



OBJECTIVES

- goal to reach a 10% contribution of RE in the electricity generation mix by 2020 [link](#)

TOTAL PV INSTALLED



source [AFSIA](#) [IRENA](#)

CURRENT TARIFF GRID ELECTRICITY

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
MIN.	\$0.055	\$0.136	\$0.135
MAX.	\$0.160	\$0.228	\$0.449

[source](#)

POLICY / REGULATION

- PV panels are exempted from import duties and VAT [link](#)
- other PV plant components are exempt of import duty but subject to VAT [link](#)
- FiT for large-scale plants exists (\$11.58/kWh since 2016) but is not being applied [link](#)

ELECTRIFICATION RATE

- 86% of the population has access to electricity [link](#)

NOTEWORTHY DEVELOPMENTS

- 245 MW floating solar at Bui dam still to be built [link](#)
- Kotoka international airport planning 6 MW C&I project [link](#)
- PEG Africa to electrify 91 health centers with Power Africa's support [link](#)



GUINEA

OBJECTIVES

- quadruple installed capacity from 658MW to 2,600MW by 2025 [link](#)

TOTAL PV INSTALLED

LARGE SCALE	0 MWp
C&I	0.8 MWp
MG	0 MWp
SHS & RESIDENTIAL	0 MWp

source [AFSIA](#) [IRENA](#)

CURRENT TARIFF GRID ELECTRICITY

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
MIN.	\$0.009	\$0.097	\$0.151
MAX.	\$0.028	\$0.151	\$0.151

[source](#)

POLICY / REGULATION

- tax exemptions vary between projects [link](#)
- no regulatory framework developed for PV, financial support through subsidies [link](#)

ELECTRIFICATION RATE

- 35% of the population has access to electricity [link](#)
- target was to achieve 35% electrification by 2020 [link](#)
- target is to achieve 100% electrification by 2030 [link](#)

NOTEWORTHY DEVELOPMENTS

- 33 MW at Lefa mine developed by Norgold [link](#)
- more than 200 MW large scale projects under development by various companies



OBJECTIVES

- no specific RE target but desire to reduce dependence on fossil fuels and conduct energy transformation by 2030 through [link](#)

TOTAL PV INSTALLED

LARGE SCALE		0 MWp
C&I		0 MWp
MG	■	0.3 MWp
SHS & RESIDENTIAL	■	0.25 MWp

source [AFSIA](#) [IRENA](#)

CURRENT TARIFF GRID ELECTRICITY

RESIDENTIAL COMMERCIAL INDUSTRIAL

MIN.

data could not be verified

MAX.

POLICY / REGULATION

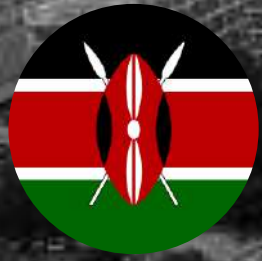
- solar panels are exempted from VAT but other components of a solar kit are not [link](#)
- no FiT, no net-metering policy

ELECTRIFICATION RATE

- 26% of the population has access to electricity [link](#)
- target to have 72% of the population gain access to the electricity grid by 2030 [link](#)

NOTEWORTHY DEVELOPMENTS

- 22 MW across 3 projects under construction developed by ABREC [link](#)

