Zambia. **The webinar presented the findings on the study Integration of Variable Renewable Energy Sources in the National Electric System of Zambia**, carried out by RES4Africa and Enel Foundation in collaboration with CESI, the Ministry of Energy of Zambia, ZESCO, the Energy Regulation Board (ERB) and the Southern African Power Pool (SAPP), assessing the maximum amount of variable renewable energy capacity that could be integrated in the country's electricity grid by 2025 and 2030. The event also featured a discussion of de-risking instruments designed to enhance private investment in Zambia's renewable energy sector.



REGIONAL PROGRAMMES

South Africa Programme

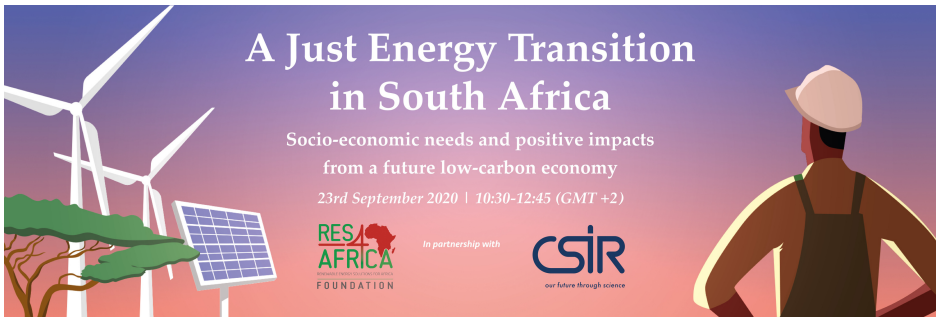
South Africa is the largest electricity market in Africa, heavily dependent on coal (providing 77% energy needs) and now facing the necessity of electricity sector reform. Understanding the impact of a reform on jobs is a key issue for ensuring an effective Just Energy Transition of the country.

RES4Africa's strategic vision for South Africa is t**o play an active role by contributing to the roadmap design for an effective and Just Energy Transition** by:

- providing independent perspective and insights, coming from its international multiple members' observatory;
- developing custom projects, inspired by local stakeholders' consultations;
- involving institutional and non-conventional actors playing critical roles in the local socio-economic dynamic.

Technical Studies and Publications

As part of the programme, RES4Africa led the following four studies:



- Just Energy Transition study – assessing job numbers and professional profiles coming from renewables, according to the IRP 2019 application;
- Decarbonisation Roadmap - Modelling decarbonisation scenarios;
- Independent Transmission Company scenario - Lesson learned from international experiences of unbundling to support divisionalisation roadmap;
- Localisation for New RES Sites - Identifying ideal RES deployment locations;
- Commercial & Industrial Market - Overcoming regulatory barriers and accelerating investments;
- Storage Solutions - Enabling storage applications through regulation.

REGIONAL PROGRAMMES

Partnership with institutions and local organizations

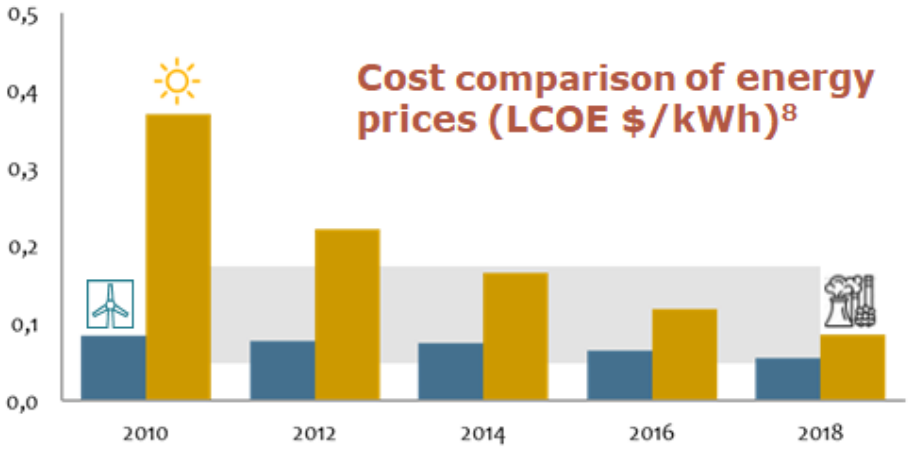
To increase awareness on the renewable energy potential in the country and promote strategic dialogue.

- **RES4Africa Foundation engaged CSIR and Nedbank to discuss a potential partnership:** they represent a network of excellence from across the European renewable energy value chain. The leading research centre based in Pretoria and the financial giant of Sandton are the first South African organisations to walk towards an official membership at RES4Africa.
- **RES4Africa Foundation established a partners' pull to launch the AM-Powering Connexions** initiative, a series of monthly virtual morning appointments addressed to the South African energy community. See p. 20 for more details.
- **RES4Africa Foundation and SAPVIA engaged in discussion to strengthen their** collaboration for Africa's energy transition, promoting sustainable energy solutions as key catalysts to empower and transform Africa. The discussion focused on strengthening the parties' engagement in information sharing, consultations, network building and implementation of common initiatives and projects for the continent's energy transition.

REGIONAL PROGRAMMES

Thematic working groups

- **South Africa Programme presented to country's main stakeholders** - on 20th July 2020, in collaboration with CSIR, RES4Africa held a closed session to present its South Africa Just Energy Transition study to the country's most relevant stakeholders and to collect their feedback on the report. The meeting, attended by about 30 participants, also provided the **opportunity to present the South Africa Programme's upcoming steps**, which include a virtual event to be held in September to officially present the outcomes of the study.



- In this occasion, a Re-skilling Lab working group has been conceptualized and has started onboarding its local contributors - aimed at **defining audience, training objectives, localization and didactics proposals** for a re-skilling, capacity building platform providing tailor made training to the "coal region" workers and communities (see following paragraph).

Training and capacity building activities

Re-skilling LAB and platform - RES4Africa, in partnership with CSIR, has been promoting the creation of a pilot re-skilling project to bring its concrete contribution to the SA employment issue through its capacity building and training know-how and by facilitating connection and dialogue between local and international stakeholders and possible contributors. It was defined as the main objective of the Re-skilling Lab to build its own basis and operative aims, by a self-determined process. This process will be developed through a working group participated by the key local stakeholders mostly and directly involved and affected by the South African employment issue.

