

Solar Power Market Size, Share, and Analysis, By Technology (Photovoltaic Systems and Concentrated Solar Power Systems), By Application (Residential, Commercial, and Industrial), By Solar Module (Monocrystalline, Polycrystalline, Cadmium Telluride, Amorphous Silicon Cells, and Others), By End-Use (Electricity Generation, Lighting, Heating, and Charging), and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

https://marketpublishers.com/r/S217ABCAD4B0EN.html

Date: June 2024

Pages: 439

Price: US\$ 5,150.00 (Single User License)

ID: S217ABCAD4B0EN

Abstracts

Solar Power Market Size, Share, and Analysis, By Technology (Photovoltaic Systems and Concentrated Solar Power Systems), By Application (Residential, Commercial, and Industrial), By Solar Module (Monocrystalline, Polycrystalline, Cadmium Telluride, Amorphous Silicon Cells, and Others), By End-Use (Electricity Generation, Lighting, Heating, and Charging), and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

PRODUCT OVERVIEW

Solar Power Market is anticipated t%li%exhibit a Compound Annual Growth Rate (CAGR) of 11.6% during the forecast span from 2024 t%li%2034. In 2023, the market size was assessed at USD 185.5 billion and is projected t%li%reach USD 620.7 billion by the completion of 2034.



Solar energy is a sustainable and renewable source of electricity that is produced by collecting solar radiation energy. This method involves transforming sunlight int%li%useful energy using photovoltaic cells or concentrated solar power systems. Photovoltaic cells are typically integrated int%li%solar panels and directly convert sunlight int%li%electricity using semiconductor materials. Alternatively, concentrated solar power systems use mirrors or lenses t%li%focus sunlight ont%li%a small area, which generate heat that powers a steam turbine connected t%li%a generator. Solar power presents numerous benefits, including environmental friendliness due t%li%its minimal greenhouse gas emissions and contribution t%li%reducing climate change. Additionally, as an abundant and inexhaustible resource, sunlight offers long-term energy security and independence from finite fossil fuels. Therefore, despite initial setup costs, technological improvements have made solar power increasingly affordable and accessible, which paves the way for a clean and sustainable energy ecosystem.

MARKET HIGHLIGHTS

Solar Power Market is projected t%li%reach USD 620.7 billion over the forecast period, due t%li%various aspects such as environmental awareness, improvements in technology, and supportive policies by the government. The falling prices for solar technology, combined with government incentives, are responsible for the steady growth of solar power market. Moreover, the urgent need t%li%address climate change and reduce carbon emissions is encouraging residential and commercial users t%li%adopt solar solutions. Developing areas, such as utility-scale solar projects and modern energy storage devices, are gaining popularity among users. Simultaneously, well established markets are witnessing significant investments in solar infrastructure upgrades and research projects. Therefore, these factors collectively highlight the crucial role of solar power in creating a sustainable energy future for the entire world.

Solar Power Market Segments:

By Robot Type

Photovoltaic Systems

Concentrated Solar Power Systems

By Application



Residential

- Noordonida		
Commercial		
Industrial		
By Solar Module		
Monocrystalline		
Polycrystalline		
Cadmium Telluride		
Amorphous Silicon Cells		
Others		
By End-Use		
Electricity Generation		
Lighting		
Heating		
Charging		
MARKET DYNAMICS		
Growth Drivers		
Technological Developments will Generate Growth Opportunities		
Government Policies and Incentives will Drive Market Expansion		
Restraint		



Key

Intermittency and Variability Concerns Could Limit the Industry's Growth

ΡI	ayers
	First Solar
	SunPower Corporation
	Canadian Solar Inc.
	JinkoSolar Holding Co., Ltd.
	Trina Solar
	LONGi Solar
	JA Solar Holdings Co., Ltd.
	Hanwha Q Cells Co., Ltd.
	Yingli Solar
	SolarEdge Technologies, Inc.
	Enphase Energy, Inc.
	REC Group
	Vivint Solar
	Sunrun Inc.
	Tesla, Inc.
	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, CAG.R – 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 t%li%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 t%li%witness the fastest growth as well as t%li%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 t%li%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 int%li%the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years t%li%come

3-month post-sales analyst support.



Contents

1. EXECUTIVE SUMMARY

- 1.1.Regional Market Share
- 1.2. Business Trends
- 1.3. Solar Power 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. Solar Power Market: COVID-19 Impact
- 3.3.Key Segmentations
- 3.4. Key Developments
- 3.5. Allied Industry Data

4. SOLAR POWER MARKET - INDUSTRY INSIGHTS

- 4.1.Industry Segmentation
- 4.2. COVID-19 overview on 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. Porters Five Forces
- 9.2.PEST Analysis
 - 9.2.1. Political
 - 9.2.2.Economic
 - 9.2.3.Social
 - 9.2.4.Technological

10. SOLAR POWER MARKET

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

11.SOLAR POWER MARKET SIZE & FORECAST 2024A-2034F

- 11.1.Overview
- 11.2. Key Findings
- 11.3. Market Segmentation
 - 11.3.1.By Robot Type
 - 11.3.1.1. Photovoltaic Systems
 - 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.Concentrated Solar Power Systems
 - 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 Application

