

Bolivian wind energy storage system prices





Overview

Storage capacity: ~8 hours at full load (equivalent to powering 600,000 homes). Cost estimate: \$1.2–1.8 billion (cheaper than lithium batteries for long-duration storage). Jobs created: 2,000+ during construction; 150+ permanent roles. 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).

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.

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.

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.

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).

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.



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