



RES4MED&AFRICA

Renewable Energy Solutions
for the Mediterranean and Africa



WHO WE ARE

RES4Med&Africa promotes the deployment of renewable energy solutions in Southern Mediterranean and Sub-Saharan African countries to meet local energy needs for sustainable growth.

Since 2012, RES4Med&Africa pursues its mission to create enabling environments for renewable energy investments in emerging markets by focusing on 3 core activities: fostering dialogue and strategic partnerships, sharing knowledge and expertise, and building capacity and skills.

MISSION

A savanna landscape at sunset. The sky is a warm, golden yellow. In the foreground, three zebras are grazing on green grass. In the middle ground, four giraffes are standing, looking towards the right. In the background, there are several large, acacia-like trees with silhouetted branches against the bright sky.

RES4Med&Africa aims to create an enabling environment for renewable energy investments in Southern-Mediterranean and Sub-Saharan African countries.

THE CONTEXT

Why renewables?

Renewable energy technologies have become the most affordable, reliable and sustainable energy solution for developing markets. Accelerating their deployment can match increasing energy demand and enhance access to clean energy, drive economic growth, create jobs, and foster sustainable development.

Why the Mediterranean?

Southern-Mediterranean countries have a strong potential for renewable energy market development based on vast resource potential, falling technology costs, and significant growing energy demand, as well as ambitious RE targets and need to expand generation infrastructure.

Stable Power System

NORTH

Overcapacity

RES integration

Dynamic Power System

SOUTH

GDP growth

Increasing energy
demand (5-9%)

Economic downturn and energy efficiency measures slowed power demand increase

Key elements

- Sluggish demand growth
- Little investment needed in new additional capacity
- Decommissioning inflexible surplus capacity will require very high investments in the long run

Countries in a phase of political transition; rapid rising electricity demand requires solutions

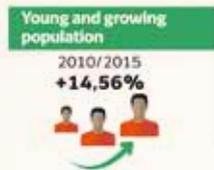
Key elements

- Strong energy demand growth (increase by 81% from 2010 to 2050)
- Population boom
- Large general investment needed in the short term

Why Sub-Saharan Africa?

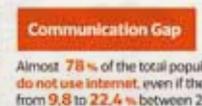
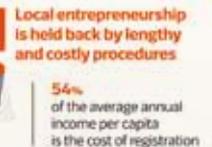
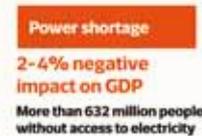
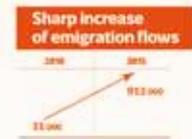
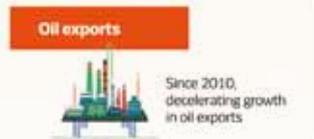
Sub-Saharan African countries are rapidly attracting attention as new RE markets thanks to the continent's dynamic economic and population growth, its wealth in RE resources and falling technology costs. Over 600 million people still live without access to energy in Africa, representing a significant residential and productive market demand for affordable, reliable and clean energy solutions.

