

Which battery configuration is best for wind turbines in Addis Ababa?

Of all feasible systems, the Wind Turbine (WT)/PV/LI, PV/LI and WT/PV/LI configurations have the highest values of NPC and COE in Addis Ababa, Jijiga and Bahir Dar. Using this configuration, the results demonstrate that ZnBr battery is the most favorable choice because the economic parameters, including total NPC and COE, are found to be lowest.

Is electric vehicle charging feasible in Ethiopia?

This paper focuses on the feasibility and techno-economic analysis of electric vehicle charging of PV/wind/diesel/battery hybrid energy systems with different battery technology, which is the first in Ethiopia, and includes PV and Wind power sources, different technology battery storage, diesel generator and grid connection.

What is the renewable fraction in Addis Ababa?

Furthermore, in Addis Ababa, Jijiga and Bahir Dar, the renewable fraction, which is the percentage of energy provided to the load that comes from renewable power sources, was 92.8%, 96.6% and 93.7%, respectively. The monthly average electrical energy production of the PV/DG/ZnBr systems in Addis Ababa is illustrated in Figure 10.

What EVs are available in Ethiopia?

The Kona SUV, for example, is Ethiopia's only electric vehicle type, with a battery capacity of 42 kWh, a range of 300 km and a CO₂ emission of 0 g/km. The number of EVs that arrive at a charging station, as well as the batteries' capacity and their state of charge, determine EV demand.

Did Ethiopia make electric cars excise-free in 2021?

Ethiopia set a pro-electric cars policy and made them excise-free even before the first electric vehicle charging stations were launched by Marathon Motors Engineering in 2021.

How much electricity does Ethiopia generate?

Ethiopia has the capacity to generate over 60,000 MW of electricity from hydro, solar, wind and geothermal sources. Hydropower accounts for 89 percent of total electricity generation, with a total capacity of 4284 MW [37]. Distinct energy-related concerns in Ethiopia were investigated in a variety of studies with various goals [38].

and challenges of the school feeding program in Addis Ababa. This study aimed to explore teachers', students', and parents' perceptions of the school feeding program in ...

We are reporting an episode of mass hysteria from two schools in Addis Ababa, Ethiopia. METHODS: Clinical record, laboratory investigation, toxicology study from the food and psychiatric evaluations.

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Producing e-bikes to feed into battery swap stations in Ethiopia. Dodai assembles electric scooters at its 200 unit per month capacity facility in Addis Ababa. In April, ...

The partnership aims to accelerate sustainable urban transportation by setting up 100 battery swap stations in Addis Ababa in 12 months. The network will expand to 300 ...

conducted in Addis Ababa, Ethiopia (29.29%) [54], and a study conducted in Bahir dar, Amhara Region, Ethiopia (86.44%) [35] Reported lowest and highest prevalence ...

Abstract: Battery electric vehicles (BEV) are suitable alternatives for achieving energy independence and meeting the criteria for reducing greenhouse emissions in the ...

This study aim was to assess the prevalence of timely initiation of complementary feeding and associated factors among infants 6 to 12 months age in Addis ...

The school feeding program in government schools in Addis Ababa is interrupted due to the COVID-19 pandemic. This study employed a qualitative research design to explore two core ...

Here are some electric vehicle charging stations in Addis Ababa: Government Offices The government has initiated the installation of EV charging stations within their ...

Prevalence of Exclusive Breast Milk Feeding at Discharge and Associated Factors Among Preterm Neonates Admitted to a Neonatal Intensive Care Unit in Public Hospitals, Addis Ababa, Ethiopia: A ...

Addis Ababa, Ethiopia Witnessing the growing number of electric vehicles (EVs), TotalEnergies Ethiopia is integrating electric charging points at its gas stations. The oil ...

The purpose of this work is to develop a BEV DC for the interlinked urban and suburban route of Addis Ababa (AA) in Ethiopia. In this study, a new approach of micro-trip ...

Setting School Feeding Programs in Addis Ababa, Ethiopia. Participants Schoolchildren in primary schools, and school directors and teachers in 15 randomly selected ...

Ethiopian Investment Holdings and Dodai sign an MoU to accelerate sustainable urban transportation by setting up 100 battery swap stations in Addis in 12 ...

There are 22 Car battery stores in Addis Ababa as of December 1, 2024; which is an 10.00% increase from

2023. Of these locations, 18 Car battery stores which is 81.82% of ...

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In this study, three cities, Addis Ababa (8°58.8' N, 38°45.5' E), Jijiga (9°21.4' N, 42°47.7' E) and Bahir Dar (11°34.5' N, 37°21.7' E) were chosen to analyze ...

Kotebe distribution substation is one of the distribution substations found in Addis Ababa, Ethiopia feeding areas around Kotebe, Wesen, CMC, Figa and Gurdshola. Among those feeders, ...

addis ababa university college of social science department of social anthropology school feeding in addis ababa: the case of bole sub-city m.a thesis submitted to the department of social ...

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