

Global Renewable Energy Market Outlook (2010-2015).

https://marketpublishers.com/r/GE32269F871EN.html

Date: October 2010

Pages: 351

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

ID: GE32269F871EN

Abstracts

Renewable energy is sources of energy which are rapidly replaced by natural processes or which replenish faster when compared to fossil fuels such as coal and petroleum. The sources of renewable energy are solar, hydro, wind, geothermal and biofuel. The research is focused towards the segments which are commercially viable and used globally. The segments covered in the report are solar photovoltaic (solar PV), wind, hydropower (dam built), biofuels and geothermal.

The report covers the installed capacities and forecasts of the aforesaid sources of energy. The report also provides forecast for the revenues derived from the prime applications of these energies in electricity generation and as a transport fuel.

MARKETS COVERED

All the major types of renewable energy forms like solar, wind, geothermal, tidal, biofuels, and hydro energy have been covered in great detail. In-depth competitive landscape for each of the major and micro-markets has been given in the report. We have done an in-depth geographic analysis for each of the markets and their subsegments, covering the major regional markets, viz. U.S, Europe, Asia and Rest of the World.

STAKEHOLDERS

Solar cell manufacturers

Hydro-turbine and wind-turbine manufacturers

Energy conversion equipment manufacturers for tidal and geothermal energy



Research labs

Investment banks

Consumer electronics manufacturers

Automotive manufacturers

Biofuel manufacturers

Government associations

RESEARCH METHODOLOGY

The global renewable energy market is analyzed and forecasted for the period from 2010 to 2015. Market forecasts are based on primary and secondary research data. The market structure is designed on the basis of secondary research on the product portfolios of renewable energy companies. This structure is cross-validated through primaries conducted with industry players and KOL's (Key Opinion Leaders). Secondary research was based on paid sources such as Factiva and basic internet search for relevant news articles and websites of companies and associations.

What makes our reports unique?

We provide the longest market segmentation chain in this industry- not many reports provide market breakdown upto level 5.

We provide 10% customization. Normally it is seen that clients do not find specific market intelligence that they are looking for. Our customization will ensure that you necessarily get the market intelligence you are looking for and we get a loyal customer.

15 pages of high level analysis including benchmarking strategies, best practices and the market's cash cows (BCG matrix). We conduct detailed market positioning, product positioning and competitive positioning. Entry strategies, gaps and opportunities are identified for all the stakeholders.



Powerful Research and Analysis

MarketsandMarkets (M&M) is a global market research and consulting company based in the U.S. We publish strategically analyzed market research reports and serve as a business intelligence partner to Fortune 500 companies across the world. MarketsandMarkets also provides multi-client reports, company profiles, databases, and custom research services.

M&M covers thirteen industry verticals, including advanced materials, automotive and transportation, banking and financial services, biotechnology, chemicals, consumer goods energy and power, food and beverages, industrial automation, medical devices, pharmaceuticals, semiconductor and electronics, and telecommunications and IT. We at MarketsandMarkets are inspired to help our clients grow by providing apt business insight with our huge market intelligence repository.



Contents

EXECUTIVE SUMMARY

1 INTRODUCTION

- 1.1 Key Take-Aways
- 1.2 Report Description
- 1.3 Markets Covered
- 1.4 Stakeholders
- 1.5 Research Methodology

2 SUMMARY

3 MARKET OVERVIEW

- 3.1 Introduction
- 3.2 Burning Issues
 - 3.2.1 Environmental Concerns
 - 3.2.2 Co-Produced and Geopressured Resources
 - 3.2.3 Myths about Hydro Power
 - 3.2.4 Biofuels: Food V/S Fuel
- 3.3 Winning Imperatives
- 3.4 Policies and Regulation Analysis
 - 3.4.1 Policies Promoting Renewable Power Generation
 - 3.4.1.1 Investment support for research development and demonstration
 - 3.4.1.2 Feed-in-tariffs
 - 3.4.1.3 Bidding
 - 3.4.1.4 Quota
 - 3.4.1.5 Price reduction
 - 3.4.1.6 Green certificates
- 3.5 Market Share Analysis
 - 3.5.1 Solar PV
 - 3.5.2 Wind Energy
 - 3.5.3 Biofuels
- 3.6 Hydro Power
- 3.7 Patent Analysis

