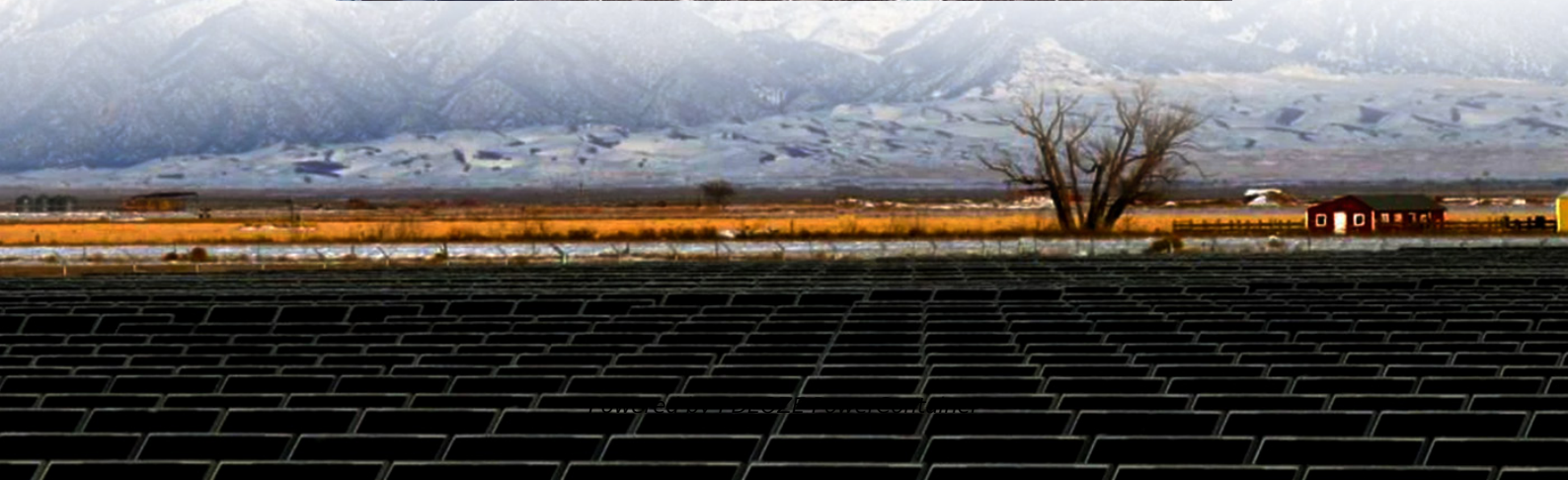


PDEOZE PowerContainer

Power generation range of Argentina s green communication base stations



Overview

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

What is the energy consumption of 5G communication base stations?

Overall, 5G communication base stations' energy consumption comprises static and dynamic power consumption. Among them, static power consumption pertains to the reduction in energy required in 5G communication base stations that remains constant regardless of service load or output transmission power.

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.

How to make base station (BS) green and energy efficient?

This paper aims to consolidate the work carried out in making base station (BS) green and energy efficient by integrating renewable energy sources (RES). Clean and green technologies are mandatory for reduction of carbon footprint in future cellular networks.

Does Argentina have clean electricity?

These trends demonstrate the dynamic nature of Argentina's clean electricity generation and underscore the necessity for consistent growth and diversification toward sustainable energy sources such as solar and nuclear power. We estimate the degree of electrification by comparing electricity and

total energy emissions.

What is Argentina's energy consumption like in 2024?

Over the past year, from August 2024 to July 2025, Argentina's electricity consumption has been characterized by a balanced mix of energy sources, with a slight preference for fossil fuels.

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