Aloe Energy research

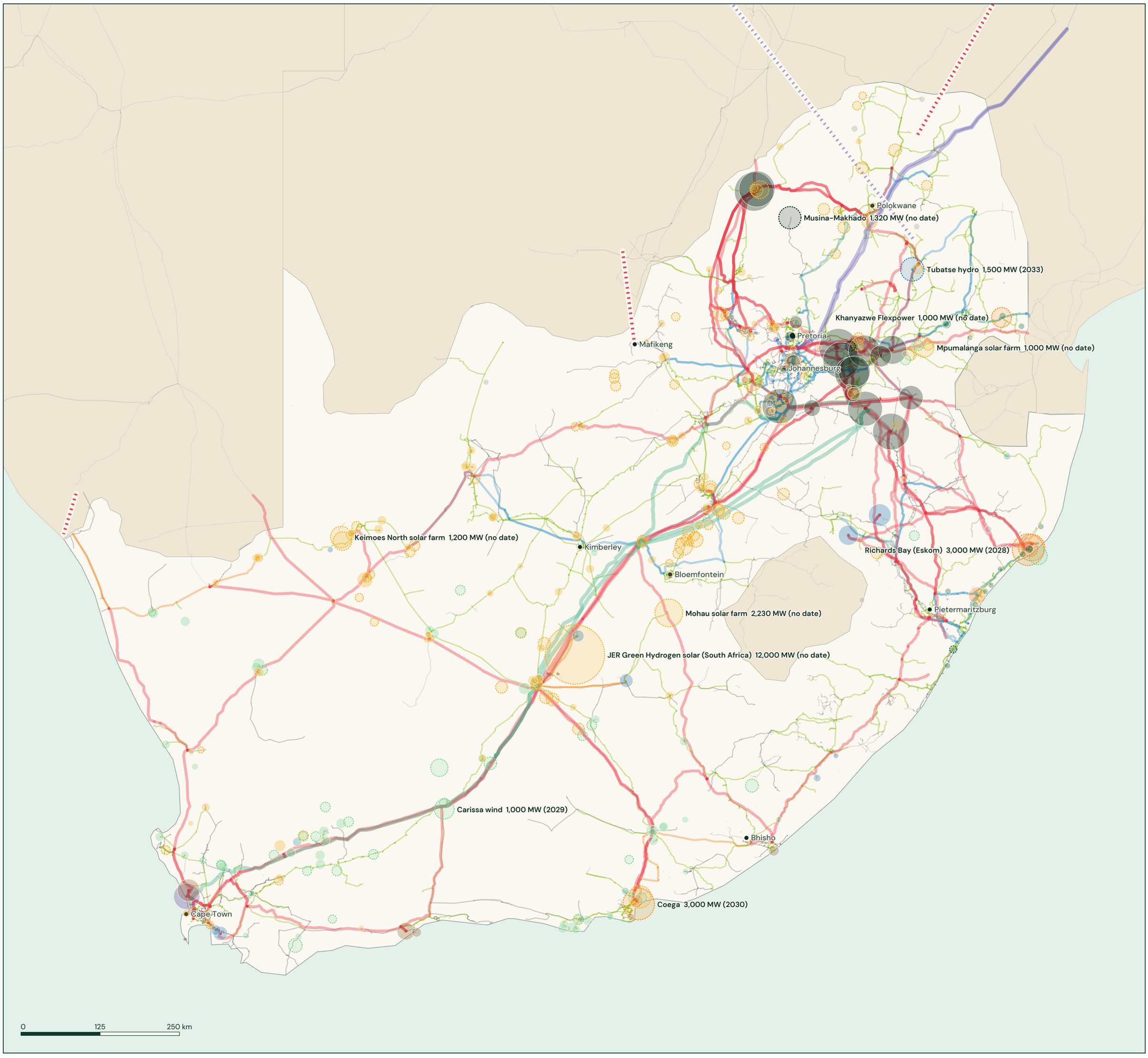
Grows where the grid hasn't.

South Africa's power grid, 2035 and beyond

Planned lines and power plants, drawn over today's grid

137 power plants planned or being built (53,956 MW) · 0 transmission projects · 4 master plan links

Edition 1 · Data as of November 2026



How to read the map

- 765 kV
- 500–533 kV
- 400 kV
- 275 kV
- 220 kV
- 132 kV
- 110 kV
- 88 kV
- 66 kV
- Voltage not recorded
- Grey: lines in neighboring countries
- Dashed: transmission project (indicative route)
- Faint dashed: undated or concept
- Dotted: master plan interconnector

Power plants, 10 MW and above

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

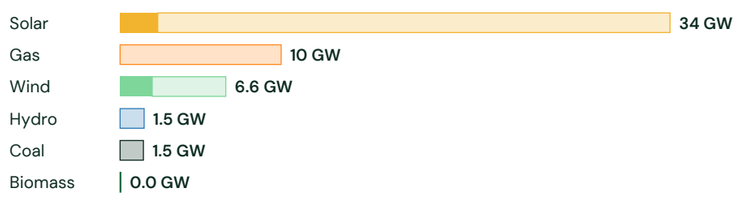
20 MW · 200 MW · 1,000 MW · ring: not yet built

Town or city

In numbers

- **54 GW** in 137 power plants planned or under construction, against 67 GW running today
- **0** transmission projects not yet in service
- **4** interconnectors in the master plan

What is being built and planned



Solid: under construction (4.4 GW). Light: planned (50 GW).

Projects to watch

- **JER Green Hydrogen Solar PV Project (South Africa), 12,000 MW**
  Planned · no date
- **Coega power station, 3,000 MW**
  Planned · 2030
- **Richards Bay (Eskom) power station, 3,000 MW**
  Planned · 2028
- **Mohau solar farm, 2,230 MW**
  Planned · no date
- **Phakwe Richards Bay Power Plant, 2,000 MW**
  Planned · 2030
- **Tubatse hydroelectric plant, 1,500 MW**
  Planned · 2033
- **Coega Green Ammonia Plant solar farm, 1,350 MW**
  Planned · 2028
- **Musina-Makhado power station, 1,320 MW**
  Planned · no date
- **Keimoes North solar farm, 1,200 MW**
  Planned · no date
- **Mpumalanga solar farm, 1,000 MW**
  Planned · no date

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 today's grid.

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