

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

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