

# **Home Energy Management Systems (HEMS) Market Analysis By Technology (Wi-Fi, ZigBee, Wireless M-Bus, HomePlug, Z-Wave), By Component (Enabling Technologies, User Interface, Control Devices) And Segment Forecasts To 2020**

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## **Abstracts**

The global Home Energy Management Systems (HEMS) market is expected to exceed USD 2 billion by 2020. Owing to increasing energy cost coupled with growing environmental concerns, energy management has emerged as a significant priority, which is expected to fuel the HEMS market. The need to conserve and optimize energy utilization is expected to serve as a key market driver. Increased connectivity and widespread adoption of smartphones is also expected to favorably impact the market growth. Energy management products demand has gained momentum over the last few years owing to use of variable pricing schemes offered by service providers. Favorable regulatory initiatives in the U.S. pertaining to energy conservation are expected to propel regional HEMS market growth.

High installation cost coupled with system complexity is expected to pose a challenge to market growth over the forecast period. Lack of consumer awareness regarding home energy management systems and the benefits they offer may also hinder the HEMS market. Technological proliferation along with decreased sensor and display costs, improved device-level information processing capability, and roll-out of smart utility meters provide avenues for market growth.

Further key findings from the study suggest:

Wi-Fi emerged as the dominant segment in 2013; it is expected to continue accounting for considerable market share over the forecast period. ZigBee, a standard for wireless

networks, is expected to be a high growth segment over the forecast period. This can be attributed to its ability to support needs of various utilities, government groups and product manufacturers.

The HEMS market is dominated by control devices and systems; these include thermostats, whole home lighting systems and home automation systems. Enabling technologies are expected to witness high growth over the next six years due to popularity of technologies such as home area network, ZigBee and sensing.

On account of favorable government initiatives and growing need to address issues related to aging infrastructure, North America is expected to emerge as the most dominant regional market over the forecast period. Smart meter mandates by utilities is primarily expected to drive the HEMS market in Europe.

Key market participants include Intel Corporation, Panasonic Corporation, Cisco Systems Inc, General Electric Co. and Honeywell International. Innovations and extensive product development are expected to be the key growth strategies over the forecast period.

For the purpose of this study, Grand View Research has segmented the global HEMS market on the basis of technology, component and region:

#### HEMS Technology Outlook (Revenue, USD Million, 2012 - 2020)

Wi-Fi

ZigBee

Wireless M-Bus

HomePlug

Z-Wave

Others

#### HEMS Component Outlook (Revenue, USD Million, 2012 - 2020)

Enabling Technologies

User Interface

Control Devices

HEMS Regional Outlook (Revenue, USD Million, 2012 - 2020)

