COUNTRY PRESENTATION

THE REPUBLIC OF THE GAMBIA Village Electrification Concept Adama Gassama

ECREEE Regional Workshop on Renewable Energy and Energy Access Accra, Ghana, 24th - 26th October 2011



- 1. Country Background
- 2. Sources of Energy & Energy Mix of the Gambia
- 3. Energy Policy
- 4. Existing Legal And Regulatory Framework
- 5. Institutional Structure for Operationalisation of Legislation
- 6. National Electrification Rate
- 7. Renewable Energy Resource
- 8. Rural Electrification

(i) Government's Initiative in Rural & Peri-Urban electrification

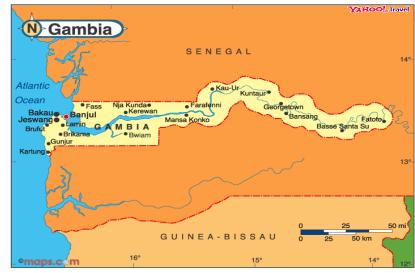
(ii) ComAfrique-InterliZon Initiative

10. Benefits

Country Background

- The Gambia has a land area of 11,300 sq km
- It is approximately 480km long
- Climate: tropical; hot, rainy season (June to November); cooler, dry season (November to May)
- It has a population of approximately 1.74million (July 2008)
- The economy is primarily agrarian, with agriculture employing about 70% of the labor force and accounts for 24% (GDP Publication for The Gambia 2008-GBOS).
- Economic growth: 6.1% (2008), 4.8% (2009), 5.4% (2010), 5.7% (2011 est.)
- The Tourism Sector accounted for 17.7% of GDP in 2008(GDP Publication for The Gambia 2008-GBOS).
- Per Capita Income: USD 496 (IMF estimate for 2009).



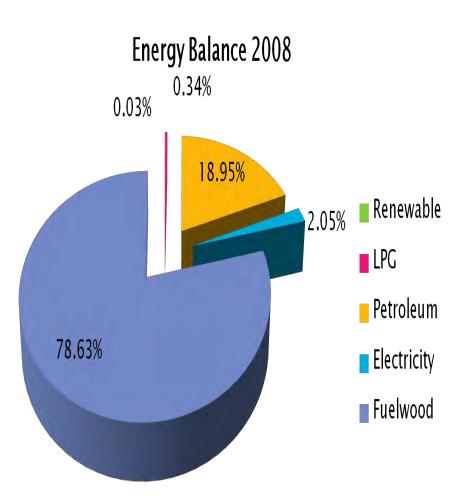


Energy Mix of the Gambia

The Source of Energy Fuelwood (Firewood & Charcoal) Petroleum

Products (Including LPG)

Electricity and
 Renewable Energy



ENERGY POLICY Summary of the main elements

- 1. Electricity:Ensure that there is an adequate, efficient and affordable electricity supply to support socio-economic development in an environmentally-sustainable way.
- 2. Petroleum Products:aims at ensuring the availability of adequate supplies of petroleum products throughout the country at economic prices
- 3. Renewable Energy:Ensure the promotion and judicious utilisation of renewable energy that will bring about the sustainable development of the country.
- 4. Fuelwood: Ensure sustainable and efficient utilisation of fuel wood resources that are environment-friendly.

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EXISTING LEGAL AND REGULATORY FRAMEWORK

- Energy Policy 2005
- Electricity Act 2005
- Public Utility Regulatory Act (PURA) 2001
- 4. PetroleumProducts Bill 2009

Institutional Structure for Operationalisation of Legislation

PURA-is a Multi-Sectoral Regulatory Body.

It has mandate to regulate;

- 1. Electricity
- 2. Water and Sewerage
- 3. Telecommunication and Broadcasting and
- 4. Transports

Current regulated sectors ;

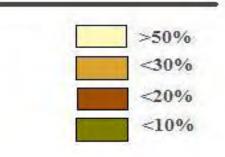
- Electricity
- Water and Sewerage
- Telecommunication

