

African Forum of Renewable Energies

First edition – 2016



Tangier - Morocco
July 13th, 14th and 15th, 2016

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KARROUM CONSULTING

Concepteur et producteur du forum

African Forum of Renewable Energies AFER 2016

Tangier

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"More recently, fed by the same approach that favors a long term plan, the Kingdom of Morocco has become one of the major actors of the energy transition in the world, especially on the African Continent.

Thus the objective of 42%, which has been set for the share of renewable energy in the response to our needs in 2020, has recently been increased to 52% in 2030. For its ambitious and substantial character, given the expected contribution of Morocco to the United Nations Framework Convention on Climate Change, this confirms this pioneering approach of the Kingdom.

With this irreversible commitment, Morocco is a candidate for the organization in Marrakech in 2016, the COP 22.

This is the meaning of the call of Tangier that I launched jointly with His Excellency President François Hollande, on September 20, confirming the commitment to work hand in hand for the success of these crucial appointments to our future destiny.

The steps can be, in fact, chaining and the road will be long because habits are changing, priorities are set, technologies are invented and regular balance sheets must be accepted,"

A sample from the speech of His Majesty King Mohammed VI on the occasion of the opening of the COP 21 in Paris November 30, 2015.



Forum Presentation AFEER

From 13 to 15 July 2016, the City of Tangier will host the first edition of the African Forum for Renewable Energy "AFER Forum 2016". In a very optimistic context in Morocco, Africa and the rest of the world consider the COP 22 to be held in Morocco.

"AFER Forum 2016" is the event that mobilizes Africa and all stakeholders of renewable energy. 60-80 recognized speakers - experts, institutions and Moroccan international economic and social actors come together on renewable energy and development in Africa. This chosen theme fits perfectly with the commitment of Morocco to the African continent, the environment and within the framework of south-south cooperation. During two plenary sessions, there will be six thematic conferences and workshops, discussions and exchanges around the African potential, opportunities and barriers, pioneering projects, success stories and testimonials related to Morocco or elsewhere, creating bridges and synergy between African countries sharing the same ambitions and the same concerns.

The COP21 to COP22 (COP rally two) energy transition, new solar, financing of renewable energy projects, technologies, research and expertise ... will be among the key themes to be discussed at the conference cycle.

In parallel, an exhibition will take place to enable the institutions, private and public companies, associations and organizations to present their products and services, knowledge and expertise as well as projects. The potential of the forum is the possibility of targeted B-to-B meetings to foster direct contacts and to develop partnerships, to enhance their expertise with industry professionals. It will also be an opportunity for them to be aware of new developments in this sector.

On the sidelines of the AFER Forum, a competition will be launched for the benefit of holders of African projects in renewable energies (solar, hydro, wind, biomass and geometric). A prize will be awarded to the best project.



Why AFER Forum?

Renewable energy is increasingly recognized as one of the foremost needs not only to address climate change, but also for sustainable development in general. In addition, it is regarded as an opportunity for developing countries to adopt a more decentralized approach to energy supply and to be greener than industrialized countries. With approximately 1.6 billion people who have no access to modern energy services in the world, the decentralized options available with renewable energy could, quickly and cost effectively, make positive impacts on health, productivity and education. For these reasons, access to energy is often considered the "missing Millennium Development Goals (MDGs)" because without access to energy, many of the MDGs could not be achieved.

As a result, interesting international dialogues are increasingly necessary to expand production and access to renewable energy globally.

Why Africa?

There is no need to imagine because it is no longer a dream. Nor do you have to worry about the environmental impact related to energy resource development in Africa, as has been the case in China and India.

"We are ready to take our part in the international effort to reduce emissions of greenhouse gases, by providing us with clean energy. But we need help." This is essentially the message that African delegations wanted to pass during the COP21. A message summarizing the problems to which the continent's governments face. Even today, one in two Africans is connected to any functional electrical network. In 2012, according to figures from the World Bank, only 6.5% of Burundians, 13.1% and 55.8% of Burkinabe Ivoirians were connected to a conventional power grid.

