



AFRICAN UNION COMMISSION (AUC) ENERGY PRORAMMES

Presented by Philippe NIYONGABO

Head of Energy Division Department of Infrastructure and Energy , AUC



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Africa-EU Energy Partnership

2020 Political Targets Energy access Bring access to modern and sustainable energy services to at least an additional 100 million Africans







2020 Political Targets Energy Security

Double the capacity of cross border electricity interconnections, both within Africa and between Africa and Europe

Double the use of natural gas in Africa, as well as doubling African gas exports to Europe

Bring the current flared gas to the market









Build 10,000 MW of new hydropower facilities







Build 5,000 MW of new capacity in wind farms







Build 500 MW of new capacity in solar energy









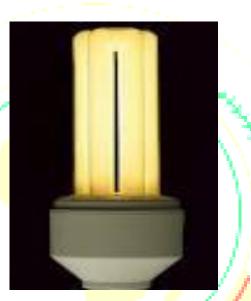


Triple the capacity of the other renewable energy resources





Improve energy efficiency in Africa in all sectors, starting with electricity sector









Renewable Energy Cooperation Programme (RECP)

Objectives of the programme

- Accelerate the use of renewable energy in Africa
- Make Africa a prime destination for renewable energy
- Expand renewable energy in energy mix
- Increase energy access through renewable energy
- Increase energy security
- Foster private sector cooperation between Africa and Europe





RECP – Implementation and Institutional Set-up Timeframe 2010-2020

Three-year Start-up Phase (2011-13)

Implementation by EUEI PDF jointly with AFD

Financing

 Financing for Start-up Phase (2011-13) provided by European Commission for 5 M euros

Institutional Set-Up

- Joint Experts Group (JEG) of the AEEP
- Monitoring and Evaluation System
 - Provide political guidance and tools for RECP implementation



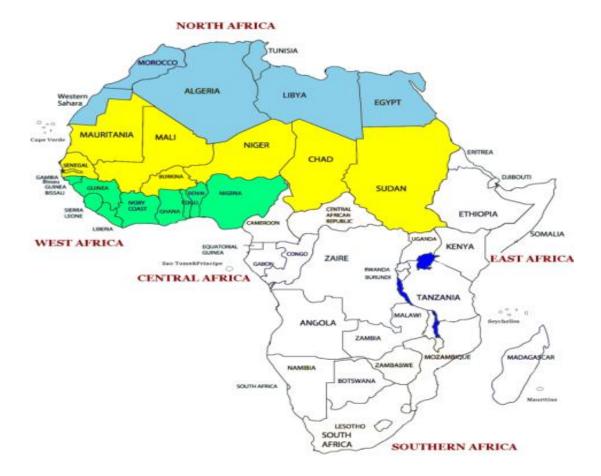


- The 14th AU Summit mandated the AU to prepare a study for exploitation of the solar energy potential in Sahara;
- The first phase of the study for Sahara and Sahel region was completed and validated;
- The outcomes of this study presented at the CEMA Ministerial Meeting in Maputo, November 2010;
- The executive summary of the study adopted at the AU January 2011, Summit;
- The second and third phases of study are on going for Kalahari and Ogden deserts ; to be completed end 2012;





SOLAR ENERGY STUDY, 1st Phase





Main Findings



- The study estimated that the average cost of energy produced by CSP is expected to be in the range of 10 to 15 US¢/kWh by 2030 and reduced to 5 to 7 US¢/kWh by 2050 depending on the geographical location;
- All of the countries analyzed in this study could achieve a full electrification status as early as 2035 (by 2040 as latest) through the proposed plan of disseminating Concentrating Solar Power (CSP) and other renewable energy technologies;
- The countries of North Africa could achieve the vision of exporting electricity to Europe by 2030;
- The study estimated that the deployment of CSP and other renewable energy technologies will directly support the efforts of preserving the environment and contribute to abatement of millions of tons of CO2 and other greenhouse emissions.
- The deployment of CSP and other renewable energy technologies in the region will accelerate the integration of electric systems among the countries in the region and between Africa, Europe and the Middle East.



