



Webinar

Climate Change and Renewable Energy in Zambia

7th October, 2020

Promoted and organized by





Context

Recently the effects of climate change have become apparent throughout the world with new record temperatures causing unprecedented bushfires in the Amazon and Australia. Zambia has not been spared, as recent droughts have not only become a burden to the safe and sufficient provision of electricity in the country, but also to economic growth and agricultural output.

In the face of an imminent climate crisis and aided by rapidly advancing technological progress, a trend towards the large-scale development of renewables is observed around the world. A trend that holds many benefits especially for countries that are particularly vulnerable to the effects of climate change, such as Zambia.

As the IEA predicts that around 260 GW of RES capacity will be added in Africa until 2040, representing 69% of total newly added capacity, around 1.5 trillion USD of investments in both generation and grid assets will be required. The future of Africa's energy sector will play a crucial role in the "Agenda 2063: The Africa We Want", since it will be pivotal for local sustainable development and climate change mitigation.

Being blessed with up to 3,000 hours of sunshine a year, Zambia carries enormous potential for the scale up of solar PV plants – unlocking this potential cost-effectively will be the key to providing sustainable electricity to all.

About the event

Diversifying the energy mix with variable renewables will bring cost and reliability advantages additionally to the positive climate impacts.

This webinar, promoted and organized by RES4Africa in partnership with the Embassy of Italy in Zambia, is aimed at:

- Outlining and nurturing opportunities for collaboration in the field of renewable energies, as an answer to the climate crisis; and
- Discussing financial guarantees and some of the key barriers to investments.

Following the signing of a MoU between the Italian and Zambian Ministries of Environment, expertise from both countries will create a highly fruitful knowledge exchange on climate change issues. Combining the experience and lessons learned of all stakeholders attending this event, clear messages will contribute to building blocks defining Zambia's future.

The RES4Africa Foundation has supported Zambian stakeholders in a clean energy transition since 2018 and is committed to continuing this support also in the future. The most recent collaboration between RES4Africa, Enel Foundation, CESI, the Ministry of Energy, ZESCO and ERB resulted in a RE Grid Integration Study, which assessed the maximum amount of variable renewable energy that can be integrated into the grid while maintaining its stability. The event will offer the opportunity to discuss the results of this study.



The webinar will be moderated by media personality and communicator *Joy Doreen Biira*.

10:00 Introduction and Opening Session

Climate change and the future of renewable energy in Zambia.

Welcoming remarks

Amb. Antonino Maggiore
SG Roberto Vigotti

Ambassador of Italy to Zambia
Secretary General, RES4Africa Foundation

Speakers

Hon. Emanuela Del Re
Hon. Matthew Nkhuwa
Hon. Alexander Chiteme
Amb. Jacek Jankowski
Dr. Giovanni Brunelli

Vice Minister of Foreign Affairs and International Cooperation of Italy
Minister of Energy, Zambia
Minister of National Development and Planning, Zambia
European Union Ambassador to Zambia
Director of Cooperation, Italian Ministry of Environment, Land & Sea

10:45 Session 1 – The integration of variable RES in the grid of Zambia - barriers and trends

The study, carried out by RES4Africa and Enel Foundation, developed by CESI in close collaboration with the Ministry of Energy, ZESCO and ERB, assessed the maximum amount of variable RES capacity that can be integrated until 2025 and 2030 without compromising the stability of the network.

Speakers

Mirko Armiento
Andrea Prudenzi
Trevor Kaunda

Senior Researcher, Enel Foundation
Project Manager, CESI
Permanent Secretary of Ministry of Energy Zambia

11:15 Session 2 – Scaling up investments in Zambia: financial opportunities for foreign direct investment

This session will center around de-risking instruments designed to enhance private investment in Zambia's renewable energy sector. The accounts from Enel Green Power and ZESCO will explore factors enabling the success of the World Bank Group's Scaling Solar programme in Zambia, and will be followed by an introduction to the European renewAfrica Initiative focusing on the importance of such de-risking instruments.

Speakers

Fidelis Mubiana
Kachinga-Wankunda Phiri
Luca Matrone
Christopher Saunders
Matthias Reusing

Director Generation, ZESCO
Senior Business Developer Zambia, Enel Green Power
renewAfrica Finance Leader/Global Head of Energy Intesa Sanpaolo
Energy Portfolio Manager for Zambia and Zimbabwe, World Bank
European Union Delegation

11:45 Questions & Answers

11:50 Closing Remarks

Giuseppe Montesano
SG Roberto Vigotti
Amb. Antonino Maggiore

Deputy Director, Enel Foundation
Secretary General, RES4Africa Foundation
Ambassador of Italy to Zambia



Who we are

The **RES4Africa Foundation**'s mission is to create an enabling environment for renewable energy investments in African countries to meet local energy needs. Renewable energy is fundamental for Africa to achieve its inclusive and sustainable development. As a private sector and member-driven organization, the RES4Africa Foundation functions as a bridge between its members and partners for an exchange of perspectives, initiatives and expertise.

The RES4Africa Foundation functions as a lever for change: it contributes to creating the policy and regulatory environments necessary to expand sustainable access to renewable energy in Africa. The foundation works to foster energy demand, and help shape new strategic initiatives to accelerate investments in the RE sector.

The RES4Africa Foundation operates through three workstreams:

- **Pillar 1 - From goals to policy:** Promote policy dialogue and deliver advisory services to countries on what it takes to enable RE investment;
- **Pillar 2 - From policy to action:** Spearhead strategic initiatives to catalyze innovative market solutions;
- **Pillar 3 - From action to skills:** Build capacity to empower people, create business, and transform institutions.

The RES4Africa Foundation remains committed to deepening and expanding its key characteristics, namely:

- Technology-neutrality, bilateral and multilateral approach;
- Agile, multistakeholder, flexible and member-driven operational model;
- Transparency & openness of its products and knowledge;
- Neutral platform for public-private dialogue and cooperation.

The RES4Africa Foundation gathers a network of members from across the RE value chain including industries, agencies, utilities, manufacturers, financing institutions, consultancies, legal and technical services providers, research institutes, and academia. The added value of being a member-driven association lies in the fact that the network gathers broad renewable energy public-private sector perspectives and expertise.