One in two Africans has no access to electricity. A serious deficiency which is also an opportunity. Because the continent could be equipped with technologies exploiting renewable energy sources and thus contribute to the fight against global warming without sacrificing economic development.

The population of Africa is growing and with it the demand for domestic and institutional energy, including electricity. To cope with this fact, Africa has significant renewable energy sources, yet access to the grid remains low, especially in rural areas. But despite its potential in clean energy, Africa has significant energy deficits, resources are often poorly exploited. One African in two has no access to electricity. According to Irena, the International Renewable Energy Agency, energy production has to "at least double" by 2030 to support the development and meet demand, and "even triple" for electricity.

Although Africa contributes only by 4% to the emissions of greenhouse gases, it will suffer the brunt of the consequences of global warming; secondly, if Africa were benefiting from

significant energy resources, their exploitation would significantly reduce fuel poverty on the continent.

The agreement reached in December 2015 as part of the international conference in Paris on the COP 21 climate recalls "the need to promote universal access to sustainable energy in developing countries, particularly in Africa by strengthening the deployment of renewable energy. "

Africa is endowed with considerable renewable energy resources, fully exploited, and this can transform the image of Africa from a continent suffering from widespread poverty to an economic power capable of stimulating the overall World economy.

Take into account the following:

Africa:

- *The African population is continually increasing and will reach the milestone of 2 billion by 2050;*
- *Africa has one of the highest growth rates in the world with an average of 4.4% over the past 5 years and it is expected that this growth will be maintained or even increased in the next 10 years;*
- *Despite this enviable growth rate, one in three Africans (approximately 600 million people) has no access to electricity. In sub-Saharan Africa, two-thirds of the population has no access to energy and this percentage is even higher in rural areas; and*
- *Those who are fortunate enough to have access to electricity pay a price three times higher than consumers in the US and Europe!*
- *Africa is a market of 2 billion consumers that can transform the world economy in the long run!*
- *Africa has the best renewable energy resources in the world. In addition to its considerable potential for hydroelectric and geothermal generation, the continent has abundant solar radiation throughout the year and the experts unanimously confirmed that wind energy is exploited on a large scale.*
- *Renewable energy sources, increasingly affordable, could outstrip fossil fuels and contribute to the continent's economic growth*



- According to the The World Bank, Africa would need an annual contribution of 7 GW of electricity generation to meet the growing demand for electricity, while only 1 GW is actually added each year. Thus, renewable energy related technologies can - and should - play a key role to fill the energy deficit in Africa.

- 15% of energy consumption in Europe come from the production in Africa

Morocco :

- His Majesty King Mohamed IV conveyed his instructions to the various stakeholders so that the management of renewable energy, including solar, wind and hydro, is now provided by MASEN. The convergence of governance of the energy sector in the Kingdom lies in the development of renewable energy, in line with the objective of raising the share of renewables in the national energy mix to 42% in 2020 and to 52% in 2030

- Morocco has confirmed its position in energy transition.

- Morocco aims to provide institutional and economic means to strengthen national actors so that the objectives announced are kept and that the expected synergies will meet the outlined strategic vision.

- Morocco faces two major energy challenges: energy independence (the country depends on 97% from abroad for its energy supply) and increasing demand (6 to 8% of annual electricity needs increase since 1998).

- Morocco is "a real window of a North-South partnership" in the renewable energy sector, with particular reference to its "engine" role in the development of renewables in Africa

- Morocco has launched its national development program of renewables in its global and integrated vision of the governance of the national energy sector



Competition for the best African project in renewable energies: Price of AFER-2016

Renewable energy is undoubtedly a boost for development in Africa and there is a challenge for project developers in Africa, benefiting more and more initiatives of international and regional organizations but also the participatory financing for entrepreneurship in the clean energy sector. Renewables could cover by 2030 a quarter of the energy needs of the African continent, against the current 5%. Clean energy is a potential for development because it is economical and the competitive prices of solar and wind power make the development of these energies profitable.

