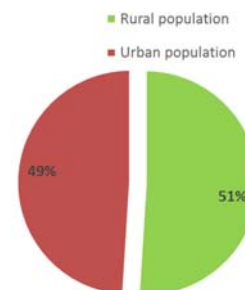


# Liberia



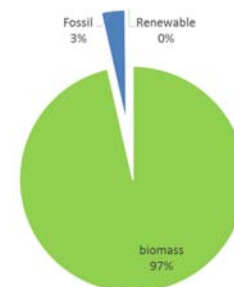
## Social and Economic set-up

	Year	Unit	Value
Total population	2014	Million	4.396 <sup>1</sup>
Population growth	2014	%	2.4 <sup>2</sup>
Surface	2014	km <sup>2</sup>	111370 <sup>3</sup>
GDP (current US\$)	2014	Billion USD	2.013 <sup>4</sup>
GDP per capita (current international \$)	2014	USD per cap	457 <sup>5</sup>
GDP growth	2014	Annual %	0.5 <sup>6</sup>
Fragile State	2014	status	Yes <sup>7</sup> (low income)
Governance (Ibrahim index)	2014	Index/rank	49.3 / 31 <sup>8</sup>
Variation of governance over 5 years	2014	index	+ 3.4 <sup>8</sup>
Human development Index	2013	Index/rank	0.412 / 175 <sup>9</sup>



## Energy used (1 million toe = 11,65 MWh)

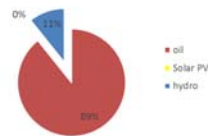
	Year	Unit	Value
Primary Energy - TPES	2010	Million toe	2,205
Primary Energy – Biomass	2010	Million toe	2,126
Primary Energy – Fossil	2010	Million toe	0,075
Primary Energy – Renewable (w hydro)	2010	Million toe	0,003
Primary Energy – Electricity import	2010	Million toe	0
Primary Energy – Net oil import	2010	Million toe	0,075
Final Energy – Total	2010	Million toe	1,177
Final Energy – Modern energy BLEN <sup>10</sup>	2010	Million toe	0,006
Final Energy – Electricity	2010	TWH	0.190



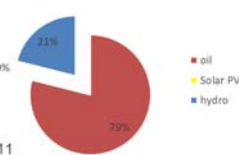
## Electricity

Peak demand		
Grid connected capacity		
Thermal		
Hydro		
Renewable (w/o hydro)		
IPP/Installed capacity		
Electricity generation		
Electricity generation from fossil fuels		
Electricity generation from hydro		
Electricity generation from renewable (w/o hydro) <sup>11</sup>		
Electricity consumption including auto-consumption and losses		
Average energy consumption/capita		
Losses (total, technical and non-technical) as % of the production		
Losses (total, technical and non-technical)		
Importation (+) exportation (-)		

Electricity Capacity MW 2010



Electricity Sources GWh 2010



Year	Unit	Value
2010	MW	25
2012	MW	56
2012	MW	50
2012	MW	6
2010	MW	0
2010	%	0
2010	GWh	190
2010	GWh	150
2010	GWh	40
2010	GWh	0
2010	GWh	190
2010	kWh per cap	47
2012	%	40
2010	GWh	76
2010	GWh	0

1 <http://donnees.banquemondiale.org/indicateur/SP.POP.TOTL>

2 <http://data.worldbank.org/indicator/SP.POP.GROW>

3 <http://data.worldbank.org/indicator/AG.SRF.TOTL.K2>

4 <http://donnees.banquemondiale.org/indicateur/NY.GDP.MKTP.CD>

5 <http://data.worldbank.org/indicator/NY.GDP.PCAP.PP.CD>

6 <http://donnees.banquemondiale.org/indicateur/NY.GDP.MKTP.KD.ZG>

7 <http://www.oecd.org/dac/inca/FSR-2014.pdf> ; <http://siteresources.worldbank.org/EXTLICUS/Resources/511777-1269623894864/HarmonizedlistoffragilestatesFY14.pdf>

8 <http://www.moibrahimfoundation.org/Interact/> (rank on 52 countries; rank 1 Mauritius 81.7; rank 52 Somalia 8.6)

9 <http://hdr.undp.org/en/countries/profiles/LBR>

10 BLEN comprises GPL, electricity, natural gas and biogas

11 Renewable except hydro (waste, biomass, biogas, geothermal, solar, wind, ocean)



Total electrification rate <sup>12</sup>	2012	%	6.0
Urban/rural electrification rate	2012	%	10/2
HV lines	2013	km	To be confirmed
MV lines	2013	km	To be confirmed
LV lines	2013	km	To be confirmed
Renewable energy/ total electricity generation	2010	%	21
Connections to Low voltage grid	2012	thousand	42.0
Average tariff		US\$/KWh	To be confirmed
Ratio costs/tariff		%	To be confirmed

## Legal, regulatory and institutional framework

Energy policy	National Energy Policy (NEP 2009); Liberia Rising 2030, Liberia's long-term vision of socio-economic development
Energy law	Rural Renewable Energy Act of 6 July 2015; Electricity Law of 23 October 2015
Ministerial implementation decrees	To be confirmed
Electricity/energy regulator	Energy Regulatory Board (ERB) recommended in 2009 but not implemented
Operators in charge of electricity	Liberia Electricity Corporation (LEC)
Institution in charge of rural electrification,	Rural and Renewable Energy Agency (RREA)
Institution in charge of renewable energy	Rural and Renewable Energy Agency (RREA) linkage with LEC and MLME; manages RREFUND to be created by Energy Law
Institution in charge of energy conservation and energy efficiency	To be confirmed
Energy objective	By 2030 supply electricity to at least 70% of Monrovia residents and 35% of inhabitants outside Monrovia
Policy for energy purchase tariff	To be confirmed
Policy for net metering	To be confirmed
Public procurement procedures	To be confirmed
Unbundling of production/transport/distribution	To be confirmed

## Private sector and business environment

Institutions in charge of private sector promotion	To be confirmed
Incentives measures	To be confirmed
Traditional subsidies	To be confirmed
IPP (Independent power producer)	None; a lot of informal auto producers and suppliers
Public-Private partnership	To be confirmed
Business index	Ranked 179 out of 186 economies in 2016

## International cooperation in the energy sector

Joint Declaration EU-Country	Yes signed on 23 September 2014 in New York
Energy as Focal sector in the 11th EDF	Yes (EUR 100 Million for the energy sector)
Donors present in the country	EU, WB, DFID, AfDB, EIB, KFW, IDB, UNIDO, China, EBID, EU, JICA, GIZ, USAID, MCC, Norway (Energy +, NORAD)
Sectorial coordination mechanism	To be confirmed

## Main concerns

- Overcome the Ebola crisis and improve health infrastructure
- Reduce technical and non-technical losses on the electric grid and improve the recovery rate
- Develop the use of modern energy for cooking and promote the use of energy efficient cook stoves
- Develop of the Mano River hydroelectric potential
- Define and co-ordinate investment programmes and funding
- Enhance capacity of newly created institutional entities, decision makers and technicians

<sup>12</sup> Calculated as population with access to an electricity source in their habitat compared to the entire population