

# Global Residential Solar Power Generation Systems Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Residential Solar Power Generation Systems market size is expected to reach \$ 44217 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

The residential solar power generation system is a distributed clean energy solution designed for household buildings. Its core purpose is to turn rooftops or other usable residential spaces into sustainable power-generating assets and, through inverters, storage, monitoring, load management, and when needed grid connection or backup capability, help households reduce electricity purchases, improve self-consumption, strengthen outage resilience, and gradually build an integrated home energy management setup. Based on current official product pages from major vendors, this category is no longer limited to a simple combination of rooftop modules and a grid-tied inverter. It is increasingly evolving toward integrated offerings that combine PV modules, string inverters or microinverters, power optimizers, residential batteries, home energy management platforms, EV charging interfaces, and backup switching modules. Its key technology paradigms center on high-efficiency generation, safe battery management, module-level optimization, intelligent dispatch, remote monitoring, and multi-energy coordination. Typical applications cover detached houses, townhouses, new green homes, and households in high-electricity-price regions, while also expanding into homes with heat pumps, electric vehicles, and whole-home backup requirements. Major customers include homeowners, households upgrading their energy systems, residential developers, and installation channel partners. Common delivery models include full hardware sales, turnkey installation projects, financing or leasing, subscription-based services, and integrated solar-plus-storage-plus-charging solutions. Overall, residential solar power generation systems are shifting from a single-purpose bill-saving product to core home energy infrastructure.

The long-term logic of the residential solar power generation system industry is not simply about growth in single-device shipments, but about the continued system-level upgrade of household energy. Official product pages from major vendors already make it clear that this space is evolving from traditional rooftop solar equipment sales into integrated solutions covering power generation, storage, backup, charging, and home energy management. Companies such as Huawei, Sungrow, GoodWe, and Sunrun all position system coordination as a core selling point, which indicates that competition is shifting from isolated hardware efficiency toward total system yield, household energy autonomy, and lifecycle experience. This means future value creation will come not only from new installations, but also from the layering of storage, EV charging interfaces, EMS platforms, value-added operations and maintenance, and later expansion services. For households, residential solar systems are increasingly taking on infrastructure-like characteristics. They are not only tools for reducing electricity bills, but also entry points for improving outage resilience, matching electrified lifestyles, and participating in the broader low-carbon transition. As long as pressure from electricity prices, extreme weather risks, and residential electrification continues, the demand foundation for this industry should remain resilient.

From a regional perspective, residential solar power generation systems show a highly recognizable pattern in which manufacturing and system supply are concentrated in Asia, while end-market demand is distributed across multiple regions. Mainland Chinese companies have built strong competitiveness in inverters, storage, power electronics, and system integration. Japanese companies retain strong advantages in residential localization, long-term service systems, and home electrification compatibility. Korean players maintain global visibility through modules and home energy solutions, while U.S. companies are especially effective at driving household adoption through channel strength, financing, leasing, and subscription models. At the same time, policy remains an important source of support. The IEA expects distributed rooftop solar to continue accelerating under higher retail power prices and stronger policy support, while the EU's rooftop solar requirements for new residential buildings and Australia's incentives for household batteries both reinforce the economics and replicability of solar-plus-storage for homes. Although the U.S. residential segment faced short-term pressure in 2025, SEIA's base-case forecast still points to continued growth over the next several years, suggesting that the industry is not entering decline, but rather moving into a phase that emphasizes quality and system value.

Looking ahead, the most attractive growth direction for residential solar power generation systems is the shift from standalone generation equipment to a whole-home

clean energy operating system. Functions repeatedly emphasized on official vendor pages include module-level optimization, time-of-use arbitrage, storage dispatch, automatic switchover during outages, remote visibility, and coordination with EV charging. In essence, all of these capabilities improve a household's active control over energy. As residential electrification continues to deepen, the coupling among heat pumps, home batteries, electric vehicles, and smart home systems will become stronger, and residential solar systems will move from being energy-saving devices to becoming the central hub of home energy. Future industry upside will come not only from new rooftops, but also from battery retrofits on existing systems, upgrades of installed storage, software subscriptions, monitoring and O&M, and broader backup power use cases. For research and investment, this means the category should be understood as a composite track of distributed energy infrastructure plus home energy management platforms, rather than through the traditional lens of standalone modules or inverters. As long as policy continues to support distributed clean energy and households keep seeking lower bills, greater safety, and stronger energy independence, the industry outlook should retain a constructive long-term bias.

This report studies the global Residential Solar Power Generation Systems demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Residential Solar Power Generation Systems, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Residential Solar Power Generation Systems that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Residential Solar Power Generation Systems total market, 2021-2032, (USD Million)

Global Residential Solar Power Generation Systems total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Residential Solar Power Generation Systems total market, key domestic companies, and share, (USD Million)

Global Residential Solar Power Generation Systems revenue by player, revenue and

market share 2021-2026, (USD Million)

Global Residential Solar Power Generation Systems total market by Type, CAGR, 2021-2032, (USD Million)

Global Residential Solar Power Generation Systems total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Residential Solar Power Generation Systems market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sunrun, NRG Residential Solar, SunPower, Trinity Solar, Tesla, Inc., Enphase Energy, Inc., SolarEdge Technologies, Inc., SMA Solar Technology AG, Fronius International GmbH, FIMER S.p.A., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Residential Solar Power Generation Systems market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Residential Solar Power Generation Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Residential Solar Power Generation Systems Market, Segmentation by Type:

Centralized PV Power Plant

Decentralized PV Power Plant

Global Residential Solar Power Generation Systems Market, Segmentation by Commercial Delivery Model:

Equipment Sales

Subscription or Leasing

Others

Global Residential Solar Power Generation Systems Market, Segmentation by Installation Carrier:

Pitched Roof

Flat Roof

Building-Integrated Extension

Others

Global Residential Solar Power Generation Systems Market, Segmentation by Application:

Countryside

City

Companies Profiled:

Sunrun

NRG Residential Solar

SunPower

Trinity Solar

Tesla, Inc.

Enphase Energy, Inc.

SolarEdge Technologies, Inc.

SMA Solar Technology AG

Fronius International GmbH

FIMER S.p.A.

Sharp Corporation

Panasonic Corporation

Kyocera Corporation

Choshu Industry Co., Ltd.

XSOL Co., Ltd.

Leapton Energy Co., Ltd.

Hanwha Solutions Qcells Division

HD Hyundai Energy Solutions Co., Ltd.

Huawei Digital Power Technologies Co., Ltd.

GoodWe Technologies Co., Ltd.

Sungrow Power Supply Co., Ltd.

Shenzhen Growatt New Energy Co., Ltd.

Ginlong Technologies Co., Ltd.

Guangzhou Sanjing Electric Co., Ltd.

Shenzhen Kstar Science & Technology Co., Ltd.

Hoymiles Power Electronics Inc.

FOXESS CO., LTD.

Delta Electronics, Inc.

AUO Corporation

### Key Questions Answered

1. How big is the global Residential Solar Power Generation Systems market?
2. What is the demand of the global Residential Solar Power Generation Systems market?
3. What is the year over year growth of the global Residential Solar Power Generation Systems market?
4. What is the total value of the global Residential Solar Power Generation Systems market?
5. Who are the Major Players in the global Residential Solar Power Generation Systems market?
6. What are the growth factors driving the market demand?

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