African Energy Atlas

Access to Electricity (2016)
608 million

Population
2010: 1.008 billion
2018: 1.231 billion

Natural gas reserves*
7.1% of world reserves

Oil reserves*
126.5bn bbls

Installed capacity*
212GW

PPAs signed in 2017
36

Generation*
51,598MW Natural gas
47,218MW Coal
34,442MW Hydro
21,376MW Liquid fuels

2010: 1.008 billion
2018: 1.231 billion

Access to Electricity (2016)
608 million

* Data for end-2017. See page 2 for sources
Power definitions

Status:
- **Operating** means plants that are producing electricity, even if this is substantially below maximum capacity.
- **Construction** means that building work is ongoing at the site.
- **Planned** means any project which has not yet begun construction. This includes projects which are at a very early stage of development, such as identified hydro sites, as well as those which are much more advanced. The data tables shown under the maps refer only to planned projects displayed on the map.

Fuels:
- **Natural gas** means any plant fuelled by natural gas, whatever the source, including both liquefied natural gas (LNG) and pipeline gas.
- **Liquid fuels** include all fuel oils, crude oils, shale oil and liquid gases.
- **Coal** refers to technologies using coal as the original source of energy.
- **Other thermal** largely comprises plants where the exact fuel is unknown as well as industrial cogeneration, methane, peat and coal bed methane. These are occasionally displayed separately.
- **Nuclear** refers to technologies utilising the energy contained within the atomic structure of matter, including both fission and fusion.
- **Hybrid** means plants which use two or more very different resources, such as solar and diesel.
- **Hydroelectric** includes any technology based on the movement or weight of water from a river or reservoir, including pumped storage.
- **Solar** refers to any technology producing electricity using energy from the sun.
- **Wind** refers to any technology producing electricity using energy from the wind.
- **Geothermal** includes any plant using underground temperature differentials to produce power.
- **Wave/tidal** is any technology using the ocean as its source of energy.
- **Biomass** means technology using organic matter as a feedstock, including biogas technologies.

The Atlas is necessarily constrained in the number of projects that can be displayed. For a full list of power generation plants and projects, please visit African Energy Live Data. [www.africa-energy.com/database](http://www.africa-energy.com/database)

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**Cover illustration**

Power generation data including installed capacity, fuel mix breakdown figures and PPAs signed are for end 2017 and taken from African Energy Live Data – a platform providing project level detail on more than 5,000 generation projects and a full suite of tools to analyse electricity sector statistics and demographics alongside the project pipeline.

Electricity access data for 2016 is sourced from the SEforALL/World Bank database.

Data for oil and gas reserves is for 2017 and taken from the BP Statistical Review of World Energy, June 2018.

Population data is sourced from the IMF.
AFRICAN ENERGY ATLAS • 2018/2019 EDITION

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www.africa-energy.com/news-centre

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**2017 Oil Production**

- Total: 53,000 b/d
- % of African total: 0.7
- Proved reserves: 400m bbls

Source: BP Statistical Review of World Energy, June 2018