

## **Distributed Energy Generation (DEG) Systems Market - Global Industry Analysis, Size, Share, Growth, Trends and Forecast, 2012 - 2018**

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### **REPORT DESCRIPTION**

**Global Distributed Energy Generation Systems (DEG) Market is Expected to Reach USD 155.86 Billion in 2018: Transparency Market Research**

Transparency Market Research published new market report "**Distributed Energy Generation (DEG) Market for CHP (Combined Heat and Power), Solar Photovoltaic, Wind Turbine and Fuel Cells in Residential, Building, Institution and Commercial Applications- Global Industry Analysis, Size, Share, Growth, Trends and Forecast, 2012 - 2018**," global DEG systems market was valued at USD 99.68 billion in 2011 and is expected to reach USD 155.86 billion in 2018, growing at a CAGR of 6.7% from 2012 to 2018. Annual DEG installation capacity was 81,875.7 MW in 2011 and is expected to reach 180,093.6 MW in 2018, growing at a CAGR of 11.9% from 2012 to 2018.

Energy demand has increased substantially over the past decade and is expected to increase in the next five to six years. Insufficient centralized electricity supply, paradigm shift in energy generation towards green technology, increased industry awareness coupled with revised FIT (Feed in Tariff) rates are expected to spur market growth. Failure of conventional energy generation model which incurs substantial capital investment for power

generation and distribution through transmission is expected to lay groundwork for DEG systems market. Price competency in key technologies (wind turbine, solar PV, CHP, fuel cells and microturbines) is likely to attract more consumers globally thereby bolstering the market. Presently highly priced DEG systems are a key challenge for market participants; however, price moderation over the next few years is expected to help the market overcome this issue.

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Crucial technology segments estimated and analyzed in this study include CHP, that accounted for over 48% of global capacity in 2011, followed by solar PV, wind turbine, reciprocating engines, micro turbines and fuel cells. The market is also segmented into on grid and off grid segments. In 2011, on grid segment dominated the DEG systems market while off grid segment accounted for just over 1% of the market. Key DEG applications include residential, buildings and institutions and commercial and industrial installations. Commercial and industrial applications dominated the market, accounting for over 74% global market in 2011.

Europe dominated the DEG systems market in and accounted for over 39% of global DEG installations in 2011. The provision of financial incentive schemes in China, India and Japan supplemented with low production cost are primary factors expected to drive the product demand in Asia Pacific. North America pioneered the solar PV technology, utilized for generating electricity. North America DEG market revenues are expected to reach USD 37.33 billion in 2018. The absence of grid connection led to generation of energy through off grid DEG systems in Africa. Growing energy demand in the Middle East and Africa is expected to fuel the growth rate of DEG systems market.

Key participants in this market include GE Energy, Siemens Energy, Caterpillar Power Plants, Mitsubishi Power Systems, Vestas, Alstom, E.On SE, and Capstone Turbine Corporation among others. The report provides an overview of these companies followed by their financial revenue, business strategies, product portfolio and recent developments.

This research analyzes and estimates the performance and installation of DEG systems in the global scenario, providing detailed trend analysis of the market by geography and comprehensive analysis of companies that are dealing in the DEG systems. The report presents a thorough assessment of the strategies followed by different stakeholders by segmenting the DEG systems market as below:

### **Distributed Energy Generation Systems Market: Technology Analysis**

- Solar photovoltaic
- Combined heat and power (CHP)

- Wind turbine
- Reciprocating engines
- Micro-turbine
- Fuel cells

### **Distributed Energy Generation Systems Market: End User Analysis**

- Residential
- Buildings and Institutions
- Commercial and Industrial

### **Distributed Energy Generation Systems Market: Application Analysis**

- On Grid
- Off Grid

### **Distributed Energy Generation Systems Market: Regional Analysis**

- North America
- Europe
- Asia-Pacific
- MEA (Middle East & Africa)
- Rest of the World (Brazil and Mexico)

## **TABLE OF CONTENTS**

### **Chapter 1 Preface**

- 1.1 Report Description
- 1.2 Research Scope
- 1.3 Market Segmentation
- 1.4 Research Methodology