4 GLOBAL BIOFUELS MARKET



- 4.1 Introduction
- 4.2 Drivers
 - 4.2.1 Lower GHG Emissions
 - 4.2.2 Tax Incentives
 - 4.2.3 Extended Use of Bioethanol Blends
 - 4.2.4 Volatile Petroleum Prices
 - 4.2.5 Boost for Rural Economy
- 4.3 Restraints
 - 4.3.1 Insufficient Feedstock
 - 4.3.2 Trade-off with Vital Resources
- 4.4 Opportunities
 - 4.4.1 Emergence of New Feedstocks
 - 4.4.2 Aggressive Biodiesel Initiatives
- 4.5 Competitive Landscape

5 GLOBAL HYDROELECTRIC POWER MARKET

- 5.1 Introduction
- 5.2 Classifications of Hydroelectric Power Plant
 - 5.2.1 By Generation Capacity
 - 5.2.2 Classification by Available Head
 - 5.2.3 Pumped Storage Plant
- 5.3 Hydro Power Market Dynamics
 - 5.3.1 Drivers
 - 5.3.1.1 Abundance of water resources and hydro power
 - 5.3.1.2 Investments in hydro power
 - 5.3.1.3 Counting on carbon credits
 - 5.3.2 RESTRAINTS
 - 5.3.2.1 Environmental impact
 - 5.3.2.2 Political and social issues
- 5.3.3 Hydroelectric Power Plant Costs
- 5.4 Competitive Landscape

6 GEOTHERMAL ENERGY

- 6.1 Introduction
- 6.2 Geothermal Energy Resources
- 6.3 Geothermal Energy Market Dynamics



- 6.3.1 Drivers
 - 6.3.1.1 Environmental impact
 - 6.3.1.2 Fossil fuel prices
 - 6.3.1.3 Government support
- 6.3.2 Restraints
 - 6.3.2.1 Accessibility and feasibility
 - 6.3.2.2 Emissions
- 6.3.3 Opportunity
 - 6.3.3.1 Enhanced geothermal systems (EGS)
- 6.4 Geothermal Energy Applications
 - 6.4.1 Direct Use
 - 6.4.2 Geothermal Electricity Generation
- 6.5 Energy Conversion Systems
 - 6.5.1 Dry Steam
 - 6.5.2 Flash Steam
 - 6.5.3 Binary Cycle
- 6.6 Developments in ECS
 - 6.6.1 Hybrid (Combined) Cycle
 - 6.6.2 Dual Flash
 - 6.6.3 Organic Rankine Cycle
- 6.7 Global Share of ECS
- 6.8 Contribution of ECS in Global Installed Capacity
- 6.9 Geothermal Power Plant Costs
 - 6.9.1 Capital Cost
 - 6.9.2 Operating and Maintenance Cost
 - 6.9.3 Levelized Cost (Average Cost of Power Production)
- 6.1 Competitive Landscape

7 SOLAR PHOTOVOLTAIC

- 7.1 Introduction
- 7.2 Crystalline Silicon Pv Cells
- 7.3 Monocrystalline Silicon Pv Cells
 - 7.3.1 Drivers & Restraints
 - 7.3.1.1 Longevity & reliability
 - 7.3.1.2 Complex and costly manufacturing process
- 7.4 Amorphous Or Thin-Film
- 7.5 Solar Photovoltaic Applications
 - 7.5.1 Consumer Products



- 7.5.1.1 Reduction in energy expenditure
- 7.5.1.2 Long life of power unit
- 7.5.1.3 Limited duration of solar irradiation
- 7.5.2 Automotive Applications
- 7.5.3 Space Science
- 7.5.4 Grid Connected Power Supply
- 7.5.5 Residential Power Supply
 - 7.5.5.1 Reduced dependency on natural resources
 - 7.5.5.2 Quick turnaround time
 - 7.5.5.3 Government incentives
 - 7.5.5.4 High cost of installation
- 7.5.6 Solar PV Water Pumping
 - 7.5.6.1 Suifor remote locations
 - 7.5.6.2 Reliability
 - 7.5.6.3 Flexibility of system
 - 7.5.6.4 High capital investment
- 7.5.7 Others
 - 7.5.7.1 Electric fences
 - 7.5.7.2 Gate openers
 - 7.5.7.3 Telecommunications
 - 7.5.7.4 Water tank de-icers
- 7.5.7.5 Solar evaporative cooling units
- 7.6 Competitive Landscape

