NATIONAL PRESENTATION
LIBERIA

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Background

Total geographic area: 111,370 km²

Total land area: 96,320 km²

Coastline: 579 km

Source: Ministry of Planning & Economic Affairs
### Relevant Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Population</td>
<td>3.48 Million</td>
</tr>
<tr>
<td>Urban Population</td>
<td>38%</td>
</tr>
<tr>
<td>Rural Population</td>
<td>62%</td>
</tr>
<tr>
<td>Population Growth Rate</td>
<td>2.1%</td>
</tr>
<tr>
<td>GDP Per Capita (US$ and PPP$)</td>
<td>190.00</td>
</tr>
<tr>
<td>% of Population With access to grid electricity</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Current Power Generation by National Grid (diesel fuel)</td>
<td>9.6 MW</td>
</tr>
<tr>
<td>Current electricity tariff (National Grid)</td>
<td>US$0.46 per kWh</td>
</tr>
<tr>
<td>Current power generation from renewable sources (hydro &amp; solar only)</td>
<td>4.11 MW</td>
</tr>
</tbody>
</table>

*Source: Ministry of Lands, Mines & Energy*
Liberia is endowed with enormous renewable energy resources:

- Hydro
- Biomass
- Solar
- Wind

There is currently no reliable National wind resource data for Liberia. Notwithstanding, observations along good shows prospects for wind power development in the country.
Liberia has six major rivers, which drain about 66% of the country’s water. Proven hydro power potential is in excess of 1,000 MW, out of which only 4MW is currently generated.
Monthly solar radiation on horizontal surface is about 4 to 6 kWh/m²/day.

Total installed capacity is about 110kW.

Source: Solar Technology, Inc.
Because Liberian vegetation is mainly used for tree-crop and food-crop production and forestry, woody biomass is the predominant biomass resource available.

Source: Assessment of Biomass Resources in Liberia, NREL 2008
Ministry of Lands, Mines, & Energy (MLME)

Linkages to Other Energy Institutions

- Liberia Electricity Corporation (LEC)
- National Grid

- National Oil Company (NOCAL)
- Upstream Petroleum

- Liberia Petroleum Refining Company (LPRC)
- Downstream Petroleum

- Rural & Renewable Energy agency (RREA)
- Renewable energy & off-grid
Energy mix – share of various energy sources

- **Electricity Production & Industrial Activities**
  - Fossil fuel
  - Hydro
  - Solar

- **Transport**
  - Fossil fuel

- **Cooking and Heating**
  - Charcoal
  - Firewood
  - Fossil fuel (kerosene & LPG)

- **Domestic Lighting and others**
  - Fossil fuel (kerosene)
  - Candles
  - Batteries

Source: Center for Sustainable Energy Technology (2009)
The policy focuses on universal access to modern energy services in an affordable, sustainable and environmentally-friendly manner in order to foster the economic, political, and social development of Liberia.

The Policy addresses the following strategic issues that are implied in its principal objective – access, quality, cost, and institutional framework. These issues refer to the need for the various technologies and delivery options for energy products and services to be available, acceptable, affordable and adequate and an institutional structure to achieve the objectives.
Legal and regulatory framework for the energy sector are implemented through the following institutions:

- Ministry of Lands, Mines & Energy (overall energy policy & regulation)
- Liberia Electricity Corporation (electricity sector regulation)
- Liberia Petroleum Refining Company (downstream petroleum sub-sector regulation)
- National Oil Company of Liberia (upstream petroleum sub-sector regulation)
- Rural and Renewable Energy Agency (renewable energy sub-sector regulation)
THANKS FOR YOUR ATTENTION !!!!