



# Addressing Energy poverty in Africa

**G8** Ministers Meeting 2009  
24-25 May

Mr. Gilbert Mbeshherubusa  
Director Infrastructure



## **Outline:**

- 1. Key challenges & Opportunities***
- 2. Infrastructure Investment in Africa***
- 3. Way forward***



## Africa's Energy resources (Potential)

Energy resources in Africa is relatively High

<b>Energy resources</b>	<b>Potential</b>	<b>Environmental Impact/climate change</b>
<b>Crude Oil</b>	<b>Moderate</b>	<b>Had an impact on environment</b>
<b>Natural Gas</b>	<b>high</b>	<b>Friendly</b>
<b>Hard coal</b>	<b>high</b>	<b>Had an impact on environment</b>
<b>Hydro Electric</b>	<b>Very high</b>	<b>Friendly</b>
<b>Geothermal</b>	<b>high</b>	<b>Friendly</b>
<b>Wind</b>	<b>high</b>	<b>Friendly</b>
<b>Solar</b>	<b>Very high</b>	<b>Friendly</b>
<b>Cogen</b>	<b>Moderate</b>	<b>Friendly</b>



## Africa's Energy resources

Energy production in Africa is around 9,5% of the world output but consumes .... only 3%.

Energy resources	Percentage	Comments
Crude Oil	12.1	Of the world production
Natural Gas Out	6,6	
Hard coal	4,7	
Hydro Electric	3,1	



## Highlights Energy supply Africa

High Need for Investment in the sector

Description	Figures	Comments
Generation Capacity	66 GW	if South Africa were excluded, falls to <b>28GW</b> in total for over <b>45</b> countries Coverage Less than Poland
current economic growth rates	<b>5%</b> per year	Just to sustain this growth level would require annual expansion in generation capacity of 4GW, whereas at present barely 1GW is being added
Access to electricity in 2005	<b>24%</b> of the population of SSA	compared to close to 54% in South Asia and close to 90% in East Asia, the Middle East and Latin America

African countries contribute around **5%** of GHG global emissions.



## ***Indicative List of Regional Projects***

<b>Project</b>	<b>Project Cost USD,million</b>	<b>Participating countries</b>	<b>Comment</b>
OMVG: Construction of the HP.plants of Sambangalou and Kaleta, Interconnection Line – Grid connection of OMVG countries	<b>620</b>	Senegal, Gambia, Guinea Bissau	Ready for investment
BOALI 3 power project and interconnection with DRC	<b>23.00</b>	CAR, DRC	Under Preparation .
Interconnection Ivory Coast-Liberia-Senegal-Guinea	<b>300.00</b>	Ivory Coast-Liberia-Senegal-Guinea	Study ongoing
Interconnection Ghana-Burkina-Mali	<b>350.00</b>	Ghana-Burkina-Mali	Study ongoing.
Interconnection Ethiopia - Kenya	<b>1000.00</b>	Ethiopia - Kenya	Study ongoing.
Interconnection Zambia-Tanzania - Kenya	<b>1000.00</b>	Zambia-Tanzania - Kenya	Study ongoing.
Interconnection of CEEAC Countries	<b>300.00</b>	CEEAC Countries	Study ongoing.
ouapiti Hydropower Plant	<b>1200.00</b>	Guinea - Liberria- Serra Leone	Study ongoing..
Interconnection Guinea -Mali	<b>300.00</b>	Guinea -Mali	Study ongoing.
<b>/TOTAL</b>	<b>5093.00</b>		



## ***Indicative List of National Projects***

<b>Country</b>	<b>Project</b>	<b>Capacity (MW)</b>
Zambia	Itezhi-Tezhi	120
Zambia	Kafue Gorge Lower	600
Zambia	Kariba North Bank Ext.	350
Zimbabwe	Kariba South Bank Ext	300
Malawi	Kaphichira phase II	64
Mozambique	HCB North Bank	850
DRC	Inga III	3500
DRC	Grand Inga	39000
Ethiopia	Gibe III	1800



## **Africa is mostly affected by the various Crises:**

### Energy Crisis

- Draughts ( Climatic change)
- Oil price fluctuation

### Financial Crisis:

- Revenue Drop
- Foreign Direct Investments reduced



## Way forward

Africa needs to continue its investment programs in particular in the Energy sector:

- ❑ New Credit facility put in place by the AfDB
- ❑ Support AfDB Capital increase
- ❑ Support Low Income Countries (LIC) with concessional resources (ADF)
- ❑ Support Private Sector investment in Africa



## THANK YOU



Sidi Salem hydro-electric, Tunisia – Photo –Youssef Arfaoui