2022

Annual Report



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MESSAGE FROM THE PRESIDENT



Salvatore Bernabei
CEO of Enel Green Power
President of RES4Africa Foundation

2022 has been a delicate year: the threatening consequences of the current energy crisis have been under a constant spotlight and we saw first-hand how the supply of safe, reliable, and cheap energy cannot be taken for granted. This is true for every corner of the Earth, but even more for Africa: a continent of incredible strength, natural endowments, and human wealth, which is paying an unacceptable price, imposed by years and years of short-sightedness in building appropriate energy systems.

Hence, mobilizing efforts and resources to reverse the trend is no longer an option: the lack of access to sustainable and reliable electricity suffered by 600 million Africans is causing a full-fledged deprivation of multiple fundamental rights, and this is simply not acceptable. Our challenge – and also our way to act - is not only to widen Africa's availability of energy sources, but to do so in a fully sustainable, just and inclusive way.

It is in this direction that RES4Africa has been working since its first day, and 2022 was not an exception. During the year we had: 21 live and digital events, 25 specialised publications and more than 800 people trained from over 35 countries; but also new partnerships, membres, and countries (Senegal, Côte d'Ivoire, etc.) engaged through specific outreach initiatives. These numbers provide a sketch of the endeavors RES4Africa has undertaken to promote dialogue, awareness, and policymaking about the continent's energy transition. It is, however, impossible to convey the human passion and efforts put in place by its staff. Hopefully, this Annual Report will give you a taste of it and will inspire you to renew our common vow: a rock-solid commitment to Africa's sustainable energy transition.

2022 HIGHLIGHTS

Policy & Advocacy Support

11
New Publications

16
Country Reports

6
New members of Executive Committee

Market Intelligence & Development

14
Events

7
Webinars

2
COP27 Events

Governance

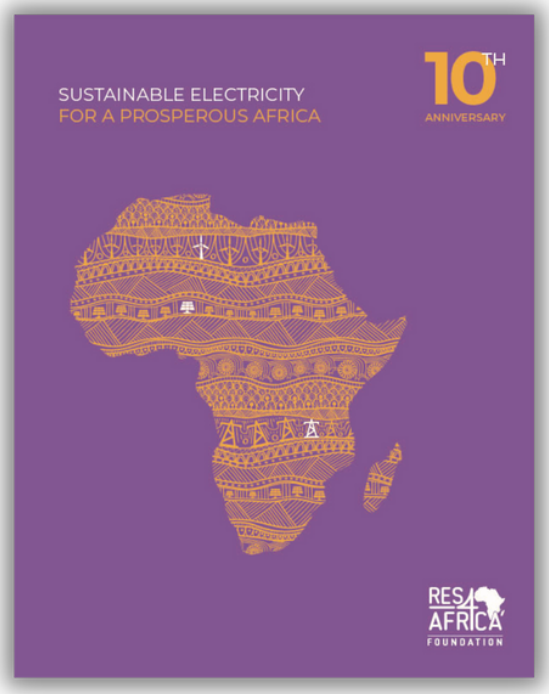
4
Executive Committee meetings

2
General Assembly meetings

1
New member

RES4AFRICA'S 10TH ANNIVERSARY

Setting Priorities for Africa's Sustainable Energy Transition



On the 24th of May 2023, RES4Africa Foundation celebrated its 10th anniversary, a milestone representing a decade of effort at the service of Africa's energy transition. The gathering received over 140 participants, more than 1,000 attendees online and 30 speakers from across the globe.

On the special occasion of this High-Level Event, RES4Africa released its 5th Flagship Publication Sustainable Electricity for a Prosperous Africa, developed in collaboration with Enel Foundation, which gathers insights on a decade of engagement and action towards a brighter and greener future for Africa.









R4A POSITIONING



RES4AFRICA FOUNDATION

MILESTONES

The year 2022 has ended with some of the best results ever reached, after 10 years of incredible success stories and lessons learned. This Annual Report outlines the concrete progress the Foundation made over the year in a variety of fields, from membership to governance, and demonstrates how the organization continues to grow in an evermore changing and challenging world.

RES4Africa Foundation this Year has reached the necessary maturity to consolidate and reinforce its governance structure and the membership engaging instruments, as well as to introduce a new model and new policies for risks management. A well-established governance management and a clear membership enlargement plan was much beneficial to the entire organization, particularly in terms of work efficiency, transparency and liability. Such efforts increased reliability and trust from our members and improved the strategic positioning of RES4Africa with international partners.

It has been a year of first times

First of all, between January and March, a new high-level Working Group has been set for the first time for implementing a focused and circumstantial Membership Enlargement Plan to be pursued through specific criteria and aimed at welcoming new African and European members and partners able to complete the competence still missing in the Foundation base. The Membership Plan has identified a number of companies/organisations to be involved in the Foundation. The Secretariat decided to repeat and review the exercise every year in order to keep reorienting towards new and sustainable ways to grow.

As to Governance Structure, RES4Africa Foundation launched two new consultative bodies:

Governance, Membership and Strategy

International Advisory Board

The framework of the Foundation's 10 years anniversary has been an excellent opportunity to look back at our track record since 2012 and at the Foundation's growing partnerships, which enabled a privileged dialogue with institutional, international, development and financial stakeholders and to re-imagine the strategic future of RES4Africa. In this context, the Foundation created the first RES4Africa International Advisory Board, gathering a group of independent voices and energy leaders, widely recognized as experts in their respective fields and instrumental in shaping future developments in Africa's energy sector. The members provide their strategic advice and insights on the defining challenges and opportunities to advance Africa's energy transition and scale up renewable energy investments across the continent. A strong and internationally recognized Advisory Board is key to defining innovative, forward-looking strategies, supporting the Foundation in promoting its international engagement and pursuing its mission of creating an enabling environment for renewable energy investments.

During the year's meetings, the members of the Advisory Board have discussed, under Chatham House rules, their perspectives on the current and future landscape of Africa's renewable energy, suggesting areas requiring urgent intervention, and assessing RES4Africa's potential impact and potential risks hampering its work. Finally, they synthesised the most significant lessons learnt during the past decade of Africa's energy transition, providing suggestions for creating effective partnerships, and identifying RES4Africa's potential role in them.

Youth Task Force

The outcomes of the pre-Cop Youth side events in 2021 represented a turning point in the Foundation strategy toward Youth inclusion. In that framework, a clear need emerged for an open task force to foster dialogue and tackle some key areas of intervention that will contribute to youth empowerment.

Therefore, RES4Africa decided to create the Youth Task Force to activate an extended network of both local and regional partners of youth organisations to advocate and implement activities in the countries and regions where it operates and aims to involve the voice of youth in this network as well as its present initiatives.

The YTF operates to achieve the following goals:

- Act as a platform for young networks to propose and discuss priority areas of action, what are the barriers to RES, and what are the topics most relevant to them.
- Establish a fruitful dialogue and a relationship of trust between a pool of youth and RES4Africa, in the interest of nourishing future projects and ongoing activities.
- Create methodologies for the inclusion of their perceptions on specific issues in order to identify new synergies on youth-related aspects within the initiatives and programmes of RES4Africa.
- Support the exchange of best practices, knowledge transfer and the creation of sustainable networks and institutional and international partnerships.
- Stimulate cooperation within the youth sector and among sectors and fields of expertise wherever youth work takes place in order to reinforce ties and contribute to advocacy and youth awareness actions.

The Task Force met approximately every two months. It is worth mentioning a plenary meeting in presence, back-to-back with the conference "Youth Empowerment for Driving African Energy Transition", held by the Foundation in Milan, in June 2022 and the participation of the YTF at the African Climate Week in Gabon in September 2022, organised by UNFCCC in the road to COP27.

Also in the Executive Committee, the high-level management board of the Foundation endowed with full power to take any action deemed appropriate to implement RES4Africa's official aims, the 2022 Year saw new members replacing previous figures from the same companies.

To this day, RES4Africa's Executive Committee is composed of 11 representatives from RES4Africa's member entities: Enel Green Power, PwC, Siemens Gamesa, Schneider Electric, EDP Renewables, Intesa San Paolo, Terna, CESI Spa, Prysmian Group, and Vestas.

Strategy, Governance & Institutional Relations

Finally, in terms of compliance rules, for the first time, in 2022 the Foundation adopted new guidelines and rules with the aim of reinforcing the transparency, correctness and fairness of the Foundation, both towards its members, and externally. In particular, RES4Africa has adopted a "231 Organization Model", a management model to prevent offences that have occurred. The Model of RES4Africa is in line with Italian and international law and guidelines. Moreover, the Foundation management decided to deliver an Anti-Trust Model, being RES4Africa an organisation that considers the principles of free competition on the markets to be of fundamental importance and recognizes them as founding values of the culture and business of the organisation. In this perspective, the Foundation's objective is to prevent and combat any conduct that, in any form, may violate competition law. Finally, RES4Africa adopted a zero-tolerance approach - through Anti-Corruption Guidelines - against any corruptive conduct and undertakes to act with the utmost professionalism, correctness and integrity in any activity and relationship contractual or otherwise.

