Aloe Energy research

Grows where the grid hasn't.

The West African Power Pool today

The high-voltage grid and the power plants running in November 2026

16 countries · 49,962 km of lines, 66 kV and above · 294 power plants of 10 MW and above (34,428 MW)

Edition 1 · Data as of November 2026



How to read the map

- 400 kV
- 330 kV
- 220 kV
- 132 kV
- 110 kV
- 88 kV
- 66 kV
- Voltage not recorded
- Dotted: missing from OpenStreetMap, from utility or World Bank maps
- Grey: lines in neighboring countries

Power plants, 10 MW and above

- Hydro
- Coal
- Gas
- Oil
- Solar
- Wind
- Biomass
- Other

50 MW · 500 MW · 2,000 MW

Town or city

In numbers

- **34 GW** in 294 operating power plants of 10 MW and above
- **49,962 km** of mapped transmission lines, 66 kV and above
- **395** substations mapped
- **54%** of operating capacity is gas

What runs the region today



- Gas 18,589 MW (54%)
- Hydro 7,400 MW (21%)
- Oil 5,481 MW (16%)
- Solar 1,575 MW (5%)
- Coal 568 MW (2%)
- Wind 387 MW (1%)

Largest power stations

Egbin (NGA, gas)	1,320 MW
Akosombo hydro (GHA, hydro)	1,020 MW
Afam (NGA, oil)	822 MW
Kainji hydro (NGA, hydro)	760 MW
Olorunsogo II (NGA, gas)	754 MW
Azito (CIV, gas)	713 MW
Zungeru hydro (NGA, hydro)	700 MW
Afam VI (NGA, gas)	650 MW
Shiroro hydro (NGA, hydro)	600 MW
Ughelli (NGA, gas)	600 MW
Jebba hydro (NGA, hydro)	578 MW
Lekki Refinery (NGA, gas)	570 MW

Plus 282 smaller plants on the map.

Sources. Transmission lines: contains information from OpenStreetMap, which is made available under the Open Database License (ODbL), extracted 4 November 2026; lines missing from OpenStreetMap from World Bank 2017 Africa grid. Power plants: Global Energy Monitor Global Integrated Power Tracker (September 2026, CC BY 4.0), a project register built from public sources, WRI Global Power Plant Database v1.3, OpenStreetMap and the World Bank AICD inventory. Transmission projects: utilities, power pools, funders and news reports; master plans: WAPP master plan 2019-2033. Towns: GeoNames (CC BY 4.0). Boundaries: Natural Earth.

Routes are indicative, drawn substation to substation. This map is for information only, not for engineering, investment or navigation decisions. Boundaries and names do not imply any view on their status. Free to print and share for non-commercial use with credit to Aloe Energy, unchanged (CC BY-NC-ND 4.0). Download both sheets at aloeenergy.org/posters. The companion sheet shows the plans to 2035 and beyond.

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