

## Kongres Container

# Colombia s hybrid energy storage solution



## Overview

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A deep dive into how energy storage supports renewable integration, reduces curtailment, and enhances reliability across interconnected and remote regions. Colombia's energy transition is entering a new and decisive stage. While the country continues to expand its renewable energy portfolio.

As one of Latin America's most influential solar-energy exhibitions, the event brought together leading photovoltaic and energy-storage companies from around the world to explore the future of renewable energy in the region. During the exhibition, SRNE presented its latest hybrid inverters.

To change this situation, a hybrid off-grid plant was built, integrating solar energy with storage systems and diesel generators. A ATESS contributed to the implementation of a BESS (Battery Energy Storage System) with AC coupling, consisting of: 1,4 MWh in BR200R batteries, distributed across.

But here's the kicker: this South American gem is quietly brewing something far more electrifying in its Andean highlands - a new energy storage revolution that could rewrite the continent's power playbook. With 84% of its electricity already coming from hydroelectric plants [1], Colombia isn't.

As a more sustainable alternative, this paper looks at micro pumped hydro energy storage coupled with solar photovoltaic production. Rural electrification in Colombia is selected as the best potential context for such a solution. Several electrical machines are considered for energy conversion.

At HESStec, we are pioneers in innovation in hybrid energy storage solutions and enabling energy technologies, driving a sustainable and efficient future in the energy industry. HESStec has developed a suite of flexible and modular products that can be configured and set up into different solutions.

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