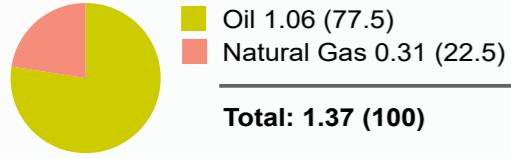


Angola • Fossil fuels and Electricity

Conventional proved reserves by fuels, Billion tonnes of oil equivalent (%):



Source: Based on the U.S. Energy Information Administration data (Sep 2023).

Oil refinery, bpd:

- 1 Luanda, Sonangol, 65 000

Major oil terminals:

- 1 Malongo
- 2 Luanda
- 3 Palanca
- 4 Kuito offshore

LNG export terminal:

- 1 Angola (Soyo) LNG

Natural gas processing plant:

- 1 Cabinda

Oil field Gas field

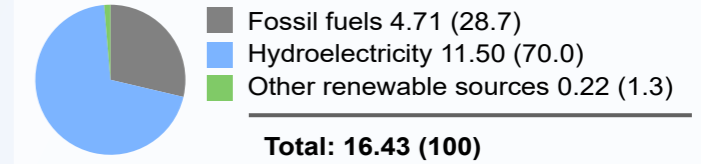
Oil extraction sites Natural gas extraction sites

Natural gas pipeline, offshore
 Crude oil pipeline, offshore
 Border crossing

Bioethanol plants:
 1 Cacuso, Biocom

Combined power plants over 40 MW, MW:
 1 Cazenga, 132
 2 Luanda Bay, 96
 3 Luanda(Rocha Pinto / Morro Bento), 80
 4 Futila, 70

Gross electricity generation 2021, TWh (%):

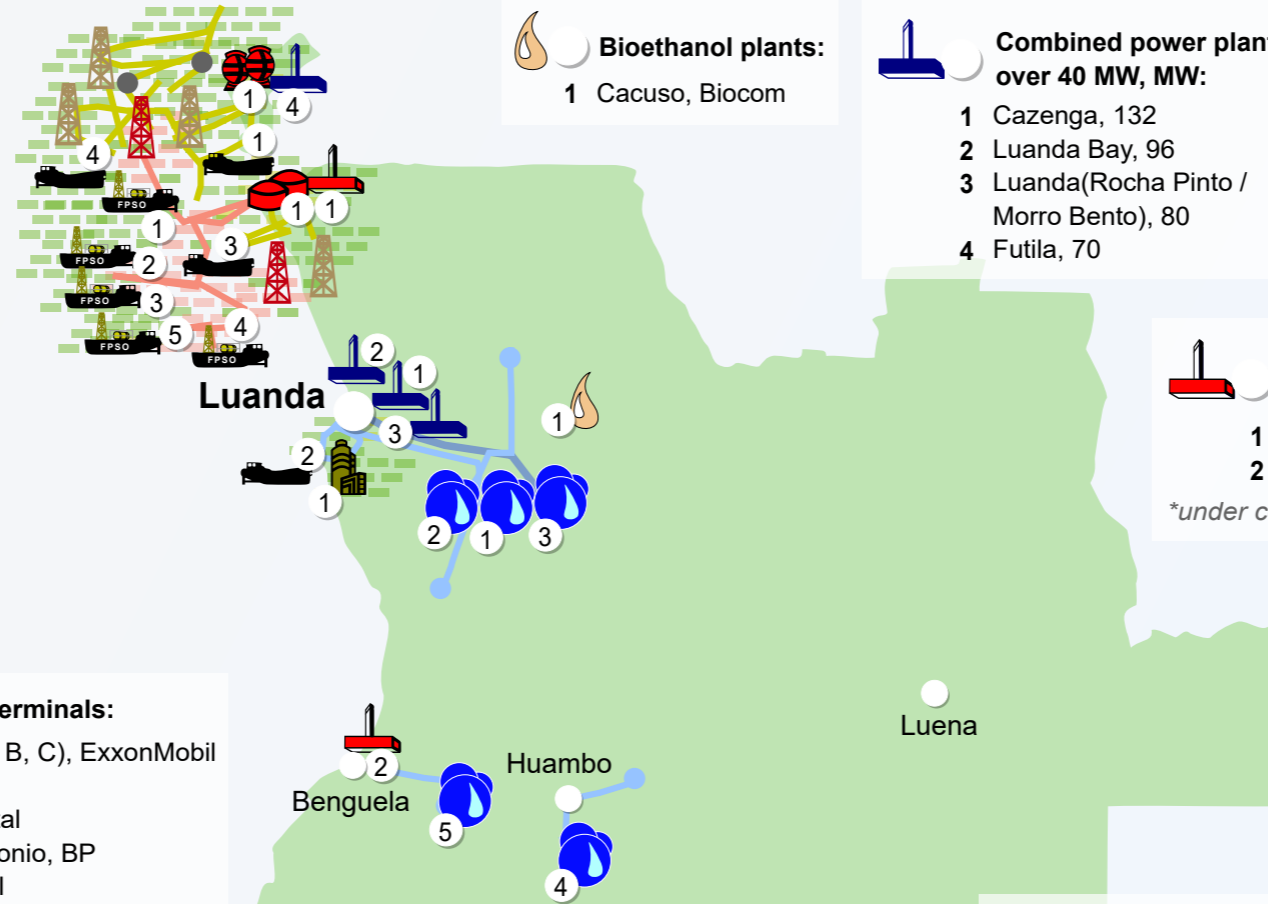


Source: Based on the U.S. Energy Information Administration data (Sep 2023).

Natural gas power plants over 40 MW, MW:
 1 Soyo, 720*
 2 Quileva, 90
 *under construction

Hydro power plants over 50 MW, MW:
 1 Laúca, 2069
 2 Cambambe, 960
 3 Capanda, 520
 4 Gove, 60
 5 Lomaum, 65

400 kV line in service
 220 kV line in service
 National grid 400 kV of other power plants, grid connection points, substations
 National grid 220 kV of other power plants, grid connection points, substations
 Border crossing



In 2019, Angola had 5.6 GW of electricity installed generating capacity. As of 2019, Angola registered 4 small-scale hydropower plants up to 10 MW with a total installed capacity of 13.1 MW.

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

At the end of 2020 Angola had 7.8 billion barrels of proved oil reserves, extracted about 1317.5 thousand barrels of crude oil per day, 12.1 trillion cubic feet of proved natural gas, extracted about 239.0 Bcf of natural gas. Angola's conventional oil infrastructure include one operating oil refineries with a total crude oil processing capacity of 65 000 b/d, some FPSO and oil terminals. There are 1065 km of crude oil and 85 km of liquid petroleum gas pipelines. Conventional natural gas - include one LNG export terminal with a total natural gas processing capacity of 6.8 Bcm per year; some gas processing plants; 352 km of natural gas pipeline.

Sources: U.S. Energy Information Administration (Dec 2021); Central Intelligence Agency; OPEC; Wikipedia.