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Argentina Renewable Energy - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

Argentina Renewable Energy Market Analysis

The Argentina Renewable Energy Market size in terms of installed base is expected to grow from 17.34 gigawatt in 2025 to 22.40 gigawatt by 2030, at a CAGR of 5.25% during the forecast period (2025-2030).

Capacity additions focus largely on utility-scale wind farms in Patagonia and large solar plants in the northwest, while inflation moderation and projected 5.2% GDP growth in 2025 improve investor confidence. Regulatory certainty created by the 30-year guarantees under the Large Investment Incentive Regime (RIGI) attracts developers planning projects above USD 200 million. Continued cost deflation in wind?turbine and solar-module supply chains makes renewables cheaper than fossil fuel generation, an advantage amplified by Argentina's exceptional resource quality. Climate-finance inflows from MDBs, green bonds, and sustainability-linked loans further reduce the weighted average cost of capital for the Argentina renewable energy market, helping close the funding gap for transmission projects that connect remote high-resource zones to Buenos Aires demand centers.

Argentina Renewable Energy Market Trends and Insights

Renewable-energy auction rounds (RenovAr & MATER)

Argentina's RenovAr and MATER programs have evolved into sophisticated capacity allocation tools that deliver bankable PPAs for private investors. A new MATER call assigned 209 MW of dispatch priority along corridors with superior resources, ensuring revenue visibility for Patagonia and the Litoral projects. The third RenovAr round added 400 MW for small-scale plants, broadening market access for distributed generation. Since 2016, auction rounds mobilized more than USD 11 billion, adding 8.7 GW and positioning the Argentine renewable energy market as the region's benchmark for transparent procurement. World Bank guarantees underpinning these PPAs reduce counterparty risk in a country still rated high-yield. Continuity of the schemes under the Milei administration signals long-term policy support and sustains deal flow into the next decade.

Declining LCOE for solar PV & on-shore wind

Global cost declines place solar PV at USD 0.044/kWh and wind at USD 0.033/kWh in 2024, figures already below Argentina's thermal generation costs. Patagonian wind farms achieve capacity factors above 40%, and north-western solar plants exceed 25%, magnifying the cost advantage. The 312 MW Cauchari complex, completed in July 2024, proved that large solar assets in remote deserts can achieve grid parity. Residential and commercial solar reached break-even in high-tariff provinces, stimulating rooftop uptake and feeding the emerging distributed segment. Falling hardware prices, therefore, underpin the 8.0% CAGR that solar is expected to post within the Argentine renewable energy market.

Macroeconomic instability & FX-risk deterring FDI

Although projected to drop to 18-23% by end-2025, inflation remains the highest in the G20 and complicates cost pass-through in long-term PPAs. Capital controls limit the conversion of peso revenues into USD, clouding the repatriation path for foreign sponsors. A 50% peso devaluation in late 2023 strained projects with peso-cost and USD revenue mismatches, prompting lenders to demand higher debt-service reserves. Fiscal consolidation reduces the state's ability to co-finance transmission, pushing more burden onto private balance sheets. These factors elevate hurdle rates and slow commitment pacing in Argentina's renewable energy market.

Other drivers and restraints analyzed in the detailed report include:

International climate-finance inflows (green, sustainability-linked bonds) / National grid expansion (Plan Federal I & II) / Transmission bottlenecks in high-resource regions (Patagonia, NOA) /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Wind contributed 58.8% of the Argentina renewable energy market share in 2024, anchored by capacity factors above 40% in Patagonia. Genneia's USD 240 million wind farm and AES Argentina's 102.4 MW expansion illustrate ongoing investment appetite. Solar, however, posts the fastest trajectory with an 8.0% CAGR, helped by the 312 MW Cauchari complex and Verano Energy's 200 MW San Rafael project. Local panel manufacturing will start in 2025, improving currency hedging by reducing import needs. Hydro remains stable through the long-gestating 1.3 GW Kirchner-Cepernic dams, while biomass aligns with agribusiness clusters seeking waste-to-energy solutions.

Cost convergence shifts capital allocation. Global module and turbine price drops, combined with exceptional irradiation and wind speeds, make both technologies cheaper than combined-cycle gas. Environmental litigation, such as the court order requiring Enel to remove turbines by end-2025, adds compliance costs for wind. Solar's distributed potential penetrates residential and SME rooftops, especially where subsidies diminish and tariffs rise. As hardware costs fall, the Argentine renewable energy market size attributed to solar will likely close part of the current gap with wind between 2025 and 2030.

The Argentina Renewable Energy Market is Segmented by Source (Solar, Wind, Hydro, Biomass and Waste, and Others), Grid

Connection (On-Grid and Off-Grid/Micro-Grid), and End-User (Residential, Commercial and Industrial, and Utilities). The Market Size and Forecast are Provided in Gigawatt (GW).

List of Companies Covered in this Report:

Pampa Energia SA / YPF Luz / Genneia SA / Central Puerto SA / 360 Energy SA / Enel Green Power S.p.A. / Acciona Energia / Nordex Argentina / Siemens Gamesa Renewable Energy / Vestas Argentina / TotalEnergies Renewables Argentina / AES Argentina Generacion / Invenergy Argentina / Canadian Solar / Trina Solar / Neoen Argentina / Senvion GmbH / Arrebeef SA (biomass co-gen) /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
3 months of analyst support /

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