REGIONAL GEOTHERMAL PROGRAMME FOR EARS



- The Ministers of Energy from the 11 countries of the EARS gave mandate to AUC by the Addis Ababa Declaration for Development Geothermal Regional Programme (June 2009);
- Action Plan and Road map Adopted to accelerate exploitation of geothermal energy resources in the Eastern Africa Countries;
- Published geothermal report on status, strategy, gaps and required support programmes.
- About 40 representatives of Eastern Africa countries trained on Geothermal Policy development and harmonization;
- Establishment of Geothermal Risk mitigation Facility, Dec. 2011.





50 M GEOTHERMAL RISK MITIGATION FACILTY FOR EASTERN AFRICA COUNTRIES









To encourage public and private potential investors to develop geothermal power generation by providing grants; To support initially 5 targeted countries of the EARS: Ethiopia, Kenya, Rwanda, Tanzania and Uganda; To mobilize additional funds.





SIZE AND TIME FRAME OF THE FACILITY

- The initial size of the FACILITY is € 50 M;
- KFW provided

 20M grant funding and 30 M
 from Africa-EU Infrastructure Trust Fund;
- AUC provides budget for the Coordination Unit (Secretariat of the GRMF and the Regional Program)
- Time frame of the fund is for 4 years starting from March 2012;
- •First applications for grant for surface exploration and drilling launched on 17th October 2012.





A join AUC-UNECA study was carried out on Bioenergy Policy Framework and Technology Options in Africa:

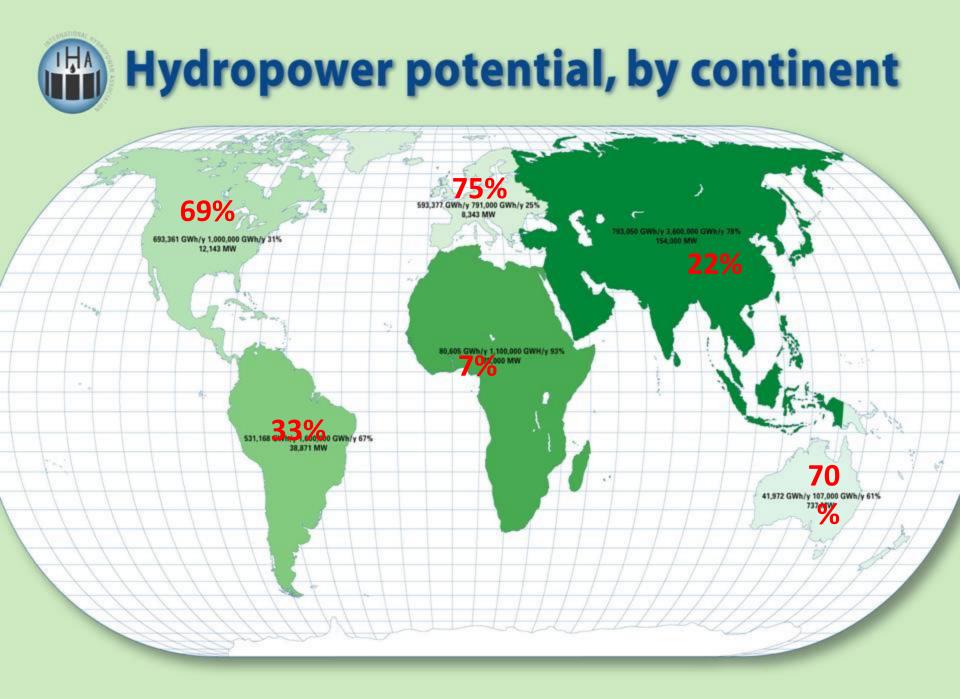
A stakeholders' validation workshop took place from 21 to 23 November 2011 at the United Nations Confer-ence Centre, UNCC, in Addis Ababa, Ethiopia.





