

U.S. Solar PV Market Analysis By Application (Residential, Non-residential, Utility) And Segment Forecasts To 2022

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Abstracts

U.S. solar PV market is expected to reach to reach 60 GW by 2022. Rising demand for PV panels in residential and commercial segments is projected to drive industry growth. Also, favorable regulatory framework coupled with incentives is anticipated to augment further the growth. Furthermore, the decline in module prices owing to federal subsidies and rise in the number of module installation is expected to drive growth over the forecast period. Falling raw material prices along with improved manufacturing processes for manufacturing solar cells is expected to bolster market growth.

Utility accounted for over 50% of the P.V. market installation in 2014. Also, the non-residential segment is also projected to witness substantial growth at a CAGR of over 14% during the forecast period. This increase can be attributed to federal subsidies and state incentives. Furthermore, rising awareness among people regarding environmental protection is projected to boost Solar PV industry over the forecast period.

The residential sector witnessed significant growth over the past few years owing to rising consumer awareness and subsidized module cost. Furthermore, the low maintenance cost of solar panel in comparison to other power generating units is expected to drive demand in a residential application. Moreover, Investment Tax Credit is further projected to augment growth till 2016.

California had the largest installed capacity of 7,815 MW in 2014 owing to the exposure to superior solar irradiance and rising number of installation in utility and residential sectors. In addition, tax subsidies provided by the state are expected to result further in high demand for Solar PV installations over the next few years. Furthermore, with the large-scale installation of Solar PV in California, there is a steep decline in equipment

cost which is projected to spur growth in the region.

North Carolina is expected to witness high growth over the forecast period owing to rise in some residential installations. Moreover, high power price in North Carolina as compared to other states such as Kentucky, Washington, and Louisiana is further expected to bolster growth in the region.

Some of the major market players in the industry are Auxin Solar, Itek Energy, Green Brilliance, First Solar, Lumos, SunPower, Advance Power, BORG Inc., Pionis Energy, Solar Cynergy, Solar World, Suniva, 1Soltech, Alps Technology and Zebra Energy.

First Solar implements cadmium telluride thin film technology which offers increased yield and high-performance efficiency as compared to monocrystalline and polycrystalline modules. Furthermore, the production costs of Cadmium Telluride are lower than other modules, making it favorable among solar PV installers.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Research Methodology
- 1.2. Research Scope & Assumptions
- 1.3. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. U.S. Solar PV market - Industry Summary And Key Buying Criteria

CHAPTER 3. U.S. SOLAR PV INDUSTRY OUTLOOK

- 3.1. U.S. solar PV market segmentation
- 3.2. U.S. solar PV market size and growth prospects, 2012 - 2022
- 3.3. U.S. solar PV market - Value chain analysis
 - 3.3.1. Vendor landscape
- 3.4. Raw material outlook
- 3.5. Technology overview
- 3.6. Regulatory framework
- 3.7. U.S. solar PV market dynamics
 - 3.7.1. Market driver analysis
 - 3.7.1.1. Declining equipment costs
 - 3.7.1.2. Technological advancements and innovation
 - 3.7.1.3. Favorable regulations and policies
 - 3.7.2. Market restraint analysis
 - 3.7.2.1. Alternate energy sources
 - 3.7.2.2. Higher per MW installation cost
- 3.8. Key market opportunities - Prioritized
- 3.9. Key company market share, 2014
 - 3.9.1. Market strategy overview
- 3.10. Industry analysis - Porter's
- 3.11. U.S. solar PV market PESTEL analysis, 2014

CHAPTER 4. U.S. SOLAR PV APPLICATION OUTLOOK

- 4.1. U.S. solar PV market share by application, 2014 & 2022
- 4.2. Residential

- 4.2.1. U.S. solar PV market estimates and forecast for residential, 2012 - 2022
- 4.3. Non-residential
 - 4.3.1. U.S. solar PV market estimates and forecast for non-residential, 2012 - 2022
- 4.4. Utility
 - 4.4.1. U.S. solar PV market estimates and forecast for utility, 2012 - 2022

