

Smart Grid Security Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global smart grid security market size reached US\$ 8.1 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 15.9 Billion by 2028, exhibiting a growth rate (CAGR) of 11.9% during 2023-2028.

Smart grid security refers to various solutions and services that are used to secure smart power grids, communications and information technology (IT) systems. It ensures that there is efficient, reliable, cost-effective and clean distribution of energy throughout the grid. It consists of advanced components and control methods and integrated communications systems with improved interfaces for measurement and sensing. It employs various technological solutions, such as antivirus, antimalware, firewalls, identity and access management (IAM), encryption, intrusion detection and data loss prevention (DLP) systems. Various subsystems, including Industrial Control System (ICS), advanced metering infrastructure and home energy management systems, are also used to ensure efficient smart grid security.

The rising demand for electricity and power generation in both developed and developing countries, and the increasing incidences of cyberattacks, currently represent as the key factors driving the growth of the market. This has led to the widespread adoption of smart grid security systems to secure communications and smart grid deployments. Furthermore, increasing utilization of cloud- and web-based applications across various industrial sectors is also providing a boost to the market growth. Consumers are implementing these security solutions with their connected devices to safeguard the home area network (HAN) and ensure the privacy and protection of data. Additionally, various technological advancements, such as the integration of Supervisory Control and Data Acquisition (SCADA) systems with the Internet of Things

(IoT), are creating a positive outlook for the market. Other factors, including rapid urbanization, along with the implementation of favorable government initiatives to digitize the power sector with smart grid technologies, are projected to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global smart grid security market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component, subsystem, deployment type and security type.

Breakup by Component:

- Solution
- Encryption
- Antivirus and Antimalware
- Identity and Access Management (IAM)
- Firewall
- Others
- Services
- Managed Services
- Professional Services
- Others

Breakup by Subsystem:

- Demand Response System
- Supervisory Control and Data Acquisition (SCADA)/ Industrial Control System (ICS)
- Home Energy Management System
- Advanced Metering Infrastructure
- Others

Breakup by Deployment Type:

- Cloud-based
- On-premise

Breakup by Security Type:

Endpoint Security
Application Security
Database Security
Network Security
Others

Breakup by Region:

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

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being AlertEnterprise Inc., BAE Systems, Broadcom Inc., Cisco Systems Inc., Honeywell International Inc., International Business Machines Corporation, Leidos, Lockheed Martin Corporation, N-Dimension Solutions Inc. (IPKeys Power Partners

LLC), Siemens Aktiengesellschaft, Sophos Ltd. (Thoma Bravo LLC), etc.

Key Questions Answered in This Report

1. What was the size of the global smart grid security market in 2022?
2. What is the expected growth rate of the global smart grid security market during 2023-2028?
3. What are the key factors driving the global smart grid security market?
4. What has been the impact of COVID-19 on the global smart grid security market?
5. What is the breakup of the global smart grid security market based on the component?
6. What is the breakup of the global smart grid security market based on the subsystem?
7. What is the breakup of the global smart grid security market based on the deployment type?
8. What is the breakup of the global smart grid security market based on the security type?
9. What are the key regions in the global smart grid security market?
10. Who are the key players/companies in the global smart grid security 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 SECURITY MARKET

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

6 MARKET BREAKUP BY COMPONENT

- 6.1 Solution
 - 6.1.1 Market Trends
 - 6.1.2 Major Types
 - 6.1.2.1 Encryption
 - 6.1.2.2 Antivirus and Antimalware
 - 6.1.2.3 Identity and Access Management (IAM)
 - 6.1.2.4 Firewall

- 6.1.2.5 Others
- 6.1.3 Market Forecast
- 6.2 Services
 - 6.2.1 Market Trends
 - 6.2.2 Major Types
 - 6.2.2.1 Managed Services
 - 6.2.2.2 Professional Services
 - 6.2.2.3 Others
 - 6.2.3 Market Forecast

7 MARKET BREAKUP BY SUBSYSTEM

- 7.1 Demand Response System
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Supervisory Control and Data Acquisition (SCADA)/ Industrial Control System (ICS)
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Home Energy Management System
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Advanced Metering Infrastructure
 - 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 DEPLOYMENT TYPE

- 8.1 Cloud-based
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 On-premise
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY SECURITY TYPE

- 9.1 Endpoint Security
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Application Security
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Database Security
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 9.4 Network Security
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 9.5 Others
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast

10 MARKET BREAKUP BY REGION

- 10.1 North America
 - 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
 - 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
- 10.2 Asia Pacific
 - 10.2.1 China
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 South Korea
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
 - 10.2.5 Australia

- 10.2.5.1 Market Trends
- 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
- 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends

- 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 AlertEnterprise Inc.
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.2 BAE Systems
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.2.3 Financials
 - 14.3.2.4 SWOT Analysis
 - 14.3.3 Broadcom Inc.

