Energy Management System (EMS) Market by Software (Utility, Industrial, Residential, ECEM), Device (In-House Display, Smart Thermostat, Smart Plug, and Load Control Switches), Application, Solution, Vertical - Global Forecast to 2021

Description:

“Mandatory regulations and policies for energy management and government’s initiatives for digitization of energy infrastructure across the globe are some of the factors expected to drive the Energy Management System (EMS) market”

The EMS market size is estimated to grow from USD 32.41 billion in 2016 to USD 76.75 billion by 2021, at a Compound Annual Growth Rate (CAGR) of 18.8% due to the mandatory regulations and policies, need for centralized energy management and control, increasing demand for home energy management and building energy management solutions, and increasing concern for reducing carbon footprints.

“Office and commercial building sector is estimated to be the fastest-growing market segment”

The major industries implementing EMS are power and energy, telecom and IT, office and commercial buildings, and manufacturing sectors. The manufacturing sector is the top revenue generating industry vertical for the EMS market. The offices and commercial building sector is expected to show the highest growth rate during the forecast period due to increasing awareness for carbon footprint management, advantages of building automation technology, tax benefits for energy efficiency certification in this sector.

“North America is estimated to have the largest market share during the overall forecast period”

North America is expected to hold the largest share of the EMS market in 2016 due to the region being technologically advanced and the increasing spending on energy efficiency programs along 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 and regional government spending for digitization of energy infrastructure in China, Japan, and India, 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 (49%), Tier-2 (30%), and Tier-3 (21%) companies
- By Designation: C-level (57%) and Manager Level (43%)
- By Region: North America (48%), Europe (26%), APAC (21%), and Rest of World (5%)

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

- ABB (Switzerland)
- Cisco System Inc (U.S.)
- International Business Machine Corporation (U.S.)
- Honeywell International (U.S.)
- Schneider Electric SE (France)
- CA Technologies (U.S.)
- Eaton Corporation (U.S.)
- Emerson Process Management (U.S.)
- General Electric Company (U.S.)
- Siemens AG (Germany)

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

- 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.
- The report helps the stakeholders understand the pulse of the market and provide them information on key market drivers, restraints, challenges, and opportunities.
- 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 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 Market
   4.2 Energy Management System Market, By Region
   4.3 Energy Management System Software Market Snapshot
   4.4 Lifecycle Analysis, By Region 2016
   4.5 Energy Management System Market By Type, 2016

5 Market Overview
   5.1 Introduction
   5.2 Market Segmentation
      5.2.1 By Software
      5.2.2 By Device
      5.2.3 By Application
      5.2.4 By Solution
      5.2.5 By Vertical
      5.2.6 By Region
   5.3 Market Dynamics
      5.3.1 Drivers
      5.3.1.1 Rising Energy Consumption and Price Volatility
      5.3.1.2 Mandatory Regulations and Policies
      5.3.1.3 Increasing Awareness About Carbon Footprint Management
      5.3.1.4 Growing Inclination Towards Efficient Energy Management
      5.3.1.5 Inclination Towards Corporate Responsibility and Brand Image
      5.3.2 Restraints
      5.3.2.1 High Initial Cost of Deployment
      5.3.2.2 Non-Standardized Guidelines
5.3.2.3 Lack of Financial Resources
5.3.2.4 Long Period of Return on Investment for Energy-Intensive Industries
5.3.3 Opportunities
5.3.3.1 Modernization of Aging Infrastructure
5.3.3.2 Up-Coming Smart Cities Projects in Developing Economies
5.3.3.3 High Demand in Growing Economies
5.3.3.4 Integration of Energy Management Systems With Smart Devices
5.3.3.5 Exemption From Energy and Carbon Tax Policies for the Commercial and Industrial Sector
5.3.3.6 Growth Opportunities in the Home Energy Management Segment
5.3.4 Challenges
5.3.4.1 Structuring of Initial Data Gathered
5.3.4.2 Providing Business Intelligence Through Analytics

6 Energy Management System Market: Industry Trends
6.1 Introduction
6.2 Energy Management System Ecosystem
6.3 Vendor Portfolio Analysis
6.4 Strategic Benchmarking
6.5 Energy Management Standards and Certification

7 Energy Management System Market Analysis, By Software
7.1 Introduction
7.2 Utility Energy Management System
7.3 Industrial Energy Management System
7.4 Enterprise Carbon and Energy Management
7.5 Residential Energy Management System
7.6 Others

8 Energy Management System Market Analysis, By Device
8.1 Introduction
8.2 In-House Display
8.3 Smart Thermostats
8.4 Load Control Switches
8.5 Smart Plugs

9 Energy Management System Market Analysis, By Application
9.1 Introduction
9.2 Home Energy Management System
9.3 Building Energy Management System
9.3.1 BEMS Software
9.3.2 BEMS Detectors and Controls

