

Canadian Mobile Energy Storage Container Hybrid





Overview

Does a hybrid energy storage system work for indigenous remote communities?

An economic sensitivity analysis of the renewable fraction parameter is conducted to investigate the techno-economic performance of a hybrid energy storage system for Indigenous remote communities in Canada. The model of the system architecture consists of solar PV, wind turbines, BES, and distributed STES, as per Figure 1.

Why is a hybrid energy storage system better than a battery only system?

The EFC of the BES is significantly higher in the hybrid energy storage system than in the battery only system. When the HES system is sized, the BES capacity is minimized for optimal cost. Consequently, by integrating the smallest required capacity BES into the system, the total throughput increases.

Can hybrid energy storage systems help decarbonize remote community electricity loads?

As discussed, the aforementioned literature suggests that coupled hydrogen and battery hybrid energy storage systems have the potential to assist in decarbonizing remote community electricity loads; however, these systems have limited commercial availability for remote communities.

Can a hybrid battery and thermal energy storage system decarbonize energy loads?

A hybrid battery and thermal energy storage system coupled with solar PV and wind generation is modeled in the context of an Indigenous Canadian remote community for the decarbonization of both electrical and thermal energy loads.



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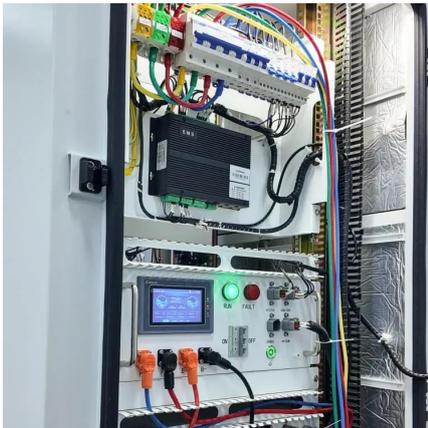
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