

# Renewable Energy Policy FiT Analysis by Technology (Solar, Wind, Geothermal and Bio Energy), by Tariff Period (5, 10, 13, 15, 20, and 25 years), by System Size (1 kW to 15 MW), and by Key Country - Installed Capacity and Targets to 2020

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## Abstracts

Countries worldwide are planning to promote renewable energy in one way or the other in order to reduce dependency on fossil fuels. Hence, mandatory renewable energy targets are being laid down by the governments to ensure that the power producers produce certain proportions of the total electricity generation from renewable energy sources. For instance, the EU and the U.S. have set a base line renewable energy target of 20% by 2020. As of 2015, 164 countries around the world have adopted at least one type of renewable energy target. In order to meet these targets and also to increase the adoption of renewable energy technologies, governments have framed policies and are providing incentives, such as feed-in tariff.

“Solar is the fastest growing renewable energy generation technology”

In terms of renewable energy installation, by technology, wind is the most widely used renewable energy source, followed by solar, bio energy, and geothermal. However, in terms of adoption rate, solar is being widely adopted and deems to be a promising technology in the near future. China alone added approximately 15,150 MW of capacity to its solar energy in 2015. Moreover, in 2015, China surpassed Germany to become the largest installer of solar Photovoltaic (PV). The country aims to reach a renewable energy target of around 100 GW of solar PV capacity by 2020. In 2015, the largest capacity addition of geothermal and bio energy technology was observed in the U.S. and Brazil respectively.

### “Feed-in Tariff – an effective energy supply policy”

Feed-in tariff is a performance-based incentive, promoting rapid deployment of renewable energy technologies. Well-designed feed-in tariff policies can positively impact job creations and economic growth. These policies are successful world over, especially in the European countries. Feed-in tariff policies can be implemented to support all renewable technologies including wind (onshore and offshore), solar (PV and thermal), geothermal, bio energy (biogas and biomass), fuel cells, and tidal & wave power. Feed-in tariffs are generally awarded as long-term contracts set over a period of 10 years to 20 years. Currently, there are seven U.S. states such as California and Washington that mandate feed-in tariffs. .

### “Organizations present in the renewable energy value chain”

Some of the leading organizations present in the renewable energy value chain includes Ministry of Environment, Energy and the Sea (France), Ministry of New and Renewable Energy (India), Ontario Power Authority (Canada), Office of Gas & Electricity Markets, U.K. Government (U.K.), Ministry of Economy, Trade and Industry (Japan), Dominion Virginia Power (U.S.), Tennessee Valley Authority (U.S.), Los Angeles Department of Water & Power (U.S.), Orcas Power & Light (U.S.), Green Mountain Power (U.S.), and Eugene Water & Electric Board (U.S.), among others.

### Breakdown of Primaries

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives, and industry consultants among other experts. The distribution of primary interviews is as follows:

By Company Type: Tier 1–42%, Tier 2–32%, and Tier 3–26%

By Designation: C-Level–32%, Director Level–26%, and Engineer Level–42%

By Region: The Americas–13%, Europe–15%, Asia-Pacific–48%, and RoW–24%

Note: Row = Rest of the World

The tier of the companies has been defined on the basis of their total revenue, as of 2015: Tier 1 =USD 10 billion, Tier 2 = From USD 1 billion to USD 10 billion, and Tier 3 =USD 1 billion

Why buy this report?

1. The report identifies and assesses the key countries that are involved in the renewable energy technologies adoption and gives ideas regarding the most promising technologies in the near future.
2. The report provides insights related to the different renewable energy technologies being implemented, capacity additions done each year, key projects related to main technologies, and renewable energy targets.
3. It also presents the feed-in tariff rates applicable for different renewable technologies in various countries.

## Contents

### **1 INTRODUCTION**

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 STUDY SCOPE
  - 1.2.1 MARKETS COVERED
  - 1.2.2 YEARS CONSIDERED FOR THE STUDY
- 1.3 CURRENCY
- 1.4 LIMITATION
- 1.5 STAKEHOLDERS

### **2 RESEARCH METHODOLOGY**

- 2.1 RESEARCH DATA
- 2.2 SECONDARY DATA
- 2.3 PRIMARY DATA
- 2.4 BREAKDOWN OF PRIMARIES
  - 2.4.1 LIMITATIONS

### **3 EXECUTIVE SUMMARY**

- 3.1 INTRODUCTION
- 3.2 CURRENT SCENARIO
  - 3.2.1 AMERICAS
    - 3.2.1.1 U.S.
    - 3.2.1.2 Canada
    - 3.2.1.3 Brazil
  - 3.2.2 EUROPE
    - 3.2.2.1 Germany
    - 3.2.2.2 U.K.
    - 3.2.2.3 France
    - 3.2.2.4 Italy
  - 3.2.3 ASIA-PACIFIC
    - 3.2.3.1 China
    - 3.2.3.2 India
    - 3.2.3.3 Japan
- 3.3 FUTURE TRENDS
- 3.4 CONCLUSION

