+357 96 030922
info@marketpublishers.com

# Solar Shingles Market Forecasts to 2032 – Global Analysis By Type (Monocrystalline Solar Shingles, Polycrystalline Solar Shingles and Thin-Film Solar Shingles), Capacity, Installation, Distribution Channel, End User and By Geography

https://marketpublishers.com/r/S37F66DB823FEN.html
Date: September 2025
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: S37F66DB823FEN

## Abstracts

According to Stratistics MRC, the Global Solar Shingles Market is accounted for $542.2 million in 2025 and is expected to reach $911.3 million by 2032 growing at a CAGR of 7.7% during the forecast period. Solar shingles, also known as photovoltaic shingles, are advanced roofing materials that serve a dual purpose: they protect buildings like traditional shingles while generating electricity from sunlight. As a form of building-integrated photovoltaics (BIPV), they blend seamlessly into rooftops, offering a sleek alternative to bulky solar panels. Made from materials like monocrystalline silicon or thin-film solar cells, each shingle contains photovoltaic elements that convert solar energy into usable electricity. Connected to an inverter, they supply power to homes or feed excess energy into the grid. Solar shingles are ideal for homeowners seeking energy efficiency without compromising architectural aesthetics.

Market Dynamics:

Driver:

Innovations in Design and Technology

Continuous advancements in photovoltaic materials and integration techniques are propelling the solar shingles market forward. Enhanced aesthetics, improved energy efficiency, and simplified installation formats—such as nailable shingles—are making solar roofing more accessible and appealing. These innovations not only reduce

+357 96 030922
info@marketpublishers.com

installation time but also align with green building mandates and consumer demand for sustainable, visually cohesive energy solutions. As manufacturers prioritize modularity and performance, design-led innovation remains a key catalyst for market expansion.

Restraint:

High Initial Costs

High initial costs significantly hinder the adoption of solar shingles, deterring price-sensitive consumers and slowing market penetration. Despite long-term energy savings, upfront expenses remain prohibitive for many households, especially in emerging economies. This cost barrier limits scalability, delays ROI realization, and reduces competitiveness against traditional roofing or cheaper solar alternatives. Consequently, manufacturers face slower demand growth, constraining innovation, distribution expansion, and broader acceptance across residential and commercial segments.

Opportunity:

Energy Storage Integration

The convergence of solar shingles with energy storage systems presents a transformative opportunity. By pairing rooftop generation with on-site battery storage, homeowners and businesses can optimize energy use, reduce grid dependency, and enhance resilience during outages. This integration supports time-of-use pricing models and aligns with smart grid initiatives. As lithium-ion and alternative storage technologies become more cost-effective, bundled solar-storage solutions are expected to unlock new revenue streams and accelerate adoption across residential and commercial segments.

Threat:

Installation Complexities & Labor Strain

Installation complexities and labor strain significantly hinder the market by inflating deployment costs and elongating project timelines. Skilled labor shortages, coupled with intricate integration requirements, deter widespread adoption, especially in retrofitting scenarios. These challenges reduce scalability, limit consumer confidence, and constrain installer networks—ultimately stalling market momentum. Without streamlined

+357 96 030922
info@marketpublishers.com

installation protocols and workforce upskilling, solar shingles risk lagging behind more accessible rooftop solar alternatives in growth and penetration.

Covid-19 Impact

The pandemic disrupted supply chains and constrained labor availability—temporarily slowing solar shingle installations. However, it also catalyzed interest in energy independence and sustainable home upgrades. Remote work and rising utility costs prompted homeowners to explore renewable solutions, including solar-integrated roofing. Government stimulus packages and green recovery initiatives helped revive momentum. Post-pandemic, the market is rebounding with renewed focus on resilient infrastructure, decentralized energy, and climate-conscious building practices.

The retrofit installation segment is expected to be the largest during the forecast period

The retrofit installation segment is expected to account for the largest market share during the forecast period, due to their compatibility with existing residential and commercial roofs. Homeowners seeking energy upgrades without full roof replacement find solar shingles an attractive option. This segment benefits from rising awareness, favorable incentives, and improved product flexibility. As aging infrastructure meets sustainability goals, retrofit solutions offer a practical pathway to decarbonisation. Manufacturers are tailoring products for seamless integration, enabling faster adoption across diverse roof types and geographies.

