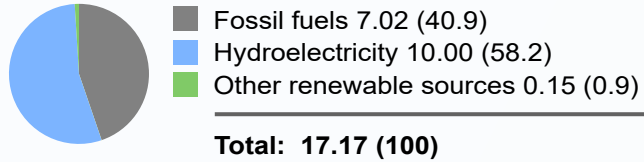


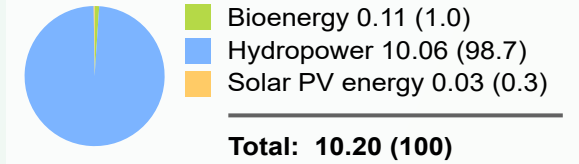
Sudan • Electricity and Renewable energy

Gross electricity generation 2021, TWh (%):



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

Gross electricity generation from renewable sources by 2021, TWh (%)



Source: Renewable Energy Statistics 2023 © IRENA

Oil power plants over 100 MW, MW:

- 1 Al Fula, 540
- 2 Kosti, 500
- 3 Garri 1-2, 420
- 4 Khartoum North, 200
- 5 El Jaili (Garri) 3-4, 200
- 6 Dit Kilo X, 257

Hydro power plants over 100 MW, MW:

- 1 Roseires Dam, 1800
- 2 Merowe Dam, 1250
- 3 Upper Atbara and Setit Dam Complex, 320

Major biomass power plants:

- 1 Abu Hibera, WNSC Sugar Plant
- 2 Kenana Sugar Co. Sugar Plant
- 3 Assalaya Sugar Plant, SSC
- 4 Sennar Sugar Plant, SSC
- 5 New Halfa Sugar Plant, SSC
- 6 Guneid Sugar Plant, SSC

Major bioethanol plants:

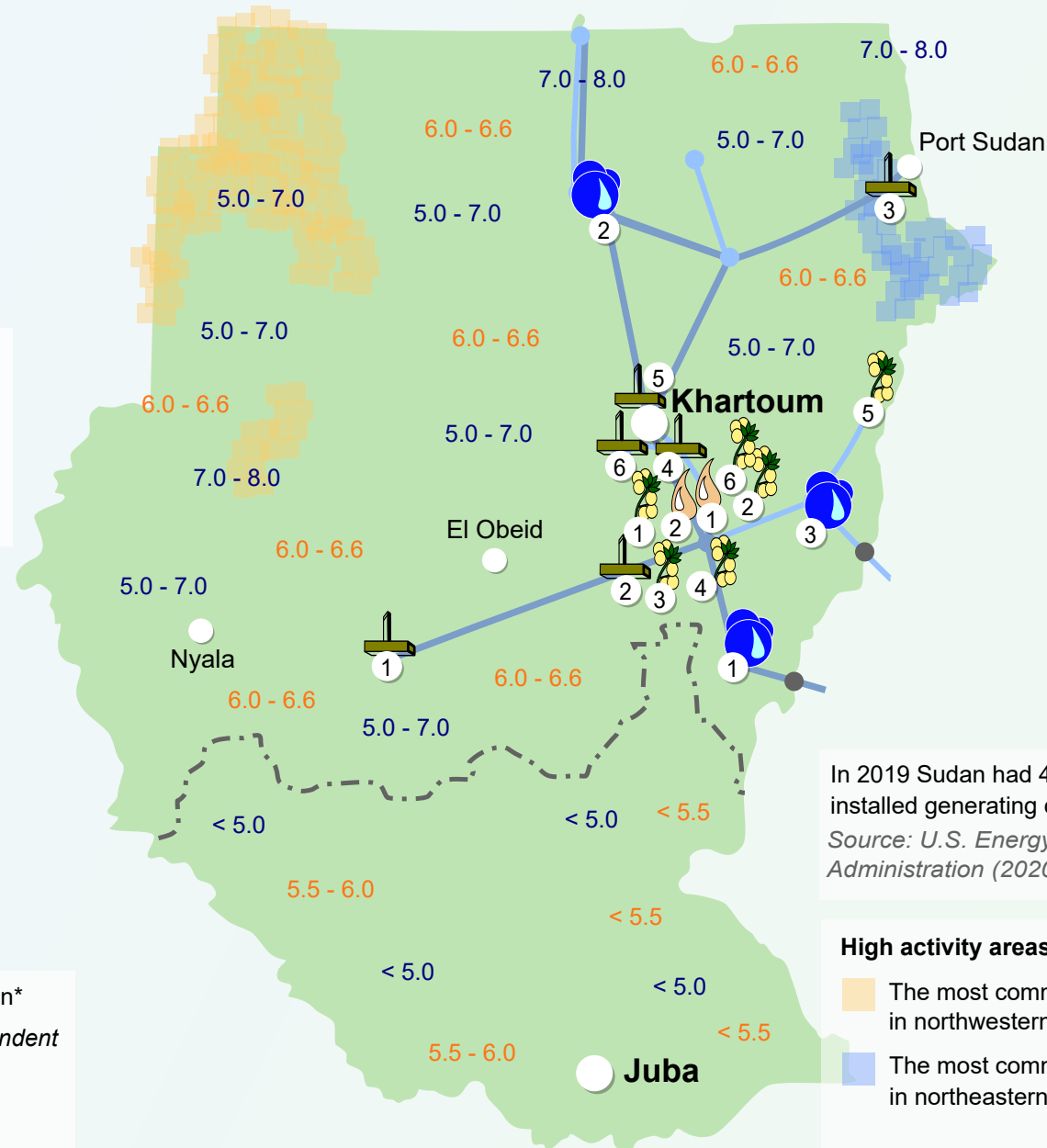
- 1 Kenana Sugar Co.
- 2 Abu Hibera, WNSC Ethanol

- 500 kV line in service
- 220 kV line in service
- National grid 500 kV of other power plants, grid connection points, substations
- National grid 220 kV of other power plants, grid connection points, substations
- Border crossing

--- Borderline between Sudan and South Sudan*

* In 2011 Sudan region was divided into two independent republics - Sudan with Khartoum capital city and South Sudan with Juba capital city.

Source: Wikipedia



In 2019 Sudan had 4.1 GW of electricity installed generating capacity.

Source: U.S. Energy Information Administration (2020).

High activity areas:

- The most common solar GHI intensity is 6.6 - 6.8 kWh/m² per day, distributed in northwestern part of country, between Egypt, Libya and Chad borders.
- The most common wind speed is over 8.0 m/s per year at 50 m are distributed in northeastern part of country, in state of Red Sea, along the Red Sea coastline.

Source: Energydata.info