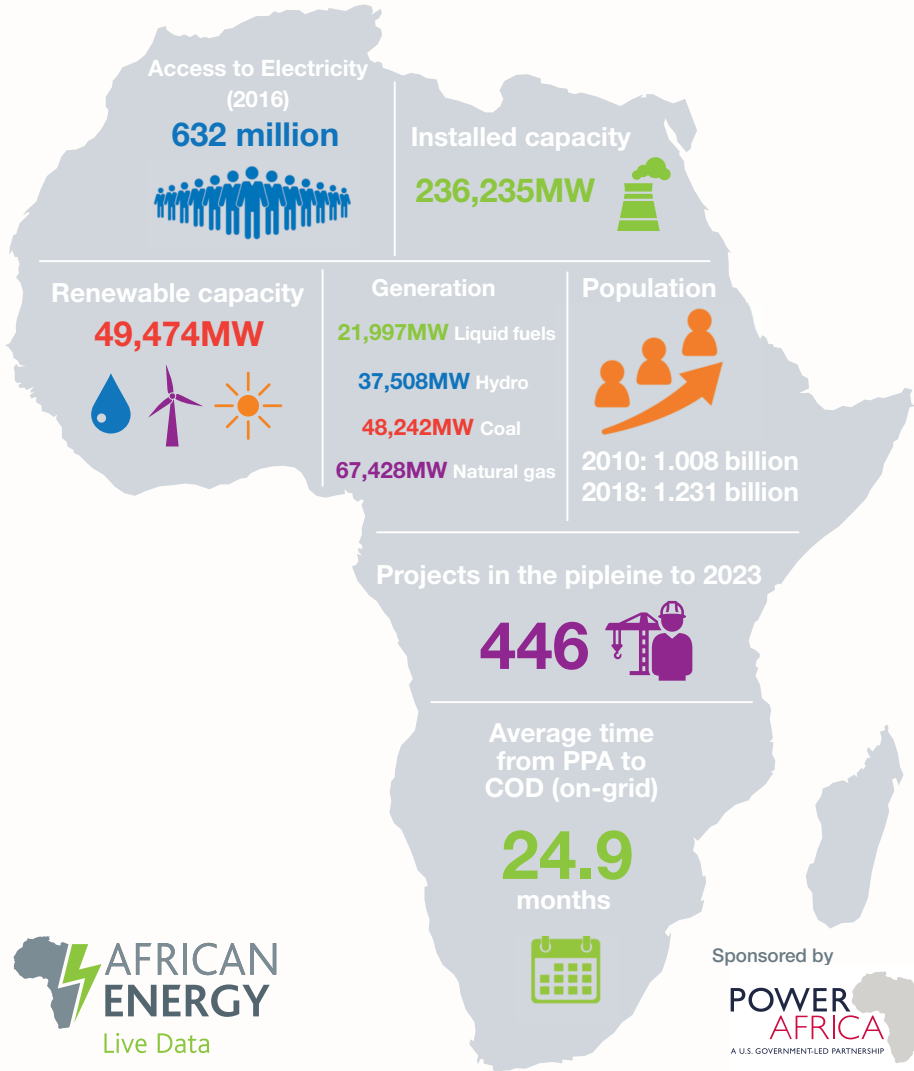


African Energy Data Book



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Photo courtesy of Power Africa partner ZOLA Electric

INTRODUCTION

ANALYSIS: Growth and transformation	4
SCORECARD: State of the sector	5
GENERATION: Capacity index, fuel mix	6

ELECTRICITY OVERVIEW

REGIONS: Access, installed capacity, PPAs	8
COUNTRIES: Electricity access	10
COUNTRIES: Urban electricity access	12
COUNTRIES: Rural electricity access	14
COUNTRIES: Clean cooking access	16
COUNTRIES: Installed capacity	18

FUELS

REGIONS: Fuel tables (2010-2021)	20
COUNTRIES: Fuel tables (2010-2021)	24

AFRICA AND REGIONS

AFRICA: Key data, Energy mix, Indicators	38
REGIONS: Key data, Energy mix, Economy	39

COUNTRIES BY REGION

NORTH AFRICA:	44-53
Algeria, Egypt, Libya, Morocco, Tunisia	

WEST AFRICA:	54-77
---------------------	--------------

Benin, Cape Verde, Burkina Faso, Côte d'Ivoire, Gambia, Guinea Bissau, Ghana, Guinea, Liberia, Mali, Mauritania, Nigeria, Senegal, Sierra Leone, Niger, Togo

