

Kongres Container

Indonesian power grid energy storage equipment



TAX FREE



Product Model

HJ-ESS-215A(100KW/215KWh)
HJ-ESS-115A(50KW 115KWh)

Dimensions

1600*1280*2200mm
1600*1200*2000mm

Rated Battery Capacity

215KWH/115KWH

Battery Cooling Method

Air Cooled/Liquid Cooled



Overview

This report compares two promising LDES families – gravity-based storage (e.g. pumped hydro and lifting-weight systems) and thermal-based storage (heat retention systems) – to determine which is most promising for Indonesia’s energy transition. How should energy storage systems be planned in Indonesia?

Planning for energy storage systems should be well integrated with power transmission, distribution, and generation planning in Indonesia, aligning with the increasing installation of VRE. Besides setting capacity targets, planning documents should outline the full range of potential ESS roles.

Why is battery energy storage system important in Indonesia?

However, given the challenge of Indonesia’s geological landscape, with many off-grid and remote areas, there is growing intermittency issue that hamper the development of solar and wind generation. Hence, the battery energy storage system (BESS) technologies have a critical role in the development of Indonesia’s renewable energy.

Is energy storage a key enabler for Indonesia's solar energy progress?

This marked a significant contribution to Indonesia's renewable energy goals, positioning energy storage as a key enabler for the country's solar energy progress. As Southeast Asia’s largest economy, Indonesia is experiencing a rapid rise in demand for solar energy.

Can gravity storage accelerate Indonesia's transition to a clean and reliable power system?

By harnessing robust gravity storage and researching sustainable storage technologies, Indonesia can accelerate its transition to a clean, reliable power system. Arief Rahmanto is a runner-up of the Climate Impact Innovations Challenge 2025 Article Competition.

What is thermal energy storage in Indonesia?

While no large projects exist in Indonesia, regional interest is growing. Thermal energy storage (TES) stores energy in the form of heat (or cold). Common approaches include molten-salt tanks, phase-change materials, or hot water/steam reservoirs.

Does Indonesia need solar & wind energy storage?

Although, there is no policy mandating the installation of energy storage in solar or wind projects in Indonesia, the abundance of solar and wind resources in Indonesia's archipelago and increased potential demand across industries indicate that BESS demand is poised to grow substantially in the near future.

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