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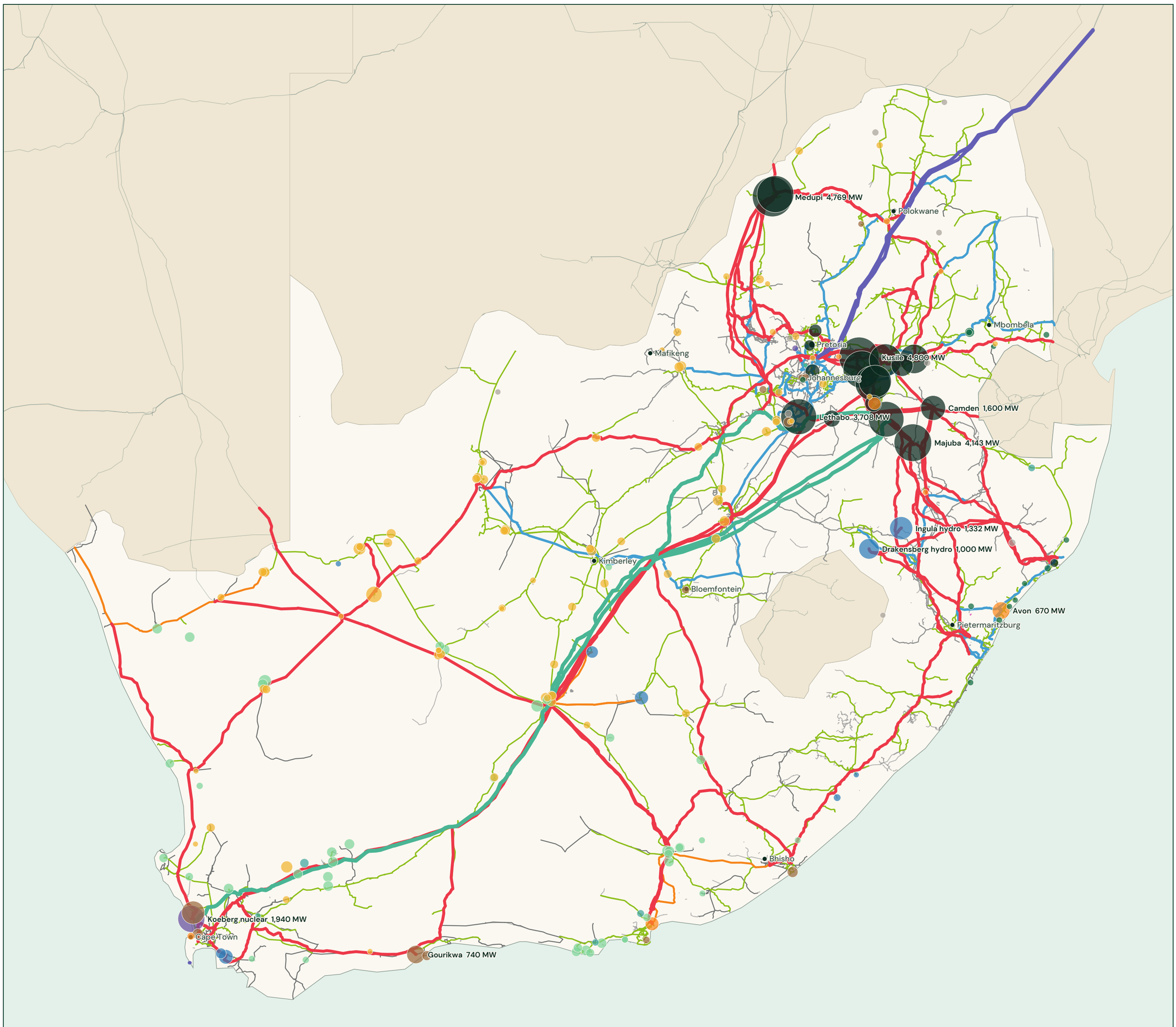
South Africa's power grid today

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

82,409 km of lines, 66 kV and above · 197 power plants of 10 MW and above (67,042 MW)

Grows where the grid hasn't.

Edition 1 · Data as of November 2026



How to read the map

- 765 kV
- 500–533 kV
- 400 kV
- 275 kV
- 220 kV
- Grey: lines in neighboring countries
- 132 kV
- 110 kV
- 88 kV
- 66 kV
- Voltage not recorded

Power plants, 10 MW and above

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

20 MW · 200 MW · 1,000 MW

Town or city

In numbers

- **67 GW** in 197 operating power plants of 10 MW and above
- **82,409 km** of mapped transmission lines, 66 kV and above
- **2,411** substations mapped
- **69%** of operating capacity is coal

What runs South Africa today



- Coal 46,104 MW (69%)
- Solar 6,010 MW (9%)
- Wind 4,316 MW (6%)
- Hydro 3,558 MW (5%)
- Oil 2,933 MW (4%)
- Nuclear 1,960 MW (3%)

Largest power stations

Kusile (coal)	4,800 MW
Medupi (coal)	4,769 MW
Majuba (coal)	4,143 MW
Kendal (coal)	4,116 MW
Matimba (coal)	3,990 MW
Lethabo (coal)	3,708 MW
Tutuka (coal)	3,654 MW
Matla (coal)	3,600 MW
Duvha (coal)	3,000 MW
Kriel (coal)	3,000 MW
Arnot (coal)	2,352 MW
Koeberg nuclear (nuclear)	1,940 MW

Plus 185 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. 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: 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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