

Residential Solar PV Systems Market Size, Share, and Analysis, By Connectivity (On-Grid and Off-Grid), By Mounting (Ground Mounted and Roof-Top), By Construction (Retrofit and New-Construction), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

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Abstracts

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PRODUCT OVERVIEW

Residential Solar PV Systems Market is anticipated to exhibit a Compound Annual Growth Rate (CAGR) of 5.8% during the forecast span from 2024 to 2034. In 2023, the market size was assessed at USD 39.4 billion and is projected to reach USD 73.8 billion by the completion of 2034.

Residential solar PV systems are solar panel setups specifically intended for residential properties to produce sustainable electricity using the energy from the sun. These systems include rooftop-mounted solar panels that convert solar energy into direct current (DC) electricity. The DC power is converted into AC power for household use by an inverter. In addition, important elements include solar panels, inverters, installation gear, and occasionally batteries for storing energy. These systems can either be connected to the grid to send extra power back, or used independently in isolated areas. In addition, residential solar PV systems provide several benefits such as lower

utility bills, less environmental impact, and the possibility of achieving energy self-sufficiency. They might also raise the value of a property and could be eligible for government incentives.

MARKET HIGHLIGHTS

Residential Solar PV Systems Market is projected to reach USD 73.8 billion over the forecast period, due to higher environmental consciousness, rising electricity prices, and several innovations in technology. The growth of the residential solar PV market is driven by some important trends such as declining costs of solar panels, multiple government incentives, and its integration with smart home technologies. The sector is facing high competition, which has resulted in better customer service and financing choices, such as solar lease and power purchase agreements. Besides, some markets do face hurdles such as grid integration issues and regulatory uncertainties, but the future potential is optimistic due to the increasing need for energy independence and rising interest in sustainable lifestyles. Despite these limitations, the market is expected to grow as home solar power becomes highly popular in the near future.

Residential Solar PV Systems Market Segments:

By Connectivity

On-Grid

Off-Grid

By Mounting

Ground Mounted

Roof-Top

By Construction

Retrofit

New-Construction

MARKET DYNAMICS

Growth Drivers

Government Incentives and Policies to Drive Growth in the Residential Solar PV Systems Market

Declining Costs of Solar Panels Act as a Catalyst for Market Growth

Restraint

High Initial Installation Costs in Residential Solar PV Systems Will Impact the Growth

Key Players

SunPower Corporation

Vivint Solar, Inc.

Sunrun Inc.

Tesla, Inc. (SolarCity)

Canadian Solar Inc.

JinkoSolar Holding Co., Ltd.

Trina Solar Limited

First Solar, Inc.

Enphase Energy, Inc.

LG Electronics, Inc.

Hanwha Q CELLS Co., Ltd.

ReneSola Ltd.

SolarEdge Technologies, Inc.

Yingli Green Energy Holding Company Limited

JA Solar Technology Co., Ltd.

Other Prominent Players (Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis)

Global Laboratory Temperature Control Units Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Reasons to Purchase this Report

Qualitative and quantitative analysis of the market based on segmentation involving both economic as well as non-economic factors

Provision of market value (USD Billion) 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 with respect to 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 of 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

3-month post-sales analyst support.

Contents

1.EXECUTIVE SUMMARY

- 1.1. Regional Market Share
- 1.2.Business Trends
- 1.3. Residential Solar PV Systems Market: COVID-19 Outbreak
- 1.4. Regional Trends
- 1.5. Segmentation Snapshot

2. RESEARCH METHODOLOGY

- 2.1.Research Objective
- 2.2. Research Approach
- 2.3. Data Sourcing and Methodology
- 2.4.Primary Research
- 2.5.Secondary Research
 - 2.5.1.Paid Sources
 - 2.5.2. Public Sources
- 2.6. Market Size Estimation and Data Triangulation

3. MARKET CHARACTERISTICS

- 3.1.Market Definition
- 3.2.Residential Solar PV Systems Market: COVID-19 Impact
- 3.3. Key Segmentations
- 3.4.Key Developments
- 3.5.Allied Industry Data

4.RESIDENTIAL SOLAR PV SYSTEMS MARKET – INDUSTRY INSIGHTS

- 4.1. Industry Segmentation
- 4.2.COVID-19 overview of world economy
- 4.3.Industry Ecosystem Channel Analysis
- 4.4.Innovation & Sustainability

5. MACROECONOMIC INDICATORS

6. RECENT DEVELOPMENTS

7. MARKET DYNAMICS

- 7.1.Introduction
- 7.2. Growth Drivers
- 7.3. Market Opportunities
- 7.4.Market Restraints
- 7.5. Market Trends

8.RISK ANALYSIS

9. MARKET ANALYSIS

- 9.1.Porter's Five Forces
- 9.2. PEST Analysis
 - 9.2.1.Political
 - 9.2.2. Economic
 - 9.2.3. Social
 - 9.2.4. Technological

10.RESIDENTIAL SOLAR PV SYSTEMS MARKET

- 10.1.Overview
- 10.2. Historical Analysis (2019-2022)
 - 10.2.1. Market Size, Y-o-Y Growth (%) and Market Forecast

11. RESIDENTIAL SOLAR PV SYSTEMS MARKET SIZE & FORECAST 2024A-2034F

- 11.1. Overview
- 11.2.Key Findings
- 11.3.Market Segmentation
 - 11.3.1. By Connectivity
 - 11.3.1.1. On-Grid
 - 11.3.1.1.1.By Value (USD Million) 2024-2034F
 - 11.3.1.1.2. Market Share (%) 2024-2034F
 - 11.3.1.1.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.1.2.Off-Grid
 - 11.3.1.2.1. By Value (USD Million) 2024-2034F

