Zero energy solutions Bolivia

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 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) .

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.

How much energy does Bolivia use?

Total energy consumption in 2020 in Bolivia was of 43 kboe,of which shares were 24.2% for Diesel (DS),22.0% for NG,29.4% for gasoline and other fuels /Heavy Fuels (HF),12.4% for Biomass (BM) and 12% for electricity (EL) .

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This research studies the Bolivian energy system and its long-term transition towards a more renewable and sustainable energy mix. Three scenarios are explored explicitly, based on a mix of management and goal-based measures. A BAU scenario is defined as the baseline in which energy demands double in each sector over a 20-year period.

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Total financing needs for Bolivia"s Net Zero path. To reach Net Zero by 2050, Bolivia has to reduce its BAU emissions by 6.5 billion tCO 2 eq between 2022 and 2050. Most of the reductions can be done relatively cheaply ($20/tCO 2) by dramatically reducing deforestation.

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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.

Future research for the Bolivian case should focus on improving the energy demand projections with econometric models; expanding the model structure to include alternative transition pathways with carbon-neutral fuels and complementary technologies; including carbon budgets and compensation with other sectors besides energy; and ...

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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.

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The Plan outlines expansion of the electric system of Bolivia up to 2025. The Plan is aligned with number of other important developmental visions for Bolivia. Expansion of the electric grid is closely connected with the goal to eradicate extreme poverty in the country, especially of the people based in rural and per-urban areas.

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