

Power Distribution in Ethiopia



Overview

The World Bank-supported Ethiopia Electrification Program (ELEAP), has facilitated over 1.6 million on-grid connections, providing electricity to more than 8 million people, and more than 19,000 public facilities such as schools, healthcare centers, and administrative government. Lineman on a conductor bundle of the Ethiopia-Kenya 500 kV HVDC Interconnector (power line under construction) in Ethiopia. Ethiopia has abundant resources that can generate 60,000 TWh electricity from hydroelectric, wind, solar and geothermal sources. 1 Electrification Dataset, World Bank (WB), uri: trackingsdg7.org/downloads, note: Data is downloaded from ESMAP website. People's. Learn about the market conditions, opportunities, regulations, and business conditions in Ethiopia, prepared by at U. Embassies worldwide by Commerce Department, State Department and other U. agencies' professionals Energy is one of the most significant sectors for Ethiopia's economic growth. Electricity can be generated in two main ways: by harnessing the heat from burning fuels or nuclear reactions in the form of steam (thermal power) or by capturing the energy of natural forces such as the sun, wind or moving water. 4% of the population in 2023 (94.6%), with per-capita electricity consumption

of 97 kWh, significantly lower than the average for Africa at 500 kWh.

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Ethiopia has abundant resources that can generate 60,000 TWh electricity from hydroelectric, wind, solar and geothermal sources. The electrification process causes GDP growth and high public ...



Key challenges include transmission and distribution gaps and a hydro-dominated energy mix that is impacted by droughts. Demand for electricity is projected to grow at 13.7% p.a. to reach 62,000 GWh ...



Ethiopia has made significant progress in energy access in recent years; however, despite a 94% electrification rate in urban areas, around 60 million Ethiopians remain without ...



Access to electricity (% of population) - Ethiopia
SDG 7.1.1 Electrification Dataset, World Bank (WB), uri: [trackingsdg7.esmap /downloads](https://trackingsdg7.esmap.com/downloads), note: Data is downloaded from ESMAP website.



Power generation, which includes electricity and heat, is one of the largest sources of CO2 emissions globally, primarily from the burning of fossil fuels like coal and natural gas in thermal power plants.



According to the CNS Methodology of Wind Energy Resource Assessment for Wind Farm, the below shows share of area suitable for grid-connected power generation and small-scale off-grid power ...



Addis Ababa, May 2, 2026 —The Ethiopian Electric Power (EEP) announced that Ethiopia has significantly expanded its power generation capacity and electricity access over the past seven ...



Ethiopia has abundant renewable energy resources and has the potential to generate over 60,000 megawatts (MW) of electric power from hydroelectric, wind, solar, and geothermal sources.



The MoWIE and the EEA currently oversee two state-owned market players active in the electricity sector value chain, Ethiopia Electric Power (EEP) and Ethiopia Electric Utility (EEU).



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Electric power distribution & transmission losses as a share of output reached 23.1% in 2022 in Ethiopia, according to World Bank / EIA. This is 0.009% more than in the previous year.

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