TEAM



Silvia D'Ovidio
Head of Strategy, Governance & Institutional Relations



Maria Caterina Mattiolo
Strategy, Governance & Membership Officer

International Partnerships

10
Engagement missions

14
Active International outreach

11
New partner engagement

1
Institutional flagship report

9
Flagship report dissemination

Summary of international relations and partnerships for R4A in 2022

RES4Africa has always prioritised the development of a partnerships network composed of bilateral and multilateral partners. While strong efforts were made to maintain these during the Covid-19 lockdowns, the return to travel from the pandemic in late spring 2022 the Foundation set a strategic focus to reinvigorate and rekindle bilateral ties, as well as pursue new multilateral partnerships. It enabled the Foundation to get back in touch with key partners, understand core country's new energy realities, and adapt working programmes accordingly to provide added value for the years to come – all based on a reviewed contextual narrative and mission pursuit.

For core countries, it meant a prioritisation of our bilateral partnerships based on 2022 and 2023's country focus. From May 2022, partner missions resumed to Egypt, Morocco, Tunisia, South Africa, and Kenya. It also included the exploration of new country-focus' partners in West Africa, namely Senegal, Ghana, and Cote d'Ivoire.

International Partnerships

The strategy for 2022 has been to focus on rekindling these relationships, understanding how their context has evolved since the last missions in 2019, and adapting our activity and work programmes accordingly. All missions were met with strong enthusiasm and direct requests for support by R4A that were subsequently developed for Q3-Q4 2022 and 2023.

It allowed us to kickstart our network, identify new focal points, and return to these partner countries with adapted tailor-made programmes in analysis, advocacy and training.
On the multilateral side, 2022 saw both existing and new institutional partnerships' consolidation and exploration. Two highlights stand out: First, the key programme-based partnership with UNECA was consolidated over the delivery of the Missing Link programme deliverables and initiated intended collaboration on a joint launch conference and multi-year work horizon.

Secondly, R4A's collaboration with the EC DG INTPA continued over renewAfrica and other long-term collaboration, marked by a high-level encounter in Brussels between R4A President Mr. Bernabei and Koen Doens, Director for Cooperation at DG INTPA in March 2022. Last year also saw the exploration of a new partnership pipeline. R4A Secretary General met with SEforALL CEO Ms. Damilola Ogunbiyi to define areas of potential collaboration between both institutions on energy access, de-risking investment, and capacity building. R4A sought collaboration through initiating conversations with Rockfeller Foundation and GEAPP but also with IFI's, such as European Investment Bank (EIB), International Finance Corporation (IFC) and African Development Bank (AfDB). A sponsorship agreement in 2021 with EIB saw a repeat and enhancement for 2022, expected to continue in 2023. A new region and partner collaboration unfolded when R4A was invited to join a tripartite co-led training programme for the Sahel region with AfDB, MASEN and the Desert-to-Power programme. A conversation was also initiated with UNDP Rome Center on climate action and energy in Rome, to explore strategic partnerships.

Other areas of internationalisation helped R4A gain traction as well. On the sidelines of the 10-year anniversary event, R4A called into being its international Advisory Board (AB). The IAB was called into being with the 8 founding representatives. A first in-person and second online consultation meeting took place in 2022, to inform the R4A Secretariat on strategic discussion points regarding Africa's clean energy development pathways – a counselling body that is set to inform all R4A's strategic work going forward. Moreover, R4A saw its first-ever presence at the UN Climate Conference.

International Partnerships

A R4A delegation travelled to Sharm El Sheikh and took part at COP27, which was hosted by Egypt and set to be an African COP, thanks to the strong collaboration with partners by holding several side events in partners platforms (RCREEE, EIB,...) on key R4A work topics (Water-energy-food nexus, Young Talent of the Year Awards, Youth Task Force, etc.), as well as multiple side meetings.

Other select participation (online and in-person) by R4A included the IRENA General Assembly 2022 (January 2022, online), the EU-AU Business Forum (February 2022, online), the Africa Energy Forum in Brussels (June 2022), a UN-DESA SDG 7 conference (June 2022, online), Power-to-X Summit in Marrakech (June, 2022), MEDREG technical workshops (October 2022, online) and many others. Moreover, existing participation continued as Bureau Member of REN21 and a key member of the IRENA's Business & Investors group, where a joint analysis was developed on West-Africa's RE market potential.

These international missions and conference agendas allowed R4A not only to showcase RES4Africa's existing training, advocacy and analytical track record and recommendations, but also to manifest new working areas such as the Green Hydrogen working group and the Youth Task Force and Gender Programme. Moreover, a presence in South Africa, as well as Brussels, allows easy participation in EU meetings and encounters as well. These reinvigorated relationships, return to the international policy scene, and pursuit of new partnerships have already paved the way towards enhanced partners, recognition and engagement of R4A in 2023.

TEAM



Ana Rovzar

Head of Partnerships

Communication & Events

In the just energy transition process, communication plays a crucial role: changes towards sustainable development goals must be supported and even driven by a structured and effective advocacy, needed not only to amplify the message, but also to incrementally build social consensus around new ideas and models. In order to enhance its role as change-maker and contribute to the path towards universal access to energy in Africa, in 2022 RES4Africa conducted communication and advocacy activities pursuing three main goals:

1. INFORM in a timely, complete and engaging way about RES4Africa's activities, improving its online presence;

2. ENHANCE RES4Africa's contents and the expertise of its network, improving the engagement and collaborations with members and partners;

3. STRENGTHEN information on RES4Africa's work streams: youth, green hydrogen, and the various products and deliverables of the Foundation.

MEMBERS' ENGAGEMENT AND MEDIA PRESENCE

2022 saw a greater positioning by RES4Africa on the most compelling issues of the renewable energy sector through the voice of its members and presence in the international press.

Guest Editorials

Published on a monthly basis, the Guest Editorials are reflections signed by one of our associates or partners on topics of particular relevance in the energy sector. 2022 saw 10 publications signed by:

Media Partnerships

With the aim of enhancing our content, every month RES4Afria wrote opinion pieces and articles for international magazines and newsletters dedicated to the African continent and/or the international energy sector, continuously informing the press about its activities through press releases and notes. In 2022, the Foundation published 12 articles, 22 press releases, and 35 editorials and was mentioned by the media 379 times.

CAMPAIGNS

During 2022, we developed several ad-hoc communications campaigns, aiming at spreading awareness about specific topics and work streams through different tools and channels such as articles, online publications, social media content, videos and interviews.

CONNECTING THE DOTS - STORYTELLING

An initiative aimed at conveying on monthly basis complex issues with a simple, communicative and informative approach on RES4Africa channels through videos, infographics, editorials and media activities. The chapters included video interviews of our members and partners based on their area of expertise with a focus on Climate Change, from the negative impacts and vulnerability of the African Continent to the RES as a means to tackle climate change adaptation and mitigation.

RES4YOUTH

A communication campaign aiming at enhancing the experience of young people who have to do with our Foundation. In 2022, we published 9 stories (on the website, social network and newsletter), telling the stories of young African professionals , explaining their projects, their experience with RES4Africa, their vision for the energy sector etc.

CONTINUE DIVULGATION SOCIAL MEDIA CAMPAIGN

RES4Africa launched continued social-media campaigns aiming at valorising our expertise through the communication of information and data taken from our studies on different topics, thanks to infographics developed in a specific format.

10 YEARS SPECIAL PUBLICATION – AFRICA&AFFARI

RES4Africa worked together with the staff of the Africa&Affari magazine on the special issue dedicated to the 10th Anniversary of the Foundation. The publication was an opportunity to celebrate RES4africa's activities and achievements, as well as for in-depth analysis and reflections on compelling issues in the energy sector.

CIRCULAR ECONOMY CAMPAIGN

RES4africa launched a communication campaign dedicated to the circular economy, and how it can be a cornerstone for Africa's sustainable development, boosting local development towards a sustainable future.

ONLINE TOOLS

Digital tools have enabled direct dialogue with audiences worldwide who use online platforms as a way not only to access information but also to engage on relevant issues.

Website

A user-friendly website, where all the contents are available and free: this identifies the Foundation as an open hub, which facilitates the sharing of information among stakeholders; +409 000 visits.



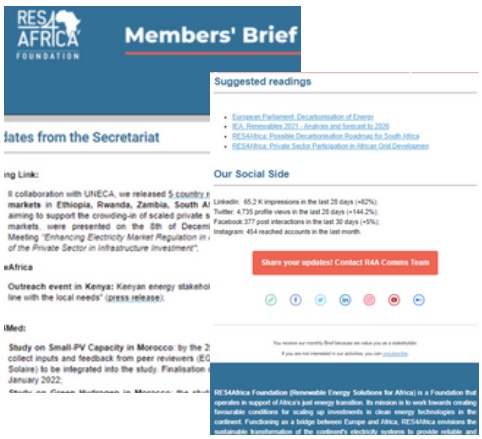


Newsletter

A monthly communication to the network that in 2022 reached +13 000 subscribers..