- 11.3.1.2.2. Market Share (%) 2024-2034F
- 11.3.1.2.3. Y-o-Y Growth (%) 2024-2034F
- 11.3.2. By Mounting
 - 11.3.2.1. Ground Mounted
 - 11.3.2.1.1. By Value (USD Million) 2024-2034F
 - 11.3.2.1.2. Market Share (%) 2024-2034F
 - 11.3.2.1.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.2.2. Roof-Top
 - 11.3.2.2.1. By Value (USD Million) 2024-2034F
 - 11.3.2.2.2. Market Share (%) 2024-2034F
 - 11.3.2.2.3. Y-o-Y Growth (%) 2024-2034F
- 11.3.3. By Construction
 - 11.3.3.1. Retrofit
 - 11.3.3.1.1. By Value (USD Million) 2024-2034F
 - 11.3.3.1.2. Market Share (%) 2024-2034F
 - 11.3.3.1.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.3.2. New-Construction
 - 11.3.3.2.1. By Value (USD Million) 2024-2034F
 - 11.3.3.2.2. Market Share (%) 2024-2034F
 - 11.3.3.2.3. Y-o-Y Growth (%) 2024-2034F

12. NORTH AMERICA RESIDENTIAL SOLAR PV SYSTEMS MARKET SIZE & FORECAST 2024A-2034F

- 12.1. Overview
- 12.2. Key Findings
- 12.3. Market Segmentation
 - 12.3.1. By Connectivity
 - 12.3.2. By Mounting
 - 12.3.3. By Construction
- 12.4. Country
 - 12.4.1. United States
 - 12.4.2. Canada

13. EUROPE RESIDENTIAL SOLAR PV SYSTEMS MARKET SIZE & FORECAST 2024A-2034F

- 13.1. Overview
- 13.2. Key Findings

13.3. Market Segmentation

13.3.1. By Connectivity

13.3.2. By Mounting

13.3.3. By Construction

13.4. Country

13.4.1. Germany

13.4.2. United Kingdom

13.4.3. France

13.4.4. Italy

13.4.5. Spain

13.4.6. Russia

13.4.7. Rest of Europe (BENELUX, NORDIC, Hungary, Turkey & Poland)

14.ASIA-PACIFIC RESIDENTIAL SOLAR PV SYSTEMS MARKET SIZE & FORECAST 2024A-2034F

14.1. Overview

14.2. Key Findings

14.3. Market Segmentation

14.3.1. By Connectivity

14.3.2. By Mounting

14.3.3. By Construction

14.4. Country

14.4.1. India

14.4.2. China

14.4.3. South Korea

14.4.4. Japan

14.4.5. Rest of APAC

15.MIDDLE EAST AND AFRICA RESIDENTIAL SOLAR PV SYSTEMS MARKET SIZE & FORECAST 2024A-2034F

15.1. Overview

15.2. Key Findings

15.3. Market Segmentation

15.3.1. By Connectivity

15.3.2. By Mounting

15.3.3. By Construction

15.4. Country

- 15.4.1. Israel
- 15.4.2. GCC
- 15.4.3. North Africa
- 15.4.4. South Africa
- 15.4.5. Rest of Middle East and Africa

16. LATIN AMERICA RESIDENTIAL SOLAR PV SYSTEMS MARKET SIZE & FORECAST 2024A-2034F

- 16.1. Overview
- 16.2. Key Findings
- 16.3. Market Segmentation
 - 16.3.1. By Connectivity
 - 16.3.2. By Mounting
 - 16.3.3. By Construction
- 16.4. Country
 - 16.4.1. Mexico
 - 16.4.2. Brazil
 - 16.4.3. Rest of Latin America

17. COMPETITIVE LANDSCAPE

- 17.1. Company market share, 2023
- 17.2. Key player overview
- 17.3. Key stakeholders

18. COMPANY PROFILES

- 18.1. SunPower Corporation
 - 18.1.1. Company Overview
 - 18.1.2. Financial Overview
 - 18.1.3. Key Product; Analysis
 - 18.1.4. Company Assessment
 - 18.1.4.1. Product Portfolio
 - 18.1.4.2. Key Clients
 - 18.1.4.3. Market Share
 - 18.1.4.4. Recent News & Development (Last 3 Yrs.)
 - 18.1.4.5. Executive Team
- 18.2. First Solar, Inc.

- 18.3.Vivint Solar, Inc.
- 18.4.Sunrun Inc.
- 18.5.Tesla, Inc. (SolarCity)
- 18.6.Canadian Solar Inc.
- 18.7.JinkoSolar Holding Co., Ltd.
- 18.8.Trina Solar Limited
- 18.9.Enphase Energy, Inc.
- 18.10.LG Electronics, Inc.
- 18.11. Hanwha Q CELLS Co., Ltd.
- 18.12.ReneSola Ltd.
- 18.13.SolarEdge Technologies, Inc.
- 18.14.Yingli Green Energy Holding Company Limited
- 18.15.JA Solar Technology Co., Ltd.
- 18.16.Other Prominent Players

19. APPENDIX

20.CONSULTANT RECOMMENDATION

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Product name: Residential Solar PV Systems Market Size, Share, and Analysis, By Connectivity (On-Grid and Off-Grid), By Mounting (Ground Mounted and Roof-Top), By Construction (Retrofit and New-Construction), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

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