10 Energy Management System Market Analysis, By Solution
10.1 Introduction
10.2 Carbon Management System
10.3 Demand Response Management
10.4 Utility Billing and Customer Information System

11 Energy Management System Market Analysis, By Vertical
11.1 Introduction
11.2 Power and Energy (P&E)
11.3 Telecom and IT
11.4 Manufacturing
11.5 Office and Commercial Building
11.6 Municipal, University, School, and Hospital System

12 Geographic Analysis
12.1 Introduction
12.2 North America
12.3 Europe
12.4 Asia-Pacific (APAC)
12.5 Latin America
12.6 Middle East and Africa
13 Competitive Landscape
13.1 Overview
13.2 Competitive Situation & Trends
13.3 Venture Funding, 2013-2015
13.4 Partnerships, Agreements, Joint Ventures, & Collaborations, 2013-2016
13.5 New Product Launches, 2013-2016
13.6 Mergers & Acquisitions, 2013-2016

14 Company Profiles
14.1 Introduction
14.2 Asea Brown Boveri (ABB) Ltd.
14.3 Cisco Systems, Inc.
14.4 General Electric Company
14.5 Honeywell International, Inc.
14.6 International Business Machine Corporation
14.7 Schneider Electric SE
14.8 Siemens AG
14.9 Emerson Electric Company
14.10 CA Technologies
14.11 Eaton Corporation PLC

List of Tables
Table 1 Energy Management System Market Size and Growth Rate, 2014-2021 (USD Million, 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 Energy Management System Market Size, By Software, 2014-2021 (USD Million)
Table 7 Energy Management System Software Market Size, By Region, 2014-2021 (USD Million)
Table 8 Utility EMS: Market Size, By Region, 2014-2021 (USD Million)
Table 9 Industrial EMS: Market Size, By Region, 2014-2021 (USD Million)
Table 10 Enterprise Carbon and Energy Management: Market Size, By Region, 2014-2021 (USD Million)
Table 11 Residential EMS: Market Size, By Region, 2014-2021 (USD Million)
Table 12 Other Market Size, By Region, 2014-2021 (USD Million)
Table 13 Energy Management System Market Size, By Device, 2014-2021 (USD Million)
Table 14 Device: Market Size, By Region, 2014-2021 (USD Million)
Table 15 Energy Management System Unit Shipment Market Size, By Device, 2014-2021 (Thousand Units)
Table 16 Device: Energy Management Systems Device Unit Shipment Market Size, By Region, 2014-2021 (Thousand Units)
Table 17 In-House Display: Energy Management System Unit Shipment Market Size, By Region, 2014-2021 (Thousand Units)
Table 18 In-House Display: Market Size, By Region, 2014-2021 (USD Million)
Table 19 Smart Thermostats: Energy Management System Unit Shipment Market Size, By Region, 2014-2021 (Thousand Units)
Table 20 Smart Thermostats: Market Size, By Region, 2014-2021 (USD Million)
Table 21 Load Control Switches: Energy Management System Unit Shipment Market Size, By Region, 2014-2021 (Thousand Units)
Table 22 Load Control Switches: Market Size, By Region, 2014-2021 (USD Million)
Table 23 Smart Plugs: Energy Management System Unit Shipment Market Size, By Region, 2014-2021 (Thousand Units)
Table 24 Smart Plugs: Market Size, By Region, 2014-2021 (USD Million)
Table 25 Energy Management System Market Size, By Application, 2014-2021 (USD Million)
Table 26 Application: Market Size, By Region, 2014-2021 (USD Million)
Table 27 Home Energy Management System: Market Size, By Region, 2014-2021 (USD Million)
Table 28 Building Energy Management System: Market Size, By Type, 2014-2021 (USD Million)
Table 29 Building Energy Management System: Market Size, By Region, 2014-2021 (USD Million)
Table 30 Building Energy Management System Software: Market Size, By Region, 2014-2021 (USD Million)
Table 31 BEMS Detectors and Controls: Market Size, By Region, 2014-2021 (USD Million)
Table 32 Energy Management System Market Size, By Solution, 2014-2021 (USD Million)
Table 33 Solution: Market Size, By Region, 2014-2021 (USD Million)
Table 34 Carbon Management System: Market Size, By Region, 2014-2021 (USD Million)
Table 35 Demand Response Management: Market Size, By Region, 2014-2021 (USD Million)
Table 36 Utility Billing and Customer Information System: Market Size, By Region, 2014-2021 (USD Million)
Table 37 Energy Management System Market Size, By Vertical, 2014-2021 (USD Million)
Table 38 Energy Management System Vertical Market Size, By Region, 2014-2021 (USD Million)
Table 39 Power and Energy: Market Size, By Region, 2014-2021 (USD Million)
Table 40 Telecom and IT: Market Size, By Region, 2014-2021 (USD Million)
Table 41 Manufacturing: Market Size, By Region, 2014-2021 (USD Million)
Table 42 Office and Commercial Building: Market Size, By Region, 2014-2021 (USD Million)
Table 43 Municipal, University, School and Hospital System: Market Size, By Region, 2014-2021 (USD Million)
Table 44 Energy Management System Market Size, By Region, 2014-2021 (USD Million)
Table 45 Asia-Pacific: Hot Spot for Market, 2016-2021
Table 46 North America: Market Size, By Type, 2014-2021 (USD Million)
Table 47 North America: Market Size, By Software, 2014-2021 (USD Million)
Table 48 North America: Market Size, By Device, 2014-2021 (USD Million)
Table 49 North America: Market Size, By Solution, 2014-2021 (USD Million)
Table 50 Europe: Energy Management System Market Size, By Type, 2014-2021 (USD Million)
Table 51 Europe: Market Size, By Software, 2014-2021 (USD Million)
Table 52 Europe: Market Size, By Device, 2014-2021 (USD Million)
Table 53 Europe: Market Size, By Solution, 2014-2021 (USD Million)
Table 54 Asia-Pacific: Energy Management System Market Size, By Type 2014-2021 (USD Million)
Table 55 Asia-Pacific: Market Size, By Software, 2014-2021 (USD Million)
Table 56 Asia-Pacific: Market Size, By Device, 2014-2021 (USD Million)
Table 57 Asia-Pacific: Market Size, By Solution, 2014-2021 (USD Million)
Table 58 Latin America: Energy Management System Market Size, By Type, 2014-2021 (USD Million)
Table 59 Latin America: Market Size, By Software, 2014-2021 (USD Million)
Table 60 Latin America: Market Size, By Device, 2014-2021 (USD Million)
Table 61 Latin America: Market Size, By Solution, 2014-2021 (USD Million)
Table 62 Middle East and Africa: Market Size, By Type, 2014-2021 (USD Million)
Table 63 Middle East and Africa: Market Size, By Software, 2014-2021 (USD Million)
Table 64 Middle East and Africa: Market Size, By Device, 2014-2021 (USD Million)
Table 65 Middle East and Africa: Market Size, By Solution, 2014-2021 (USD Million)
Table 66 Venture Funding, 2013-2015
Table 67 Partnerships, Agreements, Joint Ventures, & Collaborations, 2013-2016
Table 68 New Product Launches, 2013-2016
Table 69 Mergers & Acquisitions, 2013-2016
Table 70 Business Expansions, 2013-2015

