

Concentrated Photovoltaic Market By Concentration levels (High and Low), By Technology (Refractor and Reflectors), By Application (Utility-Scale, Commercial, and Others) & By Geography- Global Trends and Forecast to 2019

<https://marketpublishers.com/r/C636470A6F2EN.html>

Date: June 2014

Pages: 174

Price: US\$ 5,650.00 (Single User License)

ID: C636470A6F2EN

Abstracts

This report estimates the concentrated photovoltaic market in terms of value. The global concentrated photovoltaic market is segmented based on their concentration levels, which include high, medium, and low. The market is further segmented on the basis of regions such as Asia-Pacific, Europe, the Middle East & Africa, and Americas as well as on the basis of technologies such as refractors and reflectors. This has been further split into major countries for the respective geographies.

The global concentrated photovoltaic market is witnessing a strong growth due to the awareness of renewable energy resources in Asia-Pacific the Middle East and Africa, Europe, and Americas. The increase in the importance of renewable energy resources and high efficiency output, with low cost, in the concentrated photovoltaic market stream is one of the key drivers of this market.

We have used various secondary sources such as encyclopedias, directories, and databases to identify and collect information that was useful for the extensive commercial study of the global concentrated photovoltaic market. The primary sources, experts, manufacturing organizations, service providers, and end-users from the industry, have all been interviewed to obtain and verify critical information as well as to assess the future prospects of the concentrated photovoltaic market.

We have also profiled the leading players of this industry, along with their recent developments and other strategic industry activities. Some of these include: Amonix

(U.S.), Soitec (France), Isofoton (U.S.), Semprius (U.S.), Solar Junction (U.S.), SunPower Corporations (U.S.), Suncor (U.S.), SolarSystems (Australia), Zytech Solar (Spain), Magpower (Portugal), and Ravano Green Powers (Italy).

This report also touches upon various important aspects of the market. These include analysis of the value chain, cost-break up analysis, drivers, restraints, burning issues, winning imperatives, opportunities, Porter's Five Forces model, and the competitive landscape. In addition to this, 11 key players of this market have also been profiled.

Contents

1 INTRODUCTION

- 1.1 Objectives
- 1.2 Analyst Insights
- 1.3 Market Investment Analysis
- 1.4 Report Description
- 1.5 Market Definitions
- 1.6 Market Segmentation & Market Aspects Covered
- 1.7 Stakeholders
- 1.8 Research Methodology
 - 1.8.1 Approach
 - 1.8.2 Market Size Estimation
 - 1.8.3 Market Breakdown & Data Triangulation
 - 1.8.4 Key Data From Secondary Sources
 - 1.8.5 Key Secondary Sources Used
 - 1.8.6 Key Data From Primary Sources
 - 1.8.7 Assumptions Made For This Report

2 EXECUTIVE SUMMARY

3 MARKET OVERVIEW

- 3.1 Introduction
 - 3.1.1 History & Evolution
- 3.2 Market Definition
- 3.3 Market Segmentation
 - 3.3.1 On Basis of Technology
 - 3.3.1.1 Reflector
 - 3.3.1.1.1 Parabolic Mirror
 - 3.3.1.1.2 Reflector
 - 3.3.1.2 Refractor
 - 3.3.1.2.1 Fresnel Lens
 - 3.3.1.2.2 Luminescent Concentrators
 - 3.3.2 On Basis of Concentrated Level
 - 3.3.2.1 High Concentrated Photovoltaic
 - 3.3.2.2 Low Concentrated Photovoltaic
 - 3.3.3 On Basis of Application

- 3.3.3.1 Utility-Scale
- 3.3.3.2 Commercial
- 3.3.3.3 Others
- 3.3.4 On Basis of Geography
- 3.4 Market Dynamics
 - 3.4.1 Market Drivers
 - 3.4.1.1 Renewable Energy Resources
 - 3.4.1.2 Higher Efficiency With Low System Cost
 - 3.4.1.3 Less Land Requirement
 - 3.4.2 Market Restraints
 - 3.4.2.1 Limited Locations With High Direct Normal Irradiation
 - 3.4.2.2 Lack of Acceptance of Technology
 - 3.4.3 Market Opportunities
 - 3.4.3.1 Big Players Are Moving Into Cpv Markets
 - 3.4.3.2 Vast Project Pipeline
 - 3.4.4 Burning Issues
 - 3.4.4.1 Bankruptcy
 - 3.4.4.2 Lack of Bankability
 - 3.4.5 Winning Imperatives
 - 3.4.5.1 Technology Advancement
- 3.5 Value Chain Analysis
 - 3.5.1 Introduction
 - 3.5.1.1 Raw Material Resources
 - 3.5.1.2 Cpv Component Supplier
 - 3.5.1.3 Cpv Module Manufacturer
 - 3.5.1.4 Cpv Developer
 - 3.5.1.5 Cpv Plant
 - 3.5.1.6 End-Users
- 3.6 Porter's Five Forces Analysis
 - 3.6.1 Power of Suppliers
 - 3.6.2 Power of Buyers
 - 3.6.3 Threat of New Entrants
 - 3.6.4 Threat of Substitutes
 - 3.6.5 Degree of Competition