11.3.2.1.Residential

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. Commercial

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

11.3.2.3. Industrial

11.3.2.3.1. By Value (USD Million) 2024-2034F

11.3.2.3.2.Market Share (%) 2024-2034F

11.3.2.3.3.Y-o-Y Growth (%) 2024-2034F

11.3.3. By Solar Module

11.3.3.1.Monocrystalline

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. Polycrystalline

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

11.3.3.3. Cadmium Telluride

11.3.3.3.1. By Value (USD Million) 2024-2034F

11.3.3.3.2.Market Share (%) 2024-2034F

11.3.3.3.3.Y-o-Y Growth (%) 2024-2034F

11.3.3.4. Amorphous Silicon

11.3.3.4.1. By Value (USD Million) 2024-2034F

11.3.3.4.2. Market Share (%) 2024-2034F

11.3.3.4.3. Y-o-Y Growth (%) 2024-2034F

11.3.3.5. Others

11.3.3.5.1. By Value (USD Million) 2024-2034F

11.3.3.5.2.Market Share (%) 2024-2034F

11.3.3.5.3.Y-o-Y Growth (%) 2024-2034F

11.3.4. By End-Use

11.3.4.1.Electricity Generation

11.3.4.1.1.By Value (USD Million) 2024-2034F

11.3.4.1.2. Market Share (%) 2024-2034F



11.3.4.1.3. Y-o-Y Growth (%) 2024-2034F

11.3.4.2. Lighting

11.3.4.2.1. By Value (USD Million) 2024-2034F

11.3.4.2.2.Market Share (%) 2024-2034F

11.3.4.2.3. Y-o-Y Growth (%) 2024-2034F

11.3.4.3. Heating

11.3.4.3.1. By Value (USD Million) 2024-2034F

11.3.4.3.2. Market Share (%) 2024-2034F

11.3.4.3.3. Y-o-Y Growth (%) 2024-2034F

11.3.4.4. Charging

11.3.4.4.1.By Value (USD Million) 2024-2034F

11.3.4.4.2. Market Share (%) 2024-2034F

11.3.4.4.3. Y-o-Y Growth (%) 2024-2034F

12. NORTH AMERICA SOLAR POWER MARKET SIZE & FORECAST 2024A-2034F

12.1. Overview

12.2. Key Findings

12.3. Market Segmentation

12.3.1. By Robot Type

12.3.2.By Application

12.3.3.By Solar Module

12.3.4.By End-Use

12.4. Country

12.4.1. United States

12.4.2.Canada

13. EUROPE SOLAR POWER MARKET SIZE & FORECAST 2024A-2034F

13.1. Overview

13.2. Key Findings

13.3. Market Segmentation

13.3.1. By Robot Type

13.3.2.By Application

13.3.3.By Solar Module

13.3.4.By End-Use

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 SOLAR POWER MARKET SIZE & FORECAST 2024A-2034F

- 14.1.Overview
- 14.2. Key Findings
- 14.3. Market Segmentation
 - 14.3.1. By Robot Type
 - 14.3.2.By Application
 - 14.3.3.By Solar Module
 - 14.3.4. By End-Use
- 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 SOLAR POWER MARKET SIZE & FORECAST 2024A-2034F

- 15.1.Overview
- 15.2. Key Findings
- 15.3. Market Segmentation
 - 15.3.1. By Robot Type
 - 15.3.2.By Application
 - 15.3.3.By Solar Module
 - 15.3.4.By End-Use
- 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 SOLAR POWER MARKET SIZE & FORECAST 2024A-2034F

- 16.1. Overview
- 16.2. Key Findings
- 16.3. Market Segmentation
 - 16.3.1. By Robot Type
 - 16.3.2.By Application
 - 16.3.3.By Solar Module
 - 16.3.4.By End-Use
- 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.First Solar
 - 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.SunPower Corporation
- 18.3. Canadian Solar Inc.
- 18.4. JinkoSolar Holding Co., Ltd.
- 18.5.Trina Solar
- 18.6.LONGi Solar
- 18.7.JA Solar Holdings Co., Ltd.
- 18.8. Hanwha Q Cells Co., Ltd.



- 18.9.Yingli Solar
- 18.10. Solar Edge Technologies, Inc.
- 18.11. Enphase Energy, Inc.
- 18.12. REC Group
- 18.13. Vivint Solar
- 18.14.Sunrun Inc.
- 18.15. Tesla, Inc.
- 18.16.Other Prominent Players

19. APPENDIX

20.CONSULTANT RECOMMENDATION



I would like to order

Product name: Solar Power Market Size, Share, and Analysis, By Technology (Photovoltaic Systems and

Concentrated Solar Power Systems), By Application (Residential, Commercial, and Industrial), By Solar Module (Monocrystalline, Polycrystalline, Cadmium Telluride, Amorphous Silicon Cells, and Others), By End-Use (Electricity Generation, Lighting, Heating, and Charging), and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

Product link: https://marketpublishers.com/r/S217ABCAD4B0EN.html

Price: US\$ 5,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/S217ABCAD4B0EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:		
Email:		
Company:		
Address:		
City:		
Zip code:		
Country:		
Tel:		
Fax:		
Your message:		
	**All fields are required	
	Custumer signature	

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms



& Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970