Country Strategic Events

Based on technical studies and international strategic dialogue.

- **South Africa's Just Energy Transition webinar** shed light on the positive impacts of a future low-carbon energy sector. On 23rd September 2020, speakers from local and international agencies, governmental departments, sector organisations and private sector companies engaged in an in-depth discussion on South Africa's energy transition and how to make sure that it occurs in a just and inclusive way. The virtual event, promoted by the RES4Africa Foundation, was attended by more than 400 participants. The aim of the virtual event was to reflect on the socio-economic impacts of the energy transition, such as new jobs created, workforce relocation and communities' resilience. To support the wide conversation, RES4Africa, in collaboration with South Africa's Council for Scientific and Industrial Research (CSIR) and Environmental Resources Management (ERM), developed the study A Just Energy Transition in South Africa to assess the number of new jobs that will be created by the transition to renewables and which skills will be required, as well as to draw a reskilling framework plan.
- **AM-Powering Connexions –** A series of monthly virtual morning appointments addressed to the South African energy community to share ideas and create connections and engagement opportunities. A real discussion and an opportunity to raise points of common interest.

  First session to be held on 2021.
  - Topic: Repurposing of decommissioned coal plants;
  - Contributions from Siemens Gamesa, Siemens Energy and Eskom;
  - Over 90 participants from a wide range of local organisations (DMRE, IPP Office, NERSA, etc.);
  - Newsletter with emerged insights and suggested readings sent to all participants registered (over 140).

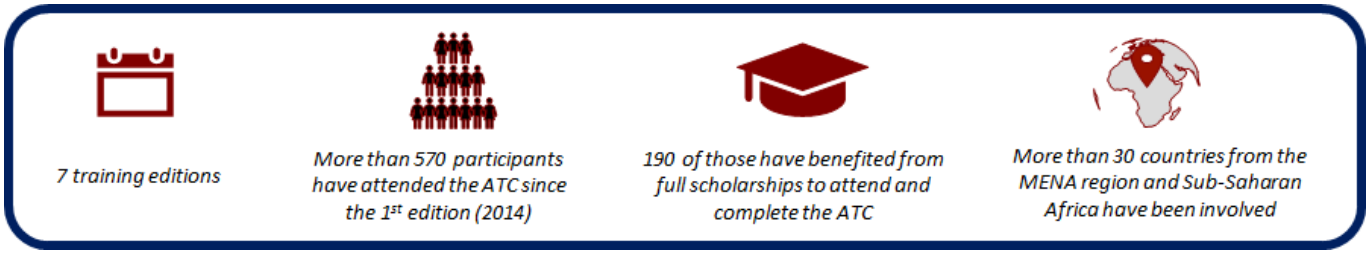
TRAINING AND CAPACITY BUILDING

Advanced Training Course

RES4Africa's yearly Advanced Training Course (ATC), which traditionally takes place for two weeks in Milan. This year, **the ATC was held online** and participants had the opportunity to attend 11 sessions between November and February; the different backgrounds of the international experts provided a wide and comprehensive overview of the most appropriate solutions for Africa's different energy contexts. The best-performing participants were given the opportunity to take part in the physical session in 2021.

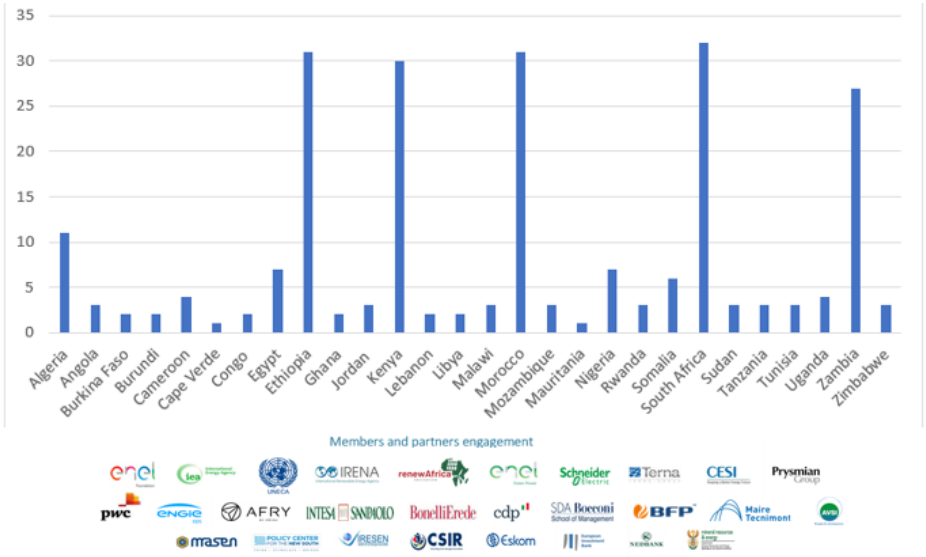
The online sessions, **open to 230 participants**, coming from 28 African countries (Algeria, Angola, Burkina Faso, Burundi, Cameroon, Cape Verde, Congo, Egypt, Ethiopia, Ghana, Jordan, Kenya, Lebanon, Libya, Malawi, Morocco, Mozambique, Mauritania, Nigeria, Rwanda, Somalia, South Africa, Sudan, Tanzania, Tunisia, Uganda, Zambia, Zimbabwe) focused on specific topics concerning renewable energy, and saw the participation of international experts with different backgrounds, to provide a wide and comprehensive overview of the most appropriate solutions for Africa's different energy contexts.

More than 700 candidates applied to participate in the ATC 2020. The number of applications was more than double compared to the previous year, proving the effectiveness of the training programme and the impressive interest of our African stakeholders to attend the ATC and in general capacity building activities.