## **4 RENEWABLE ENERGY SECTOR OVERVIEW**

### 4.1 INTRODUCTION

### 4.2 DRIVERS

4.2.1 INCREASING CONCERN TOWARDS REDUCING GLOBAL GREENHOUSE GAS EMISSIONS & GROWING ADOPTION OF RENEWABLE ENERGY TECHNOLOGIES

4.2.2 GROWING FOCUS ON RENEWABLE SOURCES FOR POWER GENERATION

4.2.3 FALLING COST OF RENEWABLE ENERGY

4.2.4 POLICY & INCENTIVES

4.2.5 INTEGRATION OF RENEWABLE ENERGY

4.2.6 AVAILABILITY OF END-USER SPECIFIC SOLUTIONS

## **5 RENEWABLE ENERGY SECTOR ANALYSIS**

5.1 RENEWABLE PROJECT SYSTEM COST (USD /MW)

5.2 MAJOR UNDER-CONSTRUCTION UTILITY SCALE PROJECTS

5.3 RENEWABLE ENERGY TARGET 2020, BY KEY COUNTRIES

5.4 COMPETITIVENESS –KEY COUNTRIES VS. RENEWABLE TECHNOLOGY

## **6 FEED-IN TARIFF RATES**

### 6.1 INTRODUCTION

### 6.2 AMERICAS

6.2.1 U.S.

6.2.2 CANADA

### 6.3 EUROPE

6.3.1 GERMANY

6.3.2 U.K.

6.3.3 FRANCE

6.3.4 ITALY

### 6.4 ASIA-PACIFIC

6.4.1 CHINA

6.4.2 INDIA

6.4.3 JAPAN

## **7 RENEWABLE ENERGY INSTALLATION, BY TECHNOLOGY, 2011–2015**

## 7.1 INTRODUCTION

### 7.2 AMERICAS

#### 7.2.1 U.S.

#### 7.2.2 CANADA

#### 7.2.3 BRAZIL

### 7.3 EUROPE

#### 7.3.1 U.K.

#### 7.3.2 GERMANY

#### 7.3.3 FRANCE

#### 7.3.4 ITALY

### 7.4 ASIA-PACIFIC

#### 7.4.1 CHINA

#### 7.4.2 INDIA

#### 7.4.3 JAPAN

## 8 COMPANY PROFILES

(Overview, Financial\*, Products & Services, Strategy, and Developments)

### 8.1 FIRST SOLAR, INC.

### 8.2 JUWI AG

### 8.3 SUNEDISON INC.

### 8.4 HANWHA Q CELLS CO. LTD.

### 8.5 MARTIFER SOLAR

### 8.6 BOREA CONSTRUCTION ULC

### 8.7 GAMESA CORPORATION

### 8.8 PRENECON S.A.

### 8.9 M.A. MORTENSON COMPANY

### 8.10 SUZLON ENERGY

### 8.11 BLACK & VEATCH HOLDING

### 8.12 AREVA

### 8.13 AMEC FOSTER WHEELER PLC.

### 8.14 ORMAT TECHNOLOGIES INC.

### 8.15 MANNVIT

\*Details might not be captured in case of unlisted companies.

