Argentina Solar Energy - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2026 - 2031)

Market Report | 2026-02-09 | 90 pages | Mordor Intelligence

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Report description:

Argentina Solar Energy Market Analysis

The Argentina Solar Energy Market is expected to grow from 2.15 gigawatt in 2025 to 2.51 gigawatt in 2026 and is forecast to reach 5.4 gigawatt by 2031 at 16.60% CAGR over 2026-2031.

Robust auction pipelines, falling levelized costs in high-irradiation provinces, and fiscal incentives under the RIGI framework are accelerating the Argentine solar energy market, even as currency instability complicates equipment imports. Utility-scale projects continue to dominate new builds because dollar-indexed PPAs insulate revenue from peso depreciation, while peso-linked green bonds are broadening access for commercial rooftops in major cities. Transmission upgrades financed by multilateral lenders are steadily easing bottlenecks between the Northwest and Buenos Aires, opening room for incremental capacity. Hybrid wind-solar complexes tied to Patagonia's hydrogen roadmap add a parallel demand driver, positioning the Argentine solar energy market for diversified growth across grid-connected and off-grid segments.

Argentina Solar Energy Market Trends and Insights

Renewable-energy Auctions Continue to Secure Bankable PPAs

RenovAr and MATER rounds provide 20-year dollar-indexed contracts that shield revenues from peso swings, enabling developers such as Genneia to reach financial close on 270 MW in Mendoza slated for operation in 2025. The auctions also tendered 500 MW of storage capacity in 2024, allowing older solar assets to add evening-peak flexibility. International lenders favor these structures because CAMMESA assumes payment risk so that auction-backed projects will remain the backbone of the Argentine solar energy market. Merchant projects instead cluster in the C&I space, where creditworthy off-takers negotiate bespoke terms. Priority-dispatch rules further reduce curtailment risk, sharpening the investment case for large solar arrays.

Declining LCOE of Utility-Scale PV in High-Irradiation Regions

Salta and Jujuy record 2,200-2,400 kWh/m^2/year of solar resource, pushing utility-scale PV LCOE below USD 30 per MWh and undercutting gas turbines that face intermittent fuel supply. Bifacial modules lift yields by up to 15%, while single-axis trackers now ship with most new projects. Sub-USD 0.30/W module pricing reduces payback periods to below seven years, drawing developers toward a narrow Northwest corridor. However, concentrating too many projects there intensifies congestion, so transmission additions will dictate how far declining costs can stretch provincial pipelines across the broader Argentine solar energy market.

Macroeconomic Volatility & FX Restrictions on Imported Modules

Peso depreciation exceeded 100% versus the dollar in 2024, while import permits for modules, inverters, and trackers stalled for months at customs, extending construction windows and jeopardizing PPA milestones. Developers with peso-denominated income face a currency mismatch on dollar debt, while those with dollar PPAs struggle to repatriate dividends through the official FX market. Smaller firms without multi-lateral banking relationships are most exposed, raising risk premiums and weighing on the overall Argentine solar energy market.

Other drivers and restraints analyzed in the detailed report include:

Corporate PPA Demand from Mining & Agro-ExportersTransmission-Grid Expansion Financed by CAF & IDBSaturation of Existing Substations in Northwest

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

Segment Analysis

Solar PV held 100.00% of installed capacity in 2025, giving it the largest Argentina solar energy market share in absolute terms. With CSP absent, the segment's 16.28% CAGR to 2031 should lift PV to 5.4 GW, preserving the central role of module and tracker cost curves. The Argentina solar energy market size for PV is projected to increase by a net 2.89 GW over the forecast span, driven by auction-tied builds and corporate PPAs. Module-price declines of 8-10% annually and bifacial penetration above 60% nurture this trajectory, while the Mendoza BESS-linked project highlights how storage adds incremental revenue streams.

Argentina solar energy market developers favor single-axis trackers that raise yields 17-20% in high-albedo soils, making them standard on new utility sites. Battery costs falling below USD 350 per kWh allow evening-peak capture, closing the economic gap with gas-fired reserve plants. CSP remains stranded by high capex and longer construction cycles. Unless a dedicated capacity payment emerges, CSP's addressable share will stay negligible within the Argentine solar energy industry.

The Argentina Solar Energy Market Report is Segmented by Technology (Solar Photovoltaic and Concentrated Solar Power), Grid Type (On-Grid and Off-Grid), and End-User (Utility-Scale, Commercial and Industrial, and Residential). The Market Sizes and Forecasts are Provided in Terms of Installed Capacity (GW).

List of Companies Covered in this Report:

360 Energy SA Canadian Solar Inc. Trina Solar Co. Ltd. JinkoSolar Holding Co. Ltd. LONGi Green Energy Technology Co. Ltd. Genneia SA YPF Luz (YPF Energia Electrica SA) Enel Green Power Argentina Total Eren Argentina Neoen Argentina Enerpac Tool Group (solar jacking systems) Solartec S.A. Talesun Argentina MSU Energy Scatec Solar Argentina First Solar Inc. Ingeteam Power Technology ABB Argentina (inverters) Sungrow Power Supply Co. Ltd. Atlas Renewable Energy Argentina

Additional Benefits:

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

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