



Expected ROI of mobile ESS unit project in Korea 2025

Why is South Korea launching the ESS central contract market auction?

The South Korean government, under the auspices of its carbon neutrality and energy transition goals, has launched the 2025 1st ESS Central Contract Market auction, marking an evolution in the country's battery energy storage system strategy. South Korea has committed to increasing renewable energy capacity while maintaining grid stability.

How does ESS work in Korea?

The ESS market in Korea is designed as a centralized auction system the Korea Power Exchange (KPX) administers, where winning bidders enter into 15-year fixed-capacity contracts to supply standby grid support.

What is ESS central contract market 2025?

South Korea launched the 2025 1st ESS Central Contract Market auction, offering 540 MW of capacity for energy storage projects across the mainland and Jeju. This round expands coverage beyond Jeju, introducing refined procedures and stricter technical and operational standards based on lessons from the initial pilot.

How much ESS capacity will be allocated in 2025?

The 2025 auction will allocate a total of 540 MW of grid-connected ESS capacity through a competitive selection process, consisting of 500 MW on the mainland and 40 MW on Jeju Island. Projects must have a design capacity that exceeds 10 MW (60 MWh) but remains below 100 MW (600 MWh), and bids must be submitted in increments of 1 MW (6 MWh).

What is ESS market research report?

The market research report covers market dynamics, the growth potential of the ESS market, economic trends, and investment & financing scenarios in South Korea. Further, the report looks at the current state and assesses the potential for the deployment of different types of energy storage systems.

How has the ESS market changed over the years?

However, a string of ESS-related fires and a lack of infrastructure had dampened investments in this market. This was a heavy hit for the energy industry, but developments of safer technology and renewed state support have recently given new life to the domestic ESS market.

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