List of Figures
Figure 1 Global Energy Management System Market: Research Design
Figure 2 Research Methodology
Figure 3 Market Size Estimation: Bottom-Up Approach
Figure 4 Market Size Estimation: Top-Down Approach
Figure 5 Market Breakdown and Data Triangulation
Figure 6 Market Size and Growth Rate, 2014-2021 (USD Billion, Y-O-Y %)
Figure 7 North America is Expected to Hold the Largest Market Share in 2016
Figure 8 Fastest-Growing Segments of the Energy Management System Market
Figure 9 Increasing Demand for Energy Efficient Solutions for Commercial and Residential Sector is Driving Market Growth
Figure 10 Asia-Pacific is Expected to Exhibit the Highest CAGR During the Forecast Period
Figure 11 Utility Energy Management System Software is Expected to Hold the Largest Market Share During the Forecast Period
Figure 12 Solutions Segment is Expected to Hold the Largest Market Share
Figure 13 Smart Thermostat is Expected to Hold the Highest Shipment in 2016
Figure 14 Energy Management System Market Segmentation: By Software
Figure 15 Market Segmentation By Device
Figure 16 Market Segmentation By Application
Figure 17 Market Segmentation By Solution
Figure 18 Market Segmentation By Vertical
Figure 19 Market Segmentation By Region
Figure 20 Market Drivers, Restraints, Opportunities, and Challenges
Figure 21 Energy Management System: Ecosystem Analysis
Figure 22 Vendor Portfolio Analysis
Figure 23 Energy Management System: Strategic Benchmarking
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: Energy Management System (EMS) Market by Software (Utility, Industrial, Residential, ECEM), Device (In-House Display, Smart Thermostat, Smart Plug, and Load Control Switches), Application, Solution, Vertical - Global Forecast to 2021
Web Address: http://www.researchandmarkets.com/reports/4109646/
Office Code: SC2GU2NX

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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Product Format</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF)</td>
<td>Single User</td>
<td>USD 7150</td>
</tr>
<tr>
<td></td>
<td>1 - 5 Users</td>
<td>USD 8500</td>
</tr>
<tr>
<td>Electronic (PDF)</td>
<td>Site License</td>
<td>USD 9650</td>
</tr>
<tr>
<td></td>
<td>Enterprisewide</td>
<td>USD 11000</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

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

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World