## 9 APPENDIX

## 9.1 JAPAN

### 9.1.1 SOLAR

## 9.2 CHINA

### 9.2.1 WIND

### 9.2.2 SOLAR

## 9.3 INDIA

### 9.3.1 WIND

## 9.4 FRANCE

### 9.4.1 WIND

### 9.4.2 SOLAR

## 9.5 U.K.

## 9.6 U.S.

### 9.6.1 MULTIPLE

#### 9.6.1.1 California

##### 9.6.1.1.1 Time of delivery multiplier

##### 9.6.1.1.2 Renewable energy delivery profiles

#### 9.6.1.2 Oregon

## 9.7 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

## List Of Tables

### LIST OF TABLES

- Table 1 ACCESS TO ELECTRICITY IN 2013
- Table 2 SYSTEM COST FOR PV SOLAR PROJECTS, 2016
- Table 3 SYSTEM COST FOR ONSHORE WIND PROJECTS, 2015
- Table 4 SYSTEM COST FOR OFFSHORE WIND PROJECTS, 2015
- Table 5 KEY UTILITY SCALE SOLAR, ONSHORE, & OFFSHORE WIND PROJECTS 2015–2016
- Table 6 CALIFORNIA: FEED-IN TARIFF
- Table 7 FLORIDA: FEED-IN TARIFF
- Table 8 HAWAII: FEED-IN TARIFF
- Table 9 INDIANA: FEED-IN TARIFF
- Table 10 MAINE: FEED-IN TARIFF
- Table 11 OREGON: FEED-IN TARIFF
- Table 12 RHODE ISLAND: FEED-IN TARIFF
- Table 13 VERMONT: FEED-IN TARIFF
- Table 14 VIRGINIA: FEED-IN TARIFF
- Table 15 WASHINGTON: FEED-IN TARIFF
- Table 16 CANADA: FEED-IN TARIFF
- Table 17 GERMANY: FEED-IN TARIFF
- Table 18 U.K.: FEED-IN TARIFF (WIND, GEOTHERMAL, & BIO ENERGY)
- Table 19 U.K.: FEED-IN TARIFF (SOLAR)
- Table 20 FRANCE: FEED-IN TARIFF
- Table 21 FRANCE: FEED-IN TARIFF – WIND
- Table 22 ITALY: FEED-IN TARIFF
- Table 23 CHINA: FEED-IN TARIFF
- Table 24 INDIA: FEED-IN TARIFF
- Table 25 JAPAN: FEED-IN TARIFF
- Table 26 U.S.: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY, 2011–2015 (MW)
- Table 27 CANADA: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY, 2011–2015 (MW)
- Table 28 BRAZIL: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY, 2011–2015 (MW)
- Table 29 U.K.: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY, 2011–2015 (MW)
- Table 30 GERMANY: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY,



2011–2015 (MW)

Table 31 FRANCE: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY,  
2011–2015 (MW)

Table 32 ITALY: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY, 2011–2015  
(MW)

Table 33 CHINA: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY,  
2011–2015 (MW)

Table 34 INDIA: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY, 2011–2015  
(MW)

Table 35 JAPAN: RENEWABLE ENERGY INSTALLED, BY TECHNOLOGY,  
2011–2015 (MW)

## List Of Figures

### LIST OF FIGURES

Figure 1 RENEWABLE ENERGY POLICY ANALYSIS, BY FEED-IN TARIFF

Figure 2 RENEWABLE ENERGY POLICY ANALYSIS, BY FEED-IN TARIFF:  
RESEARCH DESIGN

Figure 3 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE,  
DESIGNATION, & REGION

Figure 4 U.S.: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 5 CANADA: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 6 BRAZIL: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 7 GERMANY: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 8 U.K.: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 9 FRANCE: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 10 ITALY: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 11 CHINA: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 12 INDIA: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 13 JAPAN: BREAKDOWN OF ELECTRICITY GENERATION BY ENERGY  
SOURCE, 2014

Figure 14 RENEWABLE ENERGY SECTOR—KEY MARKET DYNAMICS

Figure 15 GLOBAL CO<sub>2</sub> EMISSIONS FROM FOSSIL FUEL USE & CEMENT  
PRODUCTION, 1994–2014

Figure 16 ELECTRICITY PRODUCTION FROM RENEWABLE SOURCES,  
EXCLUDING HYDROELECTRIC (KWH), 1992–2002

Figure 17 U.S. - UTILITY-SCALE PV SYSTEMS BY SIZE

Figure 18 U.S. - BENCHMARK PRICE FOR SOLAR PV, 2015

Figure 19 FEED-IN TARIFF VS. DURATION

Figure 20 RENEWABLE ENERGY INSTALLATION, BY COUNTRY, 2015

Figure 21 FIRST SOLAR, INC.: COMPANY SNAPSHOT

- Figure 22 JUWI AG: COMPANY SNAPSHOT
- Figure 23 SUNEDISON INC.: COMPANY SNAPSHOT
- Figure 24 HANWHA Q CELLS CO. LTD.: COMPANY SNAPSHOT
- Figure 25 MARTIFER SOLAR: COMPANY SNAPSHOT
- Figure 26 BOREA CONSTRUCTION ULC: COMPANY SNAPSHOT
- Figure 27 GAMESA CORPORATION: COMPANY SNAPSHOT
- Figure 28 PRENECON S.A.: COMPANY SNAPSHOT
- Figure 29 M.A. MORTENSON COMPANY: COMPANY SNAPSHOT
- Figure 30 SUZLON ENERGY: COMPANY SNAPSHOT
- Figure 31 BLACK & VEATCH: COMPANY SNAPSHOT
- Figure 32 AREVA: COMPANY SNAPSHOT
- Figure 33 AMEC FOSTER WHEELER PLC.: COMPANY SNAPSHOT
- Figure 34 ORMAT TECHNOLOGIES INC.: COMPANY SNAPSHOT
- Figure 35 MANNVIT: COMPANY SNAPSHOT

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