

SolarTech Power Solutions

Bolivia Solar Power Generation System



Overview

However, in 2021 it has bounced back recording an annual growth rate of 6.10/0.3 The inflation rate (CPI) of Bolivia has decreased to 0.7% in 2021 from 0.9% levels in 2020.4 The general government gross debt to GDP has marginally increased to 80.5% in 2021 from 78% levels in 2020.5 Bolivia has set a target to achieve 183 MW through RE sources by 2025.6 In March 2021, the Bolivian government introduced a net metering scheme for rooftop PV.6 Bolivia has set a target to set up 8 isolated hybrid systems with RE sources in its power system by 2030.7 As per NDC (2021-2030), Bolivia has set a target to attain an annual growth of 10% in the share of electric vehicles in the Bolivian public transportation by 2030.7 Bolivia receives high solar irradiation (GHI) of 5.4 kWh/m²/day and specific yield 4.9 kWh/kWp/day indicating a high technical feasibility for solar in the country.8 Bolivia has planned to make the country a global battery industrial hotspot.9 In Feb 2021, Bolivia connected 100 MW Oruro Solar Plant to its main grid, a major step towards clean energy future.10 Bolivia with the assistance of the World Bank has lightened up its rural area through solar power lights.11 97.6% of the population in Bolivia had access to electricity as of 2020.12 Electricity Law defines the principles, institutional organisation, operational structure, and economic model of the electricity sector in Bolivia.13 Bolivia's National Electricity Company (Empresa Nacional de Electricidad)-ENDE controls majority of the power sector in the country having 80% share in Generation & Transmission and 51% share in Distribution sector. 14 Bolivia has a transmission system comprising of lines operating at 69 W, 115 kV, 230 kV.15 Bolivia has seven existing distribution companies having monopoly in operating areas.16 Bolivia has two transmission companies Transportadora de Electricidad (TDE), and ISA Bolivia that are responsible for operation and maintenance of the network.16 Bolivia has connected all major cities to main national grid except Tarija and Trinidad while transmission line for Tarija is under construction.16 CAE Development Bank of Latin America has extended fund to all energy efficient and RE projects in Bolivia.17 In 2018, Inter-American Development Bank (IDB) had approved USD 51.6 Mn loan to boost electricity sector in Bolivia.18 The Green Climate Fund (GCF) has approved a funding of USD 1.1 Mn towards clean energy. 19 In 2020, the per capita electricity consumption of 0.825 MWh in Bolivia is significantly lower in comparison to the global average of 3.31 MWh.20 The total installed capacity of solar PV witnessed a CAGR of 118.0%

reaching 170.33 MW in 2021 from 7.54 MW levels in 2017.21 In 2021, the total installed capacity in the country stood at 3.58 GW²² with a significant share coming from gas (68.65%) followed by hydro (20.47%), solar (4.6%), wind (3.56%), biofuels (1.7%), biogas (0.14%), oil (0.88%).²² What is the primary source of energy for Bolivia?

The primary source of energy for Bolivia from this study is solar PV. Such high shares of solar PV in Bolivia are supported by solar resource findings in Breyer and Schmid (2010), which determined Bolivia to be among the ten countries with the maximum solar irradiation for fixed optimally tilted PV systems.

How much solar power does Bolivia have?

In the study of Jacobson et al. (2017), Bolivia's all-purpose end load would be covered by 22% wind energy, 15% geothermal, 3% hydropower, 49% solar PV, and 10% CSP. For the whole of South America, Löffler et al. (2017), find roughly 40% shares of both hydropower and solar PV, with the remaining 10% covered by wind offshore and onshore.

What will be Bolivia's energy transition?

This transition for Bolivia would be driven by solar PV based electricity and high electrification across all energy sectors.

Can solar PV reduce energy poverty in Bolivia?

These efficiency savings can be estimated to about 22%, 14%, and 26% for BPS-1, BPS-2, and BPS-3, respectively. Furthermore, large-scale development of solar PV, particularly in off-grid communities, can serve to reduce energy poverty in Bolivia (Sovacool, 2012).

Should Bolivia use solar energy to generate synthetic fuels?

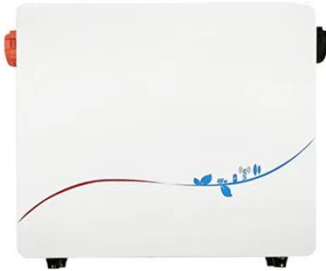
Using Bolivia's own excellent solar resources to generate synthetic fuels in BPS-1 and BPS-2 would result in energy independence and security. Due to the lack of GHG emission costs in BPS-3 fuel costs remain for the fossil fuels used in the heat and transport sectors. Fig. 23.

What are the policy guidelines for the energy sector in Bolivia?

The Bolivian government has established the following policy guidelines for the energy sector: energy sovereignty, energy security, energy universalization, energy efficiency, industrialization, energy integration, and

strengthening of the energy sector (MHE, 2014).

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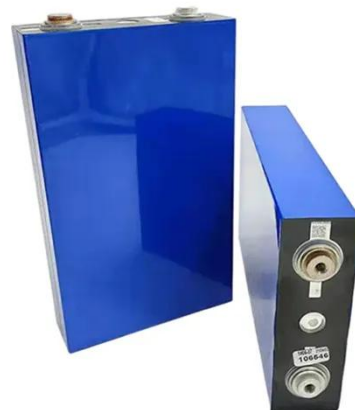


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Pathway to a fully sustainable energy system



for Bolivia across power

Apr 15, 2021 · Teske (2019) suggests for Central South America, which includes Bolivia, that for a 1.5 °C scenario, the power generation structure would be composed of 29% variable RE ...

Plurinational State of Bolivia 1

Jul 10, 2023 · 100% Country's regional performance and characteristics Access to Electricity (2020) Share of Solar in Generation Mix (2019) Solar Capacity CAGR (2017-2021) 97.6% ...



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 ...

Bolivia photovoltaic power station energy storage

As Bolivia's first and largest solar power

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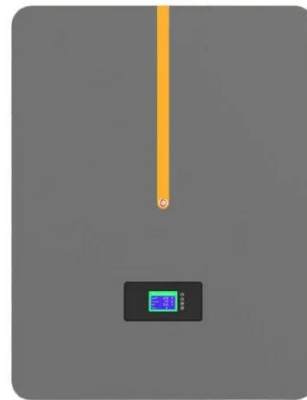
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