

Does Ethiopia need a low-cost energy supply system?

The selection of least-cost technologies to supply energy is crucial for Ethiopia to meet the projected energy demand (specifically electricity) if the country is to achieve universal electricity access.

How much energy does Ethiopia use?

The review shows that energy supply and consumption in Ethiopia are dominated by bioenergy (88%) and by households (88%), respectively. Electricity barely accounts for 3% of the total energy supply although its generation has increased by more than four times between 2004/05 and 2018/19.

What is the primary source of energy in Ethiopia?

The primary source of energy in Ethiopia is biomass, which accounts for 91% of energy consumed. Petroleum supplies about 7% of total primary energy and electricity accounts for only 2% of total energy use. Biomass consumption accounts for over 98% of total supply in the residential sector.

What are the energy development indicators in Ethiopia?

Summary of statistical and projected Ethiopian energy development indicators. Per capita CO<sub>2</sub> emissions in Ethiopia are relatively low as the country produces electricity mostly from hydropower.

Why is energy demand increasing in Ethiopia?

This results in a 300% increase in related oil consumption. To meet the needs of its growing population, Ethiopia remains a large producer of cement causing energy demand to increase significantly in both scenarios. Ethiopia currently has an electricity access rate of 45%, 11% of its population already have access through decentralised solutions.

Does Ethiopia have hydro & solar energy resources?

Most of the Ethiopian rural country has abundant hydro and solar energy resources. From the total exploitable capacity of 45 000 MW, installed capacity accounts for 4330 MW [1,2] and the estimated potential of small and micro hydro is 10%.

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In this study, we refer to energy transition as energy system change that involves increasing the per capita energy supply, diversifying the total as well as end user-specific energy sources, and promoting decentralized energy systems that would substantially increase the role of private sector and local actors.

developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS).

Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided

Ethiopia has the third largest energy access deficit in Sub-Saharan Africa with about half the population still without access to reliable electricity. Over the past decade, the Government of Ethiopia has made encouraging progress on its electrification program and expanded the grid network coverage to nearly 60% of towns and villages.

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Ethiopia is rich in energy resources, but its citizens are energy poor and access to energy is a development imperative. The legal and institutional framework to facilitate electricity procurement from independent producers has taken off from a solid foundation and resulted in several ongoing projects.

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Ethiopia is currently heavily reliant on hydropower; plans to increase capacity to 13.5 GW by 2040 would make Ethiopia the second-largest hydro producer in Africa. Providing electricity access to all and electrifying productive uses will lead to a fivefold increase in generation in the STEPS, and an even bigger increase in the AC; solar PV and ...



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