FTMRS SOLAR

Bolivian solar containerized low-pressure type for base stations

Overview

Rapid cost reductions of solar photovoltaics and wind offer a pathway to deep decarbonization of energy at low cost. Off-river pumped hydro energy storage provides mature, cheap and very large-scale stor.

Where can a solar power system be used in Bolivia?

The system is designed for operating in the region of the Bolivianrural highlands, Colquencha’s municipality. In the case of the Bolivian remote highlands, off-grid PV-battery systems are often used since the grid is too expensive to expand.

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).

Can Bolivia have a low-carbon power system?

A sketch of Bolivia’s potential low-carbon power system configurations. The case of Applying carbon taxation and lowering financing costs Energy Strateg. Rev., 17 (2017), pp. 27 - 36, 10.1016/j.esr.2017.06.002 J. Clean. Prod., 199 (2018), pp. 687 - 704, 10.1016/j.jclepro.2018.07.159 Technol. Forecast. Soc.

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).

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