8 WIND ENERGY

- 8.1 Introduction
- 8.2 Cost Analysis
- 8.3 Types of Wind Energy Turbines
 - 8.3.1 Horizontal Axis Wind Turbines
 - 8.3.2 Vertical Axis Wind Turbines
- 8.4 Competitive Landscape

9 COMPANY PROFILES

- 9.1 ARCHER DANIELS MIDLAND COMPANY
 - 9.1.1 Overview
 - 9.1.2 Primary Business
 - 9.1.3 Strategy



9.1.4 Developments

9.2 AVENTINE RENEWABLE ENERGY HOLDINGS, INC.

- 9.2.1 Overview
- 9.2.2 Primary Business
- 9.2.3 Strategy
- 9.2.4 Developments
- 9.3 CALPINE CORP
 - 9.3.1 Overview
 - 9.3.2 Primary Business
 - 9.3.3 Strategy
 - 9.3.4 Developments

9.4 COSAN SA INDUSTRIA E COMERCIO

- 9.4.1 Overview
- 9.4.2 Primary Business
- 9.4.3 Strategy
- 9.4.4 Developments

9.5 ENEL (ENTE NAZIONALE PER L'ENERGIA ELETTRICA SPA)

- 9.5.1 Overview
- 9.5.2 Primary Business
- 9.5.3 Strategy
- 9.5.4 Developments
 - 9.5.4.1 Geothermal power sector
 - 9.5.4.2 Hydro power sector
 - 9.5.4.3 Solar power sector
 - 9.5.4.4 Wind energy sector

9.6 ENERCON GMBH

- 9.6.1 Overview
- 9.6.2 Primary Business
- 9.6.3 Strategy
- 9.6.4 Developments

9.7 FIRST SOLAR INC.

- 9.7.1 Overview
- 9.7.2 Primary Business
- 9.7.3 Strategy
- 9.7.4 Developments

9.8 GAMESA CORPORACION TECHNOLOGICA SA

- 9.8.1 Overview
- 9.8.2 Primary Business
- 9.8.3 Strategy



- 9.8.4 Developments
- 9.9 GE ENERGY
 - 9.9.1 Overview
 - 9.9.2 Primary Business
 - 9.9.3 Strategy
 - 9.9.4 Developments
- 9.10 HYDRO-QUEBEC
 - 9.10.1 Overview
 - 9.10.2 Primary Business
 - 9.10.3 Strategy
- 9.10.4 Developments
- 9.11 JA SOLAR HOLDINGS CO., LTD.
 - 9.11.1 Overview
 - 9.11.2 Primary Business
 - 9.11.3 Strategy
 - 9.11.4 Developments
- 9.12 JAIPRAKASH POWER VENTURES LTD
 - 9.12.1 Overview
 - 9.12.2 Primary Business
 - 9.12.3 Strategy
 - 9.12.4 Developments
- 9.13 KYOCERA SOLAR INC.
 - 9.13.1 Overview
 - 9.13.2 Primary Business
 - 9.13.3 Strategy
 - 9.13.4 Developments
- 9.14 MAGMA ENERGY CORP.
 - 9.14.1 Overview
 - 9.14.2 Primary Business
 - 9.14.3 Strategy
 - 9.14.4 Developments
- 9.15 NHPC LTD
 - 9.15.1 Overview
 - 9.15.2 Primary Business
 - 9.15.3 Strategy
 - 9.15.4 Developments
- 9.16 NORDEX SE
 - 9.16.1 Overview
 - 9.16.2 Primary Business