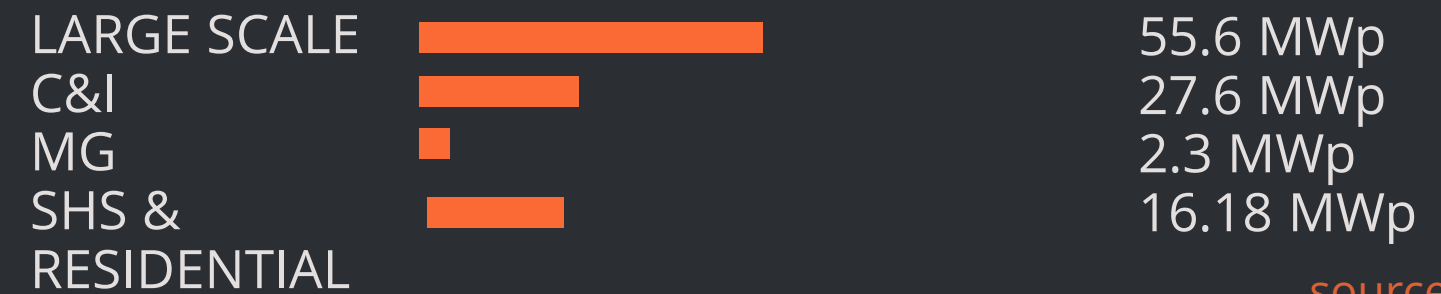


KENYA

OBJECTIVES

- in 2018, the target was to achieve a 100% green energy mix by 2020 [link](#)
- in 2020, the target is to achieve a 100% green energy mix by 2030 [link](#)

TOTAL PV INSTALLED



source [AFSIA](#) [IRENA](#)

CURRENT TARIFF GRID ELECTRICITY

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
MIN.	\$0.135	\$0.113	\$0.113
MAX.	\$0.177	\$0.175	\$0.175

[source](#)

POLICY / REGULATION

- all PV equipment and batteries subject to 14% VAT [link](#)
- FiT is \$0.12/kWh bu registration procedures are complex [link](#)
- net-metering could be launched in the near future [link](#)

ELECTRIFICATION RATE

- 75% of the population has access to electricity [link](#)
- target to reach universal access by 2022 [link](#)

NOTEWORTHY DEVELOPMENTS

- 30 MW Tatu City industrial zone development [link](#)
- Multiple large scale projects at different stages of development



LESOTHO

OBJECTIVES

- additional renewable energy generation capacity of 200 MW by 2030 [link](#)

TOTAL PV INSTALLED

LARGE SCALE	0 MWp
C&I	0 MWp
MG	0 MWp
SHS & RESIDENTIAL	0 MWp

source [AFSIA](#) [IRENA](#)

CURRENT TARIFF GRID ELECTRICITY

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
MIN.	\$0.052	\$0.018	\$0.018
MAX.	\$0.105	\$0.118	\$0.020

[source](#)

POLICY / REGULATION

- all PV components subject to a reduced VAT rate of 5% [link](#)
- net-metering for systems below 500kW [link](#)
- FiT for systems above 500 kW, to be negotiated [link](#)

ELECTRIFICATION RATE

- 37% of the population has access to electricity [link](#)
- achieve 75% household electrification by 2030 [link](#)

NOTEWORTHY DEVELOPMENTS

- Mafeteng 30 MW phase 1 under construction and 40 MW phase 2 scheduled [link](#)
- OnePower developing 10 MG with REPP's support [link](#)
- OnePower electrifying 7 healthcare centers through Power Africa grants [link](#)



LIBERIA

OBJECTIVES

- no RE target
- most focus on increasing the electricity access rate in rural areas

TOTAL PV INSTALLED

LARGE SCALE	0 MWp
C&I	0.1 MWp
MG	0 MWp
SHS & RESIDENTIAL	0 MWp

source [AFSIA](#) [IRENA](#)

CURRENT TARIFF GRID ELECTRICITY

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
MIN.	\$0.390	\$0.390	\$0.390
MAX.	\$0.390	\$0.390	\$0.390

source

POLICY / REGULATION

- Solar companies registered under LIRENAP are eligible for a duty reduction [link](#)
- RREA looking to create permanent duty waiver for all quality-verified solar products [link](#)

ELECTRIFICATION RATE

- 22% of the national population has access to electricity [link](#)
- target to reach 20% electrification outside of Monrovia by 2025 [link](#)
- target to reach 35% electrification outside of Monrovia by 2030 [link](#)