4 PREMIUM INSIGHTS

- 4.1 Introduction
- 4.2 Asia-Pacific Region Dominates The Market For Types

4.3 High Concentrated Photovoltaic Lead The Global Market, 2013-2019

4.4 Concentrated Photovoltaic Market: Regional Scenario, 2013

4.5 Market Estimation & Growth Analysis, 2013

4.6 Concentrated Photovoltaic Market Share, 2013 & 2019

5 CONCENTRATED PHOTOVOLTAIC- COST ANALYSIS

5.1 Concentrated Photovoltaic – Cost Breakdown of High Concentrated Photovoltaic Components

5.2 Cost Breakdown of High Concentrated Photovoltaic Components

6 CONCENTRATED PHOTOVOLTAIC MARKET, BY TECHNOLOGY

6.1 Introduction

6.2 Global Concentrated Market, By Technology

6.3 Americas

6.4 Europe

6.5 Middle East & Africa

6.6 Asia-Pacific

7 CONCENTRATED PHOTOVOLTAIC MARKET, BY CONCENTRATION LEVEL

7.1 Introduction

7.2 Global Concentrated Market, By Concentration Level

7.2.1 Americas Market, By Concentration Level

7.2.2 Europe Market Size, By Concentration Level

7.2.3 Middle East & Africa Market Size, By Concentration Level

7.2.4 Asia-Pacific Market Size, By Concentration Level

8 CONCENTRATED PHOTOVOLTAIC MARKET, BY APPLICATION

8.1 Introduction

8.2 Global Concentrated Market, By Application

8.2.1 Utility-Scale

8.2.2 Commercial Application

8.2.3 Others

9 CONCENTRATED PHOTOVOLTAIC MARKET, BY GEOGRAPHY

- 9.1 Introduction
- 9.2 Concentrated Market, By Geography
- 9.3 Asia-Pacific
 - 9.3.1 Industry Trend
 - 9.3.2 Supporting Measures
 - 9.3.2.1 Golden Sun Program
 - 9.3.2.2 The Bipv Subsidiary Program
 - 9.3.2.3 The Solar City Program
 - 9.3.2.4 The Solar Homes and Communities Plan
 - 9.3.2.5 Feed-In Tariffs in Taiwan
- 9.4 Europe
 - 9.4.1 Industry Trend
 - 9.4.2 Supporting Measures
 - 9.4.2.1 Feed-in Tariff For Solar Power
 - 9.4.2.2 Net Metering (Scambio Sul Posto)
 - 9.4.2.3 Grenelle Environmental Plan
 - 9.4.2.4 Feed-in Tariff For Solar Photovoltaic
- 9.5 Middle East & Africa
 - 9.5.1 Industry Trend
- 9.6 Americas
 - 9.6.1 Industry Trend
 - 9.6.2 Supporting Measures
 - 9.6.2.1 Sunshot Initiative
 - 9.6.2.2 Solar America Initiative

10 COMPETITIVE LANDSCAPE KEY FINDINGS

- 10.1 Introduction
- 10.2 Key Players of The Concentrated Photovoltaic Market
 - 10.2.1 List of Key Players
- 10.3 Contracts & Agreements Leads The Way
- 10.4 Market Share Analysis & Rankings
 - 10.4.1 Markets Share, By Annual Installed Capacity
- 10.5 Contracts & Agreements
- 10.6 Mergers & Acquisitions
- 10.7 Other Developments

11 COMPANY PROFILES

11.1 Amonix

- 11.1.1 Introduction
- 11.1.2 Products & Services
- 11.1.3 Strategy & Insights
- 11.1.4 Developments
- 11.1.5 SWOT Analysis
- 11.1.6 MNM View

11.2 Isofoton S.A.

- 11.2.1 Introduction
- 11.2.2 Products & Services
- 11.2.3 Developments

11.3 Magpower

- 11.3.1 Introduction
- 11.3.2 Products
- 11.3.3 Strategy & Insights
- 11.3.4 Developments

11.4 Ravano Green Powers

- 11.4.1 Introduction
- 11.4.2 Products & Services
- 11.4.3 Strategy & Insights
- 11.4.4 Developments

11.5 Semprius Inc.

- 11.5.1 Introduction
- 11.5.2 Product & Service
- 11.5.3 Developments
- 11.5.4 SWOT Analysis
- 11.5.5 MNM View

