

PIENAAR ENERGY (PTY) LTD

Latin America s largest solar power generation area



**Efficient
Higher Revenue**

- Max. Efficiency 97.5%
- Max. PV Input Voltage 600V
- 150% Peak Output Power
- 2 MPP Trackers, 150% DC Input Oversizing
- Max. PV Input Current 16A, Compatible with High Power Modules



**Intelligent
Simple O&M**

- IP66 Protection Degree: support outdoor installation
- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- DC & AC Type II SPD: prevent lightning damage
- Battery Reverse Connection Protection



**Flexible
Abundant Configuration**

- Plug & Play, EPS Switching Under 10ms
- Compatible with Lead-acid and Lithium Batteries
- Max. 6 units Inverters Parallel
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Overview

By Region: Brazil leads the market with a share of 29% in 2025, driven by favorable net metering policies, abundant solar resources, strong financing mechanisms, and rapid growth in distributed generation across multiple states. With a large share of its land area located in tropical latitudes, Latin America has historically been associated with warm weather and sunshine. In recent years, however, this abundant natural resource saw its popularity expand far beyond tourism, and into the energy sector. In order of significance, the countries exerting the most influence on. The Latin America solar energy market size was valued at USD 7.40 Billion in 2025 and is projected to reach USD 19. In 2019, at COP 25 in Madrid, ten Latin American and Caribbean countries announced plans to achieve 70% renewable energy in their. Between 2023 and 2028, the International Energy Agency (IEA) forecasts the region will add another 165 GW to its total capacity, 90% of which will come from just four markets: Brazil (108 GW), Chile (25 GW), Mexico (10 GW), and Argentina (4 GW). 2 Broadly speaking, photovoltaic and wind energy will. In this region, PepsiCo began its journey of harnessing solar energy in 2019 and, to date, has managed to reduce nearly 49 thousand tons of carbon dioxide (CO₂) emissions in its manufacturing and transportation activities, which is equivalent to the total CO₂ emissions generated by approximately.

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Latin America Solar Energy Market Size 2026-2034

Latin America Solar Energy Market size reached USD 7.40 Billion in 2025 to reach USD 19.36 Billion by 2034, at a CAGR of 11.28% during 2026-2034.

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A Race to the Top Latin America 2023: Wind and solar utility-scale

With a collective capacity of over 57 GW, Brazil, Chile, Colombia, and Mexico make up almost 84% of the existing 69 GW of currently operating utility-scale solar and wind farms in the region.



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Solar energy in Latin America

Aligned with global trends, the installed solar photovoltaic capacity in Latin America and the Caribbean has greatly increased in the last decade, surpassing 85 gigawatts in 2024.



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Aerial view of the northern border state of Sonora where state electric utility CFE is building the largest solar plant in all of Latin America, in Puerto Penasco, Sonora state, Mexico February 2

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Test certification
CE FC



Latin America Renewable Energy Sector Report 2025-2026

This solar project, which upon completion will be Latin America's largest, will feature 1 GW of solar capacity, 192 MW of storage and a 315km high-voltage transmission line.

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Dominican Republic will be the country with the largest solar power

The region's most ambitious solar panel project is at the Caribbean Plant in the Dominican Republic, which has 2,667 panels that generate 62,000 kilowatts per month.

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Brazil, Chile, Mexico Lead Renewable Energy in Latin America



Brazil, Chile, Mexico lead Latin America's renewable energy markets. Detailed data and stats on energy consumption, generation, and key growth segments.

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Global Solar Atlas

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and the general ...



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The largest solar power plants in Latin America: cost and capacity of

Talking about the largest solar power plants in Latin America, we cannot ignore Guatemala, a country that invests heavily in the promising photovoltaic sector. Solar energy has been developing in ...

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Latin America on track to harness solar power potential

LITTLETON, Colorado, March 2 (Reuters)

- Countries in Latin America and the Caribbean have the largest solar power development pipeline outside Eastern Asia and North America, making the

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