CENTRAL AFRICA	78-87
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Cameroon, Chad, Congo Brazzaville, Equatorial Guinea, DR Congo, Gabon, Sao Tome & Principe

EAST AFRICA	88-109
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Burundi, Comoros, Djibouti, Eritrea, Ethiopia, Kenya, Madagascar, Mauritius, Rwanda, Seychelles, Somalia, South Sudan, Sudan, Tanzania, Uganda

SOUTHERN AFRICA	110-125
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Angola, Botswana, Lesotho, Mozambique, Namibia, South Africa, Malawi, eSwatini (Swaziland), Zambia, Zimbabwe



African Energy Data Book

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Fuels by country – Hydroelectric

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Algeria	248	248	248	248	248	216	216	216	216	216	216	216
Angola	820	820	894	894	909	1,002	1,693	2,053	3,789	3,789	3,789	3,789
Benin	1	1	1	1	1	1	1	1	1	1	1	1
Burkina Faso	32	32	32	32	32	32	32	32	35	35	35	35
Burundi	33	33	33	33	33	33	33	33	43	43	44	62
Cameroon	732	732	732	732	732	732	732	732	1,018	1,018	1,018	1,018
Cape Verde	0	0	0	0	0	0	0	0	0	0	20	20
Central African Republic	20	20	20	20	20	20	20	20	20	20	20	20
Comoros	1	1	1	1	1	1	1	1	1	1	1	1
Congo (Brazzaville)	215	215	215	215	215	215	215	235	235	235	235	235
Côte d'Ivoire	604	604	604	604	604	604	604	879	879	879	879	1,417
DR Congo	2,514	2,514	2,514	2,512	2,534	2,548	2,557	2,642	2,823	2,874	2,874	3,114
Egypt	2,806	2,806	2,806	2,806	2,806	2,806	2,806	2,806	2,838	2,838	2,838	2,838
Equatorial Guinea	7	7	127	127	127	127	128	128	128	328	328	328
Ethiopia	1,861	1,956	1,956	1,956	1,956	1,956	3,826	3,826	3,826	4,201	6,785	7,160
Gabon	169	169	169	329	329	329	329	329	329	365	365	365
Ghana	1,180	1,180	1,180	1,580	1,580	1,580	1,580	1,580	1,680	1,680	1,680	1,680
Guinea	128	128	128	128	128	368	368	368	368	368	818	1,002
Guinea Bissau	0	0	0	0	0	0	0	0	20	20	20	20
Kenya	732	730	751	824	824	824	833	838	855	859	877	906
Lesotho	73	73	73	73	73	73	73	73	73	73	73	73
Liberia	5	5	5	5	5	5	93	93	93	93	93	95
Madagascar	138	138	138	138	139	140	140	140	140	140	140	250
Malawi	287	287	287	352	352	352	352	352	364	364	414	432
Mali	258	258	258	318	318	318	318	318	343	483	531	531
Mauritius	60	60	60	61	61	61	61	61	61	61	61	61
Morocco	1,755	1,755	1,755	1,755	1,755	1,757	1,757	1,757	1,757	1,757	1,757	2,107

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Mozambique	2,184	2,184	2,184	2,094	2,094	2,094	2,094	2,244	2,244	2,244	2,244	2,244
Namibia	0	0	347	347	347	347	347	347	347	347	347	347
Niger	0	0	0	0	0	0	0	0	0	0	130	130
Nigeria	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	2,069	2,069	2,769	2,769
Rwanda	40	46	47	50	84	84	84	87	108	108	117	117
Sao Tome & Principe	3	3	3	3	3	3	3	3	3	3	3	3
Sierra Leone	56	56	56	56	56	56	56	56	58	58	58	58
South Africa	2,254	2,254	2,254	2,254	2,255	2,267	3,271	3,604	3,604	3,604	3,608	3,608
Sudan	1,593	1,593	1,593	1,593	1,593	1,593	1,593	1,753	1,913	1,913	1,913	1,913
eSwatini (Swaziland)	43	62	62	62	62	62	62	62	62	62	62	62
Tanzania	563	563	567	567	567	574	575	575	573	586	753	753
Togo	67	67	67	67	67	67	67	67	67	67	67	214
Tunisia	55	55	55	55	55	55	55	55	55	55	55	55
Uganda	410	435	697	697	697	697	697	720	976	1,600	2,065	2,115
Zambia	1,768	1,768	1,895	1,895	2,255	2,269	2,389	2,414	2,414	2,415	3,165	3,265
Zimbabwe	753	753	753	758	758	773	777	781	1,081	1,081	1,081	1,081
Total	26,427	26,569	27,527	28,200	28,634	28,998	32,796	34,238	37,508	38,950	44,348	46,507

Source: African Energy Live Data, 1 September 2018.

