

Bolivia Dual Carbon Energy Storage Project





Overview

What type of energy system does Bolivia use?

Similar to the country's total energy system, the power sector relies heavily on natural gas (AEtN, 2016). The electricity network in Bolivia is broken into two classifications: the National Interconnected System (SIN) and the Isolated Systems (SAs).

Can Bolivia have a low-carbon power system?

A sketch of Bolivia's potential low-carbon power system configurations. The case of Applying carbon taxation and lowering financing costs Energy Strateg. Rev., 17 (2017), pp. 27 - 36, 10.1016/j.esr.2017.06.002 J. Clean. Prod., 199 (2018), pp. 687 - 704, 10.1016/j.jclepro.2018.07.159 Technol. Forecast. Soc.

Should Bolivia use solar energy to generate synthetic fuels?

Using Bolivia's own excellent solar resources to generate synthetic fuels in BPS-1 and BPS-2 would result in energy independence and security. Due to the lack of GHG emission costs in BPS-3 fuel costs remain for the fossil fuels used in the heat and transport sectors. Fig. 23.

Does Bolivia have a long-term energy plan?

As previously mentioned, the Bolivian government does not provide any long-term energy planning study, however, the UNFCC (2015b) states that RE will compose 81% of electricity generation by 2030. Bolivia's scenario for 2027 according to MHE (2009) states that biomass sources will comprise 8% of total final energy demand.

Does Bolivia have a lithium resource?

Given that Bolivia's PT region is home to the largest lithium reserve in the world (Sauer et al., 2015), development of cost of Bolivia's own lithium usage as extraction of this resource develops may influence decision makers regarding lithium applications in the Bolivian energy system.



Can Bolivia achieve net zero emissions by 2050?

With Bolivia being a signatory of the Paris Climate Agreement (UNFCCC, 2015) to reduce the effects of climate change and limit temperature growth to 1.5 °C as well as considering their pillars of development, their energetic development must be done with an energy system aimed towards net zero emissions by 2050.



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[Exploring the Potential of Energy Storage Solutions in ...](#)

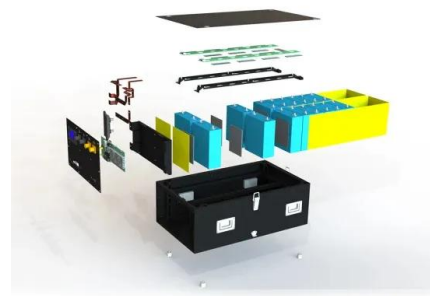
By investing in the development and deployment of energy storage technologies, Bolivia can not only meet its ambitious renewable energy targets ...

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Bolivia energy storage photovoltaic

on energy storage to supply power when the sun is not shining, and Pansera M. Renewable energy for rural areas of Bolivia. Renew Sustain Energy Rev P PV (t) is the

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This work demonstrated that a Bolivian energy system with a high share of renewable resources is possible, leading to energy sovereignty addressing climate change.

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ENERGY PROFILE Bolivia (Plurinational State of)

Renewable energy supply in 2021 Avoided emissions based on fossil fuel mix used for power
Calculated by dividing power sector emissions by elec. + heat gen.

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In this context, Bolivia is making efforts in its electric sector, such as increasing the share of renewable energy and decommissioning inefficient power plants. However, these efforts ...

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ENERGY PROFILE Bolivia (Plurinational State of)

Additional notes: Capacity per capita and public investments SDGs only apply to developing areas. Energy self-sufficiency has been defined as total primary energy production divided by ...

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MEETING THE DUAL CHALLENGE

Carbon capture, use, and storage (CCUS) is an essential element in the portfolio of solu-tions needed to meet the dual challenge of providing affordable and reliable energy while ...

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Decentralized renewable and inclusive energy systems in Bolivia

The country has ambitious plans to become a primary net exporter of energy to the region, with the goal of eliminating extreme poverty and universalizing basic services at home.

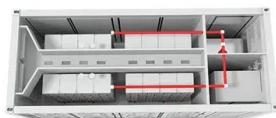
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