The main outputs of the Experts Group Meeting:

- Modern bioenergy development can help enhance energy access particularly in rural Africa;
- The need to develop a continental policy and regulatory frame-work;
- Bioenergy policies and strategies need to be based on science and be developed through processes that engage stakeholders;
- The key outcome of the meeting will be a refined draft of Africa's Bioenergy Policy Framework and Guidelines.





Hydro 2020 Programme



Africa has huge hydropower potential estimated to 300 GW most of them concentrated at the four major rivers basin: Congo, Nile, Niger and Zambezi; only 5-7 %of hydropower potential of the continent have been exploited;

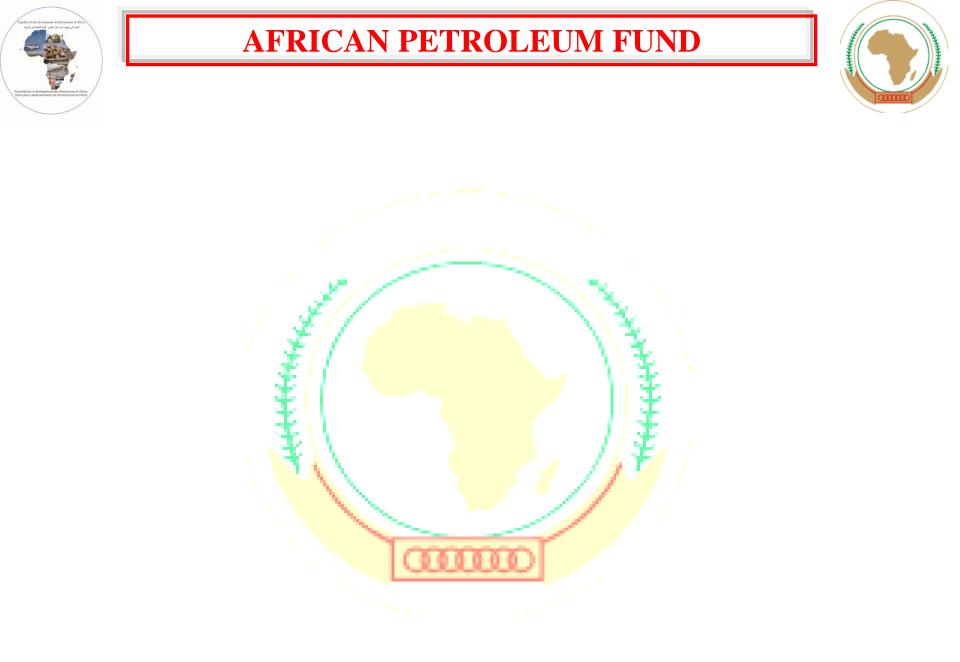
Continental Policy in Hydro and Strategy for the development of Major Hydropower projects developed by AUC and stakeholders validation workshop organized;

PPP Guide developed by AUC for Inga site projects.





- PIDA covers 4 sectors: Energy, Transport, Information & Communication Technology (ICT) and Water (Trans- boundary).
- To be implemented in two major steps: study step and implementing steps of the results of the study.
- PIDA is a programme dedicated to facilitating continental integration through improved regional infrastructure





African Petroleum Fund



Expected outputs	ACHIEVEMENTS	REMARKS
*Organization of a roundtable for donor : 30,000 \$	 Strategy developed 	There is no fund available to organize training workshop to
Campaign of funds mobilization : 30,000 \$	 Lack of funds for Task Force set up and recruitment of experts team 	the member country on the Model of the APF, and regional Meetings of the JTF
Capacity Development	 No achievements 	Group Supplementary budget was requested but not approved .



African Petroleum Fund



2011 PROGRAM/BUGGET	CHALLENGES	
Organization of a roundtable for donorCampaign of funds mobilization	Political will to contribute to APF resources	
 Participation to the organs meeting of the APF 	 Availability of funds 	





Thank you

Philippe Niyongabo: Head of Energy Division E- mail : niyongabop@africa-union.org Web Site: www.Africa-Union.org