11.6 Soitec

- 11.6.1 Introduction
- 11.6.2 Products & Services
- 11.6.3 Strategy & Insights
- 11.6.4 Developments
- 11.6.5 SWOT Analysis
- 11.6.6 MNM View

11.7 Solar Junction

- 11.7.1 Introduction
- 11.7.2 Products & Services
- 11.7.3 Strategy & Insights
- 11.7.4 Developments

11.8 Solarsystem

- 11.8.1 Introduction
- 11.8.2 Products & Services
- 11.8.3 Strategy & Insights
- 11.8.4 Development
- 11.8.5 SWOT Analysis
- 11.8.6 MNM View

11.9 Suncore Photovoltaic Technology Co. Ltd.

- 11.9.1 Introduction
- 11.9.2 Products & Services
- 11.9.3 Strategy & Insights
- 11.9.4 Developments

11.10 Sunpower Corporation

- 11.10.1 Introduction
- 11.10.2 Products & Services
- 11.10.3 Strategy & Insights
- 11.10.4 Developments
- 11.10.5 SWOT Analysis
- 11.10.6 MNM View

11.11 Zytech Solar

- 11.11.1 Introduction
- 11.11.2 Products & Services
- 11.11.3 Strategy & Insights
- 11.11.4 Developments

List Of Tables

LIST OF TABLES

Table 1 Historic Investments

Table 2 Cost Breakdown of High Concentrated Photovoltaic Components, 2013 & 2019

Table 3 Cost Breakdown of Low Concentrated Photovoltaic Components

Table 4 Market Size, By Technology, 2012-2019 (\$Million)

Table 5 Market Size, By Technology, 2012-2019 (Mw)

Table 6 Americas: Market Size, By Technology, 2012-2019 (\$Million)

Table 7 Americas: Market Size, By Technology, 2012-2019 (Mw)

Table 8 Europe: Market Size, By Technology, 2012-2019 (\$Million)

Table 9 Europe: Market Size, By Technology, 2012-2019 (Mw)

Table 10 Middle East & Africa: Market Size, By Technology, 2012-2019 (\$Million)

Table 11 Middle East & Africa: Market Size, By Technology, 2012-2019 (Mw)

Table 12 Asia-Pacific: Market Size, By Technology, 2012-2019 (\$Million)

Table 13 Asia-Pacific: Market Size, By Technology, 2012-2019 (Mw)

Table 14 Market Size, By Concentration Level, 2012-2019 (\$Million)

Table 15 Concentrated Photovoltaic Market Size, By Concentration Level, 2012-2019 (Mw)

Table 16 Americas: Market Size, By Concentration Level, 2012-2019 (\$Million)

Table 17 Americas: Market, By Concentration Level, 2012-2019 (Mw)

Table 18 Europe: Market Size, By Concentration Level, 2012-2019 (\$Million)

Table 19 Europe: Market Size, By Concentration Level, 2012-2019 (Mw)

Table 20 Middle East & Africa: Market Size, By Concentration Level, 2012-2019 (\$Million)

Table 21 Middle East & Africa: Market Size, By Concentration Level, 2012-2019 (Mw)

Table 22 Asia-Pacific: Market, By Concentration Level, 2012-2019 (\$Million)

Table 23 Asia-Pacific: Market Size, By Concentration Level, 2012-2019 (Mw)

Table 24 Market Size, By Application, 2012-2019 (\$Million)

Table 25 Market Size, By Application, 2012-2019 (Mw)

Table 26 Utility-Scale Concentrated Photovoltaic Market Size, By Region, 2012-2019 (\$Million)

Table 27 Utility-Scale Market Size, By Region, 2012-2019 (Mw)

Table 28 Commercial Concentrated Photovoltaic Market Size, By Region, 2012-2019 (\$Million)

Table 29 Commercial Market Size, By Region, 2012-2019 (Mw)

Table 30 'Others' Concentrated Photovoltaic Market Size, By Region, 2012-2019 (\$Million)