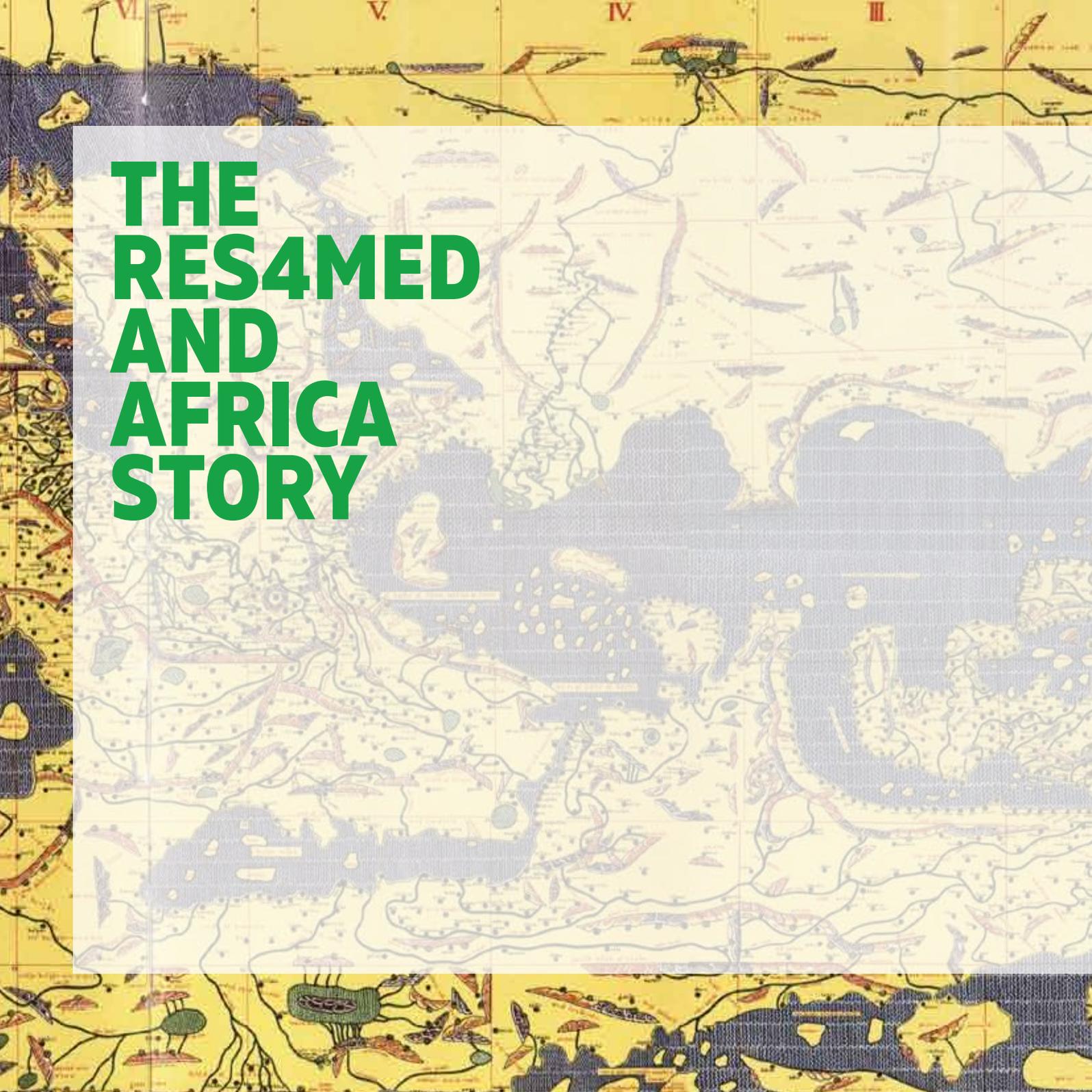
SUB-SAHARAN AFRICA: A GREAT POTENTIAL...



Map: Reuters / Global Vantage, World Bank, African Development Bank

...STILL UNEXPRESSED





**THE
RES4MED
AND
AFRICA
STORY**

In 2012, RES4Med was initiated as a leader platform for public-private dialogue in light of the vast renewable energy potential and growing energy demand of Southern-Mediterranean countries. Since then, we've promoted renewables as a cost-effective, sustainable, and reliable energy strategy to meet growing local energy demand. Contrary to the mainstream approach at the time, RES4Med introduced its signature "upside-down approach" still practiced today that highlights renewable energy solutions by encouraging direct exchange of dialogue, expertise and skills among private and public actors of both Mediterranean shores.

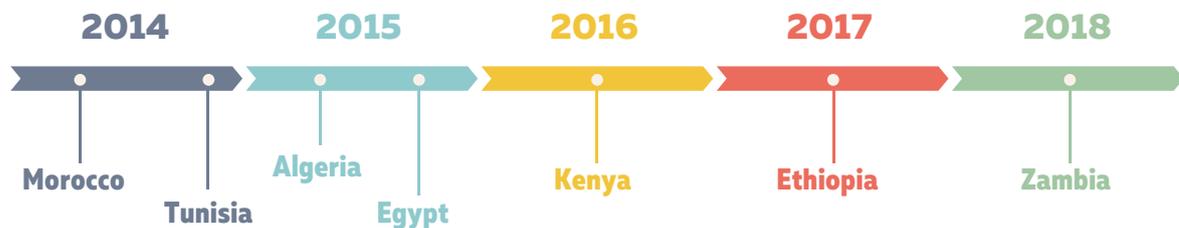
In 2016, the association's focus expanded to Sub-Saharan Africa in light of the tremendous growth opportunities for Africa's RE sector, as well as the success of its approach, with the creation of RES4Med&Africa.

Since RES4Med's expansion to Sub-Saharan Africa in 2016, RES4Africa has held Program Launch conferences in

- *Kenya (2016)*
- *Ethiopia (2017)*
- *Zambia (2018)*

shedding light on key topics for RE deployment. In addition to the country conferences, RES4Africa held a number of training sessions, such as the Micro-Grid Academy, a capacity building platform that provides trainings on energy access and decentralised renewable energy solutions, and high-level seminars addressed to business and government middle- to upper-management representatives.