TRAINING AND CAPACITY BUILDING

Participants to ATC per country



The course structure included several modules on the **main technical, regulatory and economic characteristics of the electricity markets**. The programme of the 7th edition of ATC has been tailored on the specific needs of the participants mixing the technical and financial lectures provided by our members such as Schneider, SDA Bocconi, CESI, Terna, Bfp, Intesa San Paolo, PWC, Neosia, EGP, AFRY, Prysmian with the support of International Organizations such as IEA, UNECA, IRENA and local public institution (Masen, Iresen, Csir, Eskom, EIB) The lessons were scheduled as follows:

November 18th: Opening: RES4Africa and Africa Energy Landscape

The webinar presented the updated Africa energy landscape highlighting the role that RE can play to boost a sustainable development and a green recovery. The session deepened on the reasons why only 2% of global RE addition in the last ten years happened in Africa and which are the regulatory barriers that are slowing down the development of the abundant renewable energy source in the Continent.

November 25th: Access to Energy

In Africa today 600 million people are still without access to electricity. COVID is worsening this situation and various scenarios are confirming that also in 2030 the number of people without access to electricity will remain around 600 million. The session discussed how national governments, international community and private sector need to act together in order to bring electricity to everybody in Africa.

TRAINING AND CAPACITY BUILDING

December 2nd: Integration of RE into the grid and coupling with storage technology

Solar and wind energy integration in national electric system has been perceived, in the last few years, as one of the major challenges for a quick and disruptive development of RE in Africa. Thanks to the expertise of our members, the session analysed how to tackle technical integration issues and how storage technology can be applied to African system operators , in order to enhance reliability of the grid.

December 9th: The Missing Link

The programme established an innovative market-driven analytical framework applied to the electricity sector in African countries. Its ultimate aim was to **expand private sector contribution and investments** in generation, transmission, distribution and off-grids to accelerate the African energy transition

December 16th: renewAfrica: Scaling up Africa RE's power;

The landscape of currently running de-risking programs is overcrowded and deemed inadequate to fulfill market requirements. There is a need for a comprehensive and inclusive toolkit based on cooperation, for end-to-end risk mitigation. The session discussed renewAfrica Initiative, that represents an EU-Africa partnership effort which aims to fill existing gaps by combining current programmes to lower risks in Africa's renewable energy investments.

January 13th: Energy Economics and Energy Management

The session provided an in-depth overview on the **economic aspects** related to the energy sector, with a particular focus on the fundamentals of power system economics, the regulations and market design in the power sector, and how to adopt optimal design for auctions.

January 20th:Bankability and Project Finance

RE is fundamental to sustain economic development and to enhance social welfare. Businesses, industries, homes, schools, hospitals, and other critical infrastructure all require electricity to function effectively. In Africa, a huge increase in power generation is needed to bridge this gap. This will require a huge amount of investments. National governments are increasingly recognizing that partnering with private sector investors is critical for satisfying this capital requirement. For this reason, the webinar discussed **bankability issues** that need to be addressed in order **to speed up public-private-partnership and enhance RE infrastructure development in Africa**.

TRAINING AND CAPACITY BUILDING

January 27th: Renewable energy transition in North Africa
Renewable energy generation and energy efficiency measures are beginning to gain ground in the North African countries where renewable energy is beginning to be seen as an important instrument to satisfy rising energy demand and stimulate socio-economic development. **This webinar focused on how the North Africa is facing to renewable energy transition** analysing the problems standing at the moment and best practices already implemented.

February 3rd:Renewable energy transition in South Africa;
South Africa is the largest electricity market in Africa - heavily dependent on coal (providing 77% of primary energy needs, 92 000 direct employees and 170 000 indirect jobs) - its demand is affected and influenced by frequent supply shortages, rising tariff, and lower energy intensity. Keeping in mind the socio-economic impact and the key role played by the coal sector is essential to make the contribution of renewables as more effective as possible in leading the country growth. **The webinar analysed the unexplored**, or not completely exploited **RE related opportunities**, as well as the framework and regulatory enablers, needed and already in place.

February 10th: Post Covid building back better: how RE transition will shape economic recovery in Africa;
Africa, like the rest of the world, has been facing the sanitary and economic consequences of the spread of Covid-19 in the recent months. The social restriction measures, essential to limit the spread of the virus, have had important economic consequences which in Africa are estimated to have brought over 5-29 million people below the poverty line. In this peculiar socio-economic context, the strategic relevance of the energy sector in guaranteeing the well-being of our cities and populations becomes even clearer. The webinar shed light on the importance to restart and strengthen African economy by placing renewable energy at the center to face the current crisis and to build back better Africa economy system.

February 17th: Circular Economy
The Circular Economy represents a shift away from the current linear take-make-waste extractive system. Products and materials are recycled, helping to conserve the environment and the planet's finite resources. During this session organised by Maire Tecnimont, **the students explored how African countries have the chance to leapfrog to a low-emission and climate-resilient development model by adopting circular economy** principles that enhance social inclusivity.

TRAINING AND CAPACITY BUILDING

Micro Grid Academy

Main programme achievements

Micro-Grid Academy Strategic Partner of "Women in DRE Sector" Webinar

RES4Africa was invited by the **Alliance for Rural Electrification (ARE)** as Strategic Partner in the webinar "Women Entrepreneurs as Key Drivers in the DRE Sector", held on Thursday 24th September 2020. Examples of challenges and lessons learnt from the MGA experience were provided, and the involvement of a Micro-Grid Academy participant added particular value to the conversation. A student of the MGA, Tracy Kimathi, took also part in the webinar to bring her own experience as MGA student and young female entrepreneur, as she created a local start-up with other young people from Kenya that she met thanks to the MGA training.



Micro-Grid Academy Young Talent of the Year Award



With the support of Enel Green Power, we launched the MGA Young Talent of the Year Award to **support brilliant young talents that with their projects and ideas** addressed the major challenges that hamper the development of African countries. This first edition of the Award sparked much interest and the MGA team received proposals from MGA alumni, young talented women and men from Benin, Cameroon, Ethiopia, Kenya, Nigeria and Uganda. Three young innovators had the opportunity to see their projects supported and promoted through the Micro-Grid Academy, and rewarded through a cash prize of 5.000 Euro. A final public ceremony has been planned at the beginning of year 2021 to announce and present the 3 winners and innovative project ideas: Eileen Phoebe Lara, from Uganda, Elly Oriko Kevin and Norah Magero from Kenya.