The thin-film solar shingles segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the thin-film solar shingles segment is predicted to witness the highest growth rate, due to their lightweight design, flexibility, and cost-effectiveness. Unlike bulky crystalline options, thin-film variants offer easier installation and better adaptability to curved or irregular surfaces. Their lower material usage and aesthetic appeal make them ideal for residential applications. Technological improvements in conversion efficiency and durability are further enhancing their market potential. As demand grows for unobtrusive solar solutions, thin-film shingles are emerging as a high-growth category.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

+357 96 030922
info@marketpublishers.com

share due to rapid urbanization, supportive government policies, and rising energy demand. Countries like China, Japan, and India are investing heavily in rooftop solar initiatives and sustainable housing. The region's large residential base, combined with favorable climate conditions and cost-sensitive consumers, creates fertile ground for solar shingle adoption. Local manufacturing capabilities and regulatory incentives further strengthen APAC's position as the dominant regional market.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to technological innovation, and increasing consumer awareness. Federal tax credits, net metering programs, and green building standards are accelerating adoption across the U.S. and Canada. The region's emphasis on energy independence and climate resilience is boosting demand for integrated solar roofing. With leading manufacturers headquartered in North America, the region benefits from rapid product development and robust distribution networks.

Key players in the market

Some of the key players profiled in the Solar Shingles Market include Tesla, Inc., CertainTeed, Luma Solar, SunTegra Solar Roof Systems, RGS Energy, Forward Solar Roofing, Hanergy Holding Group Ltd., SunPower Corporation, SolteQ Group, Exasun B.V., ArteZanos Inc., Onduline Group, ISSOL SA, Solarstone OU, Electrek Solar Roofs, Hermans Techniglaz, Ergosun Solar Roof Tiles, Atlantis Energy Systems, Inc., Planum Solar Roof Tiles and Prolog Solar.

Key Developments:

In July 2025, Tesla has reportedly signed a significant chip supply agreement with Samsung Electronics. This deal is intended to support Samsung's foundry business and will involve the production of Tesla's next-generation AI6 chip at Samsung's new chip factory in Taylor, Texas.

In July 2025, Tesla has partnered with ACKO General Insurance. ACKO will serve as Tesla's preferred insurance partner in India, providing a fully integrated, digital-first insurance experience for Tesla buyers. This collaboration aims to simplify the car-purchasing process and cater to the specific needs of electric vehicle owners.

Types Covered:

+357 96 030922
info@marketpublishers.com

Monocrystalline Solar Shingles

Polycrystalline Solar Shingles

Thin-Film Solar Shingles

Capacities Covered:

Below 3kW

3kW–10kW

Above 10kW

Installations Covered:

New Installation

Retrofit Installation

Distribution Channels Covered:

Direct Sales

Retail Sales

Online Sales

End Users Covered:

Residential

Commercial

Industrial

+357 96 030922
info@marketpublishers.com

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea

+357 96 030922
info@marketpublishers.com

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

**Free Customization Offerings:**

+357 96 030922
info@marketpublishers.com

All the customers of this report will be entitled to receive one of the following free customization options:

- Company Profiling
  - Comprehensive profiling of additional market players (up to 3)
  - SWOT Analysis of key players (up to 3)
- Regional Segmentation
  - Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)
- Competitive Benchmarking
  - Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

+357 96 030922
info@marketpublishers.com

# Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com



## 11 KEY DEVELOPMENTS



## 12 COMPANY PROFILING

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

# List Of Tables

## LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

## I would like to order

Product name: Solar Shingles Market Forecasts to 2032 – Global Analysis By Type (Monocrystalline Solar Shingles, Polycrystalline Solar Shingles and Thin-Film Solar Shingles), Capacity, Installation, Distribution Channel, End User and By Geography

Product link: https://marketpublishers.com/r/S37F66DB823FEN.html

Price: US$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/S37F66DB823FEN.html