North America

Europe

Asia Pacific

RoW

## Contents

### CHAPTER 1 EXECUTIVE SUMMARY

#### 1.1 HEMS- Industry Summary & Critical Success Factors (CSFs)

### CHAPTER 2 HEMS INDUSTRY OUTLOOK

#### 2.1 Market Segmentation

#### 2.2 Market Size and Growth Prospects

#### 2.3 HEMS Value Chain Analysis

#### 2.4 HEMS Market Dynamics

##### 2.4.1 Key Driver Analysis

###### 2.4.1.1 Increased connectivity and growing smartphone applications

###### 2.4.1.2 Demand for optimum energy management

###### 2.4.1.3 Wider use of variable pricing schemes

##### 2.4.2 Key Restraint Analysis

###### 2.4.2.1 Lack of awareness

###### 2.4.2.2 High installation cost and complexity

#### 2.5 Key Opportunities Prioritized

#### 2.6 Industry Analysis - Porter's

#### 2.7 HEMS - Company Market Share Analysis, 2013

#### 2.8 HEMS - PESTEL Analysis

### CHAPTER 3 HEMS TECHNOLOGY OUTLOOK

#### 3.1 Wi-Fi

##### 3.1.1 Global demand, by region, 2012 - 2020 (USD Million)

#### 3.2 ZigBee

##### 3.2.1 Global demand, by region, 2012 - 2020 (USD Million)

#### 3.3 Wireless M-Bus

##### 3.3.1 Global demand, by region, 2012 - 2020 (USD Million)

#### 3.4 HomePlug

##### 3.4.1 Global demand, by region, 2012 - 2020 (USD Million)

#### 3.5 Z-Wave

##### 3.5.1 Global demand, by region, 2012 - 2020 (USD Million)

#### 3.6 Others

##### 3.6.1 Global demand, by region, 2012 - 2020 (USD Million)

## **CHAPTER 4 HEMS COMPONENT OUTLOOK**

### **4.1 Enabling technologies**

#### **4.1.1 Global demand, by region, 2012 - 2020 (USD Million)**

### **4.2 User Interface**

#### **4.2.1 Global demand, by region, 2012 - 2020 (USD Million)**

### **4.3 Control devices**

#### **4.3.1 Global demand, by region, 2012 - 2020 (USD Million)**

## **CHAPTER 5 HEMS REGIONAL OUTLOOK**

### **5.1 North America**

#### **5.1.1 HEMS market by technology, 2012 - 2020 (USD Million)**

#### **5.1.2 HEMS market by component, 2012 - 2020 (USD Million)**

### **5.2 Europe**

#### **5.2.1 HEMS market by technology, 2012 - 2020 (USD Million)**

#### **5.2.2 HEMS market by component, 2012 - 2020 (USD Million)**

### **5.3 Asia Pacific**

#### **5.3.1 HEMS market by technology, 2012 - 2020 (USD Million)**

#### **5.3.2 HEMS market by component, 2012 - 2020 (USD Million)**

### **5.4 RoW**

#### **5.4.1 HEMS market by technology, 2012 - 2020 (USD Million)**

#### **5.4.2 HEMS market by component, 2012 - 2020 (USD Million)**

## **CHAPTER 6 COMPETITIVE LANDSCAPE**

### **6.1 AlertMe**

#### **6.1.1 Company Overview**

#### **6.1.2 Financial Performance**

#### **6.1.3 Product Benchmarking**

#### **6.1.4 Strategic Initiatives**

### **6.2 Cisco Systems Inc.**

#### **6.2.1 Company Overview**

#### **6.2.2 Financial Performance**

#### **6.2.3 Product Benchmarking**

#### **6.2.4 Strategic Initiatives**

### **6.3 Freescale Semiconductor Inc.**

#### **6.3.1 Company Overview**

#### **6.3.2 Financial Performance**

- 6.3.3 Product Benchmarking
- 6.3.4 Strategic Initiatives
- 6.4 General Electric
  - 6.4.1 Company Overview
  - 6.4.2 Financial Performance
  - 6.4.3 Product Benchmarking
  - 6.4.4 Strategic Initiatives
- 6.5 Honeywell International Inc.
  - 6.5.1 Company Overview
  - 6.5.2 Financial Performance
  - 6.5.3 Product Benchmarking
  - 6.5.4 Strategic Initiatives
- 6.6 Intel Corporation.
  - 6.6.1 Company Overview
  - 6.6.2 Financial Performance
  - 6.6.3 Product Benchmarking
  - 6.6.4 Strategic Initiatives
- 6.7 Panasonic Corporation
  - 6.7.1 Company Overview
  - 6.7.2 Financial Performance
  - 6.7.3 Product Benchmarking
  - 6.7.4 Strategic Initiatives
- 6.8 Schneider Electric SA
  - 6.8.1 Company Overview
  - 6.8.2 Financial Performance
  - 6.8.3 Product Benchmarking
  - 6.8.4 Strategic Initiatives
- 6.9 Sharp Corporation
  - 6.9.1 Company Overview
  - 6.9.2 Financial Performance
  - 6.9.3 Product Benchmarking
  - 6.9.4 Strategic Initiatives
- 6.10 Vivint Inc.
  - 6.10.1 Company Overview
  - 6.10.2 Financial Performance
  - 6.10.3 Product Benchmarking
  - 6.10.4 Strategic Initiatives