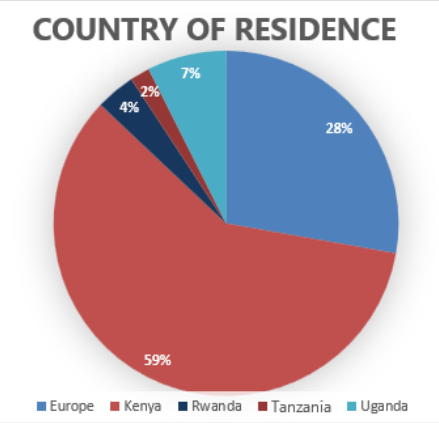
TRAINING AND CAPACITY BUILDING

RES4AFRICA
RENEWABLE ENERGY SOLUTIONS FOR AFRICA
FOUNDATION

Training Sessions

9th Edition of the Micro-Grid Academy

From 20th to 24th January 2020, RES4Africa held the 9th session of the Micro-Grid Academy in Nairobi, Kenya. The week-long training was the first module of the new MGA curriculum, developed in collaboration with Strathmore University and titled "Basic Components of Decentralized Energy Systems, Rural Community Needs and Demand Assessment". Beside in-class lessons, a field-visit to the Talek mini-grid was organised, during which the 60 participants learnt about PV systems design and module structure.





Micro-Grid Academy Edition in Mozambique

From 17th to 27th February, **the Micro-Grid Academy was held for the first time in Mozambique**, in Pemba, Mozambique, in the framework of the project ILUMINA: Access to Energy for the local development and women empowerment. This was possible thanks to the involvement of the MGA partner AVSI Foundation, the collaboration of Technical Solidarity and the financial support of AICS.

The fourth "on-tour" session of the MGA was titled "Off-grid energy system design and integration of productive uses in Mozambique" aimed at enhancing the competences of 28 local stakeholders operating in the RE field in the country, with a particular focus on a focus on local economy development and women empowerment.

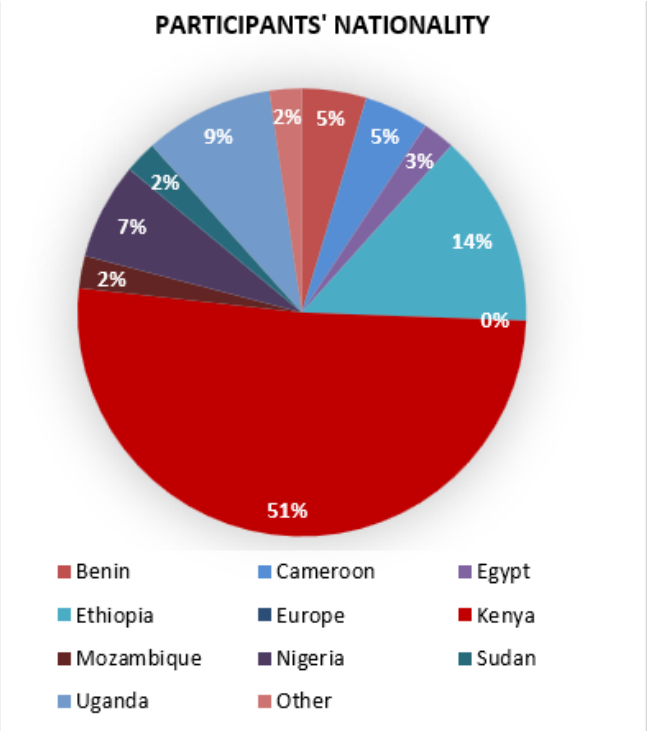
TRAINING AND CAPACITY BUILDING

Micro-Grid Academy session in DRC

On 18th-22nd May, the 11th Micro-Grid Academy session took place in DRC. The session was held in a hybrid approach (online and on-site) in collaboration with the Ministry of Energy of South Kivu, DRC, and in partnership with AVSI and EnGreen, i**n the framework of the project "Sustainable Energy Services for Rural DRC" funded by the Italian Ministry for Environment**, Land and Sea Protection **and the Congolese Ministry of Environment** and Sustainable Development. The training aimed at strengthening the capacity of about 18 people from the Ministry of Energy – Bukavu and Kinshasa offices – private sector and NGOs, and it was addressed to learn on the country's energy situation and on the project lifecycle of a mini-grid, focusing on the barriers for mini-grid development and operations management.

Renew-ABLE against Covid

Launched in March 2020, simultaneously to the outbreak of CoViD-19 pandemic, Renew-ABLE against CoViD **aimed at ensuring a reliable and affordable electricity supply service to health centres for Covid treatment in Africa. I**t consisted in an online course aimed at enabling young professionals, technicians, and students to acquire the necessary skills to make photovoltaic systems. For the occasion, working groups were set up to study and propose "clean and reliable energy" systems.

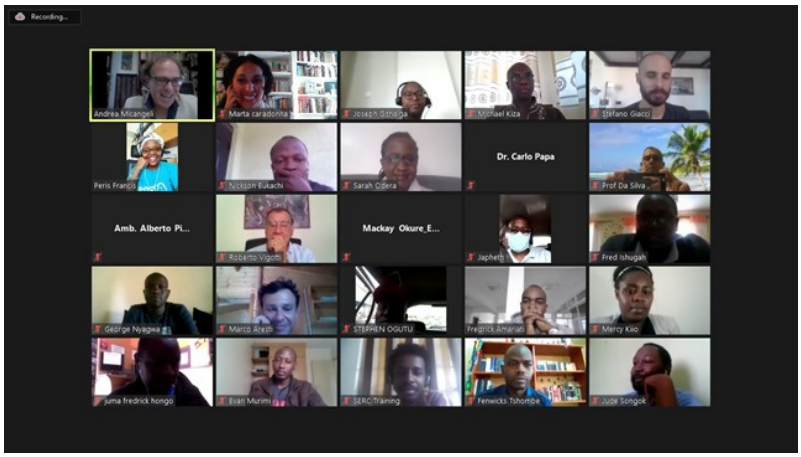


The initiative was organized by Technical Solidarity, Field Study Abroad and Sapienza University with a number of universities and entities such as National Academy of Engineering, S.Egidio Community and Elettrici Senza Frontiere – Italy.