**Browse the full report at**

**<http://www.transparencymarketresearch.com/distributed-energy-generation-market.html>**

## **Chapter 2 Executive Summary**

## **Chapter 3 Market Overview**

### 3.1 Introduction

### 3.2 Value chain analysis

### 3.3 Market Drivers

3.3.1 Paradigm shift in generation of energy, towards green technology

3.3.2 Key technologies expected to be price competent

3.3.3 Increasing awareness about reducing carbon footprint

3.3.4 Retooled Feed in Tariff's (FIT) and government incentive schemes spurring the demand

### 3.4 Market Restraints

3.4.1 High initial cost and climate dependent systems

### 3.5 Market Opportunities

3.5.1 Emerging markets and development of eco-friendly distributed energy generation systems

### 3.6 Pricing Trend

### 3.7 Porter's five forces analysis

3.7.1 Bargaining power of suppliers

3.7.2 Bargaining power of buyers

3.7.3 Threat from substitutes

3.7.4 Threat of new entrants

3.7.5 Degree of competition

### 3.8 Market attractiveness analysis of DEG systems market, by technology, 2012

### 3.9 Company market share analysis

3.9.1 Distributed Energy Generation (DEG) Systems company market share analysis, 2012

3.9.2 Company market share of solar PV systems market, 2012

3.9.3 Company market share of CHP installation market, 2012

3.9.4 Company market share of fuel cell market, 2012

## **Chapter 4 Distributed Energy Generation Systems - Technology Analysis**

4.1 Distributed energy generation systems market: Technology overview

4.1.1 Global DEG systems installation market, volume share by technology segment, 2011 - 2018

4.2 Combined Heat and Power (CHP)

4.2.1 Global CHP DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

4.3 Wind turbines

4.3.1 Global wind turbine DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

4.4 Solar PV systems

4.4.1 Global solar PV DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

4.5 Reciprocating engines

4.5.1 Global reciprocating DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

4.6 Micro turbines

4.6.1 Global micro turbine DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

4.7 Fuel cells

4.7.1 Global fuel cell DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

## **Chapter 5 Distributed Energy Generation Systems - Application Analysis**

### 5.1 Distributed energy generation systems market: Application overview

5.1.1 Global DEG systems installation market, volume share by grid segment, 2011 and 2018

### 5.2 On-grid

5.2.1 Global on grid DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

### 5.3 Off grid

5.3.1 Global off grid DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

## **Chapter 6 Distributed Energy Generation Systems - End-use Analysis**

### 6.1 Distributed energy generation systems market: End-use overview

6.1.1 Global DEG systems installation market, volume share by end use segment, 2011 - 2018

### 6.2 Residential

6.2.1 Global residential DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

### 6.3 Buildings and institutions

6.3.1 Global building and institution DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

### 6.4 Commercial and industries

6.4.1 Global commercial and industrial DEG systems installation market estimates and forecast, 2011 – 2018 (MW) (USD Million)

## **Chapter 7 Distributed Energy Generation Systems - Regional Analysis**

### 7.1 Distributed energy generation systems market: Geographic overview

7.1.1 Global DEG systems installation market, volume share by geography, 2011 - 2018

7.1.2 Global DEG systems installation market estimate and forecast, by geography, 2011 – 2018 (MW) (USD Million)

## 7.2 North America

7.2.1 North America DEG systems installation market estimate and forecast, by technology segment, 2011 – 2018, (MW) (USD Million)

7.2.2 North America DEG systems installation market estimate and forecast, by application segment, 2011 – 2018, (MW) (USD Million)

7.2.3 North America DEG systems installation market estimate and forecast, by end use segment, 2011 – 2018, (MW) (USD Million)

## 7.3 Europe

7.3.1 Europe DEG systems installation market estimate and forecast, by technology segment, 2011 – 2018, (MW) (USD Million)

7.3.2 Europe DEG systems installation market estimate and forecast, by application segment, 2011 – 2018, (MW) (USD Million)

7.3.3 Europe DEG systems installation market estimate and forecast, by end use segment, 2011 – 2018, (MW) (USD Million)

## 7.4 Asia Pacific

7.4.1 Asia Pacific DEG systems installation market estimate and forecast, by technology segment, 2011 – 2018, (MW) (USD Million)

7.4.2 Asia Pacific DEG systems installation market estimate and forecast, by application segment, 2011 – 2018, (MW) (USD Million)

7.4.3 Asia Pacific DEG systems installation market estimate and forecast, by end use segment, 2011 – 2018, (MW) (USD Million)

