

## Kongres Container

# Ecuador Portable Power Communication BESS



## Overview

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What applications can a mobile Bess support?

The project aims to perform a thorough analysis of the various communication interfaces applicable to the applications that a mobile BESS can help support, of which, some typical VMS applications are construction sites, festivals, and EV charging stations.

Which communication interfaces are compatible with a mobile Bess?

The investigation compares the identified communication interfaces and their respective applicability to a mobile BESS, specifically the VMS. For specific power utility applications, it is clearly noted that the standard IEC 61850 allows clear benefits compared to the other investigated interface.

Can EVs communicate with Bess?

As the standard is primarily intended for communications between CPOs and EVSE/charging stations, the device models presented in the standard does not include modeling options for communication to non-EV related equipment, such as BESS.

How much power does a Bess have?

The system is built of two main blocks. The PCS building block, responsible for the main control of the mobile BESS. The nominal power rating of the PCS block is 225 kVA, with a maximum peak power in the peak shaving mode of 275 kW . The second block is the modular battery pack.

Are mobile Bess applications compatible with smart grid applications?

The analysis is performed by a literature review of typical mobile BESS applications with the identified corresponding communication interfaces. Among the identified interfaces is the IEC 61850 standard, which shows suitability in smart grid applications, enabling interoperability, vendor-independence, and standardization.

Why do we need a Bess system?

By doing so, it ensures that energy resources are utilized more efficiently, minimizing waste and improving the overall efficiency of energy production and distribution. The BESS also offers significant operational flexibility, allowing it to adapt to varying energy demands and supply conditions quickly and effectively.

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