REGIONAL POLICY AND POTENTIAL FOR RENEWABLE ENERGY DEVELOPMENT IN WEST AFRICA.

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www.ecreee.org
THE ECOWAS REGION

- 15 COUNTRIES WITH A LAND AREA OF 5 MILLION M²
- CLIMATE FROM SEMI-ARID TO HUMID TROPICAL
- POPULATION OF WITH 262 MILLION PEOPLE,
- 60% OF POPULATION LIVES IN RURAL AREAS
- 13 OF THE 15 COUNTRIES ARE LDCS AND HIPIC
- ALMOST 150 MILLION PEOPLE HAVE NO ACCESS TO MODERN ENERGY SERVICES
Regional Response:

The ECOWAS/UEMOA White Paper on Access to Energy Services

Adoption of the White Paper in January 2006 in Niamey by the Authority of ECOWAS Heads of State and Governments.

Target: Provide, by 2015, access to modern energy services to at least half the population living in rural and sub-urban areas:

- 100% of the total populations or 325 million people, will have access to improved cooking fuel
- At least 60% of people living in rural areas will reside in localities with access to motive power to boost economic activities and access to modern community services
- 66% of the population, or 214 million people, will individually have access to electricity supply

![Expected Changes between 2005 and 2015](image)

- Improved cooking gas
- Electrification
- Periurban & urban electrification
- Decentralized electrification

Source: www.ecreee.org
Regional Actions

1. Establishment of Regional Multi-Sectoral Committee on Energy Access

2. Ensure the Inclusion of ENERGY as a Priority in National Indicative Programmes (ie PRSPs)

3. Supporting formulation and implementation of investment programs to expand energy access

4. Knowledge Management and dissemination of best practices;
Electricity Access Rate in ECOWAS Countries 2005 and 2010

<table>
<thead>
<tr>
<th>Country</th>
<th>2005</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberia</td>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>Sierra Leone</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>Gambia</td>
<td>9</td>
<td>30</td>
</tr>
<tr>
<td>Niger</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>Burkina Faso</td>
<td>10</td>
<td>29</td>
</tr>
<tr>
<td>Guinea Bissau</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Mali</td>
<td>17</td>
<td>30</td>
</tr>
<tr>
<td>Guinea</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Togo</td>
<td>20</td>
<td>35</td>
</tr>
<tr>
<td>Benin</td>
<td>23</td>
<td>27</td>
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<tr>
<td>Senegal</td>
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<td>50</td>
</tr>
<tr>
<td>Côte d'Ivoire</td>
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<td>42</td>
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<td>Nigeria</td>
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<td>45</td>
</tr>
<tr>
<td>Ghana</td>
<td>45</td>
<td>54</td>
</tr>
<tr>
<td>Cape Verde</td>
<td>70</td>
<td>72</td>
</tr>
</tbody>
</table>

Electricity Access Rate (% of Population)
Foundation of ECREEE

Regulation C/REG.23/11/08 of the 61st Session of ECOWAS Council of Ministers in Ouagadougou, Burkina Faso, on November 23, 2008;

Objective
To create favorable framework conditions and an enabling environment for renewable energy and energy efficiency markets in ECOWAS

- Tailored policy, legal and regulatory frameworks and quality standards
- Program and Project Development,
- Capacity development of key groups of different sectors
- Advocacy, awareness raising, knowledge management and networking
- Investment promotion and business development

Commenced November 2009 with support of the the Austrian and Spanish Governments and technical assistance from UNIDO.
New Policy Initiatives

Renewable Energy Penetration Targets for 2020

Cape Verde - 50%
Ghana - 10%
Senegal - 15%
Mali - 25%
Existing RE installations in the Region. January 2011

- 7.5 MW PV
- 28 MW (underconst)
- 10 MW Wind (underconst)
Solar Projects in the ECOWAS Region

2.5 MW Solar PV, in Sal, Cape Verde
Commissioned October 1, 2010

5 MW Solar PV, in Praia, Cape Verde
Commissioned November 2, 2010
Planned RE Projects in the Region

Solar Plants

10 MW PV
20 MW PV
5 MW PV

30 MW CSP
50 MW PV
3 MW CSP
43.5 MW PV

10 MW PV
20 MW PV
30 MW CSP
20 MW PV
6 MW PV

30 MW CSP
5 MW PV
30 MW CSP
20 MW PV

30 MW CSP
10 MW PV
20 MW PV
Planned RE Projects in the Region

Wind Farms

- 10 MW Wind
- 20 MW Wind
- 30 MW Wind
- 50 MW Wind
- 5 MW Wind
- 100 MW Wind
- 20 MW Wind
- 20 MW Wind
- 10 MW Wind
- 10 MW Wind
- 15 MW Wind

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Planned RE Projects in the Region

Small Hydro Plants

- 16 MW SHP
- 10 MW SHP
- 10 MW SHP
- 11 MW SHP
- 20 MW SHP
- 15 MW SHP
Planned RE Projects in the Region

Biomass and Waste to Power

- 30 MW Bio
- 15 MW WtP
- 30 MW Bio
- 48 kW WtP
- 20 MW WtP
- 15 MW Bio
- 38 MW Bio
- 20 MW WtP

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ECREEE AND PARTNERS

Austrian Development Cooperation

€ 11m

Core Donors

EU

€ 18m

New Entrants

USAID

geo

Those who have shown intent

Brazil

Germany

Japan

France

Technical Partners

ESMAP

Enea

UNDP

IRENA

GIZ

€ 1m

International Renewable Energy Agency

Agence de l’Environnement et de la Maîtrise de l’Energie

Centre for the Management of Renewable Energy and Energy Efficiency Partnership

Global Bioenergy Partnership
Conclusion

The right policies backed by incentives is can foster renewable energy development in West Africa

Thank you!