- 9.16.3 Strategy
- 9.16.4 Developments
- 9.17 ORMAT TECHNOLOGIES
 - 9.17.1 Overview
 - 9.17.2 Primary Business
 - 9.17.3 Strategy
 - 9.17.4 Developments
- 9.18 Q-CELLS SE
 - 9.18.1 Overview
 - 9.18.2 Primary Business
 - 9.18.3 Strategy
 - 9.18.4 Developments
- 9.19 RAM POWER CORP.
 - 9.19.1 Overview
 - 9.19.2 Primary Business
 - 9.19.3 Strategy
 - 9.19.4 Developments
- 9.2 REYKJAVIK ENERGY
 - 9.20.1 Overview
 - 9.20.2 Primary Business
 - 9.20.3 Strategy
 - 9.20.4 Developments
- 9.21 TRINA SOLAR LTD
 - 9.21.1 Overview
 - 9.21.2 Primary Business
 - 9.21.3 Strategy
 - 9.21.4 Developments
- 9.22 RUSHYDRO OAO
 - 9.22.1 Overview
 - 9.22.2 Primary Business
 - 9.22.3 Strategy
 - 9.22.4 Developments
- 9.23 SATLUJ JAL VIDYUT NIGAM LTD
 - 9.23.1 Overview
 - 9.23.2 Primary Business
 - 9.23.3 Strategy
 - 9.23.4 Developments
- 9.24 SHARP CORPORATION
 - 9.24.1 Overview



- 9.24.2 Primary Business
- 9.24.3 Strategy
- 9.24.4 Developments
- 9.25 SIEMENS AG
 - 9.25.1 Overview
 - 9.25.2 Primary Business
 - 9.25.3 Strategy
 - 9.25.4 Developments
- 9.26 SUNTECH POWER HOLDING CO. LTD
 - 9.26.1 Overview
 - 9.26.2 Primary Business
 - 9.26.3 Strategy
 - 9.26.4 Developments
- 9.27 SUZLON ENERGY LTD
 - 9.27.1 Overview
 - 9.27.2 Primary Business
 - 9.27.3 Strategy
 - 9.27.4 Developments
- 9.28 U.S. GEOTHERMAL INC.
 - 9.28.1 Overview
 - 9.28.2 Primary Business
 - 9.28.3 Strategy
 - 9.28.4 Developments
- 9.29 VESTAS WIND SYSTEMS A/S
 - 9.29.1 Overview
 - 9.29.2 Primary Business
 - 9.29.3 Strategy
 - 9.29.4 Developments
- 9.3 YINGLI GREEN ENERGY HOLD. CO. LTD.
 - 9.30.1 Overview
 - 9.30.2 Primary Business
 - 9.30.3 Strategy
 - 9.30.4 Developments

APPENDIX

SOLAR PATENTS

U.S. Patents

Europe Patents



Japan Patents

WIND PATENTS

U.S. Patents

Europe Patents

Japan Patents

BIOFUELS PATENTS

U.S. Patents

Europe Patents

Japan Patents

GEOTHERMAL PATENTS

U.S. Patents

Europe Patents

Japan Patents

HYDRO ENERGY PATENTS

U.S. Patents

Europe Patents

Japan Patents

BIBLIOGRAPHY



List Of Tables

LIST OF TABLES

- 1 Global Renewable Energy Market, By Source 2008 2015 (\$Billion)
- 2 Winning Imperative Analysis
- 3 Investments in R&D 2004 2009 (\$Billion)
- 4 Policies Adopted by Top Countries in Power Generation
- 5 Major Players in Biofuels, by Revenue (2009)
- 6 Major Players in Hydro Power, by Revenue (2009)
- 7 Global Biofuels Market, by Production, 2008 2015 (Billion Liters)
- 8 Global Biofuels Market, By Products 2008 2015 (\$Million)
- 9 Agreements, Partnership & JVS (January 2008 July 2010)
- 10 New Product Launches (January 2008 July 2010)
- 11 Investments (July 2009 July 2010)
- 12 Mergers & Acquisitions (February 2008 July 2010)
- 13 Recent Investments in Hydro Power
- 14 Global Hydro Power Consumption, by Geography 2008 2015 (TWH)
- 15 Global Hydro Power Market Revenue, By GeographY 2008 2015 (\$Billion)
- 16 Contracts/agreements (October 2008 September 2010)
- 17 Partnerships/acquisitions/JVS (October 2008 July 2010)
- 18 Other Developments (September 2008 October 2010)
- 19 CO2 Emissions by Fuel Type
- 20 Prices of Fossil Fuels
- 21 Global Geothermal Energy Capacity, by Applications 2008 2015 (MW)
- 22 Global Geothermal Energy Revenues, by Applications 2008 2015 (\$Million)
- 23 Geothermal Direct Use by Geography 2008 2015 (MW)
- 24 Geothermal Direct Use Revenue by Geography 2008 2015 (\$Million)
- 25 Geothermal Electricity Generation by Geography 2008 2015 (MW)
- 26 Geothermal Electricity Generation Revenue by Geography 2008 2015 (\$Million)
- 27 Contracts (October 2009 February 2010)
- 28 Agreements (April 2008- August 2010)
- 29 Strategy (February 2009 June 2010)
- 30 Global Solar Photovoltaics Market, By Products 2008 2015 (\$Million)
- 31 Global Crystalline Silicon PV Cells Market, By Products, 2008 2015 (\$Million)
- 32 Acquisitions/Collaborations/Partnerships/Agreements/JVS (May 2008 September 2010)
- 33 New Products (June 2008 May 2010)
- 34 Other Developments (March 2008 August 2010)



