

Global Energy Security Market Size study & Forecast, by Component (Solution, Service), by Technology (Physical Security, Network Security), by Power Plant (Thermal and hydro, Nuclear, Oil and gas, Renewable Energy), and Regional Analysis, 2023-2030

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Abstracts

Global Energy Security Market is valued at approximately USD 17.2 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 10.5% during the forecast period 2023-2030. Energy security encompasses safeguarding both power plants and the sources of energy generation against physical and cyber threats to ensure the uninterrupted operation of power generation facilities. Furthermore, the swift implementation of renewable energy, heightened energy efficiency, and the diversification of energy sources, storage solutions, and types of energy machinery can yield substantial benefits in terms of both energy security and economic outcomes.

Heightened government pressures, security compliance requirements, and regulations are driving innovation that integrates scripting, knowledge, and execution. The amalgamation of technical skills has markedly enhanced the efficiency of back-office tasks. Simultaneously, various government agencies and power plant owners are implementing a range of network and physical solutions, including detectors, perimeters, microwave intrusion detection, secure communications, surveillance systems, and access control systems. For example, both the United States and the European Commission are committed to diminishing Europe's dependence on Russian energy while expediting the global transition to clean energy. Additionally, the anticipated adoption of network systems such as antivirus, firewall, SCADA, and IPS/IDS over the next seven years is poised to accelerate the growth of the energy security industry, propelling market advancements. Moreover, In January 2020, the state of California introduced the Consumer Privacy Act, and governments worldwide

began implementing regulations governing how businesses can collect data from users on their digital platforms. Consequently, marketers are challenged to enhance personalization efforts while working with reduced access to personal data. Concurrently, both federal and state governments are refining their strategies for managing various privacy laws relevant to data involved in their operations. For instance, the Massachusetts Data Security regulations prioritize security and aim to enhance the privacy of big data analytics. In Europe, there is a proactive move towards leveraging artificial intelligence (AI) to enhance data protection services for diverse organizations. The European Government has embraced the General Data Protection Regulation (GDPR), designed to oversee the collection, storage, and processing of individual information with the primary goal of safeguarding consumers' critical data within the European region. Additionally, organizations are adopting analytical software to incorporate advanced technologies such as artificial intelligence (AI) and machine learning (ML) to automate processes and augment human activities. However, a lack of apprehension about security implementation by operators and the unpredictability of crimes stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Energy Security Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America is poised to maintain its dominance in the industry due to the growing adoption of these solutions. Meanwhile, Asia Pacific is projected to experience significant growth over the forecast period, driven by a rising population and supportive government initiatives in the region.

Major market player included in this report are:

Raytheon Technologies Corporation (U.S.)

Elbit Systems Ltd. (Israel)

Telefonaktiebolaget LM Ericsson (Sweden)

Siemens Energy (Germany)

Springer Nature (Germany)

Teledyne FLIR LLC (U.S.)

Honeywell International Inc. (U.S.)

Hexagon AB (Sweden)

Lockheed Martin Corporation (U.S.)

Northrop Grumman (U.S.)

Recent Developments in the Market:

In October 2021, Siemens AG introduced a novel Artificial Intelligence (AI)-based industrial cybersecurity service named Managed Detection and Response (MDR), powered by Eos.ii. This initiative aims to assist small and medium-sized energy companies in safeguarding critical infrastructure against cyberattacks. MDR's technological foundation, Eos.ii, utilizes AI and machine learning methodologies to continuously gather and model real-time intelligence about energy assets. This enables cybersecurity experts at Siemens Energy to proactively monitor, detect, and identify potential attacks before they are executed.

In January 2021, IBM Corporation collaborated with Telephonic Help to expedite the modernization of application estates, offering the flexibility for clients to choose between on-premises or cloud-based setups for their workloads.

