

## ContainerPower Energy Solutions

# Mexico solar battery energy storage system



## Overview

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Mexico has taken a bold step in reshaping its renewable energy sector by mandating that all new wind and solar projects include battery storage equal to 30% of their capacity. Will Mexico develop energy storage technologies in the next decade?

However, we expect Mexico to develop its energy storage technologies significantly over the next decade, as well as its lithium mining industry, as it increases its renewable energy capacity as part of a global green energy transition.

Does battery storage provide services to the Mexican electric grid?

While battery storage does not currently provide services to the Mexican electric grid, and while several operational and regulatory challenges still need to be overcome, there is considerable potential for battery storage to offer valuable economic and reliability services going forward.

How much solar power does Mexico have in 2021?

Solar power has come a long way in Mexico, with 6,160 MW of cumulative utility-scale solar capacity at the end of 2021. However, the country's battery storage facilities are still limited, meaning that power generation is not optimized.

Why is Mexico developing a hybrid solar power plant?

In response to more frequent blackouts, Mexico recently developed hybrid plants that have both a solar power generating capacity and battery storage capabilities. As Mexico expands its solar market, we expect companies to increase their investment in battery storage operations to optimize the solar power generated across the country.

Can battery energy storage systems be integrated in Baja California Sur?

This paper aims to assess the long-term integration of Battery Energy Storage

Systems (BESS) in Baja California Sur (BCS), Mexico. First, the electrical grid in BCS is parametrized and modeled to reproduce the actual operational conditions before evaluating long-term expansion scenarios.

Will Mexico expand its solar market?

As Mexico expands its solar market, we expect companies to increase their investment in battery storage operations to optimize the solar power generated across the country. But Mexico will have to improve its regulatory framework for renewable energy for the industry to become more efficient and attractive to investors.

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