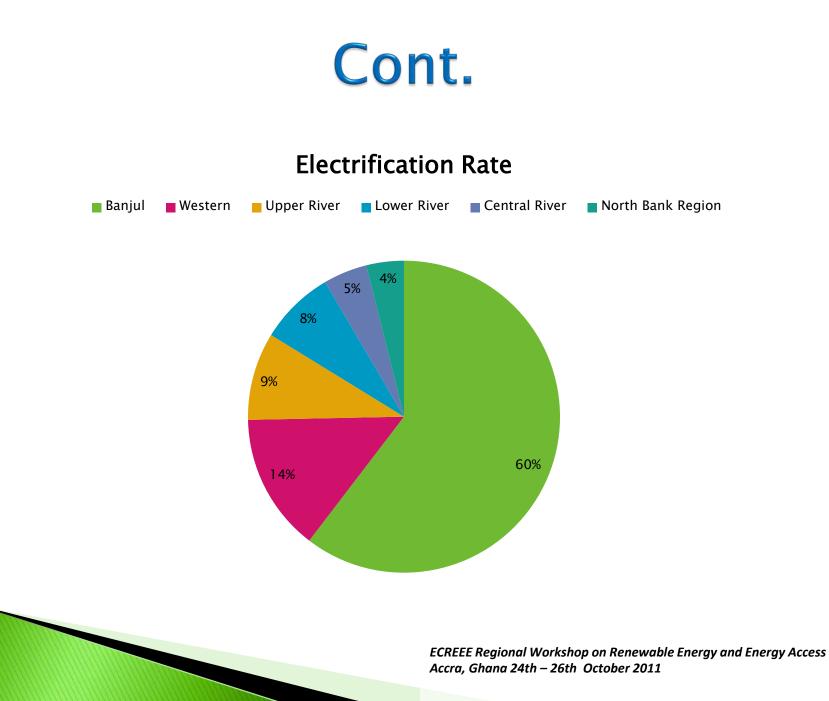
National Electrification Rate

Map showing the rate of access to electricity in the different Regions of The Gambia



LGA	Electrification Rate
Banjul	93%
Western Region	22%
Upper River Region	14%
Lower River Region	12%
Central River Region	7%
North Bank Region	6%





Renewable Energy Resource

- Solar
- Wind

Bio-energy(biogas, agro-industrial waste and bio-fuel)

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GOTG strives in Promoting RE

- Establishment of Gambia Renewable Energy Centre
- RE feasibility study 2007– supported through AfDB.
- Waived import sales tax on RE and Energy Efficiency technologies
- Conduct Bi-annual RE shows and Exhibitions
- 5. Supported the formation of RE association (REAGAM)

Constraints

- •Lack of legal and regulatory framework
- •High initial cost;
- •Poor quality of products
- •Limited institutional capacity
- •Limited qualified technicians
- •High bank interest rate unattractive to private sector investors

Rural & Peri-urban Electrification Projects

Western Region Electrification

1. GEG (IPP using thermal generators)

- 22MW available- services Brikama Area & GBA
- 40 towns & villages to be electrified
- 2. Batokunku Wind Mill (IPP) -150KW
- Rural Electrification Project
 - NAWEC-with 6 isolated power houses (total of 4MW) in provincial areas
 - 2. 39-44 villages & Towns to be electrified in the provincial areas

The ComAfrique-InterliZon Initiative

- "The ComAfrique "Light up a village Initiative" is a basic sustainable solar rural lighting project.
- > 25 Households Approx
 - 60/70 Lights
- ▶ 60 to 70 "ZonLights" –per village
- 5 to 7 "ZonHomes" -school, medical centre, police station, mosque, church, etc.
- Each Household pays US\$ 0.04per day (D1per day) Per Light
- 12 Villages benefited
- Project sponsored by a participating
 Corporate, NGO, individual and Government
- Future proposal: 500-600 villages







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Benefits

- The Villagers saves D3-D4 per day thus saving his earnings for other purposes
- Prevent/reduce fire outbreaks cause by candles in most households
- Candles are EXPENSIVE -
 - With 4 Months of Candle Money A villager can acquire a Zonlight and be Energy independent for Light for LIFE
- The use of Zonlight has greatly reduced the importation of candles and kerosene and as a result reduced the burden on the country's foreign exchange
- The VILLAGE LIGHT Committee earns 365 Dalasis per year per Light.
 - Replace batteries
 - Replace light for each 'subscriber' in 6 years
 - Surplus funds can use for increasing the number of lights.
 - other development.







Thank You for your kind attention

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