TRAINING AND CAPACITY BUILDING

Micro-Grid Academy Training of Trainers

This training edition started on the 29th of June 2020 and was concluded on the 31st of July, with 40 hours of online lessons, divided in 16 sessions of 3 hours, 3 times per week.
The Training of Trainers was co-organized with Strathmore University and planned to guarantee quality and continuity of the Micro Grid Academy; **after 3 years of classes delivered, the new necessary step was the preparation of a Community of new Trainers** ready to provide lectures in their own Countries, based on the energy needs of their own communities.
In July 2020, about 30 future MGA trainers have been introduced to technical and economic issues related to micro-grids as well to didactic approaches (with clear examples of interactions between teachers, students, and the learning environment). In this way their teaching tasks as well as their instructional approaches will be synchronized in the future classroom.



MGA trainers have been prepared on the use of the Standard Curriculum and handbook developed; another important step was to be involved in the improvement of the Curriculum on the basis of their own culture and background; some of the participants were good technicians and teachers, and they had the opportunity to practice in the delivering key sessions to the classmates.

At the end, students were asked to collect feedback on the aforementioned materials , and enable a discussion between lecturers and future trainers. Many Res4africa' members and partners took part as experts, to share their knowledge with the participants, such as EGP, Rina, ENGREEN, FRIEM, Strathmore, Sapienza, BFP, PRYSMIAN, Schneider and PWC. The ToT closed with a ceremony which saw the participation of, among others, Alberto Pieri, Ambassador of Italy in Kenya, Carlo Papa, Managing Director of Enel Foundation, Roberto Vigotti, Secretary General of RES4Africa Foundation.

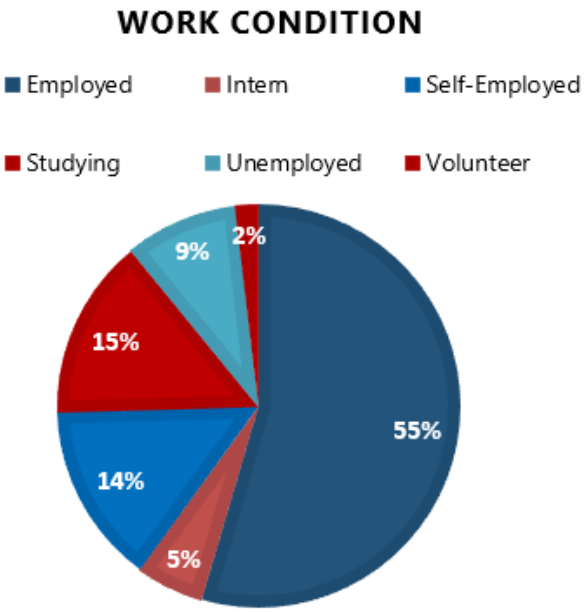
TRAINING AND CAPACITY BUILDING

Micro-Grid Academy: 14th edition



The 14th Edition of the Micro-Grid Academy, titled "Mini-grids Engineering, Components and System Design" was implemented, online, from the 30th of November 2020 to 4th of December 2020. P**articipants currently residing in Kenya were also offered the chance to carry out a practical field visit at St. Kizito VTI, in Nairobi**, on 11th of December 2020.

This training was specifically focused on solar mini-grids through the guide of the new curriculum developed in collaboration with Strathmore University. This edition of the MGA was carried out almost totally online. In order to deliver it, two main digital supports were used, namely Zoom and Moodle, which were purchased and customized beforehand.



For the first time the MGA team could use Moodle platform to enroll the participants, share didactic materials as well as address final survey and certificates. Out of more than 150 applications, 56 participants were selected; the partners involved in the training delivery were AVSI Foundation, Strathmore University, ARE, EGP, BFP, FRIEM, EACREEE, WindKinetic,, Prysmian, Open Africa Power and Adama Science & Technology University (ASTU) that contributed to the organization of the activity and to the delivery of the classes.

TRAINING AND CAPACITY BUILDING

Hybrid Power Plant construction in St. Kizito VTI (Kenya, Nairobi)

In January 2020, **RES4Africa presented a request for financial support to the Italian Agency for development and cooperation (AICS)** – local office in Nairobi, Kenya– as a contribution to co-finance the costs estimated for the construction of 30 kW hybrid mini-grid PV + storage + wind in St. Kizito VTI, Nairobi.

When installed, **the hybrid mini-grid will integrate the MGA training programme**, supporting the MGA hands-on didactic activities on high-technology standards, O&M and similar, as well as St. Kizito VTI daily training activities. It will also contribute to feed the energy demand of St. Kizito VTI centre, improving its power quality and stability and acting as back-up system to the national grid, frequently unreliable. A key component of the project was be the renovation of St. Kizito VTI existing electrical system to eliminate electrical promiscuity, improve system balance and ensure compliance with international safety standards and best practices.



COMMUNICATION: ACHIEVEMENTS AND HIGHLIGHTS

RES4Africa's communication strategy aimed at supporting and complementing the foundation's mission, work stream activities and overall strategic positioning. The communication team organized its work in **continuous communication (news based) and dedicated campaigns** (based on an ex-ante, during and ex-post strategy, and divided in light, medium and all-in campaigns).



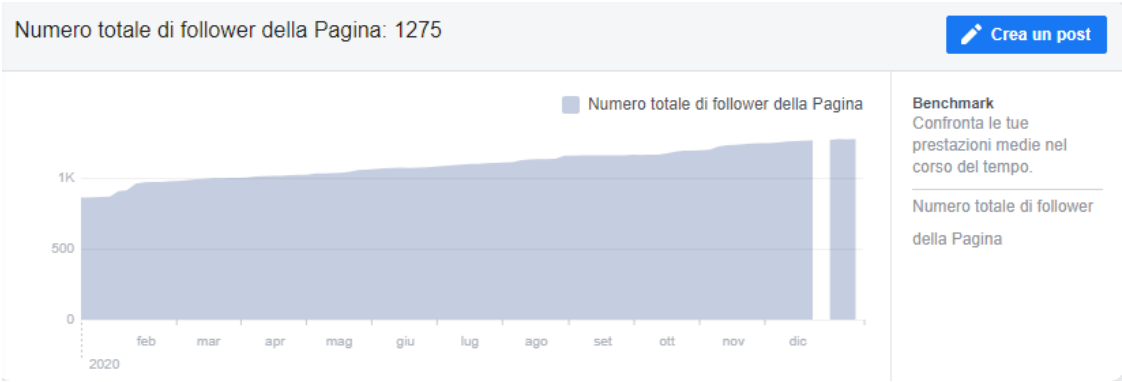
Website

Great importance was given to the Foundation's website: this year, 95 new webpages/posts were created, resulting in **91.800 visitors and 303.000 visits.**

