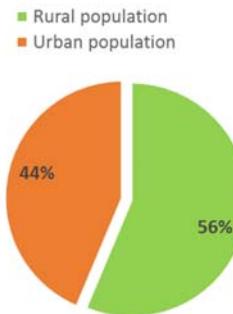


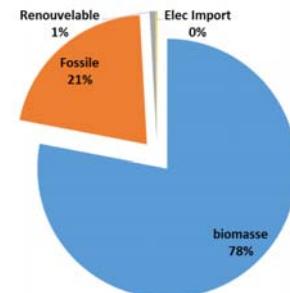
## Social and economic set-up

	Year	Unit	Value
Total population	2014	Million	339
Population growth	2014	%	2.8
Surface	2014	km <sup>2</sup>	5,115,000
GDP (current US\$)	2014	Billion USD	721
GDP per capita (current international \$)	2014	USD per cap	2,122
GDP growth	2014	Annual %	6.1
Fragile states	2014	Status	Yes (11 States)
Governance (Mo Ibrahim index)	2016	index average	52.4
Governance (Mo Ibrahim index)	2016	rank in Africa	2 (out of 5 regions)
Human Development Index	2015	index average	0.475



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

	Year	Unit	Value
Primary Energy – TPES	2013	Million toe	189
Primary Energy – Biomass	2013	Million toe	147
Primary Energy – Fossil	2013	Million toe	39.9
Primary Energy – Renewable (incl. hydro)	2013	Million toe	1.4
Primary Energy – Electricity import	2013	Million toe	0.3
Primary Energy – Net oil import	2013	Million toe	-435
Final Energy – Total	2013	Million toe	155
Final Energy – Modern energy BLEN <sup>1</sup>	2013	Million toe	8.3
Final Energy – Electricity	2013	TWH	53.0



## Electricity

	Year	Unit	Value
Sum of peak demands	2013	MW	14,068
Installed connected capacity	2013	MW	16,151
Thermal installed capacity (fossil fuels)	2013	MW	11,515
Hydro installed capacity	2013	MW	4,582
Renewable installed capacity (excl. hydro)	2013	MW	48
IPP/installed capacity	2013	%	13
Electricity generation	2013	GWh	59,135
Electricity generation from fossil fuels	2013	GWh	44,786
Electricity generation from hydro	2013	GWh	14,086
Electricity generation from renewable (excl. hydro)	2013	GWh	251
Electricity consumption including self-consumption and losses	2013	GWh	59,457
Average energy consumption/capita	2013	KWh per cap	175
Losses (total, technical and non-technical) as % of the production	2013	%	28
Losses (total, technical and non-technical)	2013	GWh	16,916
Imports (+) exports (-)	2013	GWh	323
Total electrification rate	2013	%	21.3
Urban/rural electrification rate	2013	%	57.6/12.2
HV lines <sup>2</sup>	2013	km	30,094
MV lines <sup>2</sup>	2013	km	90,197
LV lines <sup>2</sup>	2013	km	103,451
Renewable energy/total electricity generation	2013	%	30
Connections to low voltage grid	2013	Thousands	11,829
Average tariff/social	2013	US\$c/kWh	To be confirmed
Ratio cost/tariff	2013	%	To be confirmed

<sup>1</sup> BLEN includes GPL, electricity, natural gas and biogas; <sup>2</sup> HV (90-225 KV); MT (15-33 KV); LV (220 V..



Technical Assistance Facility – Sustainable Energy for ALL – Western and Central Africa  
Project financed by the European Union and implemented by a consortium led by MWH



The information and views set out in this file are those of the author(s) and do not necessarily reflect the official opinion of the European Union. Neither the European Union institutions and bodies nor any person acting on their behalf may be held responsible for the use which may be made of the information contained therein.

## Legal, regulatory and institutional framework

<b>Energy policy</b>	ECOWAS and UEMOA White Paper for Increasing Access to Energy Services for the Rural and Peri-Urban Populations (2006); ECOWAS Electricity Master Plan (2011) aims to create a regional electricity market by 2020/25; ECOWAS Small hydro power programme (2012); ECOWAS Bioenergy Strategy Framework (2012) and bioenergy policy (2015); ECOWAS Renewable Energy Policy (2013); ECOWAS Energy Efficiency Policy (2013); ECOWAS policy for gender mainstreaming in energy access (2015); ECOWAS regional strategy on energy efficient lighting ECOWAS Energy Protocol (2003); Directive on the organization of the ECOWAS regional electricity market (2013); ECOWAS Directive on Energy Efficiency in Buildings (EDEEB)
<b>Energy law</b>	To be confirmed
<b>Ministerial implementation decrees</b>	ECOWAS Regional Electricity Regulatory Authority (ERERA)
<b>Electricity/energy regulator</b>	West African Power Pool (WAPP) for system and market operation
<b>Operators in charge of electricity</b>	ECREEE (mini grids and standalone) & WAPP (on-grid)
<b>Institution in charge of rural electrification</b>	ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)
<b>Institution in charge of renewable energy</b>	ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)
<b>Institution in charge of energy conservation and energy efficiency</b>	ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)
<b>Energy objectives</b>	Provide access to clean cooking energy to 100% (60%) of the population by 2030 (2020) , including 20% (26%) of LPG users; Promoting 60,000 mini-grids and 2.6 million stand-alone systems across the region by 2020 (EREP); By 2020(2030), 6.8% (5%) of generation capacity worth 634 MW (2000 MW) from biomass residues or dedicated plantations; The share of renewable energy (incl. large hydro) of the overall electricity mix will increase to 35% (48%) in 2020 (2030); The share of new renewable energy such as wind, solar, small scale hydro and bioelectricity (excl. large hydro) will increase to 10% (19%) in 2020 (2030); The share of ethanol/biodiesel in transport fuels will increase to 5% (15%) in 2020 (2030).
<b>Policy for energy purchase tariff</b>	Feed-in Tariff in Ghana, Nigeria
<b>Policy for net metering</b>	To be confirmed
<b>Public procurement procedures (auctions)</b>	To be confirmed
<b>Unbundling of production/transport/distribution</b>	To be confirmed

## Private sector and business environment

<b>Institutions in charge of private sector promotion</b>	To be confirmed
<b>Incentives measures</b>	To be confirmed
<b>Traditional subsidies</b>	To be confirmed
<b>IPP (Independent power producer)</b>	To be confirmed
<b>Public-Private partnership</b>	To be confirmed
<b>Business index</b>	Ranked from 114 (Ghana) to 179 (Liberia) over 189 economies in 2016 (World Bank doing business)

## International cooperation in the energy sector

<b>Joint Declaration EU-ECOWAS</b>	Economic Partnership Agreement signed with the Heads of State and Government of ECOWAS on June 30, 2014.
<b>Energy as regional focal sector in the 11th EDF</b>	Yes
<b>Donors active in the region</b>	EU, UNIDO, ADA, AECID, GIZ, KFW, AFD, EBID
<b>Sectorial coordination mechanism</b>	To be confirmed

## Main concerns

- Build the regional electricity infrastructure as per the ECOWAS electricity Master Plan
- Develop the first phase of the regional electricity market
- Complete the SE4ALL Action Agenda and investment prospectus, the PANER and PANEE; technical assistance to implementation and monitoring the results
- Support the financial closing of the pipeline of projects associated to the investment prospectus
- Develop and implement capacity building and vocational training programmes
- Implement the ECOWAS bioenergy policy
- Implement the ECOWAS clean cooking programme
- Implement the ECOWAS energy efficiency programme
- Implement the ECOWAS Gender mainstreaming programme in Energy access