

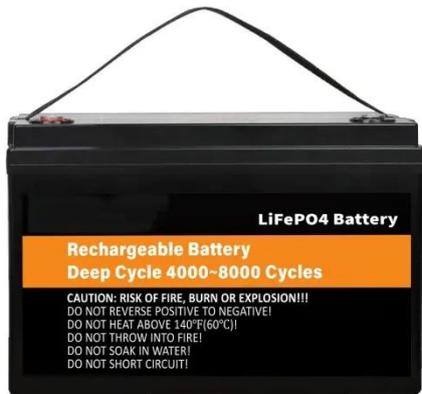
Mexico specific energy storage applications



Overview

The report explains that Mexican regulations define five storage modalities -linked to renewable energy plants, load centers, and independent solutions - and formally recognize these systems through interconnection rights, permits, and participation in energy and ancillary. The report explains that Mexican regulations define five storage modalities -linked to renewable energy plants, load centers, and independent solutions - and formally recognize these systems through interconnection rights, permits, and participation in energy and ancillary. CRE regulation integrates batteries, intermittency management and grid operation backup through energy storage. Electric energy storage has become a crucial component in the transition to more sustainable, reliable and efficient energy systems. In Mexico, this concept has taken on greater relevance. The new rule requires solar and wind power plants to include battery systems with a capacity equivalent to 30% of their installed power, aiming to add 574 MW of storage by 2028. To view a copy of this license, visit [http](http://www.cre.gov.mx) featured herein are provided “as is”. Neither the authors, the National Institute. Energy storage can be understood as the action of reserving or storing generated electric energy and making it available when it is most needed in accordance with the peak demands of a society, acting as a balance between supply and demand, contributing to the stabilisation of an electric system. Drawing from both academic and industry publications, this thesis presents the state of the art of energy storage technologies suitable for long-duration applications and performs a technoeconomic analysis of two technologies (lithium-ion and flow battery) applied to two case studies in Mexico. The Mexican government has implemented supportive policies, such as net metering and energy storage auctions, to stimulate market growth.

Mexico specific energy storage applications



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2. Technology Catalogue for energy storage

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These five modalities reflect Mexico's approach to the broad integration of energy storage, ranging from large-scale centralized projects to distributed and community solutions.

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2024-2030

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