Social media

- The communication team continued its effort for a solid positioning on social media, with a particular focus on **LinkedIn.** 200 posts for each social media platform were published, resulting in:
  - Facebook: from 800+ to 1200+ followers, 400 new followers, **50% increase**;
  - Twitter: from 1000 to 1650 followers, 650 new followers, **65% increase**;
  - LinkedIn: from 3500 to 6700+ followers, 3200+ new followers, **90% increase.**

- Some thematic social media campaigns included:
  - *RES4Covid:* to highlight how RES4Africa members responded to the pandemic with concrete actions;
  - *Flagship Publication*: including a build-up campaign counting four articles (one for each chapter);
  - *MGA 2020 Award:* with a campaign highlighting the various aspects rewarded by the Award.



COMMUNICATION: ACHIEVEMENTS AND HIGHLIGHTS

Brief and Newsletter

RES4Africa used its **monthly Brief to Stakeholders to update members and stakeholders on the Foundation's activities** and highlight potential opportunities; 11 Briefs were sent out to 850 recipients. To update its wider network, a newsletter was sent out quarterly to 4300 recipients.

Articles and editorials

As a result of the positive relationships established with different media outlets, RES4Africa on a regular basis contributed with editorials and articles; moreover, the Communication Team has been increasing its outreach efforts to new media outlets. Main highlights:

- **Collaboration with QualEnergia strengthened**, with five editorials and five articles published;
- **Periodical collaboration established with Africa e Affari** for an editorial every two months (5 total);
- *Ad-hoc* **collaboration established with Quotidiano Energia** (one article published) and Renewable Matter (two editorials published);
- **Two in-depth articles (5+8 pages) published on Nuova Energia** focusing on the findings of Connecting the Dots and of Scaling up Africa's renewable power.


frica e rinnovabili,
na fotografia
ell'ultimo decennio

LI ULTIMI DIECI ANNI IN TUTTO
ONDO SI *È REGISTRATO* UN INCREMENTO
SISTENTE DELLE NUOVE INSTALLAZIONI
IOVABILI. L'UNICO CONTINENTE
ASTO INDIETRO È QUELLO CON PIÙ
ORSE A DISPOSIZIONE E CON MAGGIORE
ESSITÀ DI SVILUPPO ENERGETICO:

L'AFRICA. UNO STUDIO DI RES4AFRICA FOUNDATION IN COLLABORAZIONE CON ENEL GREEN POWER SPIEGA PERCHÉ SOLAMENTE IL 2 PER CENTO DELLE FER INSTALLATE A LIVELLO MONDIALE VEDE PROTAGONISTA IL CONTINENTE AFRICANO.

itonella Siliotto e Luca
il / RES4Africa Foundation

'Obiettivo di Sviluppo Sosteibile numero 7 mira a garan-'accesso a servizi energetici omici, affidabili, sostenibili oderni, non lasciando nessu-adietro. Per raggiungere tale ta come una delle peggiori forme di povertà: ostacola lo sviluppo economico, compromette le condizioni igienico-sanitarie e limita i mezzi a disposizione per migliorare le proprie condizioni di vita. Garantire l'accesso all'energia pulita significa permettere uno sviluppo pieno dell'economia e della società.

Cinque anni dopo l'adozione de- tima decade ha vissuto il minore sviluppo nel settore delle FER a livello mondiale. Se, infatti, il continente africano registra solo il 2 per cento delle rinnovabili installate globalmente dal 2009, le altre Regioni vantano dati decisamente più positivi e promettenti: Europa 22 per cento, Nord America 11 per cento, America Latina 6 per cento,


Africa's Energy Cyber-Revolution: Going Green Means Going Digital

Published on March 30, 2021

Roberto Vigotti
Secretary General RES4Africa Foundation

15 articles

Digitalisation is a theme that, at RES4Africa, we have particularly at heart: we it **in several occasions** and we are about to launch a series of **dedicated webin** impact of digitalisation is potentially endless, as it can regard pretty much all th value chain, from reduced costs during the generation process to more efficient and consumption. But it is important to understand that there is a whole univers remarkable multiplier effect gravitating around the concept of digitalisation: it knowledge and human capacities, inspire new integrated business models, ensu increased safety of the personnel.

But why so much emphasis on such a wide concept while the vision and the mi RES4Africa is very specific and inextricably connected to the renewable energy

COMMUNICATION: ACHIEVEMENTS AND HIGHLIGHTS

Secretary General positioning

To position RES4Africa's Secretary General as a reliable and authoritative voice in the RE field, 9 editorials were published on his LinkedIn account, ten on print media outlets and two on online ones.

Press releases

To highlight the main Foundation activities, 17 press releases were issued. Of these, 10 were produced jointly with members and international partners in order to maximise visibility.

Events and webinars

The Communication Team supported the organisation of events by promoting the event, managing the invitation process, assisting with the logistics, and so on. The events consisted of:

- Two physical events;
- One mixed-format event;
- Six webinars (three strategic, three country-focused).

A focus on renewAfrica

A particular attention was given to the renewAfrica initiative:

- **New video:** to confirm its commitment to scaling up renewable energy investments in Africa, RES4Africa produced the renewAfrica Initiative's video;
- **Joint campaign for video release:** the joint communication campaign involved RES4Africa members and renewAfrica partners, and as a result the video was shared by about 10 organisations and 20 individuals during the campaign day;
- **Meeting with EVP Timmermans**: to support the meeting with EVP Timmermans from a communications point of view, the press release was issued jointly with RES4Africa Members and renewAfrica Partners; the press release included high-level statements by EVP Frans Timmermans (European Commission), Vera Songwe (UNECA), Ambroise Fayolle (European Investment Bank) and Francesco Starace (SEforALL/Enel).

