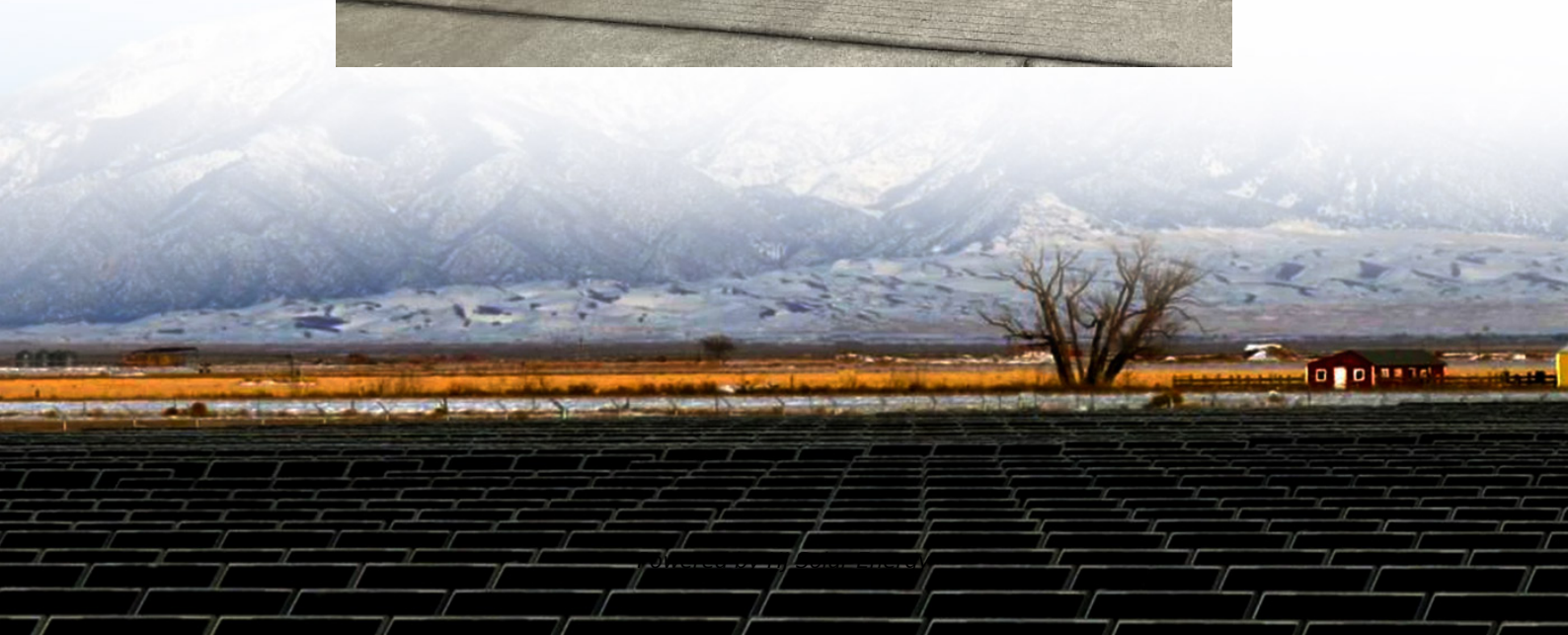


# Expected ROI of BESS project in Estonia 2025





## Overview

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What is Estonia's Auvere Bess project?

Estonia's Auvere BESS project is designed to participate in both the electricity exchange and other energy markets to ensure the security of electricity supply. According to Eesti Energia board member Kristjan Kuhi, the battery is able to respond very effectively to fluctuations in the power system.

Will Estonia and the Baltics be decoupled in 2025?

This is a pilot project to make sure the solution is suitable both in Estonia and the company's other retail markets. Estonia and the Baltics is scheduled to be decoupled from the Russian electricity system in 2025, after which the Baltic electricity grids will have to manage their own frequencies.

Which Bess project is most suitable for Eesti Energia?

LG's proposed project was most suitable for Eesti Energia regarding the technology and its cost. The pumped hydroelectric power plant project is currently at the pre-study stage, where work continues to develop a commercially viable and technically feasible solution. What other BESS projects are we likely to see in Estonia in the near future?

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Can Eesti Energia design similar storage facilities outside Estonia?

The 25MW/50MWh BESS project is a pilot project, which means that we want to convince ourselves that it is possible to design similar storage facilities outside Estonia, i.e. in Eesti Energia's other home markets in Latvia, Lithuania and Poland.

What is Eesti Energia's Energy Plan?

