Expected ROI of industrial energy storage project in Bolivia 2030

What is Bolivia's energy supply in 2021?
According to the information provided by the Ministry of Hydrocarbons and Energy (MHE),Bolivia's total pri-mary energy supply (TPES) in 2021 was 202.9 TWh,based mostly on fossil fuels (80.7% and 11.9% of the energy coming from fossil gas (FG) and oil,respectively). From this value,58% corresponded to gas export (117.4 TWh) .

What are Bolivia's energy goals and projections?
Nevertheless, most of Bolivia's energy objectives and projections are based on 2007 statistics and extend un-til 2030. Recent expansion plans for the sector are described in the Patriotic Agenda for 2025 and the update of the Intended Nationally Determined Contribution (INDC) .

What are the resources available for the Bolivian energy system?
The resources available for the Bolivian energy system could be divided into fossil and renewable. Bolivia holds FG reserves (2 729,1 009,and 1 485 TWh of proven,probable and possible reserves in 2018) . Furthermore,the economy of the country relies to a great extent on fiscal revenues and tax collection from FG exports.

Can agricultural residues be used as a low-cost energy source in Bolivia?
Even though agricultural and forest residues are abundant in Bolivia,they are not utilized as a low-cost energy sourceto increase the proportion of renewable energy in the energy mix and reduce fossil fuel consumption.

What are the future technologies in Bolivia?
Future technologies were based on local commercial availability [51,53], government plans, and trends in Bolivia, so hydrogen-based, carbon-capture, heat pumps, and seasonal storage technologies were not considered. Table 3 shows different technologies' installed capacity and potential.

How much solar radiation does Bolivia have?
According to Bolivia's Atlas of global solar radiation,the existing solar radiation in the country's lowlands (Santa Cruz,Beni,Pando,and north of La Paz) reaches a maximum of 5.1 kWh/m2/day.

BNEF"s forecast suggests that the majority of energy storage build by 2030, equivalent to 61% of megawatts, will be to provide energy shifting--i.e., advancing or delaying the time of electricity dispatch. Co-located renewables ...

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