# Bolivia agility green energy solutions

Bolivia is moving forward with its objective of reducing poverty and achieving universal access to electricity by 2025. Between 2014 and 2019, 4,300 households were connected to the power grid, providing electricity to approximately 20,200 people. In addition, the country constructed 708 kilometers of electricity distribution lines.

Bolivia, a nation nestled in the heart of South America, is emerging as a pivotal player in the global shift towards sustainable energy. With its abundant lithium reserves and unwavering commitment to environmental stewardship, Bolivia is poised to make significant contributions to the green energy industry.

2020 and 2050, similar to 7 % of the current national GDP of Bolivia. These results highlight the significant challenge of transitioning Bolivia"s energy sector. Keywords: Energy modelling, Energy systems, Bolivia, Energy transition, GHG emissions, Energy policy, Carbon neutrality, OSeMOSYS, Dispa-SET 1. Introduction

Green energetic transition Sustainable and climate change-resilient landscapes o Halt deforestation, land degradation and biodiversity loss o Increase resilience to climate change o Create jobs and income opportunities for the rural population through higher productivity and market development Green energetic transition

The role of energy storage in Bolivia"s energy transition is a crucial factor in the country"s efforts to shift towards a more sustainable and environmentally friendly energy landscape. As Bolivia aims to increase its reliance on renewable energy sources, such as solar and wind power, the need for efficient and reliable energy storage ...

2. Green energetic transition. Promote a shift away from current fossil fuels-based economy; Reduce CO 2 emissions, urban air pollution, power generation needs and pressure on biomass resources; Create jobs and income opportunities; 3. Green economy in sustainable cities. Promote a low-carbon economy; Reduce contamination and pressure on ...

Bolivia is making efforts in its electric sector, such as increasing the share of renewable energy and decommissioning inefficient power plants. However, these efforts remain limited when compared to the total national energy demand. Currently, more than 80% of internal energy consumption in Bolivia is of fossil origin.

This project will study the incorporation of decentralised and inclusive renewable energy systems as part of the energy transition in Bolivia. This will involve creating green jobs for micro, small and medium-sized enterprises (MSMEs) within the framework of the Bolivian Government"s Economic and Social Development Plan.

These simulation results suggest that a fully sustainable energy system for power, heat, transport, and desalination sectors for Bolivia by 2050 is both technically feasible and economically viable, even considering significant growth in Bolivia"s energy demand.

The transition to renewable energy in Bolivia carries the potential to advance poverty reduction efforts in the country. It could reduce the energy access breach in Bolivia, with 2.4% of the population lacking access to electricity. This translates to limitations in basic needs such as lighting, cooking and heating.

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