## 7.5 MEA (Middle East and Africa)

7.5.1 MEA DEG systems installation market estimate and forecast, by technology segment, 2011 – 2018, (MW) (USD Million)

7.5.2 MEA DEG systems installation market estimate and forecast, by application segment, 2011 – 2018, (MW) (USD Million)

7.5.3 MEA DEG systems installation market estimate and forecast, by end use segment, 2011 – 2018, (MW) (USD Million)

## 7.6 RoW (Rest of World)

7.6.1 RoW DEG systems installation market estimate and forecast, by technology segment, 2011 – 2018, (MW) (USD Million)

7.6.2 RoW DEG systems installation market estimate and forecast, by application segment, 2011 – 2018, (MW) (USD Million)

7.6.3 RoW DEG systems installation market estimate and forecast, by end use segment, 2011 – 2018, (MW) (USD Million)

## **Chapter 8 Company Profiles**

### 8.1 Alstom

8.1.1 Company overview

8.1.2 Product Portfolio

8.1.3 Financial overview

8.1.4 Business strategy

8.1.5 SWOT analysis

8.1.6 Recent developments

### 8.2 Ballard Power Systems Inc.

8.2.1 Company overview

8.2.2 Financial overview

8.2.3 Product portfolio

8.2.4 Business strategy

8.2.5 SWOT analysis

8.2.6 Recent developments

### 8.3 Calnetix Technologies, LLC

8.3.1 Company overview

8.3.2 Product Portfolio

8.3.3 Business strategy



8.3.4 SWOT analysis

8.3.5 Recent developments

#### 8.4 Canyon Hydro

8.4.1 Company overview

8.4.2 Product portfolio

8.4.3 Business strategy

8.4.4 SWOT analysis

8.4.5 Recent developments

#### 8.5 Capstone Turbine Corporation

8.5.1 Company overview

8.5.2 Product portfolio

8.5.3 Financial overview

8.5.4 Business strategy

8.5.5 SWOT analysis

8.5.6 Recent developments

#### 8.6 Cargo & Kraft Turbin Sverige AB

8.6.1 Company overview

8.6.2 Product portfolio

8.6.3 Business strategy

8.6.4 SWOT analysis

8.6.5 Recent developments

#### 8.7 Caterpillar Power Plants

8.7.1 Company profile

8.7.2 Product Portfolio

8.7.3 Financial overview

**Browse the full report at**

**<http://www.transparencymarketresearch.com/distributed-energy-generation-market.html>**

8.7.4 SWOT Analysis

8.7.5 Business strategies

8.7.6 Recent developments

8.8 ClearEdge Power

8.8.1 Company overview

8.8.2 Product portfolio

8.8.3 Business strategy

8.8.4 SWOT analysis

8.8.5 Recent developments

8.9 Enercon

8.9.1 Company overview

8.9.2 Product portfolio

8.9.3 Business strategy

8.9.4 SWOT analysis

8.9.5 Recent developments

8.10 E.ON SE

8.10.1 Company overview

8.10.2 Financial overview

8.10.3 Business strategy

8.10.4 SWOT analysis

8.10.5 Recent developments

8.11 Fuel Cell Energy

8.11.1 Company overview

8.11.2 Product portfolio

8.11.3 Financial overview

8.11.4 Business strategy

8.11.5 SWOT analysis

8.11.6 Recent developments

## 8.12 Gamesa Corp

8.12.1 Company overview

8.12.2 Product portfolio

8.12.3 Financial overview

8.12.4 Business strategy

8.12.5 SWOT analysis

8.12.6 Recent developments

## 8.13 General Electric Energy

8.13.1 Company profile

8.13.2 Product Portfolio

8.13.3 Financial overview

8.13.4 SWOT Analysis

8.13.5 Business strategies

8.13.6 Recent developments

## 8.14 Gilbert Gilkes & Gordon Ltd

8.14.1 Company overview

8.14.2 Product portfolio

8.14.3 Business strategy

8.14.4 SWOT analysis

8.14.5 Recent developments

8.15 Goldwind

8.15.1 Company overview

8.15.2 Product portfolio

8.15.3 Financial overview

8.15.4 Business strategy

8.15.5 SWOT analysis

8.15.6 Recent developments

8.16 GUGLER Water Turbines GmbH

8.16.1 Company overview

8.16.2 Product portfolio

8.16.3 Business strategy

8.16.4 SWOT analysis

8.16.5 Recent developments

8.17 Mitsubishi Power Systems Americas Inc.

8.17.1 Company overview

8.17.2 Product portfolio

8.17.3 Business strategy

8.17.4 SWOT analysis

8.17.5 Recent developments

8.18 OPRA Turbines BV

8.18.1 Company overview

8.18.2 Product portfolio

8.18.3 Business strategy

8.18.4 SWOT analysis

8.18.5 Recent developments

8.19 Rolls-Royce plc

8.19.1 Company overview

8.19.2 Product Portfolio

8.19.3 Financial overview

8.19.4 Business strategy

8.19.5 SWOT analysis

8.19.6 Recent Developments

8.20 Siemens Energy

8.20.1 Company overview

8.20.2 Product portfolio

8.20.3 Financial overview

8.20.4 Business strategy

8.20.5 SWOT analysis

8.20.6 Recent developments

8.21 Suzlon

8.21.1 Company overview

8.21.2 Product portfolio

8.21.3 Financial overview

8.21.4 Business strategy

8.21.5 SWOT analysis

8.21.6 Recent developments

8.22 Toyota Turbine and Systems Inc.

8.22.1 Company overview

8.22.2 Product portfolio

8.22.3 Financial overview

8.22.4 Business strategy

8.22.5 SWOT analysis

8.22.6 Recent development

## 8.23 Vestas

8.23.1 Company overview

8.23.2 Product portfolio

8.23.3 Financial Overview

8.23.4 Business strategy

8.23.5 SWOT analysis

8.23.6 Recent developments

## 8.24 Yingli Solar

8.24.1 Company Overview

8.24.2 Financial overview

8.24.3 Business strategy

8.24.4 SWOT analysis

8.24.5 Recent developments

## **About Us:**

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