CHAPTER 5. U.S. SOLAR PV STATE OUTLOOK

- 5.1. U.S. solar PV market share by state, 2014 & 2022
- 5.2. California
 - 5.2.1. California solar PV market estimates and forecast, 2012 - 2022
 - 5.2.2. California solar PV market estimates and forecast by applications, 2012 - 2022
- 5.3. Arizona
 - 5.3.1. Arizona solar PV market estimates and forecast, 2012 - 2022
 - 5.3.2. Arizona solar PV market estimates and forecast by applications, 2012 - 2022
- 5.4. New Jersey
 - 5.4.1. New Jersey solar PV market estimates and forecast, 2012 - 2022
 - 5.4.2. New Jersey solar PV market estimates and forecast by applications, 2012 - 2022
- 5.5. North Carolina
 - 5.5.1. North Carolina solar PV market estimates and forecast, 2012 - 2022
 - 5.5.2. North Carolina solar PV market estimates and forecast by applications, 2012 - 2022
- 5.6. Nevada
 - 5.6.1. Nevada solar PV market estimates and forecast, 2012 - 2022
 - 5.6.2. Nevada solar PV market estimates and forecast by applications, 2012 - 2022
- 5.7. Massachusetts
 - 5.7.1. Massachusetts solar PV market estimates and forecast, 2012 - 2022
 - 5.7.2. Massachusetts solar PV market estimates and forecast by applications, 2012 - 2022
- 5.8. Hawaii
 - 5.8.1. Hawaii solar PV market estimates and forecast, 2012 - 2022
 - 5.8.2. Hawaii solar PV market estimates and forecast by applications, 2012 - 2022
- 5.9. Colorado
 - 5.9.1. Colorado solar PV market estimates and forecast, 2012 - 2022
 - 5.9.2. Colorado solar PV market estimates and forecast by applications, 2012 - 2022
- 5.10. New York
 - 5.10.1. New York solar PV market estimates and forecast, 2012 - 2022
 - 5.10.2. New York solar PV market estimates and forecast by applications, 2012 - 2022

5.11. Texas

5.11.1. Texas solar PV market estimates and forecast, 2012 - 2022

5.11.2. Texas solar PV market estimates and forecast by applications, 2012 - 2022

CHAPTER 6. COMPETITIVE LANDSCAPE

6.1. First Solar

6.1.1 Company Overview

6.1.2 Financial Performance

6.1.3 Product Benchmarking

6.1.4 Strategic Initiatives

6.2. SunPower

6.2.1 Company Overview

6.2.2 Financial Performance

6.2.3 Product Benchmarking

6.2.4 Strategic Initiatives

6.3. Suniva

6.3.1 Company Overview

6.3.2 Financial Performance

6.3.3 Product Benchmarking

6.3.4 Strategic Initiatives

6.4. 1Soltech

6.4.1 Company Overview

6.4.2 Financial Performance

6.4.3 Product Benchmarking

6.4.4 Strategic Initiatives

6.5. Sharp

6.5.1 Company Overview

6.5.2 Financial Performance

6.5.3 Product Benchmarking

6.5.4 Strategic Initiatives

6.6. Alps Technology

6.6.1 Company Overview

6.6.2 Financial Performance

6.6.3 Product Benchmarking

6.6.4 Strategic Initiatives

6.7. Advance Power

6.7.1 Company Overview

6.7.2 Financial Performance

- 6.7.3 Product Benchmarking
- 6.7.4 Strategic Initiatives
- 6.8. Auxin Solar
 - 6.8.1 Company Overview
 - 6.8.2 Financial Performance
 - 6.8.3 Product Benchmarking
 - 6.8.4 Strategic Initiatives
- 6.9. BORG Inc.
 - 6.9.1 Company Overview
 - 6.9.2 Financial Performance
 - 6.9.3 Product Benchmarking
 - 6.9.4 Strategic Initiatives
- 6.10. Pionis Energy
 - 6.10.1 Company Overview
 - 6.10.2 Financial Performance
 - 6.10.3 Product Benchmarking
 - 6.10.4 Strategic Initiatives
- 6.11. Solar Cynergy
 - 6.11.1 Company Overview
 - 6.11.2 Financial Performance
 - 6.11.3 Product Benchmarking
 - 6.11.4 Strategic Initiatives
- 6.12. Solar World
 - 6.12.1 Company Overview
 - 6.12.2 Financial Performance
 - 6.12.3 Product Benchmarking
 - 6.12.4 Strategic Initiatives
- 6.13. Zebra Energy
 - 6.13.1 Company Overview
 - 6.13.2 Financial Performance
 - 6.13.3 Product Benchmarking
 - 6.13.4 Strategic Initiatives
- 6.14. Green Brilliance
 - 6.14.1 Company Overview
 - 6.14.2 Financial Performance
 - 6.14.3 Product Benchmarking
 - 6.14.4 Strategic Initiatives
- 6.15. Lumos
 - 6.15.1 Company Overview

- 6.15.2 Financial Performance
- 6.15.3 Product Benchmarking
- 6.15.4 Strategic Initiatives
- 6.16. Itek Energy
 - 6.16.1 Company Overview
 - 6.16.2 Financial Performance
 - 6.16.3 Product Benchmarking
 - 6.16.4 Strategic Initiatives

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