Aloe Energy research

Grows where the grid hasn't.

The Eastern Africa Power Pool today

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

7 countries · 51,030 km of lines, 66 kV and above · 190 power plants of 10 MW and above (24,476 MW)

Edition 1 · Data as of November 2026



How to read the map

- 500–533 kV
- 400 kV
- 330 kV
- 220 kV
- 132 kV
- 110 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
- Gas
- Oil
- Solar
- Wind
- Geothermal
- Biomass
- Storage
- Other

50 MW · 500 MW · 2,000 MW

Town or city

In numbers

- **24 GW** in 190 operating power plants of 10 MW and above
- **51,030 km** of mapped transmission lines, 66 kV and above
- **514** substations mapped
- **76%** of operating capacity is hydro

What runs the region today



- Hydro 18,715 MW (76%)
- Oil 1,721 MW (7%)
- Wind 1,176 MW (5%)
- Solar 868 MW (4%)
- Geothermal 752 MW (3%)
- Gas 553 MW (2%)

Largest power stations

Grand Ethiopian Renaissance Dam (GERD) (ETH, hydro)	**5,150 MW**
Julius Nyerere (TZA, hydro)	**2,115 MW**
Gilgel Gibe III hydro (ETH, hydro)	**1,870 MW**
Inga II hydro (COD, hydro)	**1,424 MW**
Gilgel Gibe V (ETH, hydro)	**660 MW**
Karuma (UGA, hydro)	**600 MW**
Beles hydro (ETH, hydro)	**460 MW**
Gilgel Gibe II hydro (ETH, hydro)	**420 MW**
Inga I hydro (COD, hydro)	**351 MW**
Lake Turkana wind (KEN, wind)	**310 MW**
Tekeze I hydro (ETH, hydro)	**300 MW**
N'Seke hydro (COD, hydro)	**260 MW**

Plus 178 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 Kenya Power (KPLC GIS), SNEL / World Bank DRC EASE (2018), route approximate, TANESCO / AICD, World Bank 2017 (DRC), 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: EAPP master plan 2014; SAPP master plan 2025-2045 (draft). 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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Edition 1, November 2026