ContainerPower Energy Solutions

BESS the Netherlands emergency outdoor communication power supply

Overview

What is Bess in the Netherlands?

BESS in the Netherlands is a new and small but increasingly necessary industry. A striking growth in battery capacity began in 2021 when the total installed capacity rose by 65% compared to the previous year. This number doubled in 2022 and then tripled in 2023, reaching 621 MWh.

How does a Bess system work?

BESS systems store energy generated from renewable sources like solar and wind, releasing it during periods of high demand or when production dips. Thereby they ensure a steady and reliable energy supply.

What balancing services does the Dutch Bess project use?

Dutch BESS projects mainly participate in two balancing services: Frequency Containment Reserve (FCR) and automatic Frequency Restoration Reserve (aFRR). The Dutch TSO, TenneT, uses these services as the primary and secondary restoration services, respectively, as explained in RaboResearch’s report on the Dutch electricity sector.

Does Bess require uninterrupted power?

Some BESS suppliers mandate uninterrupted power to maintain the operation of thermal management systems, ensuring battery temperatures remain within desired limits to minimize degradation. BESS fire safety standards, such as NFPA 855, outline minimum requirements for backup power for fire safety systems.

What is a Bess solution?

The BESS is a new and innovative solution that emerges from new market needs during the energy transition. ELINEX delivers complete BESS projects and (after) service in power ranges from 20kWh to 2MWh or multiples thereof. A BESS solution is a ‘Power Solution’, which technically has some similarities

to a UPS but also significant differences.

What challenges will Germany face when implementing Bess?

The most significant challenge are the notoriously high grid costs, which are expected to rise further. In contrast, Germany’s grid-fee exemption is accelerating BESS deployment there. Another key issue is securing grid capacity on the highly congested Dutch power grid.

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