Country openings



OUR APPROACH

RES4Med&Africa's strength lies in its work approach and member network:

- > We represent a **platform for exchange on what it takes to grow the next renewable energy markets** for local sustainable economic development by fostering multi-stakeholder cooperation and creating private-public partnerships.
- > We achieve impact by **leading dialogue exchange, sharing key insights** and **expertise**, and **growing talent** to foster the development of RE markets in the regions.
- > We gather a **member network from across the sustainable energy value chain** and function as a bridge between public and private actors to exchange perspectives.

RES4Med&Africa works through three work streams touching upon all the most relevant RE themes from business and financing models, to policy and regulation, socio-economic benefits, technical feasibility, innovation and sustainability.



**Public-private dialogue,
to engage in continuous
high-level and
multi-stakeholder discussions.**



**Technical support
and market intelligence,
to enable best practices
and knowledge exchange.**



**Capacity building and training,
to foster favourable institutional
frameworks and local skills.**

Connecting platform for dialogue and strategic partnerships

RES4Med&Africa is at the **forefront of initiating dialogue and connecting stakeholders** to enable an exchange of perspectives and pave the way for strategic cooperation initiatives to unlock the potential of renewable energy markets.

Our flagship activities are:

- **Annual Conference:** RES4Med&Africa's annual event gathering members, partners and network for a discussion on a specific theme.
- **Business-to-Government (B2G) workshops:** sharp high-level sessions in focus countries with public and private leadership on what it takes to grow renewable energy markets.
- **Programme launches in focus countries:** RES4Africa launches bilateral and multilateral relations during high-level conferences (Kenya, Ethiopia, Zambia).
- **Flagship publication:** yearly high-level institutional publication on a pre-determined theme in parallel with the Annual Conference.
- **Institutional relations and partnerships:** bilateral and regional partnerships for local market access, and international relations to contribute to the global renewable energy agenda.



Work stream 1

Technical support and market intelligence

RES4Med&Africa promotes the acceleration of renewable energy solutions in Southern-Mediterranean and Sub-Saharan African countries by **sharing members' expertise and know-how with partners and stakeholders** through technical assistance and market insights on key technical, policy and business issues. Our key products include:

- **Market development reports:** including topics such as business models for decentralized RE solutions in Sub-Saharan Africa, grid integration studies (Algeria/Kenya), auction studies (Algeria/Tunisia), market liberalization studies (Morocco), job creation studies (Tunisia), country profiles, clean energy transition and decarbonization studies, etc.
- **Position papers:** collection of technical and business papers that serve as input to the country launches eg. Kenya in 2016, Ethiopia in 2017, Zambia in 2018.
- **Strategic initiatives:** RenewAfrica, RES4Med&Africa's proposal for a new European financing facility seeking to mitigate renewable energy project risks in Africa and to set up a one-stop shop for investors.

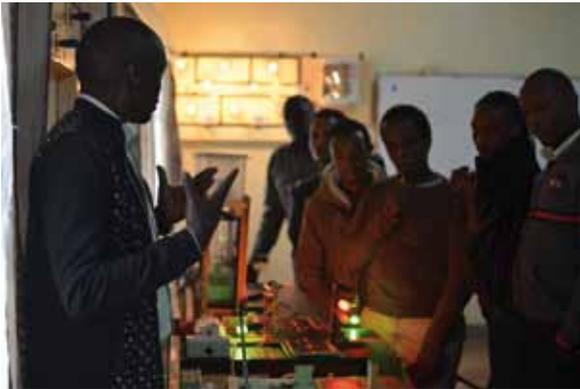


Work stream 2

Capacity building and training

RES4Med&Africa supports the development of new renewables' job markets by leading capacity building and needs-based training activities to **enable skills, knowledge and capabilities transfer** that support the long-term creation of local markets. Our key training initiatives are:

- **RES4Med&Africa Advanced Training Course (ATC):** since 2014 the association's annual two-week training course with over 5 editions and with more than 100 trainees from Mediterranean and African companies and institutions.
- **RES4Africa Micro-Grid Academy:** a regional Sub-Saharan Africa training initiative to grow capacity for local ownership of decentralized renewable energy solutions.
- **High-level Executive and Technical Seminars:** tailored technical and institutional seminars for executives from focus countries' institutions and companies on the state of the art of renewable energy technologies, policies, finance and projects.