- 35 Global Wind Energy Market, By Geography 2008 2015 (\$Billion)
- 36 Global Wind Energy Market, By Turbines 2008 2015 (\$Billion)
- 37 Contracts (May 2008 September 2010)
- 38 Agreements (June 2008 August 2010)
- 39 Strategies (June 2009 May 2010)
- 40 Product Developments/Technological Developments (February 2010 June 2010)
- 41 Other Developments (February 2008 September 2010)



List Of Figures

LIST OF FIGURES

- 1 Global Renewable Energy Market, by Revenues (2010)
- 2 Segmentation of Renewable Sources of Energy
- 3 Prime Applications of Renewable Sources of Energy
- 4 Global Energy Generating Capacity, by Sources (2009)
- 5 Global Investments in Renewable to Add New Capacity 2004 2009 (\$Billion)
- 6 Greenhouse Gas Emission by Source
- 7 Average Feed-in-tariffs by Renewable Energy, by Source (2009)
- 8 Solar PV Market Share, by Installed Capacities (2009)
- 9 Wind Energy Market Share, by Installed Capacities (2009)
- 10 Biodiesel Production Capacity, 2009 (Million Gallons)
- 11 Wind Energy Patent Analysis, by Geography (2007 2010)
- 12 Biofuel Patent Analysis, by Geography (2007 2010)
- 13 Geothermal Patent Analysis, by Geography (2007 2010)
- 14 Hydro Energy Patent Analysis, by Geography (2007 2010)
- 15 Solar Energy Patent Analysis, by Geography (2007 2010)
- 16 Global Biofuels Production (Billion Liters) (2005 2009)
- 17 Bioethanol Production, by Geography (2009)
- 18 Biodiesel Production, by Geography (2009)
- 19 GHG Emission of Different Fuels
- 20 Fluctuations in Global Crude Oil Prices (2000 2009)
- 21 Types of Hydroelectric Power
- 22 Hydro Power Consumption, by Geography (TWH) (2009)
- 23 Types of Hydro Power Plants, by Generation Capacity
- 24 Types of Hydro Power Plants, by Available Head
- 25 Global Hydro Power Consumption (TWH)
- 26 Untapped Hydro Power Potential, by Geography (2009)
- 27 Breakdown of Total Cost of Hydroelectric Power Plant
- 28 Geothermal Energy Market
- 29 Geothermal Installed Capacity, by Geography (MW) (2009)
- 30 Direct Use Applications (2009)
- 31 Selection of ECS Based on Utilization Rate and Source Temperature
- 32 Dry Steam Cycle
- 33 Flash Steam Cycle
- 34 Binary Cycle
- 35 Share of ECS Based on Number of Installations (2009)



- 36 Share of ECS by Installed Capacity (2009)
- 37 Range and Breakup of Capital Cost Based on Activities
- 38 Breakup of Cost Based on ECS
- 39 Operating and Maintenance Cost Based on ECS
- 40 Solar Photovoltaics Market, by Geography 2010 (\$Million)
- 41 Solar Photovoltaic Capacity, by Geography (2009)
- 42 Global Solar Photovoltaic Market, by Applications
- 43 Global Installed Wind Energy Capacity (2000 2009)
- 44 Cumulative Wind Energy Installation, by Geography (2009)
- 45 Wind Energy New Capacities Installed, by Geography 2009 (MW)
- 46 Breakup of Costs Associated with Wind Power



I would like to order

Product name: Global Renewable Energy Market Outlook (2010-2015).

Product link: https://marketpublishers.com/r/GE32269F871EN.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/GE32269F871EN.html