

## ContainerPower Energy Solutions

# Cost of energy storage cabinets on the Belgian grid side



## Overview

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Recent industry analysis reveals that lithium-ion battery storage systems now average €300-400 per kilowatt-hour installed, with projections indicating a further 40% cost reduction by 2030. Are grid-side energy storage projects a good idea in Belgium?

Grid-side energy storage projects in Belgium have good prospects, thanks to low grid charges, no double charging policies, and diversified revenue sources. In 2023, 11 new battery projects in Belgium have been awarded capacity market contracts, totaling more than 363 MW.

Why are energy storage projects taking off in Belgium?

Energy storage projects in Belgium and the surrounding Benelux region have taken off due to storage-friendly market rules and energy transition drivers—leading to an increased need for grid flexibility and good interconnection across other markets.

Does Switzerland need grid-scale battery storage?

Switzerland, as a power transit country with strong grid connectivity, has limited demand for grid-scale battery storage despite having close to 4 GW of pumped storage capacity. The Belgian energy storage market is expected to grow from 491 MW in 2023 to 3.6 GW in 2030, and pre-table energy storage will grow rapidly.

Why is balancing the Belgian grid so important?

Balancing the Belgian grid and integrating increased renewable assets becomes even more important when the country phases out of most of their nuclear power by 2025. The Ruien Energy Storage NV project is owned by Nippon Koei Energy Europe B.V. through a joint venture with Aquila Capital.

Is Belgium a good place to invest in battery storage?

Belgium is one of the most active and mature grid-scale energy storage

markets in Europe, with diversified opportunities for monetising battery storage via flexibility markets and a supportive regulatory regime.

What is the future of energy storage in Ireland?

Future market potential is concentrated in pre-sheet energy storage and energy storage co-located projects, residential and commercial storage market space is not large. Ireland's battery storage capacity is expected to grow from 792 MW in 2023 to 3.9 GW in 2030, mainly in the pre-table storage market.

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