

What type of energy is used in Africa?

Gas and oil (6% of total in Africa) dominate in north African countries, whereas coal is mainly exploited in South Africa. Nuclear (2% of total in Africa) and geothermal power (1% of total in Africa) have a minor role in the continental electricity generation mix.

What percentage of Africa's electricity comes from renewables?

The International Renewable Energy Agency (IRENA) states that 23.1% of the total electricity capacity installed in 2021 in Africa came from renewables, which is 15.2% less than the worldwide renewable electricity capacity.

How much electricity is produced in Africa a year?

A total of 841 terawatt hours (TWh) of electricity is generated in Africa annually (census 2020), mainly by natural gas (41%), coal (29%) and hydropower (18%). Gas and oil (6% of total in Africa) dominate in north African countries, whereas coal is mainly exploited in South Africa.

How much electricity would Africa generate if all proposed plants were implemented?

If all proposed plants were implemented, Africa would generate 1,225 TWh from renewable resources (hydropower, solar power and wind power) (Fig. 3). The International Energy Agency projects for 2040 a continental electricity demand of 1,614 TWh (the Stated Policies Scenario) to 2,321 TWh (Africa case).

Data insight on the top 5 African countries in solar energy capacity, highlighting trends, investment drivers and what they mean for Africa's transition.

Africa's clean energy investment surges as solar and storage lead economic growth despite financing and grid infrastructure challenges.

North Africa's energy potential--spanning hydrocarbons, solar, wind, and green hydrogen--positions the region to support Europe's clean energy transition and sub-Saharan Africa's ...

Africa's energy transition gained measurable ground in 2025, as five landmark solar projects reached completion across North, East and Southern Africa.

Africa recorded its strongest year for solar energy growth in 2025, with South Africa and Nigeria emerging as the leading contributors to new capacity, policy progress, and private-sector ...

The Africa Market Outlook for Solar PV: 2026-2029 is the Global Solar Council's flagship annual analysis of solar and storage deployment across the African continent. Building on the latest ...

Africa's solar energy market continues to grow significantly. In 2025, the continent added more than 5,000 MW solar power capacity. In this article, we breakdown countries leading this drive.



Solar power in North Africa

An all-Africa dataset of energy model "supply regions" for solar photovoltaic and wind power Article Open access 31 October 2022

As a result, North Africa leads the African continent in new utility-scale wind and solar deployment, and is home to almost half of Africa's total installed wind power generation capacity, as ...

The North African region, encompassing countries like Algeria, Egypt, Libya, Morocco, and Tunisia, is endowed with abundant solar energy potential due to its favorable climate and geographical positioning.

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