Work stream 3

**WHAT
WE HAVE
DONE
SO FAR**





MOROCCO

- 3 local events
- 1 B2G
- 2 special sessions within Italian event
- 1 executive seminar with local stakeholders
- Studies
 - energy transition roadmap 2030/50
 - liberalization study
- 1 country report (and updates)
- Survey on investment risks
- 28 participants to ATC



ALGERIA

- 2 executive Seminars with local stakeholders
- 1 special session within Italian event
- Studies:
 - job creation
 - auction analysis
- 14 participants to ATC



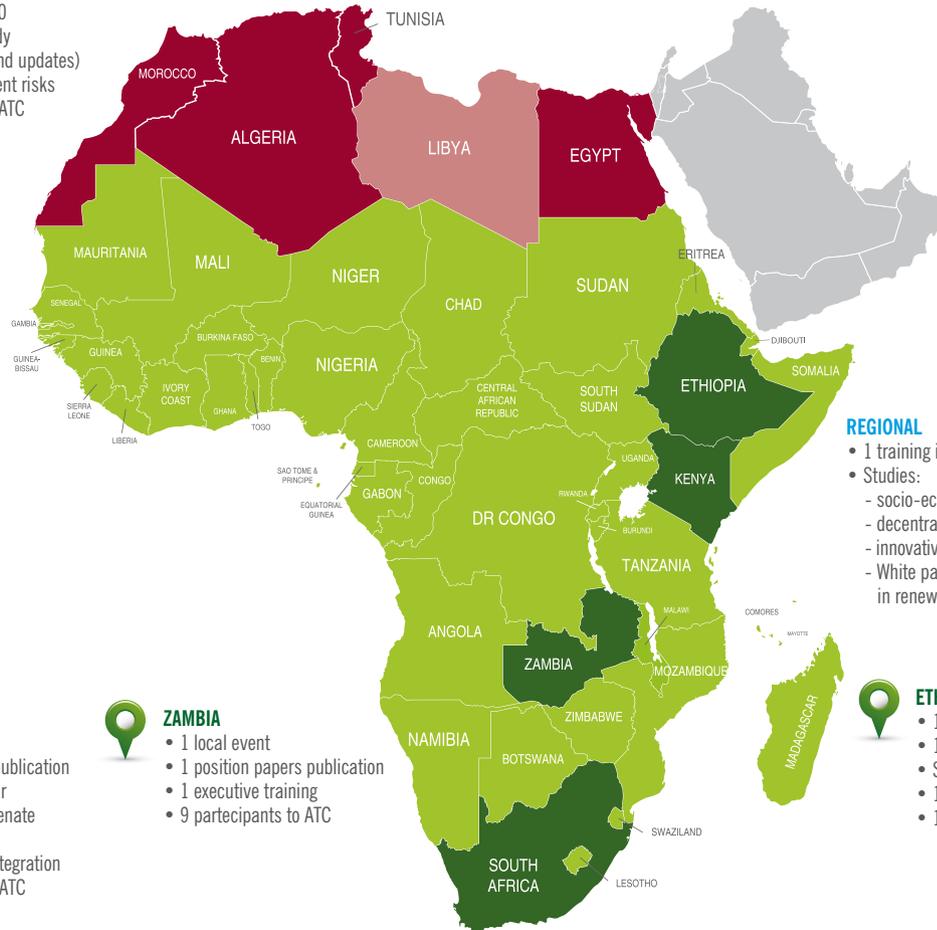
TUNISIA

- 1 local event
- 1 executive seminar
- 1 country profile
- Studies:
 - job creation
 - auction analysis
- Survey on investment risks
- 15 participants to ATC



EGYPT

- 1 local event
- 1 B2G
- 1 country Report (and updates)
- Study on project finance
- Survey on investment risks
- 21 participants to ATC



KENYA

- 2 local events
- 1 position papers publication
- 1 executive seminar
- 1 visit of Kenyan Senate delegation to Italy
- Study on RE grid integration
- 19 participants to ATC



ZAMBIA

- 1 local event
- 1 position papers publication
- 1 executive training
- 9 participants to ATC



ETHIOPIA

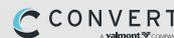
- 1 local event
- 1 position papers publication
- Study on RE grid integration
- 1 executive training
- 12 participants to ATC

REGIONAL

- 1 training initiative (MGA)
- Studies:
 - socio-economic study on Western Africa
 - decentralized RE solutions in Africa
 - innovative business models to power Africa
 - White paper on where to invest in renewables in Sub-Saharan Africa

OUR MEMBERS

We gather a member network from across the clean energy value chain including industry, agencies, utilities, manufacturers, financing institutions, consultancies, legal and technical service providers, research institutes and academia, representing a wealth of expertise and local experience.



Università Commerciale Luigi Bocconi

OUR PARTNERS

We also count on a large network of partners, such as international organisations, regional or local authorities, think tanks and academia to ensure solid market understanding and enhance our activities local impact.



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FOR THE MEDITERRANEAN

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