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Ethiopia Energy Storage Project Layout

Overview

This paper introduces an innovative approach to promote sustainable electrification in Ethiopia through the strategic development of minigrid clusters. In collaboration with Ethiopian authorities, techni.

Why is energy system modelling a problem in Ethiopia?

Organisations of the United Nations, and other overseas research institutions are responding to the need to build up energy system modelling and planning capacity in Ethiopia under various projects, which is leading to a duplication of activities, disorganised learnings for local trainees, and thus wasted resources.

What is Ethiopia's electricity generation capacity?

Hydropower dominates Ethiopia’s installed electricity generation capacity, and in 2019 it accounted for over 4.2GW. Generators using wind, diesel, biomass, geothermal, and solar energy bring the country’s 2019 total installed capacity to just under 5GW (MOWIE, 2019).

What is MTF-based load assessment in Ethiopia?

MTF-based load assessment in Ethiopia MTF is focusing on the multiple dimensions of measuring energy access to provide people-centric energy services for various household levels, considering energy consumption patterns, economics condition and willingness to pay the bill (MTF, 2022).

Is there a minigrid Cluster project in Ethiopia?

Currently, there is no minigrid cluster project in Ethiopia, but they have plans (Federal Democratic Republic of Ethiopia National Electrification Program.).

Is centralized hydroelectric power plant a viable option in Ethiopia?

The landform and scattered population in Ethiopia, especially in rural areas, makes the centralized hydroelectric power plants challenging and costly (Seboka, 2017). The construction of hybrid minigrids is considered as an effective method. Government of Ethiopia (GOE) is now diversifying the

generation mix with other renewable sources.

How much electricity does Ethiopia save a year?

In the Ambition scenario – where growth in household demand is highest – cumulative savings amount to over 1.08 million GWh, or an average of over 22,000 GWh saved per year. To put this into context, Ethiopia’s residential electricity demand in 2017 was 5,180 GWh, and in the Ambition scenario reached approximately 128,000 GWh in 2065.

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