

Global Perovskite-silicon Tandem Cell Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Perovskite-silicon Tandem Cell competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Perovskite-silicon tandem solar cells are multi-junction photovoltaic devices. By connecting a layer of perovskite (as the "top cell") in series (or in parallel/independently outputting) with a layer of conventional silicon (as the "bottom cell"), the two materials absorb photons of different wavelengths (energy) from sunlight, thus covering a wider spectrum, reducing photon energy waste (thermal loss), and achieving higher photoelectric conversion efficiency than single-junction cells. The top cell typically has a wide bandgap (~1.6-1.8 eV) and is responsible for absorbing visible light/high-energy photons; the bottom cell (silicon) absorbs infrared/low-energy photons. With proper design, the efficiency ceiling of conventional silicon single-junction cells can be broken. Therefore, perovskite-silicon tandem solar cells combine the low-cost manufacturing potential of perovskite materials with the mature and stable foundation of the silicon cell industry chain. In 2024, global perovskite-silicon tandem solar cell production reached 348.3 MW, with an average selling price of \$0.348/W and a gross profit margin of 29.8%-33.74%. R&D/Commercialization Status: On September 5, 2024, Oxford PV announced its first shipment of a commercial perovskite tandem module to a US customer, with a 72-cell solar module achieving an efficiency of 24.5%. Oxford PV plans to achieve mass production of perovskite-silicon tandem cells in 2026. On June 12, 2025, LONGi Green Energy Technology Co., Ltd. announced that its independently developed large-area (260.9 cm²) crystalline silicon-perovskite tandem solar cell achieved a conversion efficiency of 33%. In July 2025, Caelux completed its first commercial customer order shipment for its active glass technology, and its current factory has a capacity of 100 MW. In August 2025, Anhui Huasun Energy Co., Ltd.

achieved two breakthroughs in the field of crystalline silicon heterojunction/perovskite tandem solar cells: a laboratory-scale small-size (1cm²) cell efficiency exceeding 34.02%, and a production-scale large-size (210HP) cell efficiency reaching 29.01%. In November 2025, Tongwei Co., Ltd.'s perovskite-crystalline silicon tandem solar cell product achieved a conversion efficiency exceeding 34.78%. Perovskite solar cells utilize perovskite-type organometal halide semiconductors as light-absorbing materials and belong to the third generation of solar cells. Third-generation solar cells mainly refer to some new concept cells with high conversion efficiency, such as dye-sensitized cells, quantum dot cells, and organic solar cells, also known as new concept solar cells. Perovskite solar cells have a similar layered structure to traditional photovoltaic cells. They mainly consist of five layers: a transparent conductive substrate, an electron transport layer (ETL), a perovskite light-absorbing layer, a hole transport layer (HTL), and a metal electrode. Perovskite cells combine the advantages of first-generation crystalline silicon cells (stability, high efficiency, and low cost) with the advantages of second-generation inorganic thin-film cells (high theoretical efficiency and simple fabrication process). They use low-cost raw materials to achieve higher theoretical efficiency, driving efficiency improvement and cost reduction in the photovoltaic industry, and opening up long-term market potential as a next-generation solar cell technology. Perovskite cells mainly include two technical routes: single-junction and tandem. The theoretical limit photoelectric conversion efficiencies of single-junction and tandem cells are 33% and 44%, respectively, with tandem cells exhibiting higher conversion efficiency compared to crystalline silicon cells. Perovskite tandem solar cells offer significant efficiency improvements and represent the next stage of development for crystalline silicon. With crystalline silicon module costs falling below 1 yuan/W, the cost-effectiveness logic of a single perovskite cell is no longer viable. Perovskite-crystalline silicon tandem solar cells are compatible with existing crystalline silicon production capacity and can be combined with existing HJT and TOPCon technologies. Upgrading products can be achieved simply by adding perovskite processing to existing production lines. The resulting tandem modules are expected to achieve efficiencies exceeding 30%, representing a generational difference compared to traditional crystalline silicon. Perovskite cell manufacturers, crystalline silicon manufacturers, and equipment manufacturers have reached a consensus on the tandem technology route, which is poised to become the industry mainstream.

The global Perovskite-silicon Tandem Cell market size was estimated at USD 121.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 40.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Perovskite-silicon

Tandem Cell market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Perovskite-silicon Tandem Cell market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Perovskite-silicon Tandem Cell market.

Global Perovskite-silicon Tandem Cell Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Oxford PV
Swift Solar

Cubic PV (formerly Hunt Energy)
Hanwha Qcells
Enecoat Technologies Co., Ltd.
First Solar (Evolat AB)
Caelux
LONGi Green Energy Technology Co.,Ltd.
Anhui Huasun Energy Co.,Ltd.
Tongwei Co., Ltd.
Beijing Yaoneng Photoelectric Technology Co., Ltd.
China Huaneng
BOE
Hangzhou Colin Electric Co., Ltd.
Chint Group Corporation

Market Segmentation (by Type)

Tandem
Multi-junction
Others

Market Segmentation (by Application)

BIPV
Power Station
Transportation & Mobility
Consumer Electronics
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Perovskite-silicon Tandem Cell Market
Overview of the regional outlook of the Perovskite-silicon Tandem Cell Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Perovskite-silicon Tandem Cell Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Perovskite-silicon Tandem Cell, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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