

"Migrazioni e Sviluppo"

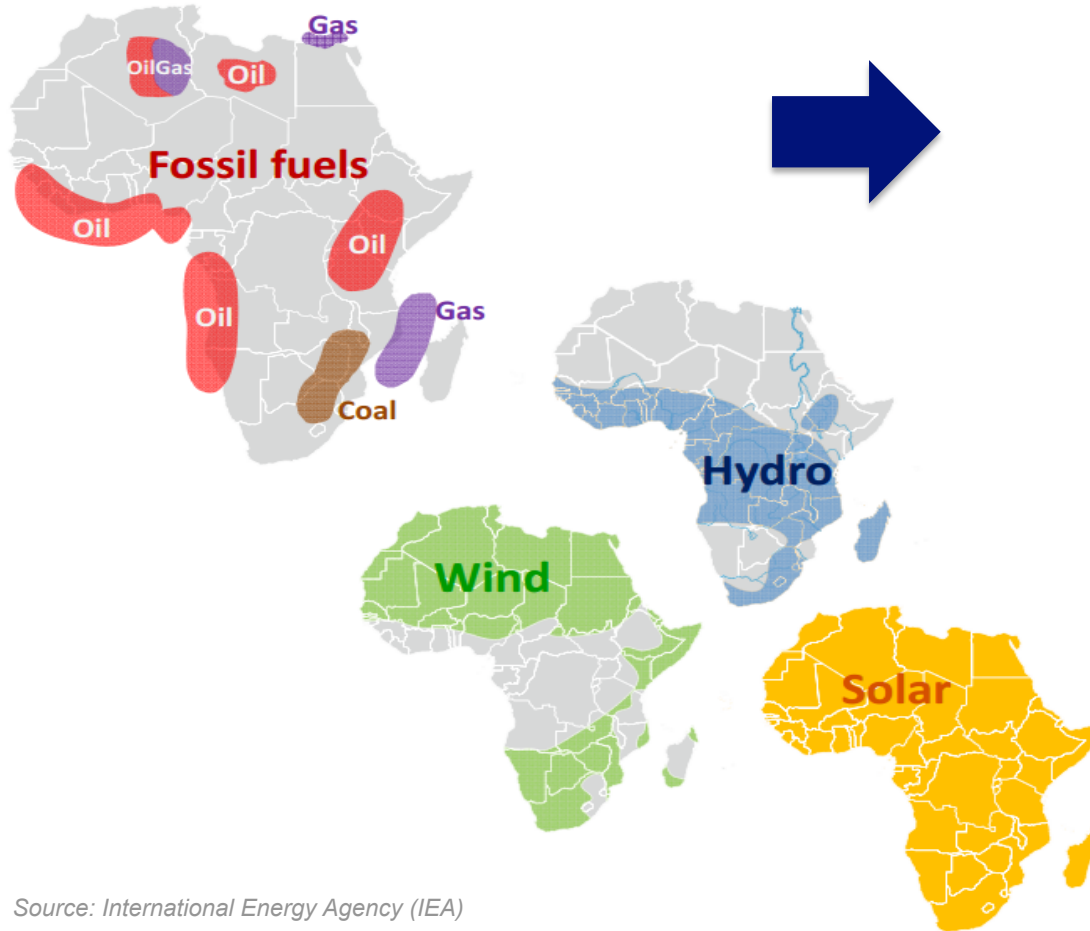
Ministero degli Affari Esteri e della Cooperazione Internazionale

***Empowering Africa through innovation,
green tech solutions and capacity building***

Roberto VIGOTTI, *Secretary General RES4MED/RES4Africa*

Roma, 10th April 2017

Africa energy resources: potential vs. supply



African continent is very rich in resources

In the last 5 years, almost 30% of global fossil fuel discoveries were made in sub-Saharan Africa.

The region has vast untapped renewables potential, notably hydro & solar.

Moreover, Africa is home to the majority of the world's unutilized agricultural land.

Africa energy resources: potential vs. supply

...but poor in supply!