NOTEWORTHY DEVELOPMENTS

- 20 MW mount coffee Liberia large scale project under development by GigaWatt Global [link](#)
- Orange telecom towers to be solarized through Escotel [link](#)
- UNDP solarizing 12 health centers through MG [link](#)



OBJECTIVES

- government launches a National Plan for Developing RE (2013-2025) [link](#)
- achieve 10% renewable contribution to the electricity mix by 2025, with 400 MW CSP, 800 MW PV and 450 MW solar water heating [link](#)

TOTAL PV INSTALLED

LARGE SCALE	0 MWp
C&I	5 MWp
MG	0 MWp
SHS & RESIDENTIAL	0 MWp

source [AFSIA](#) [IRENA](#)

CURRENT TARIFF GRID ELECTRICITY

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
MIN.	\$0.046	\$0.156	\$0.071
MAX.	\$0.115	\$0.156	\$0.097

[source](#)

POLICY / REGULATION

- all PV components are subject to 4% port services tax (no import duty) [link](#)
- there is no VAT in Libya [link](#)
- no net-metering, no FiT

ELECTRIFICATION RATE

- 70% of the population has access to electricity [link](#)

NOTEWORTHY DEVELOPMENTS

- construction of 100 MW Kufra solar plant [link](#)



MADAGASCAR

OBJECTIVES

- double total installed capacity to reach 800 MW by 2023 [link](#)
 - RE to represent 85% of energy mix by 2030 [link](#)
 - solar to represent 5% of energy mix by 2030 [link](#)

TOTAL PV INSTALLED



source [AFSIA](#) [IRENA](#)

CURRENT TARIFF GRID ELECTRICITY

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
MIN.	\$0.037	\$0.043	\$0.023
MAX.	\$0.236	\$0.308	\$0.282

[source](#)

POLICY / REGULATION

- no import duties and no VAT on solar panels and lithium batteries [link](#)
- other equipment subject to 20% import duties and 20% VAT [link](#)
- no net-metering, no FiT [link](#)

ELECTRIFICATION RATE

- 15 % of the population has access to electricity [link](#)
- target to connect 70% of the population by 2030 [link](#)

NOTEWORTHY DEVELOPMENTS

- Filatex to develop a 170 MW total capacity [link](#)
- ANKA Madagascar rolling out 60 MG [link](#)



MALAWI

OBJECTIVES

- no specific RE or solar targets

TOTAL PV INSTALLED

LARGE SCALE	0 MWp
C&I	1.1 MWp
MG	0 MWp
SHS & RESIDENTIAL	0 MWp

source [AFSIA](#) [IRENA](#)

CURRENT TARIFF GRID ELECTRICITY

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
MIN.	\$0.054	\$0.124	\$0.052
MAX.	\$0.125	\$0.143	\$0.161

source

POLICY / REGULATION

- solar lighting products exempt from import duty [link](#)
- 0% VAT on all solar product and components [link](#)
- FiT available since 2012 for projects between 500 kW and 10 MW at \$0.10/kWh without storage and \$0.20/kWh with storage but no single project using FiT yet [link](#)

ELECTRIFICATION RATE

- 39% of the population has access to electricity [link](#)
- target to increase electricity access rate to 80% by 2035 [link](#)

NOTEWORTHY DEVELOPMENTS

- JCM Power finishing construction on 75 MW Salima project [link](#)
- Phanes Group starting work on 37 MWac Nkhotakota project [link](#)
- Resolve Capacity electrifying 85 health care facilities [link](#)

SEGMENT REVIEW: C&I

BOOMING C&I SEGMENT

AFSIA has been tracking solar projects in Africa for several years and conducts a daily surveillance of new projects being announced, awarded and commissioned.

So far we have identified more than 6,200 large-scale, C&I and mini-grid project across the continent. Out of these 6,200, 2,400 are already in operation and are composed by C&I projects for more than 80%!

Not so long ago, the solar market was naturally dominated by large-scale projects which have been developed and built in a handful of countries across the continent.



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