Smart Grid Market by Solution (Advanced Metering Infrastructure, Smart Grid Distribution, Smart Grid Communication, Grid Asset Management, Geographic Information System and Billing & Customer Information System), by Service - Global Forecast to 2021

Description: The smart grid market size is estimated to grow from USD 19.8 million in 2016 to USD 65.4 million by 2021, at a Compound Annual Growth Rate (CAGR) of 27.0% due to the increasing need for replacing aging infrastructure, mandatory regulations and policies, need for centralized grid distribution management and control, and increasing concern for reducing carbon footprints.

The smart grid distribution management segment is estimated to have the highest CAGR during the forecast period as they are responsible for the support of utilities demand response management programs, micro-grids, distribution automation, outage management, network optimization, and workforce management. The major growth drivers identified for the smart grid distribution management market are rising smart grid technology market, increasing adoption of distributed renewable generation, and regulatory pressure for reducing carbon emission. Globally, the market is witnessing substantial investments in R&D and marketing channels.

North America is expected to hold the largest share of the smart grid market in 2016 due to increasing spending on energy efficiency programs coupled with regulatory government mandates in the U.S. and Canada. Asia-Pacific (APAC) is expected to grow at the highest growth rate during the forecast period due to rapid smart grid deployments in China, Japan, and India, along with Australia, Singapore, New Zealand, and South Korea.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews were conducted with key industry personnel. The break-up profile of primary discussion participants is given below.

- By Company Type: Tier-1 (20%), Tier-2 (25%), and Tier-3 (55%) companies
- By Designation: C-level (75 %) and Manager Level (25 %)
- By Region: North America (35 %), Europe (25 %), Asia-Pacific (APAC) (25 %), and Rest of World (15%)

The various key smart grid vendors profiled in the report are as follows:

1. ABB Group (Switzerland)
2. Cisco Systems, Inc. (U.S.)
3. General Electric Company (U.S.)
4. International Business Machine (U.S.)
5. Itron Inc. (U.S.)
6. Landis+Gyr AG (Switzerland)
7. Oracle Corporation (U.S.)
9. Schneider Electric SE (France)
10. Siemens AG (Germany)

The report will help the market leaders/new entrants in smart grid market in the following ways:

1. This report segments the smart grid market comprehensively and provides the closest approximations of the revenue numbers for the overall market and the subsegments across different regions.
2. The report helps the stakeholders understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.
3. This report will help the stakeholders to better understand the competitors and gain more insights to
better their position in the business. The competitive landscape section includes competitor ecosystem, new product developments, partnerships, and mergers & acquisitions.

Contents:

1 Introduction
   1.1 Objectives of the Report
   1.2 Market Definition
   1.3 Market Scope
      1.3.1 Markets Covered
      1.3.2 Years Considered in the Report
   1.4 Currency
   1.5 Limitations
   1.6 Stakeholders

2 Research Methodology
   2.1 Research Data
      2.1.1 Secondary Data
         2.1.1.1 Key Data From Secondary Sources
      2.1.2 Primary Data
         2.1.2.1 Key Data From Primary Sources
         2.1.2.2 Key Industry Insights
         2.1.2.3 Breakdown of Primaries
   2.2 Market Size Estimation
      2.2.1 Bottom-Up Approach
      2.2.2 Top-Down Approach
   2.3 Market Breakdown and Data Triangulation
   2.4 Research Assumptions and Limitations
      2.4.1 Assumptions
      2.4.2 Limitations

3 Executive Summary

4 Premium Insights
   4.1 Attractive Market Opportunities in the Smart Grid Market
   4.2 Smart Grid Market, By Region
   4.3 Smart Grid Solution Market Share, By Solution
   4.4 Lifecycle Analysis, By Region, 2016
   4.5 Smart Grid Asia-Pacific Market Snapshot

5 Market Overview
   5.1 Introduction
   5.2 Market Segmentation
      5.2.1 By Solution
      5.2.2 By Service
      5.2.3 By Region
   5.3 Market Dynamics
      5.3.1 Drivers
         5.3.1.1 Government Policies and Legislative Mandates
         5.3.1.2 Regional Government Initiatives for Smart Meters Roll-Out
         5.3.1.3 Increasing Demand for Integration of Renewable Energy Source
         5.3.1.4 Improved Grid Reliability and Efficient Outage Response
      5.3.2 Restraints
         5.3.2.1 High Initial Costs for Deployment of Technology Solutions
         5.3.2.2 Lack of Standards and Interoperability
         5.3.2.3 Smart Grid Cyber Security and Its Vulnerabilities
      5.3.3 Opportunities
         5.3.3.1 Revenue Opportunity for Traditional Energy Infrastructure Vendors and Emerging Vendors
         5.3.3.2 Up-Coming Smart Cities Projects in Developing Regions
         5.3.3.3 Modernization of Ageing Grid Infrastructure
      5.3.4 Challenges
         5.3.4.1 Inadequate Data Management
         5.3.4.2 Providing Business Intelligence Through Analytics
6 Industry Trends
   6.1 Introduction
   6.2 Value Chain Analysis
   6.3 Vendor Portfolio Analysis
   6.4 Smart Grid Investment Trend
   6.5 Top Smart Grid Projects Worldwide
   6.6 Strategic Benchmarking