'We are honoured to contribute to Eesti Energia's energy plan for desynchronisation (disconnecting from Russia's grid) in the Baltic countries,'



said Kyuwon Heo, Head of Grid ESS Europe at LG Energy Solution. Estonia is targeting an exit from electricity production from shale gas and a 40% renewable energy mix by 2030.

Why should businesses adopt a Bess profit model?

These new models not only provide investors and users with more choices and opportunities but also drive the continuous development of energy storage technology. With industrial electricity prices projected to rise 7.2% annually (EIA 2024 Outlook), businesses adopting these BESS profit models will gain significant competitive advantages.



## Expected ROI of BESS project in Estonia 2025

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### [Baltic Storage Platform breaks ground on 400MWh ...](#)

Baltic Storage Platform confirmed that the BESS will seek to ensure the stability and resilience of the Estonian electricity grid. This will also extend to the Baltic power grids--Latvia, Lithuania, and Estonia--as they are ...

### [The rise of bankable BESS projects in Europe](#)

As the renewable energy sector rapidly evolves, battery energy storage systems (BESS) are emerging as a critical pillar for decarbonization. However, with capital constraints and rising market volatility, not all projects ...

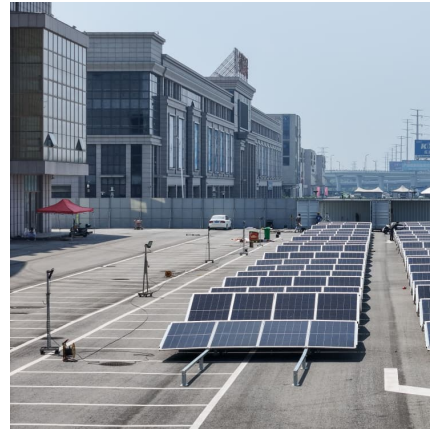


### [Eesti Energia to install 25-MW/50-MWh battery in Estonia](#)

Estonia-based energy company Eesti Energia plans to install what will be its home country's first grid-scale battery energy storage system (BESS), of 25 MW/50 MWh in size.

### [BESS in North America\\_Whitepaper\\_Final Draft](#)

Total project costs for utility-scale BESS are expected to fall by another 16% between 2021 and 2025. These battery cost reductions will be driven by increasing battery demand from the ...



[BESS Project: Top Trends and Benefits for 2025](#)

BESS Project: Top Trends and Benefits for 2025  
What is a BESS Project and Why It Matters A BESS project is a Battery Energy Storage System installation that collects ...



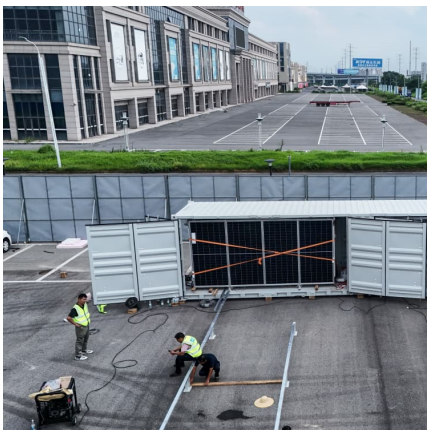
**5 Reasons Why BESS Will Be a Focal Point of Energy Business in 2025**

The global energy storage market is expected to add over 220 GWh of new capacity in 2025, driven by a rise in tenders for BESS projects, many of which may be ...



[US deployed 11.9GW of storage in 2024, 18.2GW](#)

...  
PV arrays at Gemini Solar + Storage. CATL provided the BESS containers and IHI Terrasun served as system integrator. The project was one of the largest to come online in the US last year. Image: Primergy. BESS ...





## Estonia inaugurates its largest battery energy storage project

Estonia's Auvere BESS project is designed to participate in both the electricity exchange and other energy markets to ensure the security of electricity supply. According to ...



## Big opportunities for BESS in 2025

Phase one alone is expected to deliver annual consumer savings of £29-£32 million while continuing to decarbonise the power system. A pivotal year ahead for BESS The Labour Government's ambition to accelerate ...

## Q1 2025 Buildout Report: How quickly is BESS coming online in ...

This article provides an update on the progress of battery energy storage projects in the NEM: what projects came online in the first quarter of 2025, how the remainder of the pipeline is ...



## [280MW of BESS projects progress in Estonia and ...](#)

Large battery storage projects in Estonia and Latvia have moved forward as the Baltic energy system prepares to decouple from Russia in 2025.



### [Top 5: Largest BESS Projects in the World in 2025](#)

The second phase of the project was operationalized a year ago which brought its total energy storage capacity of the project to 530 MW / 2120 MWh, bringing it among the 5 largest BESS projects in the world, and third ...