Members' Brief

A new bi-weekly communication to improve the collaboration with the members.



Communication & Events

Social Media

2,681	561	16,683	13,566	2,475
+ 642 from 2021	+ 198 from 2021	+5,310 from 2021	+3,172 from 2021	+391 from 2021

Four active online platforms

Dedicated to South Africa, Sub-Saharan Africa, Micro-Grid Academy and Med Region.

EVENTS

2022 saw the return of key institutional and programmatic events at RES4Africa. Despite starting the year with severe travel restrictions in place up until late spring 2022, the Foundation organized and hosted more than 20 events in 2022, 14 of which took place in-person and 7 online. In total, RES4africa gathered more than 3500 participants and attendees to both online and in-person meetings, with a majority from African countries. In particular these meetings marked the return of RES4africa teams to core countries such as Morocco, Egypt, Kenya and South Africa, following a 2-year travel break.



Communication & Events

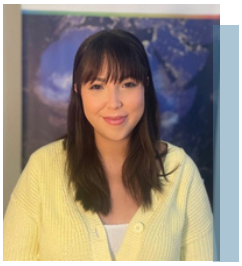
TEAM



Antonella Siliotto
Communications Manager



Stefano Giacci
Communications Officer



Adriana Rosario
Communications Assistant



Assia Bellaroto
Events Manager

Administration

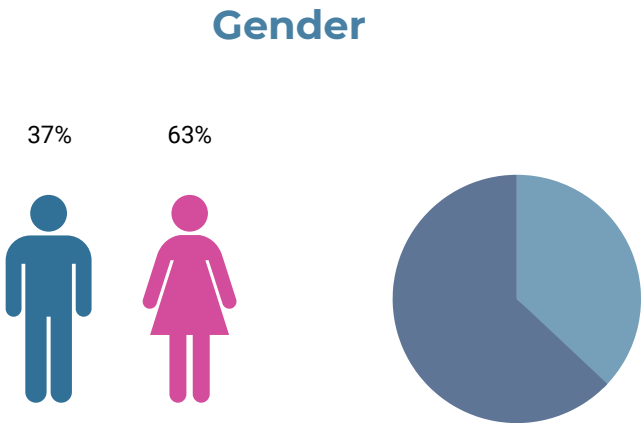
RES4Africa's administrative strategy aims at supporting and complementing the Foundation's mission. The Administration team organised its work in continuous cooperation with all the financial, administrative and personnel areas. In 2022 RES4Africa adopted a set of new administrative procedures, with both an organisational chart and a DO, to define roles and responsibilities not only for the Administration, Planning and Control unit, but for all Res4Africa employees. These procedures are implemented and applied to all the projects and for all technologies and countries within RES4Africa's functional scope. All the projects are now under an AREA MANAGER, which has the role to coordinate the teamwork. This activity allowed both to optimise resources and to expand RES4Africa's strategic activities. The Organisational Procedure is implemented as far as possible in compliance with all applicable laws, regulations, and governance rules, including stock exchange and unbundling provisions, and under the: “ERG - Organisational and Management models (Legislative Decree 231)”.

In 2022, Res4Africa implemented a new travel procedure, in order to guarantee a per diem for each of the employees which travel in Italy or abroad. The diagram below shows the Organisational chart reviewed by external analysts.

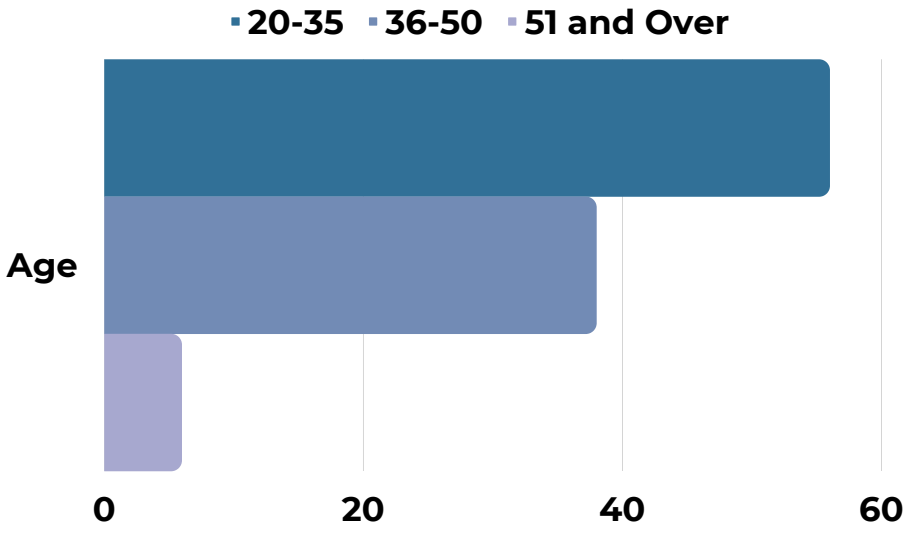


HUMAN RESOURCES

RES4Africa has always been careful to the enhancement of young people, especially women, ethnic diversity and the variety of educational backgrounds of its employees. The first pie chart shows how gender balancing is important for RES4Africa, in fact 63% are women.



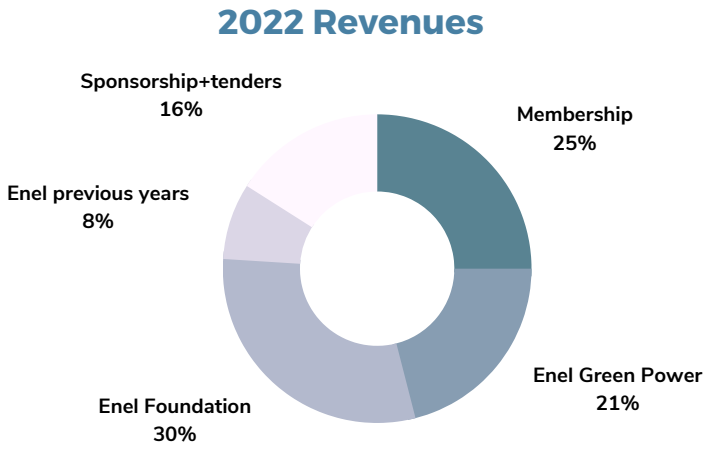
The second graph shows that 56% are between 20-35, 38% are between 36-50.



Administration

FINANCE

In 2022 Res4africa obtained important results in its Finance: the diagram above shows how RES4africa not only managed to reduce the amount of contribution by ENEL Group, but expanded its activity by finding new strategic partners. RES4africa enhanced the amount of projects with 48 active ones, as well as new partnerships and sponsorships, such as: MAECI, UNECA and our loyal partners such as: Enel Green Power and Enel Foundation.



TEAM



Valentina Francini
Administration



Federico Pelliccia
Administration, Planning and Control



Anna Adragna
Administration



Giuliana Griffi
Head of Operation and Quality Control



Silvia Gazzella
Executive Assistant

Green Hydrogen Working Group

Green hydrogen, produced with renewable power, could have a role in the world's overarching objective of cutting emissions, rapidly decarbonizing hard-to-abate industrial sectors. Many African countries are suitable to develop green hydrogen, with strong solar and wind energy potential and large tranches of non-arable land. This could provide African people with new access to clean energy sources, job opportunities in a net-zero economy, public health benefits (e.g., cleaner air), domestic wealth creation, and export revenues.

As African economies continue to further their green ambitions, green hydrogen is increasingly viewed as an important component of a decarbonized energy mix and as a sustainable feedstock for industries.

With the creation in June 2022 of an internal Working Group RES4Africa Foundation intends to foster collaboration between its members and external stakeholders to create a sustainable enabling environment to support green hydrogen development in order to:

- Foster knowledge, technical and human capacities with tailored capacity building and training;
- Integrate Green Hydrogen strategies as part of a comprehensive energy transition pathway: Green Hydrogen strategies and policies should be integrated into country-specific energy strategies and into hard-to-abate industrial sectors, with the aim of benefiting energy access, accelerating RE deployment, maximising social impact by enhancing job creation, environmental integrity, and efficient natural resources management;
- Enable multi-stakeholder win-win partnerships involving local companies, associations, research centres, and universities, as well as international partnerships and engagement for the EU-AU call for tenders in the GH sector;
- Promote the creation of a Green Hydrogen ecosystem and accompany new infrastructure with additional competitive RES.