- 14.3.3.1 Company Overview
- 14.3.3.2 Product Portfolio
- 14.3.3.3 Financials
- 14.3.3.4 SWOT Analysis
- 14.3.4 Cisco Systems Inc.
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
 - 14.3.4.4 SWOT Analysis
- 14.3.5 Honeywell International Inc.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
- 14.3.6 International Business Machines Corporation
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
 - 14.3.6.4 SWOT Analysis
- 14.3.7 Leidos
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 Lockheed Martin Corporation
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 N-Dimension Solutions Inc (IPKeys Power Partners LLC)
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 Siemens Aktiengesellschaft
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Sophos Ltd (Thoma Bravo LLC)
 - 14.3.11.1 Company Overview

14.3.11.2 Product Portfolio

14.3.11.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: Smart Grid Security Market: Key Industry Highlights, 2022 and 2028

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

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

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

Table 5: Global: Smart Grid Security Market Forecast: Breakup by Security Type (in Million US\$), 2023-2028

Table 6: Global: Smart Grid Security Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Smart Grid Security Market Structure

Table 8: Global: Smart Grid Security Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Smart Grid Security Market: Major Drivers and Challenges
- Figure 2: Global: Smart Grid Security Market: Sales Value (in Billion US\$), 2017-2022
- Figure 3: Global: Smart Grid Security Market: Breakup by Component (in %), 2022
- Figure 4: Global: Smart Grid Security Market: Breakup by Subsystem (in %), 2022
- Figure 5: Global: Smart Grid Security Market: Breakup by Deployment Type (in %), 2022
- Figure 6: Global: Smart Grid Security Market: Breakup by Security Type (in %), 2022
- Figure 7: Global: Smart Grid Security Market: Breakup by Region (in %), 2022
- Figure 8: Global: Smart Grid Security Market Forecast: Sales Value (in Billion US\$), 2023-2028
- Figure 9: Global: Smart Grid Security (Solution) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 10: Global: Smart Grid Security (Solution) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 11: Global: Smart Grid Security (Services) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 12: Global: Smart Grid Security (Services) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 13: Global: Smart Grid Security (Demand Response System) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 14: Global: Smart Grid Security (Demand Response System) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 15: Global: Smart Grid Security (Supervisory Control and Data Acquisition (SCADA)/ Industrial Control System) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 16: Global: Smart Grid Security (Supervisory Control and Data Acquisition (SCADA)/ Industrial Control System) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 17: Global: Smart Grid Security (Home Energy Management System) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 18: Global: Smart Grid Security (Home Energy Management System) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 19: Global: Smart Grid Security (Advanced Metering Infrastructure) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 20: Global: Smart Grid Security (Advanced Metering Infrastructure) Market Forecast: Sales Value (in Million US\$), 2023-2028

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

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

Figure 23: Global: Smart Grid Security (Cloud-based) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Smart Grid Security (Cloud-based) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Smart Grid Security (On-premise) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Smart Grid Security (On-premise) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Smart Grid Security (Endpoint Security) Market: Sales Value (in Million US\$), 2017 & 2022

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

Figure 29: Global: Smart Grid Security (Application Security) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Smart Grid Security (Application Security) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Smart Grid Security (Database Security) Market: Sales Value (in Million US\$), 2017 & 2022

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

Figure 33: Global: Smart Grid Security (Network Security) Market: Sales Value (in Million US\$), 2017 & 2022

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

Figure 35: Global: Smart Grid Security (Other Security Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Global: Smart Grid Security (Other Security Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: North America: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: North America: Smart Grid Security Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: United States: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: United States: Smart Grid Security Market Forecast: Sales Value (in Million

US\$), 2023-2028

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

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

Figure 43: Asia Pacific: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

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

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

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

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

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

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

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

Figure 51: South Korea: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: South Korea: Smart Grid Security Market Forecast: Sales Value (in Million US\$), 2023-2028

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

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

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

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

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

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

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

Figure 60: Europe: Smart Grid Security Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 61: Germany: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

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

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

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

Figure 65: United Kingdom: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

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

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

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

Figure 69: Spain: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Spain: Smart Grid Security Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Russia: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Russia: Smart Grid Security Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Others: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Others: Smart Grid Security Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Latin America: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Latin America: Smart Grid Security Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Brazil: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Brazil: Smart Grid Security Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Mexico: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 80: Mexico: Smart Grid Security Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 81: Others: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 82: Others: Smart Grid Security Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Middle East and Africa: Smart Grid Security Market: Sales Value (in Million US\$), 2017 & 2022

Figure 84: Middle East and Africa: Smart Grid Security Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 85: Global: Smart Grid Security Industry: SWOT Analysis

Figure 86: Global: Smart Grid Security Industry: Value Chain Analysis

Figure 87: Global: Smart Grid Security Industry: Porter's Five Forces Analysis

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