Global Energy Security Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Component, Technology, Power Plant, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component:

Solution

Service

By Technology:

Physical Security

Network Security

By Power Plant:

Thermal and hydro

Nuclear

Oil and gas

Renewable Energy

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Energy Security Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Energy Security Market, by Component, 2020-2030 (USD Billion)
 - 1.2.3. Energy Security Market, by Technology, 2020-2030 (USD Billion)
 - 1.2.4. Energy Security Market, by Power Plant, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL ENERGY SECURITY MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL ENERGY SECURITY MARKET DYNAMICS

- 3.1. Energy Security Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Growing government concerns and security compliance and regulation
 - 3.1.1.2. Increase in physical attacks and insider threats
 - 3.1.2. Market Challenges
 - 3.1.2.1. Lack of apprehension about security implementation by operators
 - 3.1.2.2. Unpredictability of crimes
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Rise of new energy markets in developing economies
 - 3.1.3.2. Increase in threats from terrorist and cyber-attacks

CHAPTER 4. GLOBAL ENERGY SECURITY MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL ENERGY SECURITY MARKET, BY COMPONENT

- 5.1. Market Snapshot
- 5.2. Global Energy Security Market by Component, Performance - Potential Analysis
- 5.3. Global Energy Security Market Estimates & Forecasts by Component 2020-2030 (USD Billion)
- 5.4. Energy Security Market, Sub Segment Analysis
 - 5.4.1. Solution
 - 5.4.2. Services

CHAPTER 6. GLOBAL ENERGY SECURITY MARKET, BY TECHNOLOGY

- 6.1. Market Snapshot
- 6.2. Global Energy Security Market by Technology, Performance - Potential Analysis
- 6.3. Global Energy Security Market Estimates & Forecasts by Technology 2020-2030 (USD Billion)
- 6.4. Energy Security Market, Sub Segment Analysis
 - 6.4.1. Physical Security
 - 6.4.2. Network Security

CHAPTER 7. GLOBAL ENERGY SECURITY MARKET, BY POWER PLANT

- 7.1. Market Snapshot
- 7.2. Global Energy Security Market by Power Plant, Performance - Potential Analysis
- 7.3. Global Energy Security Market Estimates & Forecasts by Power Plant 2020-2030 (USD Billion)
- 7.4. Energy Security Market, Sub Segment Analysis
 - 7.4.1. Thermal and hydro
 - 7.4.2. Nuclear
 - 7.4.3. Oil and gas
 - 7.4.4. Renewable Energy

CHAPTER 8. GLOBAL ENERGY SECURITY MARKET, REGIONAL ANALYSIS

- 8.1. Top Leading Countries
- 8.2. Top Emerging Countries
- 8.3. Energy Security Market, Regional Market Snapshot
- 8.4. North America Energy Security Market
 - 8.4.1. U.S. Energy Security Market
 - 8.4.1.1. Component breakdown estimates & forecasts, 2020-2030
 - 8.4.1.2. Technology breakdown estimates & forecasts, 2020-2030
 - 8.4.1.3. Power Plant breakdown estimates & forecasts, 2020-2030
 - 8.4.2. Canada Energy Security Market
- 8.5. Europe Energy Security Market Snapshot
 - 8.5.1. U.K. Energy Security Market
 - 8.5.2. Germany Energy Security Market
 - 8.5.3. France Energy Security Market
 - 8.5.4. Spain Energy Security Market
 - 8.5.5. Italy Energy Security Market
 - 8.5.6. Rest of Europe Energy Security Market
- 8.6. Asia-Pacific Energy Security Market Snapshot
 - 8.6.1. China Energy Security Market
 - 8.6.2. India Energy Security Market
 - 8.6.3. Japan Energy Security Market
 - 8.6.4. Australia Energy Security Market
 - 8.6.5. South Korea Energy Security Market
 - 8.6.6. Rest of Asia Pacific Energy Security Market
- 8.7. Latin America Energy Security Market Snapshot

- 8.7.1. Brazil Energy Security Market
- 8.7.2. Mexico Energy Security Market
- 8.8. Middle East & Africa Energy Security Market
 - 8.8.1. Saudi Arabia Energy Security Market
 - 8.8.2. South Africa Energy Security Market
 - 8.8.3. Rest of Middle East & Africa Energy Security Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Raytheon Technologies Corporation (U.S.)
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Recent Developments
 - 9.3.2. Elbit Systems Ltd. (Israel)
 - 9.3.3. Telefonaktiebolaget LM Ericsson (Sweden)
 - 9.3.4. Siemens Energy (Germany)
 - 9.3.5. Springer Nature (Germany)
 - 9.3.6. Teledyne FLIR LLC (U.S.)
 - 9.3.7. Honeywell International Inc. (U.S.)
 - 9.3.8. Hexagon AB (Sweden)
 - 9.3.9. Lockheed Martin Corporation (U.S.)
 - 9.3.10. Northrop Grumman (U.S.)

