

Smart Grid Sensors Market by Sensor (Voltage and Temperature Sensors, Outage Detection, and Others), Application (Advanced Metering Infrastructure, Smart Grid Distribution Management, Supervisory Control and Data Acquisition, Smart Energy Meter, and Others) and Region 2023-2028

<https://marketpublishers.com/r/S44728F78369EN.html>

Date: July 2023

Pages: 143

Price: US\$ 2,499.00 (Single User License)

ID: S44728F78369EN

Abstracts

Market Overview:

The global smart grid sensors market size reached US\$ 339.7 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 885.6 Million by 2028, exhibiting a growth rate (CAGR) of 14.09% during 2023-2028. The growing demand for energy, the development of advanced smart grid sensors with improved capabilities, the implementation of various government initiatives, and extensive research and development (R&D) activities represent some of the key factors driving the market.

Smart grid sensors are devices that are deployed within a smart grid infrastructure to monitor and manage various aspects of the electrical grid. They are widely used to measure a range of parameters such as voltage, frequency, temperature, humidity, current, power flow, and temperature. In addition, smart grid sensors are equipped with real-time data collection, wireless or wired communication, data storage, and advanced analytics capabilities. They are small and lightweight nodes that enable utilities to monitor and manage the grid more efficiently, improve reliability, detect and respond to issues promptly, and enhance overall grid performance. As a result, smart grid sensors are extensively used in advanced metering infrastructure, smart grid distribution management, supervisory control and data acquisition, and smart energy meters.

Smart Grid Sensors Market Trends:

The growing demand for energy coupled with an increasing focus on power quality is one of the key factors driving the market growth. Smart grid sensors are widely used to optimize distribution, ensure reliable electricity supply, address power quality issues, and monitor accurate and real-time data on voltage and current. In line with this, the widespread product adoption to enable advanced monitoring and control capabilities in renewable energy sources, such as solar and wind, is favoring the market growth. Moreover, several countries are investing in upgrading aging power infrastructure by implementing smart grid technologies, which in turn is contributing to the market growth. Apart from this, the development of advanced smart grid sensors with improved capabilities, such as enhanced accuracy, reliability, and cost-effectiveness, are providing an impetus to the market growth. Furthermore, the launch of miniaturized smart grid sensors that are easy to install in compact spaces and enables their integration into various devices and equipment, such as smart meters, distribution transformers, and power lines, is positively influencing the market growth. Additionally, the widespread product adoption that allows early detection of faults, rapid response to grid disturbances, and predictive maintenance, owing to the increasing frequency of extreme weather events and the threat of cyberattacks, grid resilience, and reliability are providing a considerable boost to the market growth. Other factors, including an enhanced focus on research and development (R&D) activities, growing smart city initiatives, and the implementation of various government regulations to promote the installation of smart grid sensors to improve efficiency, reduce energy waste, and improve reliability, are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global smart grid sensors market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on sensor and application.

Sensor Insights:

Voltage and Temperature Sensors

Outage Detection

Others

The report has provided a detailed breakup and analysis of the smart grid sensors market based on the sensor. This includes voltage and temperature sensors, outage detection, and others. According to the report, voltage and temperature sensors

represented the largest segment.

Application Insights:

- Advanced Metering Infrastructure
- Smart Grid Distribution Management
- Supervisory Control and Data Acquisition
- Smart Energy Meter
- Others

The report has provided a detailed breakup and analysis of the smart grid sensors market based on the application. This includes advanced metering infrastructure, smart grid distribution management, supervisory control and data acquisition, smart energy meter, and others. According to the report, smart energy meter represented the largest segment.

Regional Insights:

- North America
 - United States
 - Canada
- Asia Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom
 - Italy
 - Spain
 - Russia
 - Others
- Latin America
 - Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest market for smart grid sensors. Some of the factors driving the Asia Pacific smart grid sensors market included the increasing demand for energy, growing smart city initiatives, and the rising focus on power quality.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global smart grid sensors market. Detailed profiles of all major companies have been provided. Some of the companies covered include Aclara Technologies LLC (Hubbell Incorporated), Eaton Corporation plc, GIPRO GmbH, Itron Inc., Landis+Gyr AG, S & C Electric Company, Schneider Electric SE, Sentient Energy Inc. (Koch Engineered Solutions), etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global smart grid sensors market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global smart grid sensors market?

What is the impact of each driver, restraint, and opportunity on the global smart grid sensors market?

What are the key regional markets?

Which countries represent the most attractive smart grid sensors market?

What is the breakup of the market based on the sensor?

Which is the most attractive sensor in the smart grid sensors market?

What is the breakup of the market based on the application?

Which is the most attractive application in the smart grid sensors market?

What is the competitive structure of the global smart grid sensors market?