WEBINARS AND EVENTS

Virtual Event on WEF Nexus with UNEP

The United Nations Environment Programme (UNEP), in collaboration with RES4Africa Foundation, organised a **series of webinar trainings on the Water-Energy-Food (WEF) Nexus**. The first training was conducted by RES4Africa on 26th March and focused on the contribution of renewable energy; in particular, the findings of "RE-thinking Access to Energy Business Models" were presented. The training was followed by more than 200 participants and was positively received.

Virtual Event: "The impact of Covid-19 on Africa's energy sector"

On 24th June, RES4Africa held "The impact of Covid-19 on Africa's energy sector", the first of a series of **strategic webinars** that looked at **the impact of the pandemic on Africa economies** and to the **fundamental role of renewables in the recovery.** The online event, followed by more than 300 participants, also aimed at presenting the homonymous study carried out by RES4Africa and the United Nations Economic Commission for Africa (UNECA) in collaboration with SDA Bocconi. The conversation saw the participation of local and international experts from Enel Green Power, Ethiopian Women in Energy (EWiEn), the International Energy Agency (IEA), the International Renewable Energy Agency (IRENA), SDA Bocconi and UNECA.

Virtual Event: "Why did only 2% of RE addition in the last decade occur in Africa?"

On 8th July, the second strategic webinar of the series looked at presenting the findings of "Connecting the dots. Why only 2% of global RE in Africa?" developed by RES4Africa Foundation in collaboration with Enel Green Power to analyse **why, in the past ten years, only 2% of the renewable energy installed worldwide saw Africa as its protagonist**. The virtual event, followed by 250 people, saw the participation of speakers from Enel Green Power, Siemens Gamesa and Nedbank.

WEBINARS AND EVENTS



Virtual Event: Scaling-up renewable energy investments in Africa

On 15th July, the cycle of strategic webinars closed with "Scaling-up renewable energy investments in Africa", aimed at **discussing ways of removing the barriers that prevent the scale-up of private investments in Africa's renewable energy markets** and potential solutions to unlock Africa's renewable potential, finally making the case for renewAfrica. The virtual event also offered the opportunity to present RES4Africa's 2020 Flagship Publication "Scaling up Africa's renewable power", developed in collaboration with Enel Foundation and focused on the same topics of the webinar. Followed by 350 attendees, the conversation saw the participation of, among others, Francesco Starace (Enel), Vera Songwe (UNECA) and Francesco La Camera (IRENA), of representatives of the Ministry of Energy of Zambia, the European Commission's DG DEVCO and DG ENER, and of private sector companies such s Enel Green Power, Schneider Electric, Siemens Gamesa, Intesa Sanpaolo and Nedbank.

Virtual Event: "A Just Energy Transition in South Africa"

On 23rd September, RES4Africa held the virtual event "A Just Energy Transition in South Africa" to **explore the main socio-economic impacts that the transition towards clean energy systems will bring**. The webinar, attended by 400 participants, saw representatives of South Africa's Department of Environmental Affairs, Eskom, IRENA, CSIR, Sapvia, Sawea and other international experts addressing topics such as new jobs created, workforce relocation, communities' resilience, and so on, also providing examples from countries where the transition to a low-carbon energy system has already occurred. The event also provided the opportunity to present the findings of the study A Just Energy Transition in South Africa: Socio-economic needs and the positive impacts of a future low-carbon economy, developed by RES4Africa in collaboration with CSIR and ERM.

WEBINARS AND EVENTS

Virtual event: "Climate Change and Renewable Energy in Zambia"

On 7th October, RES4Africa presented the study Integration of Variable Renewable Energy Sources in the National Electric System of Zambia during an online event organised in collaboration with the Embassy of Italy in Lusaka. **The webinar,** attended by more than 300 international attendees and focused on climate change and renewable energy in the country, saw the participation of representatives of the Zambian Ministries of Energy and of the National Development and Planning, of the Italian Ministry of Environment, Land & Sea, of the European Union Ambassador to Zambia; a video message was also sent by the Vice Minister of Foreign Affairs and International Cooperation of Italy.

Virtual Event: "Progress of power and renewable energy market in Egypt: investment opportunities and challenges"

On 5th November, RES4Africa Foundation held the webinar Progress of power and renewable energy market in Egypt. The online event, attended by 150 people, aimed at presenting the **current renewable energy situation in Egypt** gathering the international private sector, the international companies and relevant Egyptian stakeholders to identify priorities to foster renewable energy development. The webinar saw the participation of MEDREG, NEREA, Bonelli Erede, EETC and Schneider Electric.

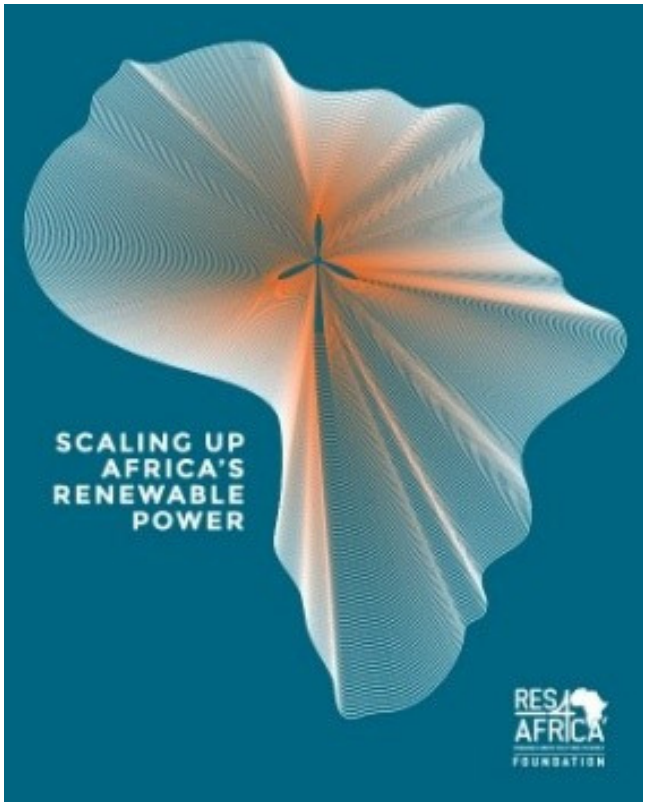
Virtual event: "How to unleash the full potential of Tunisia's renewable energy market?"

