

# Ranking of Argentina's communication base station solar hybrid power sources



## Overview

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What is the electricity mix in Argentina?

Sweden Philippines Argentina's electricity mix includes 51% Gas, 23% Hydropower and 12% Wind. Low-carbon generation reached a record high in 2025.

What is a hybrid system solution for powering telecom towers?

Hybrid system solution commonly considered for powering telecom towers are PV-WT-battery, PV-DG-battery, WT-DG-battery, PV-WT-DG-battery, and PV-FC-battery systems (Aris & Shabani, 2015; Siddiqui et al., 2022). Brief information on these hybrid solutions discussed in the following paragraphs.

Can a hybrid cooling system be used for remote telecommunications base stations?

A hybrid cooling system for telecommunicatioin base stations. 2016 IEEE International Telecommunications Energy Conference (INTELEC), (pp. 1-6). Ecoul. (2016). Ecoul case studies on energy storage for remote telecommunications base station (New South Wales, Australia).

Does Argentina have low-carbon electricity?

Argentina's history with low-carbon electricity has seen both growth and setbacks over the decades. In the early 1980s and into the 1990s, hydropower saw a notable increase, with gains of up to 9 TWh, though it also underwent declines, as seen with a 6.7 TWh drop in 1988 and similar reductions in later years.

How much electricity does Argentina use per person?

Despite the diverse energy setup, Argentina's total electricity consumption per person has experienced a decline from previous highs. The latest consumption figure stands at approximately 3162 kWh per person, which is lower than the record level of around 3569 kWh per person seen in 2016.

## Should Argentina expand its wind power capacity?

To further increase its clean electricity generation, Argentina should expand its wind energy capacities, leveraging the success it already enjoys in this sector. The country might also strive to emulate successful regions like Iowa and South Dakota, where wind power constitutes more than 60% of the electricity mix.

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