

## Global PV Storage Insights

# Expected ROI of BESS project in Netherlands 2030



## Overview

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How much battery energy will the Netherlands need by 2030?

Image: CC. Dutch transmission system operator (TSO) TenneT says the Netherlands will need 9GW of large-scale battery energy storage system (BESS) capacity connected to its grid by 2030. TenneT said it faces several near-term challenges on its electricity network which BESS projects of 70MW-500MW in size could help alleviate.

What challenges do Bess investors face in the Netherlands?

Moreover, the limited availability of new grid connections due to severe grid congestion poses additional challenges for potential BESS investors. Flexibility needs in the Netherlands are high, driven by the increasing share of intermittent renewable energy and lack of alternative storage technologies.

Will Dutch Bess capacity reach 5GW by 2030?

By 2030, total Dutch BESS capacity could potentially reach up to 5GW. This, however, will depend on investor confidence regarding the revenue potential and developments in the Dutch regulatory environment. Revenues from ancillary services are still relatively stable, but the threat of cannibalization is looming.

What are the economic opportunities for Bess assets within a Dutch electricity market?

We highlight the economic opportunities for BESS assets within one of the Dutch electricity markets in this article. The Dutch electricity market is undergoing a significant shift towards renewable energy, primarily solar, wind, and other sustainable sources.

What is a Bess project?

BESS projects can provide additional flexibility to the grid by storing excess renewable energy and making it available when demand is high. By

leveraging the spread between low or negative prices during periods of excess renewable production and high prices during peak demand, BESS operators can generate revenue from arbitrage opportunities.

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.

## Expected ROI of BESS project in Netherlands 2030

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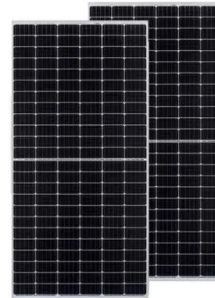


### BESS Market Size & Growth: Trends Shaping the ...

Discover BESS market size and growth trends shaping energy storage, from renewable integration to grid modernization and AI advances.

### The Roadmap to 9 GW of Dutch Energy Storage Capacity by ...

Dutch Transmission Service Operator (TSO) TenneT has projected that The Netherlands will need to have at least 9 GW of large-scale battery energy storage system ...



### BESS in Germany 2025 and Beyond: Use Cases, Business ...

BESS Revenue Models German BESS revenues fell below 100 EUR/kW/yr in Q1'2024 due to mild winter and weak gas prices. By Q3, revenues recovered above 150 ...

### Pioneering Energy Storage Project Takes off in The Netherlands

Dispatch Grid Services revealed that the Dordrecht energy storage venture signifies the

pioneer project in a tactical collaboration with Macquarie Capital. Together, they ...



## When the dust settles: What is the future

Wind and solar production curves are complementary, creating cost synergies when combined, especially with BESS. They can share power subscriptions with minimal curtailment. A notable ...

## Choosing the Best BESS for Maximum Profitability

A truly profitable BESS investment isn't just about upfront costs-- it's about maximizing revenue, minimizing risk and ensuring long-term financial returns. The right decision-making framework ...



## Big opportunities for BESS in 2025

In September, Scotland's Energy Consents Unit approved one of the UK's largest BESS projects to date, our 700MW Auchentiber BESS, in Port Glasgow. In 2025, we ...

## Netherlands needs 9GW of BESS by 2030, says TSO ...

It illustrated how the BESS could be used, what the system benefits are, and how the BESS could be monetised in the table below. Alongside large-scale BESS, TenneT has also modelled the quantity of other BESS ...

### ESS



## BESS in Germany 2025 and Beyond: Use Cases, ...

BESS Revenue Models German BESS revenues fell below 100 EUR/kW/yr in Q1'2024 due to mild winter and weak gas prices. By Q3, revenues recovered above 150 EUR/kW/yr, supported by market volatility and automatic ...

## 6 Emerging Revenue Models for BESS: A 2025 Profitability Guide

Discover how commercial BESS monetizes peak shaving, ancillary services, and carbon credits. Learn ROI drivers for energy storage systems in C& I applications.



## Battery Energy Storage Roadmap

United States forecasts that consider state goals, utility integrated resource plans (IRPs), and industry expectations estimate energy storage capacity will more than ...

## Backup power for Europe - part 6: Dutch BESS capacity

The Netherlands offers attractive revenue potential for Battery Energy Storage System (BESS) projects, thanks to a growing share of cheap renewable power sources ...



### Battery energy storage systems (BESS)

BESS projects can provide a reliable and cost-effective solution, but their full potential remains largely unexplored. To remedy this situation there is a need to focus significant effort on ...

## Global BESS deployments to exceed 400GWh ...

Image: Rystad Energy. Annual battery energy storage system (BESS) installations will grow by 10x between 2022 and 2030, according to research firm Rystad Energy. Rystad expects annual BESS deployments to ...



## Balancing the Dutch electricity grid with battery energy ...

Battery energy storage systems (BESS) are vital for managing market volatility and capitalizing on price fluctuations. We highlight the economic opportunities for BESS assets within one of the Dutch electricity markets in this article.