Figures represent total installed capacity and not available capacity which in many cases may be much less.

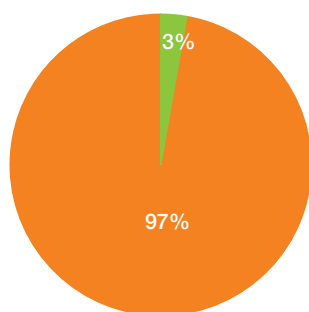
Key data

On-grid capacity: 19,221MW

Privately owned capacity: 5,461MW

Projects in pipeline to 2023: 23

(All figures 1 Sep 2018)



Renewable Non-renewable

Five largest operating plants

Terga Gas (1,239MW)

Hadjret Ennousse Gas (SKH) (1,227MW)

Koudiet Eddraouach Gas (1,131MW)

Skikda SKS Gas (880MW)

Marsat El Hadjadj Steam (840MW)

Next plants due online

Boutlélis Gas (446MW, end-2018)

Tilghemt Hassi R'Mel Gas II
(368MW, end-2018)

Djamaâ el Djazaïr Mosque Gas
(4.25MW, end-2018)

Ras Djinet II (1,131MW, end-2018)

Ain Arnat Gas (1,014MW, 2019)

Indicators	2010	2011	2012	2013	2014	2015	2016
Access to Clean Fuels and Technologies for cooking (% of total population)	92.4	92.5	92.5	92.8	93.1	92.7	92.6
Access to electricity (% of total population)	98.9	99.0	98.8	99.1	99.2	99.3	99.4
Access to electricity (% of rural population with access)	97.6	97.8	97.9	98.2	98.4	98.7	99.0
Access to electricity (% of urban population with access)	99.5	99.5	99.3	99.6	99.6	99.6	99.6
Energy intensity level of primary energy (MJ/2011 USD PPP)	3.6	3.7	3.9	3.9	4.1	4.1	NA
Total electricity output (GWh)	45,734	51,224	57,397	59,890	64,242	68,798	NA
Renewable electricity output (GWh)	174	502	622	330	254	222	NA
Renewable electricity share of total electricity output (%)	0.4	1.0	1.1	0.6	0.4	0.3	NA
Total final energy consumption (TFEC) (TJ)	1,017,973	1,093,661	1,191,926	1,263,125	1,314,500	1,413,990	NA
Renewable energy share of TFEC* (%)	0.3	0.2	0.2	0.1	0.1	0.1	NA

Source: World Bank/SEforALL

Energy mix, 2010-2021 (MW)

	2010	2011	2012	2013	2014	2015	2016	2017	2018*	2019	2020	2021
Gas & Liquid fuels	541	541	541	541	541	541	541	541	541	541	541	541
Hydro	248	248	248	248	248	216	216	216	216	216	216	216
Natural gas	10,917	11,047	12,331	13,708	15,057	15,669	16,937	17,710	20,641	21,655	28,110	29,561
Nuclear	18	18	18	18	18	18	18	18	18	18	18	18
Solar	0	20	20	20	20	152	316	389	389	389	389	389
Thermal	0	0	0	0	0	350	350	350	350	350	350	350
Various fuel oils	313	313	313	313	313	313	313	313	313	313	313	313
Wind	0	0	0	0	10	10	10	10	10	10	10	10
Total	12,037	12,187	13,471	14,848	16,207	17,269	18,701	19,548	22,479	23,493	29,948	31,399

Source: African Energy Live Data

Figures represent total installed capacity and not available capacity which in many cases may be much less.



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Economy

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Population (m)	36.0	36.7	37.5	38.3	39.1	40.0	40.8	41.5	42.3	43.1	43.9	44.6
GDP current prices (\$ bn)	161.2	200.3	209.0	209.8	213.8	165.9	159.1	178.3	197.6	208.8	218.6	226.2
Inflation*** (% change)	3.9	4.5	8.9	3.3	2.9	4.8	6.4	5.6	7.4	7.6	7.0	9.1

Source: IMF. * average consumer prices, unweighted average)