

## Kongres Container

# Netherlands Power Plant Energy Storage Frequency Regulation Project



## Overview

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Is battery energy storage a new industry in the Netherlands?

While battery energy storage system projects (BESS) in the Netherlands is still a relatively new and small industry, it becomes increasingly necessary. 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.

Is the Dutch electricity grid under strain?

S4 Energy's CCO, Dominique Becker Hoff, stated that the Dutch grid is under strain, citing growing demand and a mismatch between renewable energy availability and demand. "It is no secret that the Dutch electricity grid is under strain.

What percentage of Dutch electricity is generated by solar and wind?

In 2024, solar and wind energy accounted for 45% of the Dutch annual electricity production. According to the Netherlands Environmental Assessment Agency (PBL) this share will increase to 65% by 2030 (in Dutch).

What are the challenges facing the energy sector in the Netherlands?

The result is periodic capacity bottlenecks and interconnection delays. The mixed signals reported by various news outlets regarding the opportunities and unavailability of the grid capacity in the Netherlands are a testament of the challenges in the energy sector.

Is pumped hydro storage a viable option in the Netherlands?

Because pumped hydro storage is not an option due to the Netherlands' flat geography, BESS is currently the most suitable choice to increase energy storage capacity in the short term. To date, around 250MW of BESS has been installed in the Netherlands, while 840MW is permitted or under construction and another 690MW has been announced.

Why do Dutch Bess projects face high grid fees?

Dutch BESS projects face high grid fees and lack access to contracted revenue streams through capacity markets. Moreover, the limited availability of new grid connections due to severe grid congestion poses additional challenges for potential BESS investors.

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