## Backup power for Europe

In part 1 of our series on backup power in Europe, we named Italy as one of the most attractive European countries for BESS investments. The Italian electricity sector is ...



## **Netherlands needs 9GW of BESS by 2030, says TSO ...**

Image: CC. Dutch transmission system operator (TSO) TenneT says the Netherlands will need 9GW of large-scale battery energy storage system (BESS) capacity connected to its grid by 2030. TenneT said it faces several ...

## **Dutch municipality backs 250MW/1,000MWh BESS battery project**

A render of the project in the Netherlands. Image: Ventolines. The Dutch municipality of Noordoostpolder has submitted a draft zoning plan for one of the first gigawatt ...



## **Construction starts on largest Netherlands BESS**

Equans Netherlands is responsible for the engineering and construction of the BESS. Dutch energy company Eneco will optimise the battery to maintain this balance without ...

## Future of battery energy storage buildout in Great ...

This report provides an outlook on battery energy storage system (BESS) buildout in Great Britain (GB) until the end of 2024. We have taken a bottom-up approach, building a list of projects by taking into consideration multiple data sources. ...



## BW ESS launches in Germany with 1GW BESS ...

Rendering of the 330MWh Bramley BESS project in the UK, developed in partnership with Penso Power. Image: BW ESS. Energy storage developer-owner BW ESS has entered its fifth international market, partnering ...

## Netherlands' largest stand-alone Battery Energy ...

Dispatch, a Dutch battery developer, is going to construct the Netherlands' largest stand-alone Battery Energy Storage System (BESS) in the port area of Dordrecht. The system will be used for grid stabilization by storing ...



## part 4: Spain's BESS market is heating up

For BESS projects, a positive side effect of the further buildout of renewable energy sources, in particular with Spain's low curtailment rates, is the expected increase in ...

## The Economics of BESS: Calculate ROI for Your Energy Storage

Learn how to calculate the economics of BESS and your ROI. A practical guide for businesses and projects investing in battery energy storage systems.



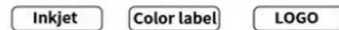
## Backing the Netherlands' renewable energy future

Dutch battery developer Lion Storage develops and builds large-scale battery energy storage systems, supporting grid stability whilst aiming to increase sustainable energy use throughout ...

## Balancing the Dutch electricity grid with battery energy ...

The Netherlands has ambitious climate goals, targeting 70% sustainable electricity generation by 2030. This shift from fossil fuels to renewables has seen solar energy surpass fossil gas as the leading energy source. The integration ...

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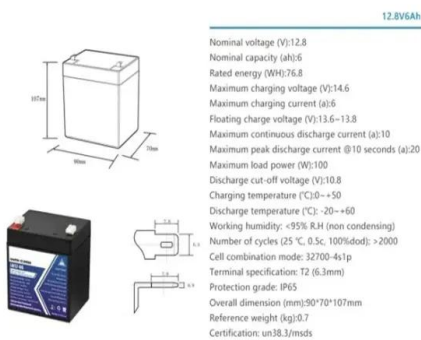


## Netherlands allocates EUR100m for PV co-located BESS ...

Rob Jetten, Deputy Prime Minister of the Netherlands and Minister for Climate and Energy Policy, talking at COP28 last year. Image: COP28 / Christophe Viseux. Netherlands' climate minister has allocated EUR100 million in ...

## Dutch municipality backs 250MW/1,000MWh BESS ...

A render of the project in the Netherlands. Image: Ventolines. The Dutch municipality of Noordoostpolder has submitted a draft zoning plan for one of the first gigawatt-hour scale battery energy storage system (BESS) projects ...



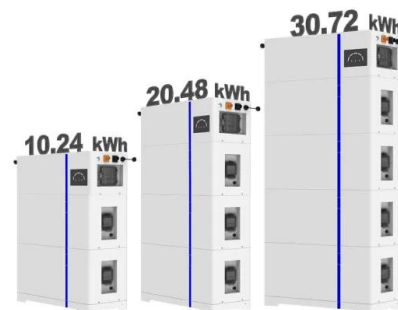
## BESS market in the Netherlands

BESS unit prices include battery cells, racks, enclosure & PCS. This is excluding all other Capex project cost like EPC, Grid connection, Development cost etc \*DNV forecast for Capex prices ...

## Understanding the Return of Investment (ROI) of Energy Storage ...

Several key factors influence the ROI of a BESS. This article explores the various factors influencing the return of investment of BESS.

### ESS



## The MENA region - the next hot market for energy ...

The MENA region is starting to witness a drastic increase in large-scale battery energy storage systems ("BESS") projects, accompanying a soaring penetration of renewable energy. This has happened at a pace, which ...

## Alternative Network Charges for Energy Storage

The figure clearly shows the high exposure BESS in ROI have to network charges, including those which represent socialised aspects (and thus distort from cost reflective principles as ...



## India's First Utility-Scale Standalone Battery Energy ...

The GEAPP Leadership Council (GLC) today officially announced the launch of India's first utility-scale, standalone BESS project.

## Maximising BESS Revenues

Tamarindo's Energy Storage Report, in partnership with Eversheds Sutherland, convened a panel of energy storage industry experts to discuss the outlook for different BESS ...



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