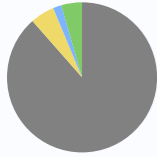


South Africa • Electricity

Gross electricity generation 2020, TWh (%):



- Fossil fuels 197.57 (88.5)
- Nuclear energy 11.62 (5.2)
- Hydroelectricity 4.04 (1.8)*
- Other renewable sources 9.98 (4.5)

Total: 223.21 (100)

Source: Based on the U.S. Energy Information Administration data (Dec 2021).

*including pumped storage

Gas power plants over 100 MW, MW:

- 1 Ankerlig, 1338
- 2 Gourikwa, 746
- 3 Avon, 670
- 4 Dedisa, 335
- 5 Acacia, 171
- 6 Port Rex, 171

Pumped-storage plants over 100 MW, MW:

- 1 Ingula, 1332
- 2 Drakensberg, 1000
- 3 Palmiet, 400
- 4 Steenbras, 180

Hydro power plants over 100 MW, MW:

- 1 Gariep Dam, 360
- 2 Vanderkloof Dam, 240

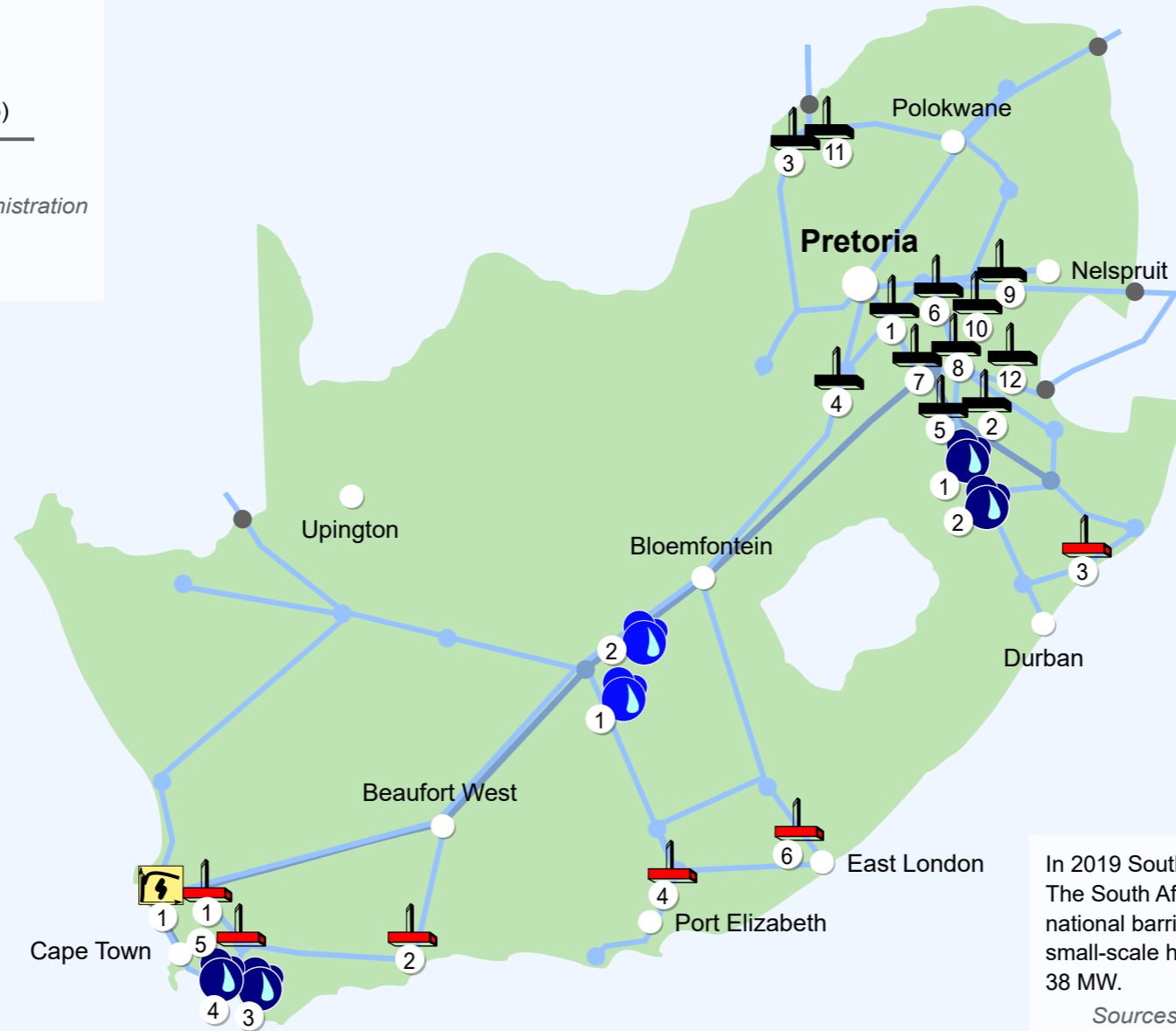
Nuclear power plant, MW:

- 1 Koeberg, 1940

Coal power plants over 1500 MW, MW:

- 1 Kendal, 4116
- 2 Majuba, 4110
- 3 Matimba, 3990
- 4 Lethabo, 3708
- 5 Tutuka, 3654
- 6 Duvha, 3600
- 7 Matla, 3600
- 8 Kriel, 3000
- 9 Arnot, 2352
- 10 Hendrina, 1893
- 11 Medupi, 1588*
- 12 Camden, 1561

* under construction



- 765 kV line in service
- 400-533 kV line in service
- National grid 765 kV of other power plants, grid connection points, substations
- National grid 400-533 kV of other power plants, grid connection points, substations
- Border crossing

In 2019 South Africa had 58.2 GW of electricity installed generating capacity. The South African small hydropower market is less developed due to installed national barriers and limited budget. As of 2016, South Africa registered some small-scale hydropower plants up to 10 MW with a total installed capacity of 38 MW.

Sources: U.S. Energy Information Administration (2020); World Small Hydropower Development Report 2019.