Table 31 'Others' Market Size, By Region, 2012-2019 (Mw)
Table 32 Market Size, By Geography, 2012-2019 (\$Million)
Table 33 Market Size,By Geography, 2012-2019 (Mw)
Table 34 Asia-Pacific: Market Size, By Country, 2012-2019 (\$Million)
Table 35 Asia-Pacific: Market Size, By Country, 2012-2019 (Mw)
Table 36 Taiwan: Renewable Power Feed in Tariff, 2011
Table 37 Taiwan: Solar Photovoltaic Feed in Tariff, 2012 & 2013
Table 38 Europe: Market Size, By Country, 2012-2019 (\$Million)
Table 39 Europe:Market Size, By Country, 2012-2019 (Mw)
Table 40 Middle East & Africa: Market Size, By Country, 2012-2019 (\$Million)
Table 41 Middle East & Africa: Market Size, By Country, 2012-2019 (Mw)
Table 42 Americas: Market Size, By Country, 2012-2019 (\$Million)
Table 43 Americas: Market Size, By Country, 2012-2019 (Mw)
Table 44 Annual Contracts & Agreements
Table 45 Annual Mergers & Acquisitions
Table 46 Annual Other Development
Table 47 Amonix: Product & Services
Table 48 Isofoton S.A.: Product & Services
Table 49 Magpower: Products
Table 50 Ravano Green Powers: Product & Services
Table 51 Semprius Inc.: Product
Table 52 Semprius Inc.: Product & Services
Table 53 Solar Junction: Product & Services
Table 54 Solarsystem: Product & Services
Table 55 Suncore Photovoltaic Technology Co. Ltd.: Product & Services
Table 56 Sunpower Corporation: Products
Table 57 Zytech Solar: Product & Services

About

Market investment analysis

This section of the report presents a brief market investment analysis for any company/organization to invest in the concentrated market, analyzing the major pro-factors and barriers for investments in this industry.

Before going any further, a few recent investments over the last four years have been analyzed to gain historical investment trend insights. The table below shows that the industry has experienced huge investments incorporated by any leading industry player. It is expected that the investments will continue to increase in the coming years globally.

The main factor behind the rising number of investments is the market's growth rate. The concentrated photovoltaic market is experiencing a decent growth rate, and it is expected to have higher growth rate in the coming years, which makes this an attractive market for investors. The rise in the number of investments shows that the industry players are increasing their capacity and are looking to expand in various regions. The trend shows that huge agreements and strategic investments are performed by major players in the CPV market.

Approach

This research study involved the usage of extensive secondary sources: directories, including databases such as U.S. DOE, IEA, Energy News, SEIA, EPIA, Hoovers, Bloomberg, Business Week, Factiva, One-Source, and others to identify and collect information that would be useful for this extensive technical, market-oriented, and commercial study of the global concentrated photovoltaic market. The primary sources are mainly several industry experts from core and related industries and preferred suppliers, manufacturers, distributors, administrators, solution providers, technology developers, alliances, and standards and certification organizations from companies and organizations related to all the segments of this industry's value chain. All the primary sources were interviewed to obtain and verify critical qualitative and quantitative information as well as to assess future prospects.

History & Evolution

In 1839, French physicist Alexandre Edmond Becquerel discovered the photovoltaic

effect, a physical phenomenon allowing light to convert into electricity. While experimenting with metal electrodes and electrolyte, the physicist discovered that conductance rises with illumination. In 1963, Sharp Corporation developed the first photovoltaic module from silicon solar cells.

Concentrated photovoltaic systems, using a combination of trackers and concentrator systems (lenses and mirrors) to increase solar yield and electricity production were commercialized in 2008.

Concentrated photovoltaic, the latest product addition to the solar power sector, uses inexpensive material such as glass mirrors or plastic lenses to capture sunlight and focuses it on small photovoltaic cells. Concentrated photovoltaic are generally made using high efficiency multi-junction PV solar cells. They use less solar cell material and increase power output while reducing the number and size of solar cells. Currently, the highest efficiency offered by concentrated photovoltaic is ~ XX %, relatively higher than concentrated solar power which has conversion efficiency of ~ XX % and significantly higher than that of solar photovoltaic. Though the evolution of concentrated photovoltaic systems dates back to the 1970s, however, concentrated photovoltaic was launched commercially in the global market recently.

Asia-Pacific region dominates the market for types

In 2013, high concentration photovoltaic market was worth \$ XX million, which is expected to reach \$ XX million by 2019. The major countries to drive the concentrated photovoltaic market in this region are China, Taiwan, and Australia.

The concentrated photovoltaic market is emerging as a potential renewable energy. With the largest CPV plant and many other projects under the pipeline in Asia-Pacific, this region is expected to lead the market throughout the period under study. In 2013, Asia-Pacific dominated the global concentrated photovoltaic market with XX % of the total share. The largest concentrated photovoltaic installation in China in 2013 and upcoming projects drove the market growth in this region. The major countries for concentrated photovoltaic were China, Australia, and Taiwan. The Americas held XX % of the total market share for concentrated photovoltaic in 2013, followed by Europe with a market share of XX % in the same period. The Middle East and Africa held a share of XX % in the global concentrated photovoltaic market.

I would like to order

Product name: Concentrated Photovoltaic Market By Concentration levels (High and Low), By Technology (Refractor and Reflectors), By Application (Utility-Scale, Commercial, and Others) & By Geography- Global Trends and Forecast to 2019

Product link: <https://marketpublishers.com/r/C636470A6F2EN.html>

Price: US\$ 5,650.00 (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/C636470A6F2EN.html>

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

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer 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