On 27th November, RES4Africa Foundation held the webinar How to unleash the full potential of Tunisia's renewable energy market?: attended by 115 people, the event provided useful information for investing in RE, giving a view of the context, regulatory schemes applicable to projects as well as **how Tunisia could attract international financier**s and equity investors that could help it to meet its ambitious renewable energy targets. The event saw the participation of representatives of Tunisia's Ministry of Industry, Energy and Mines, of the European Bank for Reconstruction and Development (EBRD) and of AFRY.

PUBLICATIONS AND THOUGHT LEADERSHIP

2020 Flagship Publication

The 3rd edition of the Flagship Publication, realised by RES4Africa with the support of Enel Foundation and the contribution of many external contributors, is coming together and will be released at the end of June. This edition is dedicated to de-risking renewable energy investments in Africa, and will make the case for the renewAfrica Initiative. The main themes of the publication will be presented during the 15th July webinar.
As a build-up campaign, we've published two teaser articles focusing on the content of Chapter 1 and Chapter 2: find them below.



PUBLICATIONS AND THOUGHT LEADERSHIP



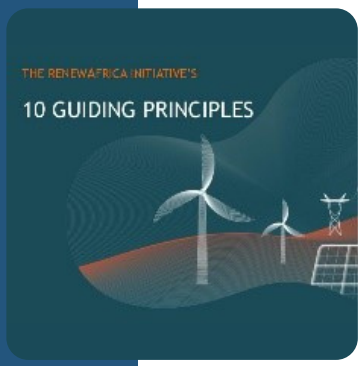
renewAfrica Initiative Presentation Card

renewAfrica advocates for the creation of a European comprehensive Programme for renewable energy investments in Africa to be promoted and owned by EU institutions. By standardising and improving the existing instruments and programmes, the new EU programme would reduce fragmentation and help creating a powerful instrument able to maximize the impact of European funds currently already dedicated to supporting renewables in Africa. The comprehensive approach of renewAfrica – to include policy dialogue, capacity building, technical assistance and financing – will allow the Programme to stimulate the creation of a pipeline of bankable projects at a scale that single instruments have not been able to do so far.

The 10 Guiding Principles of renewAfrica

To tell the story of renewAfrica, its vision and how it aims to get there, the renewAfrica Secretariat released its "10 Guiding Principles". The document is intended as a sequel to renewAfrica's Presentation Card, and is the result of the work of the members and contributors of renewAfrica Task Forces.

The Guiding Principles are rich with facts and figures that support the Initiative's mission and provide a hands-on insight on its proposal to both European industry and policymakers.



PUBLICATIONS AND THOUGHT LEADERSHIP



The impact of Covid-19 on Africa's energy sector

This joint study between RES4Africa and UNECA, developed with in partnership with SDA Bocconi and the support of the Southern African Power Pool (SAPP) and Ethiopian Women in Energy (EWiEn), was presented on 24th June to an audience of over 300 people. The study highlights that the deployment of renewables-based solutions can be a pivotal contribution to Africa's post-Covid recovery and to improving the quality of life of millions of people, even long after the end of the pandemic. African leaders and policy makers face a historical opportunity to coordinate their recovery initiatives in response to the pandemic in order to increase their efforts in achieving the Sustainable Development Goal 7: this implies building more robust and efficient energy infrastructure systems as well as implementing decentralised energy solutions using renewable energy sources.

Connecting the dots. Why only 2% of global RE in Africa?

5 years after the adoption of the SDGs and with just 10 years ahead to achieve the Agenda's objectives, RES4Africa Foundation in collaboration with Enel Green Power developed a strategic analysis to look at what happened in the last 10 years in Africa. The publication "Connecting the dots. Why only 2% of global RE in Africa?", presented through a dedicated webinar in July 2020, highlights main gaps, best practices and lessons learned to achieve access to affordable, reliable, sustainable energy for all. The publication is structured in three sections:



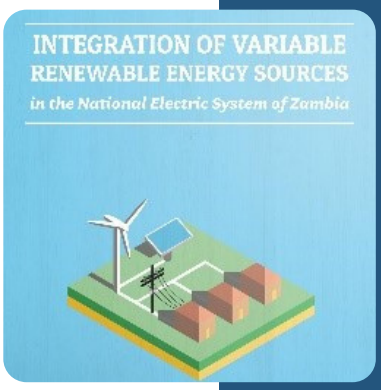
- "What happened in the last 10 years" analyses, among others, population and GDP growth, installed capacity, energy and electricity demand, LCOE and investments trends in the last 10 years.
- "What limited the renewable energy growth" analyses political commitment, objectives and targets achievement, grid and electrical system development, productive uses of energy, regulatory framework and investment risks.
- "The time to act is now" presents the key recommendations to overcoming highlighted challenges, fostering renewable energy investments, and meeting continent and countries' needs.

PUBLICATIONS AND THOUGHT LEADERSHIP

A Just energy transition in South Africa

The study A Just Energy Transition in South Africa, developed in collaboration with CSIR and ERM, assesses the changes necessary in employment and workers' skills in line with the shift to renewables, as well as lessons learned from other countries transitioning away from coal. The first section of the study evaluates the number of jobs generated by renewables under the IRP 2019 deployment schedule and the skills which will be required as a consequence, providing a framework for the re-skilling of coal sector workers. The second section analyses the low-carbon transitions of five countries across three continents, identifying their successes and how they can inform South Africa's unique transition.





Integration of variable renewable energy sources in the National electric system in Zambia

Thanks to its outstanding renewable potential, Zambia can improve its energy diversification and strengthen the resilience of its power system to cope with current and future water challenges related to climate change by integrating variable renewable energy sources (VRES) into its energy system. This is the outcome of the study Integration of Variable Renewable Energy Sources in the National Electric System of Zambia, carried out by RES4Africa Foundation and Enel Foundation in collaboration with CESI, the Ministry of Energy of Zambia, ZESCO, the Energy Regulation Board (ERB), and the Southern African Pool (SAPP).

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The time to act is now:
in Africa, with Africa, for Africa