7 Smart Grid Management Market Analysis, By Solution
   7.1 Introduction
   7.2 Advanced Metering Infrastructure
      7.2.1 Meter Data Management
      7.2.2 Analytics
      7.2.3 Advanced Metering Infrastructure Security
   7.3 Smart Grid Distribution Management
      7.3.1 Supervisory Control and Data Acquisition
      7.3.2 Outage Management
      7.3.3 Distributed Energy Resource Management
      7.3.4 Demand Response Management
      7.3.5 Energy Management
   7.4 Smart Grid Communication
      7.4.1 Network Performance Monitoring Management
      7.4.2 Network Traffic Management
      7.4.3 Network Device Management
      7.4.4 Network Configuration Management
      7.4.5 Network Security Management
   7.5 Grid Asset Management
   7.6 Geographic Information System
   7.7 Billing and Customer Information System

8 Smart Grid Management Market Analysis, By Service
   8.1 Introduction
   8.2 Consulting
   8.3 Deployment and Integration
   8.4 Support and Maintenance

9 Geographic Analysis
   9.1 Introduction
   9.2 North America
   9.3 Europe
   9.4 Asia-Pacific
   9.5 Latin America
   9.6 Middle East and Africa

10 Competitive Landscape
   10.1 Overview
   10.2 Competitive Situation and Trends
      10.2.1 Venture Funding
      10.2.2 New Product Launches
      10.2.3 Partnerships, Agreements, and Collaborations
      10.2.4 Business Expansions
      10.2.5 Acquisitions

11 Company Profiles
   11.1 Introduction
   (Business Overview, Products & Services, Key Insights, Recent Developments, SWOT Analysis, Ratio Analysis, MnM View)*
   11.2 Schneider Electric SE
   11.3 Siemens AG
   11.4 ABB Group
   11.5 Cisco Systems, Inc.
   11.6 General Electric Company
11.7 IBM Corporation
11.8 Itron, Inc.
11.9 Landis+Gyr AG
11.10 Oracle Corporation
11.11 Open Systems International

*Details on Business Overview, Products & Services, Key Insights, Recent Developments, SWOT Analysis, MnM View Might Not Be Captured in Case of Unlisted Companies.

