

Can energy transition support the SDGs in Ethiopia?

Ethiopia is endowed with a variety of renewable energy resources. This enormous potential however remains largely unexploited. Energy poverty, inefficiency, and insecurity are still major challenges. Energy transition could support almost all SDGs in the country.

Why does Ethiopia need an electrification program?

This is essential to sustain the country's fast pace of electrification," said Ousmane Dione, World Bank Country Director for Ethiopia, Eritrea, South Sudan and Sudan. The program, together with other ongoing and planned energy projects, can potentially support the entire population of the country over the program's lifetime.

Can hydropower and bioenergy crops compete for agricultural resources in Ethiopia?

On the other hand, however, hydropower and bioenergy crops may compete for agricultural resources such as water, cropland, and pastureland. Ethiopia has an estimated 23.3 and 0.7 million ha of land suitable for growing *Jatropha curcas* (for biodiesel) and sugarcane (for bioethanol), respectively.

Does Ethiopia have a good energy system?

These and other features reveal that Ethiopia lacks a modern, flexible, reliable, and affordable energy system that could withstand its fast-growing energy demand due to high growth rates of population, urbanization, and industrialization [1]. The existing energy system impinges on the quality of the environment in several ways.

Is Ethiopia a role model for energy development in Sub-Saharan Africa?

Ethiopia is emerging as a role model for energy development in Sub-Saharan Africa and around the world. By addressing the challenge of access from many angles, Ethiopia has made and continues to make great strides toward reaching universal access.

Which sector consumes the most energy in Ethiopia?

All in all, energy consumption in Ethiopia continues to be dominated by the residential sector which accounts for 95% in 1990 and 88% in 2018. During the same period, the shares of industry and transport sectors grew, respectively, from 1.3 to 3.7%, and from 1.8 to 5.5%.

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.

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Ethiopia has taken the first step to decreasing the high percentage of losses by building a new Load Dispatch Center (LDC). This aims to not only reduce technical losses but improve the control and management of power plants and substations, and enhance the integration of new renewable energy power plants into the transmission system.⁹

A new World Bank program is set to strengthen and expand the electricity network, improve sector financial viability, and enable renewable energy generation through private sector participation in Ethiopia.

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Ethiopia's energy sector transformation By assisting the Government of Ethiopia in incorporating gender-focused solutions, bolstering markets for off-grid products, and scaling up private sector participation in the country's vast renewable energy resources,

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