



Africa power sector scorecard published in new African Energy Atlas

A power sector scorecard published in the new edition of the African Energy Atlas, shows that a net 15.5GW installed capacity was added in Africa in 2017.

The scorecard draws on [African Energy Live Data](#) – an online platform providing constantly monitored project level detail on more than 5,000 operating, under-construction and pipeline electricity generation projects – to provide a snapshot of the state of the electricity sector during the previous calendar year.

It illustrates whether electricity generation is expanding at the same rate as population and GDP growth (with projections for the period through to 2023), whether renewable energy use is increasing and if the rate of increase is being sustained, and whether reliance on costly fuel oils is being reduced.

	Installed capacity kept up with population	Increase in installed capacity growth rate	Installed capacity kept up with GDP	Proportion of renewables increased	Proportion of new renewables* increased	Increase in new renewables growth rate	Proportion of liquid fuels** decreased
AFRICA	YES (7.9% / 2.5%)	YES (7.9% / 6.7%)	YES (7.9% / 3.0%)	YES (20.9% / 20.8%)	YES (4.7% / 4.2%)	NO (20% / 28%)	YES (10.1% / 10.3%)
North Africa	YES (9.6% / 2.1%)	YES (9.6% / 6.0%)	YES (9.6% / 3.5%)	NO (8.8% / 9.1%)	YES (3.5% / 3.2%)	NO (17% / 30%)	YES (6.0% / 6.6%)
West Africa	YES (4.9% / 2.7%)	NO (4.9% / 7.5%)	YES (4.9% / 2.5%)	YES (21.1% / 20.6%)	YES (1.9% / 1.5%)	YES (34% / 27%)	NO (16.7% / 16.2%)
Central Africa	NO (2.3% / 2.8%)	YES (2.3% / 0.3%)	YES (2.3% / 0.6%)	YES (65.3% / 64.8%)	YES (0.4% / 0.1%)	YES (279% / 18%)	YES (11.7% / 11.9%)
East Africa	YES (4.5% / 2.5%)	NO (4.5% / 15.1%)	NO (4.5% / 5.4%)	YES (61.7% / 61.5%)	YES (10.6% / 10.4%)	NO (7% / 12%)	NO (27.0% / 26.9%)
Southern Africa	YES (8.3% / 2.4%)	YES (8.3% / 6.2%)	YES (8.3% / 1.5%)	YES (23.2% / 22.3%)	YES (6.3% / 5.4%)	NO (27% / 34%)	NO (8.8% / 8.6%)

*new renewables excludes hydropower

**only plants running exclusively on liquid fuels are included in this figure

Sources: population and GDP from the International Monetary Fund (2018); African Energy Live Data © African Energy 2018 (www.africa-energy.com)

First published in December 2007, the African Energy Atlas has become an indispensable resource for all energy industry professionals, policy makers and academics with an interest in the continent.

Key Atlas Live Data findings

- Net 15.5GW installed capacity added in Africa in 2017.
- Installed capacity kept up with population growth in all regions except Central Africa
- Installed capacity kept up with GDP growth in all regions except East Africa
- Only West Africa and Central Africa showed an increase in new renewables growth rate (new renewables excludes hydropower)
- 27.9GW scheduled to come online in 2018 but only 9GW was commissioned by July.
- A net 66GW is scheduled to be added in 2018-2020. North Africa will account for almost half, with 31GW. West Africa will add 13GW, and East and Southern Africa around 10GW each. Central Africa currently has only 1GW planned.
- Natural gas is the big story, accounting for 45% of scheduled capacity additions from 2018-2020. However, gas development is heavily concentrated in North Africa. Solar and wind will make some inroads but there is large scope for improvement, with the technologies accounting for 9% and 7% respectively of scheduled additions.



- In sub-Saharan Africa, including South Africa, scheduled capacity additions are mainly from hydropower (32%) and natural gas (26%), along with coal (13%) and solar (12%). Wind accounts for 7% of scheduled new capacity while geothermal and biomass combined will only account for 4%.
- Power purchase agreements (PPAs) have become more common since 2010 but progress has not been consistent, with notable lulls in 2014 and 2017.
- 19% of projects signing PPAs in 2013 and 41% of those signing in 2014 have still not begun construction, and the situation self-reinforces as long lead times to financial close frequently result in PPAs becoming outdated and renegotiated.
- Although there is expected to be some diversification of ownership, the current project pipeline suggests 77% of capacity will remain state-owned in 2020, down from 82% in 2010.

Features of the 2018/2019 Atlas:

- New power maps covering every country and illustrating the relative size and basic status (operating, construction phase, or planned) of power generation projects.
- More detailed illustration of power generation infrastructure sites by fuel type/primary energy source.
- Electricity T&D infrastructure, showing the current state and planned extension of national grids and regional and cross-border power interconnectors.
- African Energy Live Data scorecard - illustrating progress made with key power sector indicators
- Exclusive African Energy Live Data analysis focused on installed capacity, the project pipeline to 2023, private sector projects and renewable energy trends.
- A country-by-country breakdown of installed generation capacity by fuel type.
- Key country data on generation plants that are operating and projects that are under construction or planned with links to African Energy Live Data- allowing the reader to quickly look up a project location and select up-to-date key data on a web-based map.
- Overview of oil and gas exploration and production across the continent and the state of associated infrastructure such as pipelines, tanker terminals, LNG and FLNG installations.
- Additional detail on key oil and gas producing countries and areas including Algeria (double-page map), Egypt (three maps, with detailed examination of the Nile Delta, Western Desert and Red Sea regions), Nigeria (three maps including two devoted to the Niger Delta), Angola (providing greater detail of the Cabinda offshore and Lower Congo Basin) and the Ruvuma Basin straddling the Tanzania and Mozambique offshore.
- Updated double-page map illustrating Africa's oil refineries, CTL and GTL plants
- Fully searchable pdf helps readers locate projects quickly

For full details see <http://www.africa-energy-atlas.com>

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About African Energy Live Data

Launched in September 2017, African Energy Live Data is an innovative and interactive data platform that is changing the way investors and developers identify power plants and analyse markets across the continent.

- The culmination of over 20 years of knowledge, expertise and research, Live Data provides project level detail on more than 5,000 generation projects
- It includes a full suite of tools to analyse electricity sector statistics and demographics alongside the project pipeline.
- Live Data is created and maintained by African energy sector experts who are constantly monitoring data.
- We contact stakeholders to verify project profiles, with information subjected to a rigorous fact checking process.

Key features:

- **Live-updated online database** featuring more than 5,000 power plants across Africa.
- **Detailed project data** with concise background and project history, installed capacity, project pipeline, ownership, financing, GIS location, fuel, technology, critical milestones, capex and contractual data.
- **Data tool** – a full suite of tools to analyse electricity sector vital statistics and demographics alongside the project pipeline.
- **Interactive GIS-based map** interface.
- **Responsive data filter** panel.
- **Country-focused indicators** of the IPP and renewable energy investment climate.
- **Based on 19 years of data-gathering** by African Energy.
- **Verified** to African Energy staff's high standards of accuracy.
- **Planned service expansion** into transmission and critical infrastructure.

About African Energy

Established in 1998, African Energy is a trusted provider of consultancy, data and news services designed to support decision-making throughout all stages of the project and investment lifecycle.

<http://www.africa-energy.com/>