### [Solar Energy, Battery Storage Projects For Estonia](#)

Sunly, in collaboration with Metsagrupp, is developing a 16 MW / 32 MWh battery energy storage system (BESS) next to the 45 MW Raba Solar Park in Pärnu County, ...

### **Eesti Energia Unveils Estonia's Largest Battery Storage System ...**

Estonia's state-owned energy company, Eesti Energia, has officially launched the country's largest battery energy storage system at the Auvere industrial complex in Ida-Viru ...



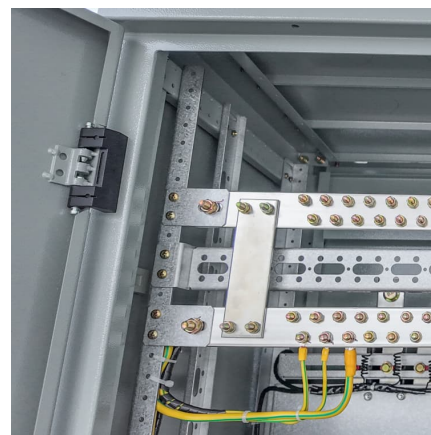


### [Energy Storage Systems \(ESS\) Projects and Tenders](#)

Content Owned by MINISTRY OF NEW AND RENEWABLE ENERGY Developed and hosted by National Informatics Centre, Ministry of Electronics & Information Technology, ...

### [Press Release: Press Information Bureau](#)

The Union Minister for Power and New & Renewable Energy has informed that the Union Cabinet, in its meeting held on 06.09.2023, has approved the scheme for Viability ...



### **U.S. battery storage capacity expected to nearly double in 2024**

Developers expect to bring more than 300 utility-scale battery storage projects on line in the United States by 2025, and around 50% of the planned capacity installations will be ...

### [5 BESS Trends to Watch in 2025 , Deep Delved](#)

5 BESS Trends to Watch in 2025 The Battery Energy Storage System (BESS) market continues to evolve rapidly in 2025, with new technologies, applications, and business ...



### Maximizing ROI for Energy Storage Projects: A Technical ...

A recent project achieved a 5% reduction in balance-of-system costs and a 2% improvement in round-trip efficiency through our recommended integration approach, together ...



### [ESTONIA GRID SCALE BESS TO COME ONLINE IN 2025 ...](#)

In 2025, some 80 gigawatts (gw) of new grid-scale energy storage will be added globally, an eight-fold increase from 2021. Grid-scale energy storage is on the rise thanks to four potent ...



### [First large-scale BESS in Estonia online with LG ES...](#)

Eesti Energia said the BESS will enhance grid stability and reduce costs for consumers by participating in all available electricity markets. The company claimed that not only is it the biggest BESS in Estonia, but also ...





## Europe drives BESS market strength

Neoen and Nidec announced construction of a 9 MW/93.9 MWh BESS - the largest BESS project in both Sweden and all of Northern Europe. It is expected to enter operation in the first half of 2025. BESS remained the ...



## [BESS Project: Top Trends and Benefits for 2025](#)

BESS Project: Top Trends and Benefits for 2025  
What is a BESS Project and Why It Matters A BESS project is a Battery Energy Storage System installation that collects energy from the electrical grid, stores it, and ...

## [U.S. battery storage capacity expected to nearly](#)

...

Developers expect to bring more than 300 utility-scale battery storage projects on line in the United States by 2025, and around 50% of the planned capacity installations will be in Texas. The five largest new U.S. ...



## [The rise of bankable BESS projects in Europe](#)

As the renewable energy sector rapidly evolves, battery energy storage systems (BESS) are emerging as a critical pillar for decarbonization. However, with capital constraints and rising market



### Future of GB BESS buildout

Figure 2 - Future expected GB BESS buildout. From March 2022 to the end of 2025, there is an expected increase of 4,995 MW of BESS capacity in GB. This consists of 99 projects that have all secured Capacity Market contracts for ...



### 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 ...

### Outlook 2025: The future of the utility-scale BESS market

The rapid evolution of the utility-scale battery energy storage systems (BESS) market in Australia, Europe and the US has seen the emergence of a wide range of offtake ...





### **Estonia's first grid-scale BESS to provide blueprint for further**

We hear from utility Eesti Energia about its 25MW/50MWh BESS project in Estonia, including what it hopes to achieve with the project and why it needed a second procurement to launch ...

### **Nidec Conversion awarded the Hertz 1 project, the largest BESS project**

This battery energy storage system (BESS) project, will be installed in Kiisa, near Tallinn, Estonia. With more than 50 units, totalling 100 MW of power and 200 MWh of ...



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