Who are the key players/companies in the global smart grid sensors market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL SMART GRID SENSORS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY SENSOR

- 6.1 Voltage and Temperature Sensors
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Outage Detection
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Others

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Advanced Metering Infrastructure

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Smart Grid Distribution Management

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Supervisory Control and Data Acquisition

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Smart Energy Meter

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Others

7.5.1 Market Trends

7.5.2 Market Forecast

8 MARKET BREAKUP BY REGION

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

- 8.2.3.2 Market Forecast
- 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

9.1 Overview

9.2 Drivers

9.3 Restraints

9.4 Opportunities

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 Aclara Technologies LLC (Hubbell Incorporated)

13.3.1.1 Company Overview

13.3.1.2 Product Portfolio

- 13.3.1.3 SWOT Analysis
- 13.3.2 Eaton Corporation plc
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.2.3 Financials
 - 13.3.2.4 SWOT Analysis
- 13.3.3 GIPRO GmbH
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
- 13.3.4 Itron Inc.
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.4.3 Financials
 - 13.3.4.4 SWOT Analysis
- 13.3.5 Landis+Gyr AG
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
- 13.3.6 S & C Electric Company
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
 - 13.3.6.3 SWOT Analysis
- 13.3.7 Schneider Electric SE
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.7.3 Financials
 - 13.3.7.4 SWOT Analysis
- 13.3.8 Sentient Energy Inc. (Koch Engineered Solutions)
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Smart Grid Sensors Market: Key Industry Highlights, 2022 & 2028

Table 2: Global: Smart Grid Sensors Market Forecast: Breakup by Sensor (in Million US\$), 2023-2028

Table 3: Global: Smart Grid Sensors Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Smart Grid Sensors Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 5: Global: Smart Grid Sensors Market: Competitive Structure

Table 6: Global: Smart Grid Sensors Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Smart Grid Sensors Market: Major Drivers and Challenges
- Figure 2: Global: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017-2022
- Figure 3: Global: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 4: Global: Smart Grid Sensors Market: Breakup by Sensor (in %), 2022
- Figure 5: Global: Smart Grid Sensors Market: Breakup by Application (in %), 2022
- Figure 6: Global: Smart Grid Sensors Market: Breakup by Region (in %), 2022
- Figure 7: Global: Smart Grid Sensors (Voltage and Temperature Sensors) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 8: Global: Smart Grid Sensors (Voltage and Temperature Sensors) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 9: Global: Smart Grid Sensors (Outage Detection) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 10: Global: Smart Grid Sensors (Outage Detection) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 11: Global: Smart Grid Sensors (Other Sensors) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 12: Global: Smart Grid Sensors (Other Sensors) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 13: Global: Smart Grid Sensors (Advanced Metering Infrastructure) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 14: Global: Smart Grid Sensors (Advanced Metering Infrastructure) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 15: Global: Smart Grid Sensors (Smart Grid Distribution Management) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 16: Global: Smart Grid Sensors (Smart Grid Distribution Management) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 17: Global: Smart Grid Sensors (Supervisory Control and Data Acquisition) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 18: Global: Smart Grid Sensors (Supervisory Control and Data Acquisition) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 19: Global: Smart Grid Sensors (Smart Energy Meter) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 20: Global: Smart Grid Sensors (Smart Energy Meter) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Smart Grid Sensors (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Smart Grid Sensors (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: North America: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: North America: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: United States: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: United States: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Canada: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Canada: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Asia-Pacific: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Asia-Pacific: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: China: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: China: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Japan: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Japan: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: India: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: India: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: South Korea: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: South Korea: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Australia: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Australia: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Indonesia: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Indonesia: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Others: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Others: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Europe: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Europe: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Germany: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Germany: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: France: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: France: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: United Kingdom: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: United Kingdom: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Italy: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Italy: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Spain: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Spain: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Russia: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Russia: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Others: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Others: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Latin America: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Latin America: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Brazil: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Brazil: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Mexico: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Mexico: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Others: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Others: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Middle East and Africa: Smart Grid Sensors Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Middle East and Africa: Smart Grid Sensors Market: Breakup by Country (in %), 2022

Figure 71: Middle East and Africa: Smart Grid Sensors Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Global: Smart Grid Sensors Industry: Drivers, Restraints, and Opportunities

Figure 73: Global: Smart Grid Sensors Industry: Value Chain Analysis

Figure 74: Global: Smart Grid Sensors Industry: Porter's Five Forces Analysis

I would like to order

Product name: Smart Grid Sensors Market by Sensor (Voltage and Temperature Sensors, Outage Detection, and Others), Application (Advanced Metering Infrastructure, Smart Grid Distribution Management, Supervisory Control and Data Acquisition, Smart Energy Meter, and Others) and Region 2023-2028

Product link: <https://marketpublishers.com/r/S44728F78369EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S44728F78369EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970