Green Hydrogen Working Group

KEY PERFORMANCE INDICATORS

Number of Members involved: 10

Number of external stakeholders involved: 3

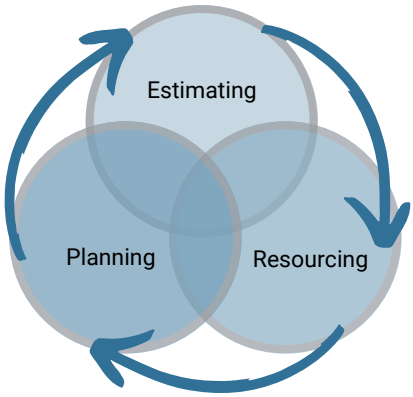
The Resource Mobilization Program aims to identify and activate new international sources of external funding dedicated to strategic initiatives of RES4Africa.

Building on the RES4Africa international relations and involvement of stakeholders as the main channel to identify new financing potential in collaboration with reputable partnering organisations, in order to strengthen the financial base of RES4Africa Foundation through the increase of the external financing flow.

The Resource Mobilization Program identifies and evaluates new funding opportunities, following the formulation and submission of a full proposal and takes the responsibility for solving relevant issues during proposal formulation and strategic decision-making process.

KPIS AND RESULTS

- Tender / Proposals sent by R4A: 20
- Tender / Proposals assigned to R4A: 4
- Tender / Proposal still on-going: 8
- Funds allocated in 2022: 200k Euro



Resume of tender won in 2022

Stakeholder	Description of the proposal asigned to R4A	Logo
IFAD	**Amhara project** Feasibility study and construction of 3-4 MW hybrid solar plant for irrigation of 500ha in cooperation with IFAD and Ethiopian Ministry of Agriculture in the Region of Afar	IFAD
GIZ	**WEF Nexus Platform** Possible Grant eith the WEF Nexus platform funded by GIZ (German Cooperation) for some consultancyactivities connected with WEF projects	giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Enabel	**OS JOVENS E O FUTURO project** Addressing the underlying root causes of fragility and strengthening the resilience of youth in Cabo Delgado, Northern Province, Pemba, Mozambique, and Balama district Mozambique	Belgium partner in development
ICE	**E-Africa Business Lab** Series of webinars for the Italian PMIs interested into investing in Africa organised by ICE.	ITA ITALIAN TRADE AGENCY ICE - Agencia Italiana para el Comercio Exterior Oficina de la Embajada de Italia para la promoción del intercambio comercial

Resource Mobilization Unit (RMU)

TEAM



Carlo Cecchetti
Senior Programme Manager



Iryna Donchenko
Programmes Development Officer

A LOOK BACK: OUR PROGRAMMES



RES4AFRICA FOUNDATION

Missing Link

AN INITIATIVE TO PROVIDE POLICY AND REGULATORY SUPPORT FOR EFFECTIVE PRIVATE SECTOR PARTICIPATION IN AFRICA'S ELECTRICITY INFRASTRUCTURE DEVELOPMENT.

16	1	2
Country Reports	High-Level Event	Trainings

What the Missing Link achieved in 2022

Analysis of the electricity sector policy and regulatory framework

Within the framework of its Missing Link initiative, RES4Africa Foundation and the United Nations Economic Commission for Africa (UNECA) worked on advancing their joint analysis of the electricity sector policy and regulatory frameworks in 16 African countries to crowd-in private participation and investments in the electricity infrastructure. By the end of 2022, the institutions had released the country reports for 12 of the 16 countries covered by the initiative. The reports for Angola, Cameroon, Egypt, and Uganda, finalised in 2022, were published in early 2023.

R.O.A.R digital tool

RES4Africa and UNECA, together with their technical partner Afry, created a digital software (R.O.A.R. - Regulatory review of Openness, Attractiveness and Readiness) reproducing the methodology for evaluating the framework of policies and regulation.

The R.O.A.R. digital tool serves to formalise and extend the earlier Excel-based tool used to perform the review of the openness, attractiveness, and readiness of the assessed countries. Indeed, the new tool allows for several functions: analysis of the efficiency of the regulations in force in the areas defined by the methodology, benchmarking of the performance of the various countries impacted by the review, creation of scenarios for policy and regulatory reforms in the so-called high impact areas, where the regulatory change would bring the greatest benefits. Furthermore, the institutions completed a training deck covering essential information on the tool's functionalities. The tool will be presented at the high-level event "Advancing the Electricity Reform Agenda by Enhancing Public-Private Dialogue" to be held at UNECA headquarters in Addis Ababa in March 2023.

Continental regulatory framework for effective private sector participation

Within the framework of the African Union Special Technical Committee dedicated to energy, RES4Africa and UNECA will present a Continental Report summarising the main messages of the reviews carried out and will outline the recommendations aimed at optimising the openness, attractiveness, and readiness of African electricity markets to crowd-in private investment. In 2022, following the definition of the main structure and contents of the report, the continental Regulatory Framework for Crowding-in Private Sector Investment in Electricity Markets of Africa and its main recommendations have been presented.

TIMELINE

February 2022

Start of the Bocconi field project on "What Does It Take 2.0"

March 2022

MGA for MENA region with the Regional Center for Renewable Energy & Energy Efficiency RCREEE

April 2022

R4A – UNECA Kigali expert meeting

July 2022

Luiss Executive First Level Master in Global Public Diplomacy and Sustainable Development

Missing Link

September 2022

The Regulatory Review of Electricity Market in Egypt was presented during the Cairo high-level event "Accelerating Egypt's Clean Energy Transition: Enabling Policies, Investments, and Technologies"

October 2022

The Regulatory Review of Electricity Market in Morocco and Senegal were presented during two dedicated events on "Accelerating the energy transition" in Rabat and Dakar

December 2022

R4A-UNECA consultative meeting on African electricity markets regulatory reviews and proposal for a Continental Regulatory Framework to Crowd-in Private Sector Investments in Africa's electricity markets

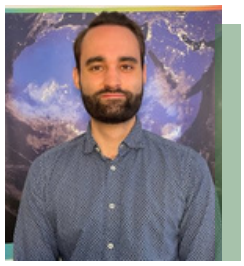
TEAM



Andrea Renzulli
Programme Manager, Policy and Regulations



Cristina Lisi
Senior Policy Officer, Policy and Regulations



Jean-Baptiste Decoppet
Policy Officer, Policy and Regulations

A PRIVATE SECTOR INITIATIVE FOR AN EFFECTIVE DE-RISKING EU INSTRUMENT TO SCALE UP RES DEPLOYMENT IN AFRICA.

3	2	2
Partnerships	Events	Stakeholder Engagement Missions

What renewAfrica achieved in 2022

Outreach activity: building tighter relations with the African energy sector

With the ultimate goal of the creation of an EU-led programme supporting renewables investments in Africa, the renewAfrica Initiative continues to consider the involvement of stakeholders from both continents on an equal footing an indispensable requirement for Africa's just and sustainable energy transition.

Coherently, in 2022 renewAfrica renewed its commitment and effort aimed at supporting such constructive dialogue, carrying out its core engagement activity through the expansion of its outreach programme to include Senegal, where the Initiative's strategy and purpose were well received. With the same approach, renewAfrica has also broadened its geographic scope to new countries of interest such as Côte d'Ivoire, with a dedicated stakeholder engagement mission, and Ghana, with which contacts have been deepened and important exchanges built up in view of forthcoming outreach events.

As a demonstration of the positive echoes of the Initiative's work to promote a tailored and country-specific design for a EU programme underpinning RE investments in Africa, a Memorandum of Understanding was concluded with the Mozambique Renewable Energy Association (AMER) after the renewAfrica outreach event held in the country, and two Letters of Intent were signed respectively with the Institute for Energy Security of Ghana (IES) and with the Agence National pour les Energies Renouvelables (ANER) based in Senegal.

Rationalise the existing financing instruments and frameworks for RE investments in Africa: the RISE proposal and renewAfrica monitoring effort

As a visible result of the long-standing endeavour carried out by renewAfrica, in 2022 the European Investment Bank (EIB) and Cassa Depositi e Prestiti (CDP) presented the "RISE - Renewable Infrastructure & Sustainable Energy Partnership Africa EU" proposal to the EU Commission. Notably, the initiative built on the recommendations developed by renewAfrica through the work of its Task Forces of Finance and Technical Assistance.

Pending the EU Commission's decision on the proposal and in line with its monitoring efforts, renewAfrica produced a policy memo on the current evolution of the EU-AU energy relations in order to assess the latest developments in the Commission's position towards the financing and deployment of RE in Africa. The memo maps key players and relevant financing frameworks for the intercontinental partnership on climate and energy.

Keeping the attention high: strategic positioning in Brussels and Knowledge Transfer activities

In 2022 renewAfrica functioned as a key connecting actor for keeping the dialogue on Africa's green transition active at the European level. In order to ensure that the messages of the Initiative were best positioned for policymaking impact, representatives of renewAfrica participated in the Get Invest Stakeholder Consultation online event. To this same end, its key activities and mission were presented during the SolarPower Europe Summit held in Brussels after the high-level in-person meeting between Ing. Bernabei as President of RES4Africa and Mr. Doens, Director General DG INTPA (International Partnerships).