There is an opportunity and a challenge for African entrepreneurs, who are often best placed to identify local needs and create tailored solutions. Moreover, the emergence of SMEs / SMIs is an economic development tool for sub-Saharan Africa in particular.

However, young project leaders face many constraints: difficult access to funding, lack of operational support, lack of technology, complexity of the socio-economic environment, and low support during critical phases of creating start-ups.

The Forum 2016 AFER wants to encourage entrepreneurship in this field at the Moroccan and African level by launching this competition, which aims to select and reward the best project in this area.

Date and Place:

The African Forum for Renewable Energy (AFER Forum) will be held in Tangier from 13th to 15th July 2016.

Main Objective:

AFER Forum provides a space for:

- *Gathering experts, economic and social actors, public and private companies, institutions and governmental and nongovernmental organizations in Africa.*



- *Presenting the Moroccan example as a pioneer in this field: Ouarzazate has become the African capital of solar energy after the inauguration of Noor project by His Majesty King Mohamed IV.*
- *Establishing a step in the preparatory process of the COP22 to be held in November 2016 in Marrakech / Morocco*
- *Enabling participants to explore the development opportunities offered by renewable energy and introduce the potential of their country to find investors*
- *Exposing together to build bridges between African countries in the field of renewable energy;*
- *Sharing our ambitions, our barriers and our worries,*
- *Contributing to the efforts for development through renewable energy*
- *Developing trade and business connections between African economic operators*
- *Encouraging investments in various renewable energy sectors*
- *Discovering concretely new technologies and innovations in energy,*
- *Sharing success stories across the continent*
- *Creating a platform for African operators of renewable energy*
- *Producing, parallel to the exhibition, a place for meetings, discussions and exchange of experiences,*
- *Bringing together policy makers in the "field", managers, user representatives through open dialogue and sustained exchange between actors,*
- *Encouraging young people to get interested in this new unexploited field*
- *Building bridges between water stakeholders, NGOs, scientific associations, expertise and researchers*
- *Contributing to the achievement of the Millennium Development Goals*
- *Becoming a regular meeting.*

The debates

During the Forum, discussions will be organized around the following axes:

- *The potential of the African continent: situation and prospects*
- *Link between economic development and renewable energy*
- *Entrepreneurship in the field of renewable energy*
- *Energy deficit in Africa and its dependence*
- *The South-South cooperation in renewable energy*
- *The obstacles faced by African countries in this area*
- *Funding and investment in renewable energy*
- *The institutional and regulatory framework*

The targets

Exhibitors:

Any Moroccan, African, Mediterranean and foreign entity operating in the renewable energy sectors, namely:

- *Private and public enterprises*
- *Agencies and governments*
- *SMEs*
- *Non-governmental organizations*
- *Organizations and institutions supporting sustainable development*
- *Projects and programs*

- *Capacity building of institutions: research, information, new technologies, monitoring, etc*
- *The sectoral trade associations*
- *Local authorities and representative organizations*
- *Chambers of commerce, agriculture and industry.*

Visitors:

AFER Forum will host:

- *Professional visitors, namely:*
 - *Moroccan and foreign companies*
 - *Policy makers*
 - *Distributors, suppliers and business representatives*
 - *International organizations*
 - *Investment and Donors*
 - *The elected*
 - *Rural representatives*
- *National and international media*

Frequency

The Forum AFER will be held annually in Tangier, the gateway to Africa

Organizers

The company "Karroum Consulting", a Moroccan law firm based in Fez, is the creator and producer of the "Forum AFER." The Forum Coordination is provided by an organizing committee led by Miss Loubna KARROUM.

Funding

All activities related to the preparation (event equipment, booth rental and monitoring of AFER Forum) are funded by Moroccan grants and foreign sponsors.



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