## **CHAPTER 7 METHODOLOGY AND SCOPE**

7.1 Research Methodology

7.2 Research Scope & Assumption

7.3 List of Data Sources

## List Of Tables

### LIST OF TABLES

1. HEMS– Industry Summary & Critical Success Factors (CSFs)
2. Global HEMS market (USD Million), 2012 - 2020
3. Global HEMS market by region, 2012 - 2020 (USD Million)
4. Global HEMS market by technology, 2012 - 2020 (USD Million)
5. Global HEMS market by component, 2012 - 2020 (USD Million)
6. Global Wi-Fi based HEMS demand, 2012 - 2020 (USD Million)
7. Global Wi-Fi based HEMS demand by region, 2012 - 2020 (USD Million)
8. Global ZigBee based HEMS demand, 2012 - 2020 (USD Million)
9. Global ZigBee based HEMS demand by region, 2012 - 2020 (USD Million)
10. Global Wireless M-Bus based HEMS demand, 2012 - 2020 (USD Million)
11. Global Wireless M-Bus based HEMS demand by region, 2012 - 2020 (USD Million)
12. Global HomePlug based HEMS demand, 2012 - 2020 (USD Million)
13. Global HomePlug based HEMS demand by region, 2012 - 2020 (USD Million)
14. Global Z-Wave based HEMS demand, 2012 - 2020 (USD Million)
15. Global Z-Wave based HEMS demand by region, 2012 - 2020 (USD Million)
16. Global other technology based HEMS demand, 2012 - 2020 (USD Million)
17. Global other technology based HEMS demand by region, 2012 - 2020 (USD Million)
18. Global demand for enabling technologies, 2012 - 2020 (USD Million)
19. Global demand for enabling technologies by region, 2012 - 2020 (USD Million)
20. Global demand for user interface, 2012 - 2020 (USD Million)
21. Global demand for user interface by region, 2012 - 2020 (USD Million)
22. Global demand for control devices, 2012 - 2020 (USD Million)
23. Global demand for control devices by region, 2012 - 2020 (USD Million)
24. North America HEMS market by technology, 2012 - 2020 (USD Million)
25. North America HEMS market by component, 2012 - 2020 (USD Million)
26. Europe HEMS market by technology, 2012 - 2020 (USD Million)
27. Europe HEMS market by component, 2012 - 2020 (USD Million)
28. Asia Pacific HEMS market by technology, 2012 - 2020 (USD Million)
29. Asia Pacific HEMS market by component, 2012 - 2020 (USD Million)
30. RoW HEMS market by technology, 2012 - 2020 (USD Million)
31. RoW HEMS market by component, 2012 - 2020 (USD Million)



## List Of Figures

### LIST OF FIGURES

1. HEMS Market Segmentation
2. Global HEMS market, 2012 - 2020 (USD Million)
3. HEMS value chain analysis
4. HEMS market dynamics
5. HEMS - Company market share analysis, 2013
6. Key Opportunities Prioritized
7. Industry Analysis - Porter's
8. HEMSPESTEL Analysis, 2013
9. HEMS market share by technology, 2013 & 2020
10. Global Wi-Fi based HEMS demand, 2012 - 2020 (USD Million)
11. Global ZigBee based HEMS demand, 2012 - 2020 (USD Million)
12. Global Wireless M-Bus based HEMS demand, 2012 - 2020 (USD Million)
13. Global HomePlug based HEMS demand, 2012 - 2020 (USD Million)
14. Global Z-Wave based HEMS demand, 2012 - 2020 (USD Million)
15. Global other technology based HEMS demand, 2012 - 2020 (USD Million)
16. HEMS market share by component, 2013 & 2020
17. Global demand for enabling technologies, 2012 - 2020 (USD Million)
18. Global demand for user interface, 2012 - 2020 (USD Million)
19. Global demand for control devices, 2012 - 2020 (USD Million)
20. HEMS market share by region, 2013 & 2020
21. North America HEMS market, by technology, 2012 - 2020 (USD Million)
22. North America HEMS market, by component, 2012 - 2020 (USD Million)
23. Europe HEMS market, by technology, 2012 - 2020 (USD Million)
24. Europe HEMS market, by component, 2012 - 2020 (USD Million)
25. Asia Pacific HEMS market, by technology, 2012 - 2020 (USD Million)
26. Asia Pacific HEMS market, by component, 2012 - 2020 (USD Million)
27. RoW HEMS market, by technology, 2012 - 2020 (USD Million)
28. RoW HEMS market, by component, 2012 - 2020 (USD Million)

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