As a follow-up to the advocacy and outreach activities carried out by the Initiative, renewAfrica has also committed to supporting knowledge transfer related to de-risking investments tools and practices as a crucial activity for the success of the Initiative. In this regard, renewAfrica was part of the training and LUISS provided by RES4Africa Foundation and further steps will be undertaken to explore new ways of conveying knowledge.

TIMELINE

January 2022

Participation to Get.Invest Stakeholder Consultation (online)

May 2022

Stakeholder engagement mission in Dakar, Senegal

July 2022

RenewAfrica as part of the training at LUISS provided by RES4Africa

EIB and CDP presented the RISE proposal to the EU Commission, based on renewAfrica recommendations

November 2022

Paper to map the current status of EU-AU energy relations, as part of the monitoring effort carried out by the Initiative

March 2022

High level meeting Ing. Bernabei as President of RES4Africa and Mr. Doens, Director General DG INTPA (in-person)

RenewAfrica presented during the SolarPower Europe Summit in Brussels (in-person)

MoU signed with AMER, Mozambique Renewable Energy Association

October 2022

Outreach event in Dakar, Senegal

Stakeholder engagement mission in Ivory Coast

December 2022

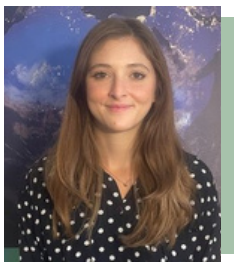
Stakeholder engagement activities with Ghana (Energy Commission, EU Delegation, Institute for Energy Security, Africa Centre for Energy Policy)

Letter of Intent signed with Institute for Energy Security in order to organise an outreach event in the country, foreseen for Q4 2023

TEAM



Ivana Senka
Project Manager



Martina Serao
Junior Analyst

Access to Energy

A PROGRAMME AIMING AT SUPPORTING KNOWLEDGE DEVELOPMENT AND ON-FIELD SOLUTIONS TO FOSTER SUSTAINABLE ACCESS TO RENEWABLE ENERGIES IN THE AFRICAN CONTINENT.

5 Publications	**1** Webinar	**1** Market Analysis	**1** Communication campaign
1 Event	**1** Training	**3** COMPANIES Mentoring	**303** Partecipants

What Access to Energy achieved in 2022

Connecting the Dots

This decade will be crucial to understand if we will be able to achieve the ambitious goals set by the international agenda to meet the 1.5°C target and win the fight against climate change.

In 2022 RES4Africa, in partnership with Enel Green Power, dedicated the third edition of the Connecting the dots series of publications to West Africa, a region blessed with enormous renewable energy resources, while being one of the most vulnerable ones to climate change. Nevertheless, in the last decade, only 2% of the global RES investments were directed to Africa, and only 8% of this share went to West Africa.

The region is characterised by countries having energy production deficits and others with surplus power generation. This makes regional energy integration a great opportunity for West Africa, that could save between 5 and 8 billion dollars a year on energy bill. Despite that, cross-border energy trade is still very limited.

To fully develop its renewable energy potential, it will be paramount to prioritise key actions to: establish de-risking instruments to attract investments; create a clear, stable and transparent regulatory framework; expand networks and create new bonds that will feed regional integration.

The 2022 Connecting the Dots publication was launched through an ad-hoc webinar on the 30th of November and it's now available on RES4Africa website. Grounded on a solid collection of data and insights, a Storytelling component was also launched to convey complex issues with a simple and communicative approach through video, infographics, editorials and media activities that can be found on RES4Africa social media channels.

Water-Energy-Food Nexus

In recent years, the Water-Energy-Food (WEF) Nexus approach has become an integral part of international development agendas (14 out of 17 SDGs are interlinked or have repercussions on the water-energy-food nexus) and in the narrative of international and financial institutions. But why is this happening? The WEF Nexus approach considers how water, energy and food systems are connected and can reveal business models that respond to essential development needs. If applied and scaled up, these business models can increase economic productive capacity and drive socio-economic welfare, in support of countries' ability to mitigate and adapt to the impacts of climate change.

Rapidly growing populations and economies in Africa are adding stress on existing infrastructure and countries' supply systems, expected to lead to a surge in demand over basic resources such as water, food and energy in coming years. It is estimated that by 2030 Africa's water consumption will grow by 283% compared to 2005 levels, food demand by 60% compared to 2015 levels, and electricity demand by 70% compared to 2016 levels. Moreover, this hike in demand for resources risks being exacerbated by the impacts of climate change to which MENA and Sub-Saharan African countries are particularly vulnerable.

In this framework, RES4Africa carried out analyses and trainings on WEF Nexus business models and financing mechanisms on behalf of the GIZ Programme "Nexus Regional Dialogues Programme", which is co-funded by the EU and BMZ. Additionally, in collaboration with RCREEE, a joint event in the framework of COP27 in Sharm El-Sheikh was organised to present and discuss the state of the art in the nexus "scene", providing a solid understanding of the current opportunities and obstacles in the MENA and Sub-Saharan African regions to deploy integrated WEF nexus projects from agrivoltaics to precision irrigation and cold storage solutions.

Transformative business models

Sub-Saharan Africa urgently need access to affordable and green energy which will require investment in new power capacity and infrastructure. Slow economic growth and high unemployment across the region means that consumers cannot afford to pay the cost of energy which leads to revenue risk, and utilities are forced to charge tariffs which are not reflective of the costs that would be required to expand and improve the quality of the service. The large majority of utilities across the continent are state-owned entities facing fiscal imbalances and so do national governments. This translates into increased offtake risk for investment which leads to high-risk premia and cost of capital which in turn results in sub-optimal investment in capacity and infrastructure. In this context, RES4Africa has developed an analysis of aggregator business models looking at how acting as intermediaries in the market, aggregators can facilitate investment and absorb some of the risks currently faced by investors.

RenewAble Against Covid

The project builds on the partnership between RES4Africa, Elettrici Senza Frontiere Italia (ESFI) and Technologies Solidali Onlus and aims to ensure reliable and affordable electricity supply service to health centres in Africa. In this framework, RES4Africa has selected 3 start-ups (2 from Kenya and 1 from Cameroon) of young African professionals that carried out an energy assessment and preliminary design of the power system for 12 Health Centres and received a tailored mentorship program for the development of their activities.

Youth Start-up Initiative

RES4Africa's value proposition is founded on the idea that youth are at the core of the continent's socio-economic development. Our action is not limited to placing youth at the centre of our projects, but has the ambition to allow youth to be our action themselves.

Through the Youth Start-up Initiative, RES4Africa aims at gathering innovative business ideas from its network of youth and supporting them in becoming future energy entrepreneurs and leaders, by developing and scaling up their viable and sustainable businesses. In 2022, RES4Africa developed an analysis of the African start-up market, viable business models and the composition of the ecosystem of stakeholders operating in the sector.

The newly created Initiative (estimated to go live in 2023) will support youth, start-ups and innovators in the RE sector through the provision of grants, technical support, mentorship and link with the job and investment market.

TIMELINE

March 2022

Connecting the dots Storytelling: Chapter 1 - Climate Change
March: Coordination of the ICE's Africa Business Lab – Path Energy

April 2022

April – September: Participation (online) to 10 National and Regional Dialogue events on WEF nexus in Niger Basin countries
April – July: Mentoring of 3 companies as part of the ICE's Africa Business Lab

May 2022

Participation in training of trainers on WEF nexus in Jordan

Access to Energy

June 2022

Participation as trainer and evaluator to African start-ups bootcamp in Burkina Faso
Participation to the ARE Investment Forum in Tanzania
Connecting the dots Storytelling: Chapter 2 - From commitment to action

July 2022

Connecting the dots Storytelling: Chapter 3 - 10 years of RE in Africa

September 2022

Connecting the dots Storytelling: Chapter 4 - Accelerating investment

November 2022

Connecting the dots Storytelling: Chapter 5 - Africa's energy transition
COP 27 side event on WEF Nexus in Egypt
Webinar of presentation of the Connecting the dots – West Africa publication.
November - December: Presentation of the report on Energy aggregator business models

December 2022

Presentation of Africa startup market analysis results

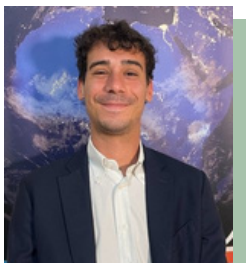
TEAM



Luca Traini
Programme Manager, Access to Energy



Daniele Guzzo
Access to Energy Officer



Giovanni Formicola
Energy Analyst

A PROGRAMME TO SUPPORT THE DEVELOPMENT OF ELECTRICITY NETWORKS IN AFRICA.

1	3	1	1
Event	Forums	B2B/B2G meeting in Kenya	Workshop for the local utility

What Grids4Africa achieved in 2022

In its second year, the Grids4Africa initiative focuses on expanding its network and increasing awareness around this topic. To achieve this goal, 3 workshops/forums were organised, with 2 closed-door meetings, 1 training course, multiple stakeholder engagement events. To do so, Grids4Africa worked both independently and leveraging on our SSA, RES4Med, and renewAfrica initiatives.

