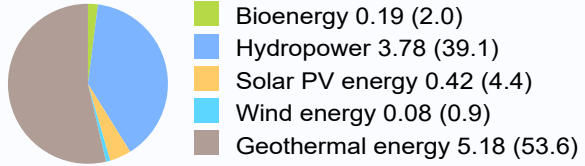


# Kenya • Renewable energy

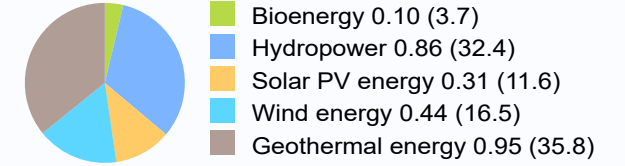
## Gross electricity generation from renewable sources by 2021, TWh (%)



**Total: 9.66 (100)**

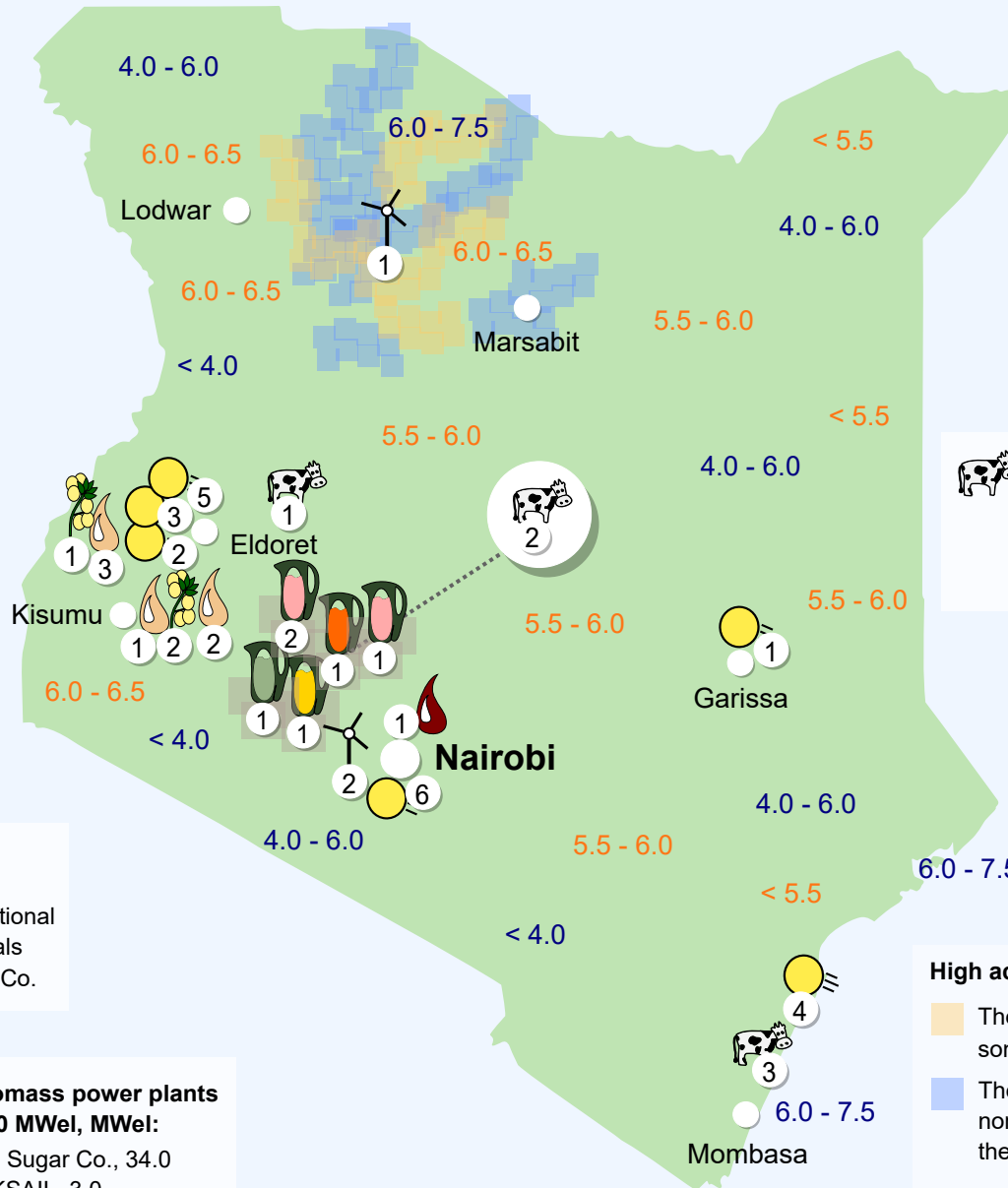
Source: Renewable Energy Statistics 2023 © IRENA

## Total installed renewable energy power capacity by 2022, GW (%)



**Total: 2.65 (100)**

Source: Renewable Energy Statistics 2023 © IRENA



**Combinated type geothermal power plants over 1.0 MWe, MWe:**

- 1 Olkaria 1-5, 727.0

**Single flash type geothermal power plants over 1.0 MWe, MWe:**

- 1 Eburru, 2.4
- 2 Menengai 1-3, 105.0\*

\* under construction

**Binary type geothermal power plants over 1.0 MWe, MWe:**

- 1 Oserian, Unit-1, 2.0

**Back pressure type geothermal power plants over 1 MWe, MWe:**

- 1 Oserian, Unit-2, 1.8

**Biodiesel plant:**

- 1 Nairobi, Zijani

**Bioethanol plants:**

- 1 Kisumu, Spectre International
- 2 Muhoroni, Agro Chemicals
- 3 Mumias, Mumias Sugar Co.

**Key biomass power plants over 1.0 MWe, MWe:**

- 1 Mumias Sugar Co., 34.0
- 2 Kibos, KSAIL, 3.0

**Key biogas plants:**

- 1 Baringo (Cummins)
- 2 Biojoule (Gorge Farm)
- 3 Kilifi

**Key solar PV power plants over 1.0 MWe, MWe:**

- 1 Garissa, 54.7
- 2 Keesses-1, Alten, 55.0\*
- 3 Eldosol, 40.0\*
- 4 Malindi, 40.0\*
- 5 Radiant, 40.0\*
- 6 Kenyatta University Solar, 10.0\*

\* under construction

**Key wind farms over 1.0 MW, MW:**

- 1 Lake Turkana, 310.2
- 2 Ngong Hills, 25.5

0.0 kWh/m<sup>2</sup>/d Global Horizontal Irradiation (GHI)  
0.0 m/s Wind speed

**High activity areas:**

- The most common solar GHI intensity is 6.5 - 6.8 kWh/m<sup>2</sup> per day, distributed in some places of the northwest area, between Eastern and Rift Valley provinces.
- The most common wind speed is over 7.5 m/s at 50 m are distributed in the northwest part of country, mainly in Eastern province and along the coastline of the Lake Turkana.