In sub-Saharan Africa, 620 million people – two thirds of the population – live without electricity.

Only a handful of countries have electrification rates above 50%.

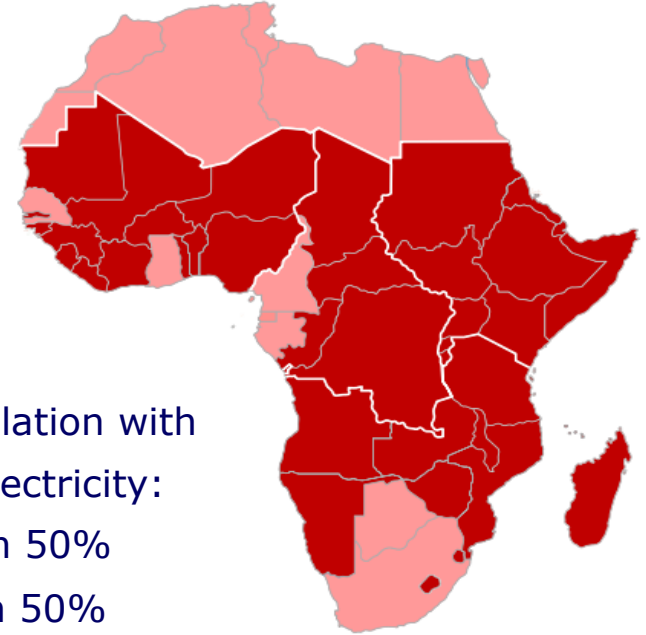
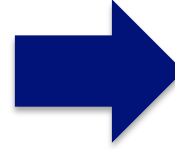
Electrification rate:
Urban vs. Rural



63%



19%



Africa labor: potential vs. supply

**Africa is the youngest continent
and one of the fastest growing
regions**

Every year

11 MILLION



young Africans will join the labor
force over the next decade



Niger is Africa's, and the world's, youngest
country with a median age of just
14.8 – exactly half the global figure
of 29.6 years.

**but Africa lacks
skilled labour force**

Gross enrolment ratio for tertiary
education is still growing too slowly



Africa's real size

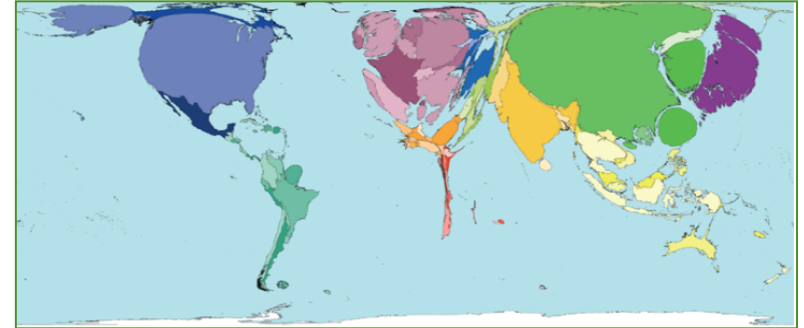
Africa if measured by...

1) Other countries

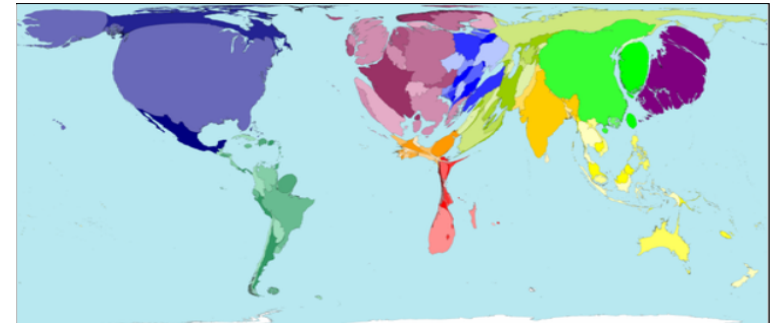
(China, USA, India, Mexico, Peru, France, Spain, Sweden, Japan, Germany, Norway, Italy, New Zealand, United Kingdom)