At the 7th EU-Africa Business Forum, Grids4Africa held a workshop on “Private Sector Participation in African Grid Development” with speakers from the IFC, European Commission, Eskom, Umeme, and the DEG, with over 150 attendees.
Over the course of the year, Grids4Africa held a number of closed-door meetings and workshops on a variety of topics. The first, a roundtable that took place in Johannesburg, was between 8 RES4Africa members and Eskom’s strategic grid management department on grid management solutions.

In Kenya, following an invitation to moderate and speak on 2 panels on grid modernisation, and grid innovation at the inaugural Kenya Power Manufacturers, Technology, and Innovation EXPO, the Grids4Africa team attended a meeting with various entities in Kenya’s RE sector including KPLC, KenGen, the MoE.

In November, 2 workshops specific to grids were held. The first workshop was held in Johannesburg for the Eskom Grid Management and Strategic Grid Management teams on the outcomes of the study carried out with the support of Eskom on the Localisation of RES sites. The study uses GIS analysis and modelling to identify the best areas for Renewable energy projects based on resource potential and grid capacity, among other variables. The results of the study were more publicly discussed during a RES4Africa event at the CSIR offices in Pretoria called “The Evolving Electricity Landscape".

The second, was the first in a series of online forums organised together with the IFC, called “Promoting Private Sector Participation in Africa’s Power Grids”. The forums serve to bring together Development Partners from across the globe with African utilities, regulators, and grid operators to discuss how to improve investments in Grids. The first session focused on increasing investment in transmission infrastructure projects. Drawing on IFC’s past experiences and the Kenyan upcoming IPT project, experts discussed the main challenges in such projects and how they were overcome. Each forum will be followed up by a position paper which collates the expert opinions discussed.

This year, Grids4Africa began its training activities. As part of an International Labour Organisation initiative, RES4Africa, together with its member CESI, organised and carried out a training course at the Kafue Gorge Regional Training Center in Zambia on the integration of renewables into the grid. Due to multiple separate requests from African institutions to provide training on grid management with the growth of renewables, Grids4Africa began developing a short-course on electricity grids to carry out in 2023.
Leveraging on the relationships with the SSA, RES4Med, and renewAfrica initiatives, Grids4Africa had an active role, through a panel or day dedicated to grids, in events organised in South Africa, Kenya, Morocco and Senegal.

TIMELINE

February 2022

Workshop at the 7th EU-Africa Business Forum

July 2022

Participation as Moderator/Speaker at inaugural Kenya Power Manufacturers, technology and innovation EXPO (both on the 6th and 7th)
Closed-door B2G/B2B meeting with leaders from Kenya renewable energy sector

November 2022

In-Person closed workshop for local utility on the integration of renewables in to the grid with official presentation of the Localisation of RES sites study
1st Promoting Private Sector Participation in Africa's Power Grids - Development Partners Forum on Private Sector

June 2022

Closed door B2B meeting with RES4Africa Members and local utility

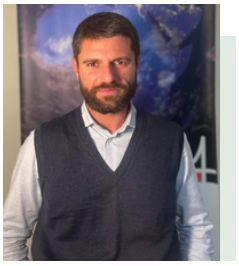
October 2022

Training on Integration of Renewable Energy in to the grid in collaboration with the International Labour Organisation (ILO) at the Kafue Gorge Regional \Training Center, Zambia

November 2022

Experience in Africa's Grid Infrastructure Project "Evolving Electricity Landscape" event with presentation of Localisation of RES sites study to open audience

TEAM



Antonio Passero
Sub-Saharan Region
Programme Manager



Lorenzo Vilona
Energy Analyst



Iarina Ciceu
Energy Analyst

A LEADING PLATFORM FOR PUBLIC-PRIVATE DIALOGUE IN LIGHT OF THE RENEWABLE ENERGY POTENTIAL AND GROWING ENERGY DEMAND OF SOUTHERN-EASTERN MEDITERRANEAN COUNTRIES (SEMC).

7	6	2	+600
Studies	Events	Missions	Participants

What RES4Med achieved in 2022

RES4Med strategic role in the region

Southern and Eastern Mediterranean countries are endowed with huge renewable energy potential, yet in 2019 only 8% of power generation comes from renewable sources. This suggests the need to further work with local partners, open the market for renewable energy investments and promote best practices to fully exploit the renewable energy potential in the region.

Since its inception in 2012, RES4Med has played a strategic role in engaging with local stakeholders from the private and public sectors to promote renewable energy discourse and investments. RES4Med continues to share lessons learned through its actions, shapes solutions and instruments, and brings forward market-driven strategic analysis, building on RES4Africa members' and stakeholders' experience.

In the coming years, the region will be playing a central role in driving the clean energy transition in the region and across the African continent. Thanks to its strategic geographical focus, RES4Med continues to position itself as the leading platform for public-private renewable energy dialogue.

Contributing to accelerate Renewable Energy investments

Building on its renewed relations with its stakeholders in the Med region, in 2022, RES4Med explored new solutions to accelerate the energy transition and mobilise clean energy investments at scale. In particular, three studies were dedicated to analysing several national energy contexts and strategies to identify opportunities for renewable energy adoption, support research and development, and provide country-tailored recommendations.

Since Morocco is considered a regional forerunner in terms of renewables deployment and is set to play a leading role in the energy transition in North Africa, RES4Med conducted two studies dedicated to the Country. In the context of growing water scarcity and the WEF nexus, the first study sheds light on the current situation and future perspectives of Green Hydrogen in Morocco, assessing strengths, challenges, and possible solutions to the creation of a dedicated regulatory and market framework. The report provides policy recommendations based on a benchmark analysis of other countries' best practices. The second study examines the regulatory framework and market potential of seawater desalination coupled with renewables in Morocco, and showcases adapted desalination technologies rendering renewable desalination a sustainable opportunity to meet the country's water needs.

RES4Med also developed a study on agrivoltaic systems across the Mediterranean, as an opportunity to respond to the issues related with the Water, Energy and Food Nexus. The report analyses the current relevant policies in Morocco, Tunisia, Algeria, Egypt, Jordan, and Lebanon and provides policy recommendations to further uptake agrivoltaics.

In addition, RES4med has developed 4 policy briefs as a parallel series of policy reports, part of the project "Better Policies to Accelerate the Clean Energy Transition" which aims at supporting countries in the Southern and Eastern Mediterranean region to accelerate the green energy transition, by mapping existing legal and regulatory frameworks to identify barriers and provide policy recommendations.

In an attempt to create actionable knowledge in partnership with other stakeholders in the renewable energy arena, RES4med has also contributed to Solar Power Europe's Tunisia Solar Investment opportunities report and drafted the chapter on Egypt in the Solar Power Opportunities report. Both contributions have been presented in dedicated events.

A new momentum for renewable energy in the Med

Throughout the years, RES4Med has positioned itself as a strategic platform to foster public-private dialogue on renewables across the Mediterranean. In 2022, RES4MED has organised 2 webinars bringing forward a thought-provoking reflection on the energy transitions in Morocco and Tunisia, gathering experts to discuss emerging trends, opportunities, and barriers impeding renewable energy investments.

Moreover, in order to renovate existing partnership agreements and build future collaborations reflecting the new strategic orientations of its stakeholders, RES4MED undertook 2 missions: in Morocco and Egypt. Based on the latter, new collaborations have been made possible and were followed by 2 in-person high-level events in the respective countries involving local institutional stakeholders to share best practices and solutions to match local needs.

RES4med has also organised 2 side-events at two prominent renewable energy fairs, namely Zeroemission Mediterranean and Key Energy Expo, where topics such as Green Hydrogen, agrivoltaics and renewable desalination were brought under the spotlight.

These events have also been complemented by the participation of the RES4med team as speakers in regional conferences and training such as Energy Transition In MENA And Italy in Dubai, the Green Economy Summer School in Cairo (co-organized with the Italian Embassy), the Salon International de la Transition Energétique and Renpower Maghreb in Tunis.

Partnerships for a greener future

Thanks to its robust network across the Mediterranean region and its numerous advocacy initiatives, RES4Africa has been able to cultivate new collaborations with its multi-stakeholder initiatives across the region. As far as Morocco is concerned, several bilateral meetings have taken place with ONEE, ANRE and the Ministry of the Energy Transition and Sustainable Development in preparation of the future collaborations (training activities, ad-hoc studies on strategic topics...).

2022 has also seen a heightened participation of IRESEN and the Policy Center of the new South in the RES4med activities. As for Egypt, RES4Africa has developed stronger relations with EgyptEra, NREA, the Ministry of Electricity and Renewable Energy and the Sovereign Fund of Egypt. In Tunisia, RES4med has been involved in several events co-hosted by the Chambre Syndicale du Photovoltaique and the STEG. At a regional level, RCREEE has been identified as an important actor in the energy transition in the region and a more solid cooperation is planned for 2023. Finally, with the aim of adopting innovative solutions and knowledge exchange, IPVF and Neorurale Hub have emerged as new knowledge partners.

