

Bolivia s Home Energy Storage Standard





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).

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).

What are the heating demands in Bolivia?

Residential heating demands in Bolivia are quite low, though they do notably increase throughout the transition as access to energy services increase, except for biomass for cooking, which is phased out by the end of the transition. Heating demands are projected to increase from 52 TWh in 2015 to 205 TWh in 2050. Fig. 12.

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 UNFCCC (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.

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.

Will Electric based heating drive the transition in Bolivia?

Heating demand in Bolivia transitions from a system dominated by natural gas and biomass to a largely electrified heating sector. Because of the low cost of renewable electricity, electric based heating will drive the transition for Bolivia's heat sector. Fig. 13.



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Bolivia photovoltaic energy storage

renewable energy projects underway. As of 2021, hydro energy made up the majority of renewable energy generation. In February 2021, Bolivia's largest solar plant, O ng solar ...

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Hybrid energy storage Bolivia

A city in Bolivia which is currently powered entirely by diesel generators will be the home of a 5MW solar-diesel hybrid power plant fitted with battery storage, which inverter supplier SMA ...

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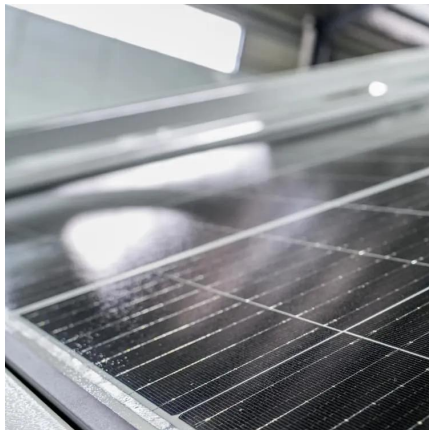
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The resources available for the Bolivian energy system could be divided into fossil and renewable. Bolivia holds FG reserves (2 729,1 009, and 1 485 TWh of proven, probable and possible ...

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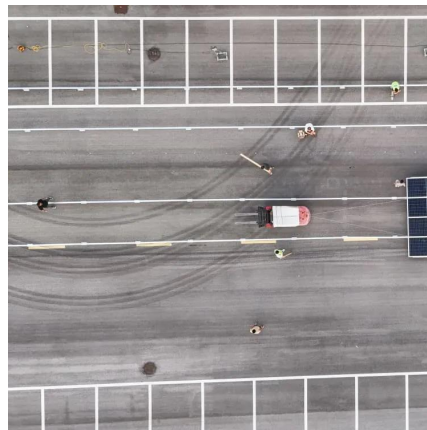




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Bolivia

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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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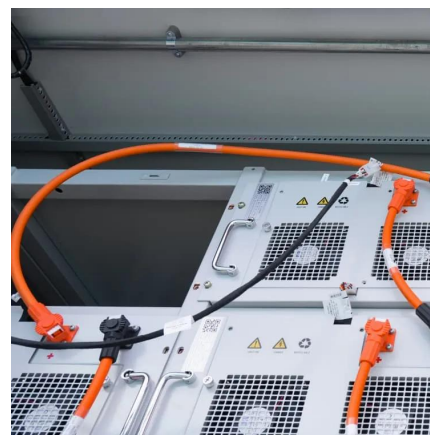
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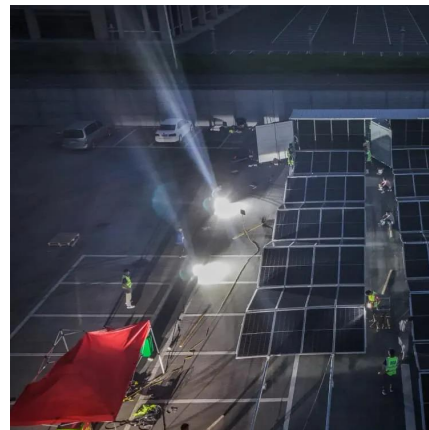




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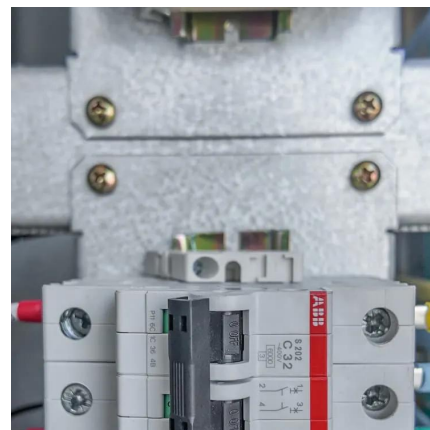
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