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing

10.2. Research Attributes

10.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Energy Security Market, report scope

TABLE 2. Global Energy Security Market estimates & forecasts by Region 2020-2030 (USD Billion)

TABLE 3. Global Energy Security Market estimates & forecasts by Component 2020-2030 (USD Billion)

TABLE 4. Global Energy Security Market estimates & forecasts by Technology 2020-2030 (USD Billion)

TABLE 5. Global Energy Security Market estimates & forecasts by Power Plant 2020-2030 (USD Billion)

TABLE 6. Global Energy Security Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 7. Global Energy Security Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 8. Global Energy Security Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Energy Security Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Energy Security Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Energy Security Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Energy Security Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Energy Security Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. Global Energy Security Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. Global Energy Security Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 16. U.S. Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 17. U.S. Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 18. U.S. Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 19. Canada Energy Security Market estimates & forecasts, 2020-2030 (USD

Billion)

TABLE 20. Canada Energy Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 21. Canada Energy Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 22. UK Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 23. UK Energy Security Market estimates & forecasts by segment 2020-2030
(USD Billion)

TABLE 24. UK Energy Security Market estimates & forecasts by segment 2020-2030
(USD Billion)

TABLE 25. Germany Energy Security Market estimates & forecasts, 2020-2030 (USD
Billion)

TABLE 26. Germany Energy Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 27. Germany Energy Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 28. France Energy Security Market estimates & forecasts, 2020-2030 (USD
Billion)

TABLE 29. France Energy Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 30. France Energy Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 31. Italy Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 32. Italy Energy Security Market estimates & forecasts by segment 2020-2030
(USD Billion)

TABLE 33. Italy Energy Security Market estimates & forecasts by segment 2020-2030
(USD Billion)

TABLE 34. Spain Energy Security Market estimates & forecasts, 2020-2030 (USD
Billion)

TABLE 35. Spain Energy Security Market estimates & forecasts by segment 2020-2030
(USD Billion)

TABLE 36. Spain Energy Security Market estimates & forecasts by segment 2020-2030
(USD Billion)

TABLE 37. RoE Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 38. RoE Energy Security Market estimates & forecasts by segment 2020-2030
(USD Billion)

TABLE 39. RoE Energy Security Market estimates & forecasts by segment 2020-2030
(USD Billion)

TABLE 40. China Energy Security Market estimates & forecasts, 2020-2030 (USD

Billion)

TABLE 41. China Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. China Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 43. India Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 44. India Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. India Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 46. Japan Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 47. Japan Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. Japan Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 49. South Korea Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 50. South Korea Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. South Korea Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 52. Australia Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 53. Australia Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. Australia Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 55. RoAPAC Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 56. RoAPAC Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. RoAPAC Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 58. Brazil Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 59. Brazil Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Brazil Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 61. Mexico Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 62. Mexico Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. Mexico Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 64. RoLA Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 65. RoLA Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. RoLA Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 67. Saudi Arabia Energy Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 68. South Africa Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. RoMEA Energy Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 70. List of secondary sources, used in the study of global Energy Security Market

TABLE 71. List of primary sources, used in the study of global Energy Security Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Energy Security Market, research methodology
 - FIG 2. Global Energy Security Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Energy Security Market, key trends 2022
 - FIG 5. Global Energy Security Market, growth prospects 2023-2030
 - FIG 6. Global Energy Security Market, porters 5 force model
 - FIG 7. Global Energy Security Market, pest analysis
 - FIG 8. Global Energy Security Market, value chain analysis
 - FIG 9. Global Energy Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Energy Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Energy Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Energy Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Energy Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Energy Security Market, regional snapshot 2020 & 2030
 - FIG 15. North America Energy Security Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Energy Security Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia pacific Energy Security Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Energy Security Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Energy Security Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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