Firmly convinced that partnerships with local actors are key to effectively fostering solutions tailored to local needs, RES4Med will bring forward the established cooperation in the region and expand the relations with local partners.

TIMELINE

March 2022

Events on Energy Transition in Morocco
Energy Transition in MENA and Italy in Dubai

July 2022

Green Economy Summer School in Cairo

October 2022

Res4Africa Day in Morocco
Side event at Zeroemission Med
Salon International de la Transition Energétique Tunis

December 2022

RenPower Maghreb in Tunis

June 2022

Mission in Morocco
Event on RE trends and challenges in Tunisia
Mission in Egypt

September 2022

Res4Africa Day in Egypt

November 2022

Side Event at Key Energy

2023

The studies on Desalination coupled with Renewables and Agrivoltaics across the Mediterranean will be published.

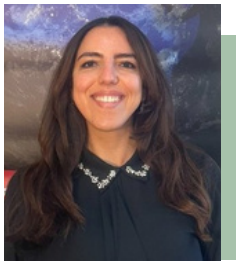
TEAM



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Junior Analyst
MENA Region

Sub-Saharan Programme

A PROGRAMME DEDICATED TO SUPPORT THE JUST ENERGY TRANSFORMATION OF SUB-SAHARAN AFRICA'S COUNTRIES.

3	**2**	**1**	**1**
Conferences	AM-Powering Connexions Events	MoU signed with EWSETA	B2B meeting
2	**5**	**2**	**1**
Studies Published	RE-Skilling Working Group Meetings	AM-Powering Briefs	Position Paper

What the Sub-Saharan Programme achieved in 2022

In 2022, the emphasis for the Sub-Saharan Programme was to reconnect with our network face-to-face following 2 years of long-distance work. Leveraging on the permanent presence in South Africa, 3 in-person events were held, 6 online meetings/webinars were held, and 2 studies and 3 shorter publications were released.

In Johannesburg, the first ever RES4Africa conference was held together with our partner Nedbank. Over 150 people attended over the two days of events which covered a variety of key topics and culminated in a closed-door meeting between multiple RES4Africa members and Eskom.

During the year, two studies were published. The first, "Integration of Non-Programmable Renewable Energy in the National Electricity System of South Africa" was presented behind closed doors to the Eskom's Grid Management and Strategic Grid Management Teams following a series of collaborative meetings to better define the report outputs.

The second “Regulatory Assessment of Battery Energy Storage Systems in South Africa” was presented during the Ambrosetti House CEO Forum in Pretoria, where the RE-Skilling Lab was also presented for the first time.

The RE-skilling Lab was a focal activity for our South Africa team. The RE-skilling lab is a long-term capacity-building program to accelerate the shift of the coal communities towards a sustainable economy by enabling local educational entities to equip young people on-the-ground with renewable energy skills. A Working Group composed of RES4Africa members and local industry associations, academic institutions, government entities, and international development partners was created to design the programme. Over the course of 5 online Working Group sessions, Working Group members defined the target audience (teachers and students of Nkangala TVET), training locations (Nkangala TVET campuses), curriculum (South African Skills programme) and the creation of a consortium to take charge and manage the RE-Skilling lab going forward. The RE-Skilling Lab work culminated with its launch event-cum-stakeholder consultation in November at the Nkangala District Municipality in Mpumalanga province, which was attended by more than 100 local stakeholders.

Continuing on from 2021, the 8th and 9th sessions of the AM-Powering Connexions series took place, focusing on “the critical role of BESS in a competitive South African electricity market” and the “evolving electricity procurement landscape: driving factors and new challenges”, respectively. Both continued the trend of having 70+ attendees and an ever-growing list of subscribers and continue to be a successful space for open dialogue between stakeholders of all levels.

In addition to the special focus afforded to South Africa since 2019, 2022 also saw Kenya as a focus country for the programme, building upon the MoU signed with the Electricity Association of Kenya in 2021 and the longstanding relationship with Kenyan energy institutions. Indeed, together with ESAK, the Kenya Renewable Energy Exchange was the first physical event in Kenya since before Covid and it focused on the introduction of procurement auctions and of battery energy storage systems.The gathering was valuable in expanding our network in the country and resulted in invitations to moderate and present at RENPOWER Kenya and the inaugural Kenya Power Manufacturers, Technology & Innovation Expo.

Sub-Saharan Programme

TIMELINE

January 2022
1st RE-Skilling Lab Working Group Meeting

March 2022
2nd RE-Skilling Lab Working Group Meeting
AM-Powering Connexions 8 – The Critical role of BESS in a competitive South African electricity market

May 2022
3rd RE-Skilling Lab Working Group Meeting
Kenya Renewable Energy Exchange Conference

June 2022
South Africa conference

July 2022
4th RE-Skilling Lab Working Group Meeting
Participation as Speaker at RENPOWER Kenya conference in Nairobi
5th RE-Skilling Lab Working Group Meeting

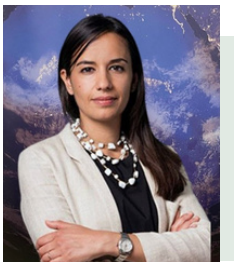
October 2022
Am-Powering Connexions 9 – Evolving Electricity Procurement Landscape: Driving Factors and New Challenges

November 2022
Presentation of "Regulatory Assessment of Battery Energy Storage Systems in South Africa" study and of Re-Skilling Lab at Ambrosetti CEO Forum in Pretoria
Official launch of RE-Skilling Lab with stakeholder consultation in Nkangala District Municipality, Mpumalanga Province, South Africa

TEAM



Antonio Passero
Sub-Saharan Region Programme Manager



Marianna Petrosillo
Project & Engagement Coordinator, South Africa



Lorenzo Vilona
Energy Analyst



Iarina Ciceu
Energy Analyst

Advanced Training Course

RES4AFRICA'S FLAGSHIP CAPACITY BUILDING TRAINING ADDRESSED TO INSTITUTIONAL AND HIGH-LEVEL MANAGERS AND PROFILES OPERATING IN THE RE SECTOR IN AFRICA.

80	60	13
Hours of Lectures	Participants	African Countries

What the Advanced Training Course achieved in 2022

RES4Africa's yearly Advanced Training Course (ATC) is the executive training that traditionally takes place for two weeks in collaboration with Enel Foundation and the European Investment Bank and that is dedicated to managers and high-level professionals working in public and private African entities related to energy and sustainability. This year, after two on-line editions in 2020 and 2021, the IX ATC edition was organised in presence from November 21st to December 2nd. The participants had the opportunity to attend 80 hours of lectures on the main technical, regulatory and economics features of Renewable Energy.

The first week was organised in collaboration with POLIMI School of Management and was dedicated to technological and market aspects. The second week was held in collaboration with SDA Bocconi with the aim to touch on financial and economical aspects related to renewable energy and sustainable development. The sessions foresaw 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 1200 have applied to participate in the ATC 2022 from 63 African countries.The selected 60 participants come from 13 African countries (Algeria, Egypt, Ethiopia, Ghana, Kenya, Mauritania, Morocco, Mozambique, Senegal, South Africa, Tanzania, Tunisia, Zambia).

Regarding the participants' job sector, attendants were professionals and managers coming from government entities and private sector but utilities, NGOs and banks were involved as well.

Gender balance was particularly taken into consideration with almost 40% of women participating in this edition. There was a full appreciation of the training with the 55% share of attendants that gave the maximum score “very satisfied” and the remaining 45% that were “satisfied”.

Training and Capacity Building Road to 2023

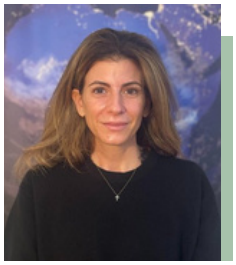
Building human capital is one of the utmost important levers to achieve the RES4Africa mission. The Foundation has a long track of experience in this field with several well-recognized initiatives. In 2022 Res4Africa paved the way to a new approach to all the training and capacity-building initiatives.

With the beginning of 2023 in fact all those activities will be grouped under a dedicated Area called Res4Africa Academy with the aim to cover widespread and diversified needs with a homogeneous approach. The Academy activity will be organised in three main work streams, the flagship and recurrent initiatives, the schools, the dedicated Country/ topic-specific initiatives, the labs, and a web-based knowledge platform that will be available to anyone interested to stay updated on the technical, economic and regulatory aspect of RE and will be used for on-line specific webinars as well.

TEAM



Fabrizio Bonemazzi
Training and Capacity Building Area Manager



Flavia Pezzano
ATC Programme Manager

Micro-Grid Academy

A VOCATIONAL CAPACITY BUILDING PROGRAMME AIMING AT CREATING A SKILLED AND CONSCIOUS WORKFORCE, IN ORDER TO DEPLOY DECENTRALISED RENEWABLE ENERGY SOLUTIONS AND BUSINESS SKILLS.

