

SolarGrid Energy Solutions

Japan Osaka containerized generator set BESS



Overview

How much does a Bess cost in Japan?

The BESS will more than double Japan's utility-scale lithium-ion battery capacity, and increase national energy storage capacity in megawatt hours by 220%. To be developed at a cost of 91 billion yen (USD 600 million) over a six-year period, construction on the BESS is expected to begin in 2026.

What is the potential of the Japanese Bess market?

The growing potential of the Japanese BESS market has attracted the attention of both domestic and international players. Gurin Energy, a renewable energy developer, recently received approval to develop and build a 3-hour duration BESS in the UK.

Is Gurn energy planning a Bess project in Fukushima or Tochigi?

The country aims to achieve 36-38% renewable energy in its energy mix by 2030, supported by 10GW of energy storage by 2030. Gurin Energy is considering a number of locations and conducting an assessment to finalise a site for BESS development in either Fukushima or Tochigi prefecture.

How many Bess projects are there?

Three big nuclear plants claimed around half the awarded capacity. In total, 1.4 GW of BESS was allocated, with 27 projects awarded contracts as part of the capacity market. Six of these projects feature durations of six hours or longer, while 21 are for batteries with durations between three and six hours.

Does Japan have a capex subsidy scheme for grid-scale battery developers?

Increased generation of renewables requires various forms of energy storage to manage the issues associated with intermittency. Japan has, therefore, introduced two CAPEX subsidy schemes for grid-scale battery developers, excluding co-located projects.

How much does a Bess project cost?

To be developed at a cost of 91 billion yen (USD 600 million) over a six-year period, construction on the BESS is expected to begin in 2026. The planned project does not require any specific financial commitment from Gurin Energy investor Infratil Ltd.

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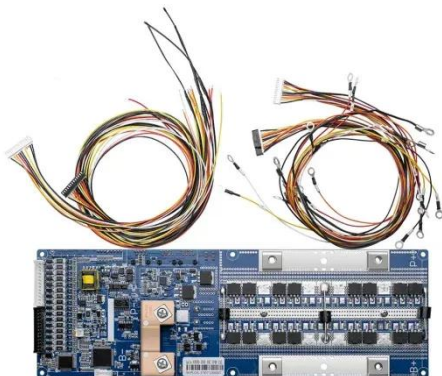


How Japan is Driving BESS Investment

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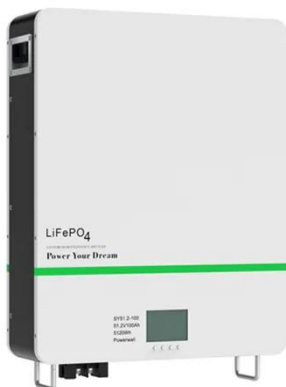
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Battery Energy Storage System (BESS)

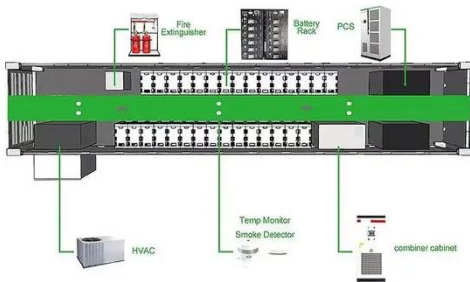
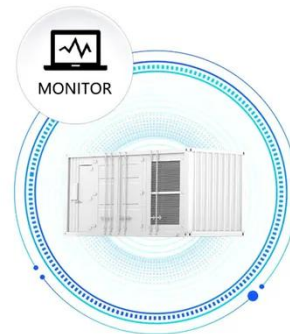
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