2) Wealth



3) Electricity production



Side Event to G7 Energy Ministerial 2017



Africa 2030: Empowering the continent through innovation, green tech solutions and capacity building

Under the Auspices of the Italian G7 Presidency



Photo exhibition "Next Africa" Riccardo Venturi



Exhibition "Litter of light"

Side Event to G7 Energy – *Deliverables*

- 1) Eight position papers: *"Deploying renewable energy in Africa: What does it take?"*
- 2) White paper: *"Beyond energy approach for sustainable deployment in Africa"*



Free download of both papers available at
<http://www.res4africa.org>

Africa's sustainable energy transition

Africa's transition to sustainable energy requires both:

- appropriate enabling **policy and regulatory frameworks**;
- **bottom-up innovation** dynamics and business models.

Supporting the creation of a favourable business environment will help bring about **innovative and sustainable, locally-grown solutions**.

Off-grid renewable energy solutions can be **deployed faster and cheaper** compared to grid extension, and they offer **greater resilience**, provide leapfrog opportunities for energy access, and can significantly improve African livelihoods.

The objective should be to strengthen **multi-stakeholder collaborations** among **private sector actors, African institutions, innovative local start-ups and civil society** to ensure the continuation of Africa's innovative development.

Africa's sustainable energy transition

Moving forward requires **new approaches to capacity building** and empowerment, and a **different perspective on effective project planning** and impact evaluation analyses.

Empowering human capacity must be considered among the key elements for responding to the **local needs, capabilities, and aspirations of people**, and should be **absorbed within the local culture**.

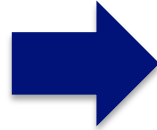
A more **comprehensive approach that covers the whole supply chain** of renewable energy project delivery is required.

Importance of African-led initiatives and action: coordination of international initiatives and activities and in-depth consultation with local stakeholders is crucial for the effective deployment of sustainable energy solutions.

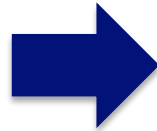
Innovation: new business approaches



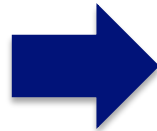
Rents houses it does not own



Rents cars it does not own



Sells products it does not own



Manages contents produced by others

New business approach in energy

PRIVATE SECTOR

The private sector provides more than just products or services. Guided by an exploratory framework, it **analyses the community needs and its growth potential** in depth. By adopting a holistic approach, the private sector creates solutions that are tailored to the needs of the local communities. This in turn **creates jobs and local development opportunities.**



Empowered with new skills, technology and services, the local community can start new economic activities and improve the productivity of existing ones. This in turn **creates increased demand for companies' products and services** in a sustainable way.

LOCAL COMMUNITY

RE-powered Community Business Hub



Next events – RES4MED/RES4Africa

RES4MED Annual Conference

22 May, 2017
Rome, Italy

Annual RES4MED Conference and 5th anniversary of the association, with a look back on RES4MED's activities and results, including a specific focus on the role of sustainable energy innovation to empower Africa.

RES4Africa Ethiopia Day

3-4 October, 2017
Addis Abeba, Ethiopia

RES4Africa organizes a local workshop in a new East-African country (Ethiopia), to highlight renewable energy markets, foster a dialogue between local stakeholders and RES4Africa members, and generate a deeper understanding of local needs to propose concrete solutions.

East African REX-EXPO & Innovation Competition 2017

29-30 November, 2017
Nairobi, Kenya

RES4Africa organizes an East-African regional conference and exhibition to foster a dialogue on the latest insights for the deployment of RE solutions in Eastern-African countries, building on and scaling the of the RES4Africa Program launch in Nairobi of October 2016. The conference will also include a special focus on innovative clean tech solutions in Africa.

Today's take-away



Thank you!

RES4MED – RES4Africa

Address: via Ticino 14, 00198

Rome Italy

Tel. +39 06 8552236

Roberto.vigotti@res4med.org

www.res4med.org

www.res4africa.org



Roberto VIGOTTI

Secretary General

RES4MED