6	7	614	39
Trainings	Field Visits	Students	Countries outreach

What the Micro-Grid Academy achieved in 2022

RES4Africa through its Technical and Vocational School, formerly Micro-Grid Academy (MGA), is committed to lead capacity building & training efforts to enable skills and knowledge transfer that supports the long-term renewable energy (RE) market creation and job promotion in Mediterranean and Sub-Saharan African countries. Within this Strategic Programme, in 2022 new and past participants from all African regions, (East, West, Sahel, Northern and Southern Africa) have been provided with 6 training editions to strengthen their technical and business competences on decentralised renewable energy solutions, development, management and operation of mini-grids based on the MGA curriculum and contents as per following details:

January/February 2022: 21st ONLINE EDITION	Standard Module 1: Basic components of Decentralised energy systems (DRE) and Community needs assessment
February/March 2022 22nd ONLINE EDITION	Special Edition in partnership with RCREEE for MENA Region: Introduction to the Value Chain of the Renewable Energy Decentralised Systems
February/March 2022 23rd ON-FIELD EDITION	Special Module for AVSI Ilumina Project: Microgrids, Rural community needs and Demand Assessment for Access to Energy, Rural Development and Women Empowerment in Mozambique

May 2022- 24th ONLINE EDITION	Standard Module 2: *Decentralised Renewable Energy Site Selection and Engineering assessment*
September 2022 – 25TH ONLINE EDITION	Special Module in partnership with Masen and African Development Bank for the Desert to Power initiative: *The Mini-Grid Academy for G5 Sahel countries*
November 2022 – 26TH ONLINE EDITION	Standard Module 3: *System design, O&M and Safety*

To complement the online trainings with practical experiences, laboratories and exercises, RES4africa has also organised 7 field visits in Ethiopia, Kenya and Uganda in partnership with local implementing partners such as Ethiopia Women in Energy Network, St. Kizito VTI, Strathmore University, Avsi Foundation and EACREEE.

A hybrid mini-grid as an innovative training facility

In 2022, RES4Africa Foundation has continued its activities in the frame of the project "Private Sector and Innovative Energy Technologies Development in Kenya ". The initiative is funded by the Italian Agency for Cooperation and Development (AICS), and carried out by a consortium of different energy actors: AVSI as lead applicant, RES4Africa Foundation, ST. Kizito VTI and others as co-applicants. The core goal of the project is the construction of a 30 kW hybrid mini-grid, that is currently ongoing and will be finalised in 2023. The asset will be located in St. Kizito's premises in Nairobi, as one of the local implementing partners. The mini-grid will be composed of a PV system, a battery storage system, a demo wind turbine and a backup diesel generator. In addition, it will be able to run either on-grid or off-grid mode to replicate all the possible situations a rural electrification system can face so as to become a key component of the Micro-Grid Academy (MGA) training editions for didactic, educational purposes and practical exercises.

Micro-Grid Academy Young Talent of the Year Award 2022

In 2022, in the framework of the MGA, RES4Africa Foundation launched the Third Edition of the Young Talent of the Year Award in partnership with Enel Green Power and the European Investment Bank.

The programme, aimed at supporting brilliant young innovators in addressing the most pressing environmental and social challenges in the African continent, and in 2022, at its third edition, saw an increased number of applications (58) compared to the past editions, raising the bar and competitiveness of the call.

As a result of the internal evaluation by RES4Africa's experts as well as young African entrepreneurs -previous Awardees and Youth Task Force members-, six finalists had the chance to present their projects in a public Webinar Competition on July 22nd, in front of the Selection Committee composed by Roberto Vigotti, for RES4Africa, Salvatore Bernabei and Suelen Quadri, for Enel Green Power, and Carmelo Cocuzza, for the European Investment Bank. At the end of the evaluation process, the three best innovative proposals were identified as winners of the 2022 Award to be rewarded with a monetary prize of EUR 5,000 as follows:

- Chiemela Anosike, a young Nigerian entrepreneur and founder of Solaris Green Tech Hub, a start-up designing, installing and running solar-powered booths - all employing local women - to guarantee energy access in remote areas;

- Grace Nanteza, another female innovator from Uganda, who presented Run Automations Limited, a small company specialised in digitalization of solar solutions through consumption monitoring and a pay-as-you-go model, to increase access to clean energy at competitive prices for small Ugandan customers.

- Divin Kouebatouka, from the Republic of Congo, founder and CEO of Green Box, a social enterprise that designs and instals solar-powered cold rooms for farmers and food retailers to prevent loss of perishable goods, combining access to energy to food security and agribusiness development.

In addition, for the first time, a fourth project was awarded a Special Mention, with a contribution of EUR 1,500 to Salah A.M. El Sadi, a Libyan entrepreneur residing in Palestine and designer of the Blue Filter, a green technology for water purification to produce clean water for irrigation to farmers in Palestine.

The Award remained true to its scope of combining the financial support and contribution with the active promotion of winners' projects, increasing their participation, dialogue and networking opportunities in high-level conferences and forums.

The occasion, this time, was the side event organised by RES4Africa at COP-27 in Sharm el-Sheikh on November 15th at the UNFCCC 4th Capacity Building Hub.

Here, with the speeches of EIB and EGP, the three winners of the Young Talent of the Year Award 2022 were publicly announced. Following the ceremony was a panel discussion on how to boost the positive socio-economic externalities of green energy investments with a focus on African youth, leveraging the experiences of the three young talents and winners. The event also benefited from the participation of Enrico Barbato, (Ministry of Foreign Affairs and International Cooperation of Italy), Salvatore Bernabei (President of RES4Africa Foundation and CEO of Enel Green Power), Ambroise Fayolle (Vice-President European Investment Bank), Fouad Zayed (Vice-President, Digital Energy NEA & Levant, Schneider Electric), Norah Magero (CEO of Drop Access and member of the R4A Youth Task Force), Khalid Salmi (Expert–Sustainable Energy Management RCREEE).

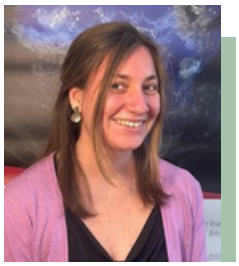
TEAM



Fabrizio Bonemazzi
Training and Capacity Building Area Manager



Marta Caradonna
Micro-Grid Academy Coordinator



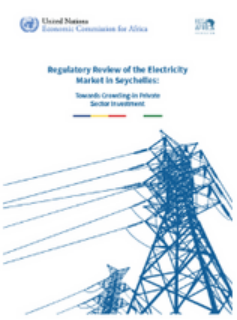
Laura Lombardo
Micro-Grid Academy Project Officer

PUBLICATIONS



RES4AFRICA FOUNDATION

2022 PUBLICATIONS



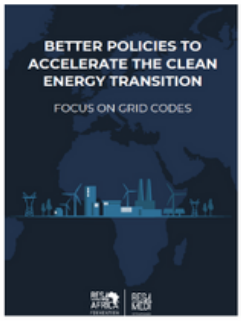


















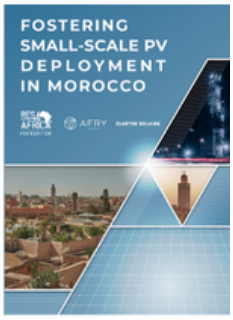


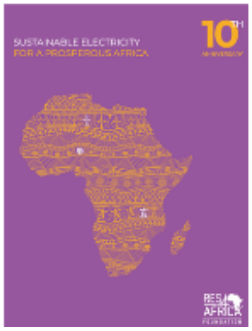












MESSAGE FROM THE SECRETARY GENERAL

The year just ended marked, for RES4Africa, an important milestone: its 10th anniversary. As this edition of our Annual Report demonstrates, however, 2022 was everything but a year of celebration and relaxation. In fact, we can legitimately say that the world has entered a new era, in which the very provision of energy is being questioned, even in the areas of the Earth in which, for decades, it had been considered a given. The worldwide reaction was not long in coming, with a record amount of new renewable capacity (+320 GW, 10% more than 2021).

Needless to say that such an effort has been fuelled by unprecedented investments in the green energy sector, estimated to be around $1.1 trillion in 2022. And yet, just a small fraction of these capitals are deployed in Africa, despite its growing population, economies and, sadly, its exposure to climate change. Shifting such a paradigm is more urgent than ever, and it requires joint efforts across sectors of the overall renewable energy value chain. That's exactly what RES4Africa has been doing since its foundation, with its efforts to build an ever-growing allegiance of experts, professionals, students and researchers, from all the continents, of all ages and cultural backgrounds. Such a unified front is making, and will make every year more, a tangible difference in Africa's striving for a universal and sustainable energy access: let's keep on feeding the flame together.



Roberto Vigotti

Secretary-General of RES4Africa Foundation



RES4AFRICA FOUNDATION

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