Aloe Energy research

Tanzania’s power grid today

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

9,206 km of lines, 66 kV and above · 27 power plants of 10 MW and above (3,870 MW)

Grows where the grid hasn’t.

Edition 1 · Data as of November 2026



How to read the map

- 400 kV
- 220 kV
- 132 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
- Biomass
- Other

20 MW · 200 MW · 1,000 MW

Town or city

In numbers

- **3.9 GW** in 27 operating power plants of 10 MW and above
- **9,206 km** of mapped transmission lines, 66 kV and above
- **64** substations mapped
- **75%** of operating capacity is hydro

What runs Tanzania today



- Hydro 2,894 MW (75%)
- Gas 360 MW (9%)
- Biomass 30 MW (1%)
- Oil 412 MW (11%)
- Solar 150 MW (4%)
- Other 24 MW (1%)

Largest power stations

Julius Nyerere (hydro)	2,115 MW
Songas Ubungo (gas)	207 MW
Kidatu hydro (hydro)	200 MW
Kihansi hydro (hydro)	180 MW
Kishapu solar farm (solar)	150 MW
Lugarawa Old Hydropower Plant (hydro)	150 MW
Tegeta (Diesel) (oil)	100 MW
Tegata (oil)	100 MW
Mtera hydro (hydro)	80 MW
Rusumo hydro (hydro)	80 MW
Pangani Falls hydro (hydro)	68 MW
Nyakato (gas)	63 MW

Plus 15 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 TANESCO / AICD, 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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