12 Appendix
12.1 Excerpts From Industry Experts
12.2 Discussion Guide

List of Tables
Table 1 Smart Grid Market Size and Growth Rate, 2014-2021 (USD Billion, Y-O-Y%)
Table 2 Drivers: Impact Analysis
Table 3 Restraints: Impact Analysis
Table 4 Opportunities: Impact Analysis
Table 5 Challenges: Impact Analysis
Table 6 Smart Grid Market Size, By Solution, 2014-2021, (USD Million)
Table 7 Smart Grid Solution Market Size, By Region, 2014-2021, (USD Million)
Table 8 Advanced Metering Infrastructure Solution Market, By Type, 2014-2021 (USD Million)
Table 9 Advanced Metering Infrastructure Solution Market, By Region, 2014-2021 (USD Million)
Table 10 Meter Data Management Market Size, By Region, 2014-2021 (USD Million)
Table 11 Analytics Market Size, By Region, 2014-2021 (USD Million)
Table 12 Advanced Metering Infrastructure Security Market Size, By Region, 2014-2021 (USD Million)
Table 13 Smart Grid Distribution Management Solution Market Size, By Type, 2014-2021 (USD Million)
Table 14 Smart Grid Distribution Management Solution Market Size, By Region, 2014-2021 (USD Million)
Table 15 Supervisory Control and Data Acquisition Market Size, By Region, 2014-2021 (USD Million)
Table 16 Outage Management Market Size, By Region, 2014-2021 (USD Million)
Table 17 Distributed Energy Resource Management Market Size, By Region, 2014-2021 (USD Million)
Table 18 Demand Response Management Market Size, By Region, 2014-2021 (USD Million)
Table 19 Energy Management Market Size, By Region, 2014-2021 (USD Million)
Table 20 Smart Grid Communication Solution Market Size, By Type, 2014-2021 (USD Million)
Table 21 Smart Grid Communication Solution Market Size, By Region, 2014-2021 (USD Million)
Table 22 Network Performance Monitoring Management Market Size, By Region, 2014-2021 (USD Million)
Table 23 Network Traffic Management Market Size, By Region, 2014-2021 (USD Million)
Table 24 Network Device Management Market Size, By Region, 2014-2021 (USD Million)
Table 25 Network Configuration Management Market Size, By Region, 2014-2021 (USD Million)
Table 26 Network Security Management Market Size, By Region, 2014-2021 (USD Million)
Table 27 Grid Asset Management Solution Market Size, By Region, 2014-2021 (USD Million)
Table 28 Geographic Information System Solution Market Size, By Region, 2014-2021 (USD Million)
Table 29 Billing and Customer Information System Solution Market Size, By Region, 2014-2021 (USD Million)
Table 30 Smart Grid Market Size, By Service, 2014-2021 (USD Million)
Table 31 Smart Grid Service Market Size, By Region, 2014-2021 (USD Million)
Table 32 Consulting Market Size, By Region, 2014-2021 (USD Million)
Table 33 Deployment and Integration Market Size, By Region, 2014-2021 (USD Million)
Table 34 Support and Maintenance Market Size, By Region, 2014-2021 (USD Million)
Table 35 Smart Grid Market Size, By Region, 2014-2021 (USD Million)
Table 36 North America: Smart Grid Market Size, 2014-2021 (USD Million)
Table 37 North America: Solution Market Size, By Solution, 2014-2021 (USD Million)
Table 38 North America: Advanced Metering Infrastructure Market Size, Solution By Type, 2014-2021 (USD Million)
Table 39 North America: Smart Grid Distribution Management Market Size, Solution By Type, 2014-2021 (USD Million)
Table 40 North America: Smart Grid Communication Market Size, Solution By Type, 2014-2021 (USD Million)
Table 41 North America: Smart Grid Market Size, By Service, 2014-2021 (USD Million)
Table 42 Europe: Smart Grid Market Size, 2014-2021 (USD Million)
Table 43 Europe: Smart Grid Market Size, By Solution, 2014-2021 (USD Million)
Table 44 Europe: Advanced Metering Infrastructure Market Size, Solution By Type, 2014-2021 (USD Million)
Table 45 Europe: Smart Grid Distribution Management Market Size, Solution By Type, 2014-2021 (USD Million)
Figure 26 Outage Management Interactive Model
Figure 27 Adoption of Energy Management System Software Market By Different Verticals
Figure 28 Evolution of Smart Grid
Figure 29 North America Would be the Leading Region in Terms of Market Size in 2016
Figure 30 Asia-Pacific and the Middle East & Africa: Hot Spot for the Smart Grid Solution Market, 2016-2021
Figure 31 North America Market Snapshot
Figure 32 Asia-Pacific Market Snapshot
Figure 33 Companies Adopted Partnership, Agreement, and Collaboration as the Key Growth Strategy From 2013 to 2016
Figure 34 Market Evaluation Framework
Figure 35 Battle for Market Share: Companies Adopted Inorganic Growth Strategies to Strengthen Their Market Position
Figure 36 Geographic Revenue Mix of Top Players
Figure 37 ABB Group: Company Snapshot
Figure 38 ABB Group: SWOT Analysis
Figure 39 Cisco Systems, Inc.: Company Snapshot
Figure 40 Cisco Systems, Inc.: SWOT Analysis
Figure 41 General Electric Company: Company Snapshot
Figure 42 General Electric Company: SWOT Analysis
Figure 43 IBM Corporation: Company Snapshot
Figure 44 IBM Corporation: SWOT Analysis
Figure 45 Itron, Inc.: Company Snapshot
Figure 46 Itron, Inc.: SWOT Analysis
Figure 47 Landis+Gyr AG: Company Snapshot
Figure 48 Landis+Gyr AG: SWOT Analysis
Figure 49 Oracle Corporation: Company Snapshot
Figure 50 Oracle Corporation: SWOT Analysis
Figure 51 Open Systems International: SWOT Analysis
Figure 52 Schneider Electric SE: Company Snapshot
Figure 53 Schneider Electric: SWOT Analysis
Figure 54 Siemens AG: Company Snapshot
Figure 55 Siemens AG: SWOT Analysis

Ordering:
Order Online - [http://www.researchandmarkets.com/reports/3782922/](http://www.researchandmarkets.com/reports/3782922/)
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

| Product Name: | Smart Grid Market by Solution (Advanced Metering Infrastructure, Smart Grid Distribution, Smart Grid Communication, Grid Asset Management, Geographic Information System and Billing & Customer Information System), by Service - Global Forecast to 2021 |
| Web Address: | http://www.researchandmarkets.com/reports/3782922/ |
| Office Code: | SCH3NG1R |

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License:</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS:

| Title: | Mr ☐ Mrs ☐ Dr ☐ Miss ☐ Ms ☐ Prof ☐ |
| First Name: | ___________________________ | Last Name: | ___________________________ |
| Email Address: * | ___________________________ |
| Job Title: | ___________________________ |
| Organisation: | ___________________________ |
| Address: | ___________________________ |
| City: | ___________________________ |
| Postal / Zip Code: | ___________________________ |
| Country: | ___________________________ |
| Phone Number: | ___________________________ |
| Fax Number: | ___________________________ |

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp