ContainerPower Energy Solutions

Indonesia s industrial electricity peak shaving and energy storage

Overview

Can a bottom-up model reduce Indonesia's electricity demand?

We use a novel bottom-up modeling approach to analyze the potential of energy ef -fi ciency to reduce Indonesia's electricity demand: the LOAD curve Model (LOADM) combines total national elec-tricity demand for each end use as modeled by the Bottom-Up Energy Analysis System (BUENAS) with — — hourly end-use demand pro les.

Why do Indonesians need energy storage?

Indonesia's focus on industrial growth creates a demand for reliable power. BESS can offer backup power, improve power quality, and enable cost savings through peak shaving. The Indonesian government recognizes the importance of energy storage.

How can Bess help the EV market in Indonesia?

The growing EV market will necessitate a robust battery ecosystem, including storage solutions for grid integration and charging infrastructure. Indonesia's focus on industrial growth creates a demand for reliable power. BESS can offer backup power, improve power quality, and enable cost savings through peak shaving.

Which sector has the most electricity demand in Indonesia?

3 Electricity demand in Indonesia is largest in the residential sector (44%), followed by the industrial (32%) and commercial (24%) sectors (MEMR (Ministry of Energy and Mineral Resources of the Republic of Indonesia), 2016). Accurate load forecasting can yield substantial cost savings to the electricity sector (Bunn & Farmer, 1982).

Why is China leading the energy storage industry in Indonesia?

China excels in energy storage due to its strong industrial base and market insights. As Indonesia enhances its energy storage innovation, collaboration

opportunities between the two countries are emerging. The EESA Summit Indonesia is part of the EESA Expo 2025 in China, focusing on global integration in the energy storage industry.

What is the current electricity supply and demand scenario in Indonesia?

We analyzed the current electricity supply and demand scenario in Indonesia, including both peak demand and total installed generation capacity (Figure 1). Demand across the country totals to 40 gigawatts (GW), with the Java–Bali area* contributing to 80% of this figure and highlighting significant regional variations in demand.

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