

Energy Security Market Reach USD 42 Billion by 2031

WILMINGTON, DE, UNITED STATES, November 25, 2025 /EINPresswire.com/ -- According to the report published by Allied Market Research, [Energy Security Market](#) Reach USD 42 Billion by 2031. The global energy security market is analyzed across component, technology, power plant, and region. The report takes in an exhaustive analysis of the segments and their sub-segments with the help of tabular and graphical representation. Investors and market players can benefit from the breakdown and devise stratagems based on the highest revenue-generating and fastest-growing segments stated in the report.

The global energy security market was estimated at \$15.61 billion in 2021 and is expected to hit \$42 billion by 2031, registering a CAGR of 10.5% from 2022 to 2031.

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Rise in need for protecting existing energy infrastructure and resources in developed nations along with increased pipeline infrastructure is driving the growth of the global energy security market. By component, the solution segment contributed to the major share in 2021. By region, on the other hand, Asia-Pacific would showcase the fastest CAGR by 2031.

The energy security market is segmented on the basis of by component, technology, power plant, and region. On the basis of component, the market is categorized into solution and service. On the basis of technology, the market is fragmented into physical security, and network security. On the basis of power plant, it is classified into thermal and hydro, nuclear, oil and gas, and renewable energy. On the basis of region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The key market players analyzed in the global energy security market report include ABB Ltd., AEGIS Security & Investigations, BAE Systems plc, Elbit Systems Ltd., Thales, Teledyne FLIR LLC, Honeywell International Inc, hexagon ab, Lockheed Martin Corporation, and Siemens AG. These market players have embraced several strategies including partnership, expansion, collaboration, joint ventures, and others to highlight their prowess in the industry. The report is helpful in formulating the business performance and developments by the top players.

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By region, North America held the major share in 2021, garnering more than one-third of the global energy security market revenue. Asia-Pacific, simultaneously, would showcase the fastest CAGR of 12.8% from 2022 to 2031.

By power plant, the thermal and hydro segment accounted for the highest share in 2021, generating nearly half of the global energy security market revenue. The renewable energy segment would portray the fastest CAGR of 12.9% during the forecast period.

By component, the solution segment held the largest share in 2021, garnering around three-fourths of the global energy security market revenue, and is projected to maintain its dominance by 2031. The service segment showcase the fastest CAGR of 12.0% during the forecast period.

By technology, the physical security segment contributed to nearly one-third of the global energy security market share in 2021, and is projected to rule the roost by 2031. The network security segment, on the other hand, would display the fastest CAGR of 12.8% throughout the forecast period.

The report provides a detailed analysis of the top investment pockets, top winning strategies, drivers & opportunities, market size & estimations, competitive landscape, and evolving market trends. The market study is a helpful source of information for the frontrunners, new entrants, investors, and shareholders in crafting strategies for the future and heightening their position in the market.

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Regional Insights of Energy Security Market

The global energy security market is growing significantly as nations strive to protect their energy infrastructure from physical threats and cyber-attacks, ensure uninterrupted energy supply, and reduce dependency on external sources. Energy security involves safeguarding resources, infrastructure, and energy transmission networks, with regional dynamics playing a key role in shaping market growth. Below are regional insights into the energy security market:

1. North America

North America dominates the global energy security market, driven by increasing concerns over cyber-attacks on critical energy infrastructure and rising investments in modernizing the energy grid. The U.S. leads this market, propelled by significant investments in securing energy networks, oil pipelines, nuclear plants, and electric grids. Government initiatives such as the Cybersecurity and Infrastructure Security Agency (CISA) and various energy sector cybersecurity frameworks have enhanced security measures. The rise of renewable energy sources such as solar and wind also necessitates enhanced security frameworks, as decentralized energy

systems are becoming more vulnerable to cyber-attacks. Canada follows a similar trajectory, emphasizing protecting its energy infrastructure, especially in the oil and gas sector.

2. Europe

Europe is another significant player in the energy security market, driven by the region's focus on reducing dependence on external energy sources and bolstering its infrastructure security. Countries like Germany, the UK, and France are leading in renewable energy production, which has led to an increased need for protecting distributed energy resources and grids. The European Union has also taken significant steps to address energy security concerns by introducing regulations and guidelines focused on securing energy networks. Moreover, Europe's geopolitical situation, particularly the ongoing Russia-Ukraine conflict, has emphasized the importance of energy independence, prompting investments in local energy production and security measures to protect supply lines, especially gas pipelines.

3. Asia-Pacific

Asia-Pacific is expected to witness the highest growth in the energy security market during the forecast period. The rapid industrialization and urbanization in countries such as China, India, Japan, and South Korea are driving the need for robust energy security solutions. China, as the largest energy consumer in the world, has been investing heavily in securing its energy infrastructure, especially as it transitions to a more renewable energy-driven economy.

The expansion of smart grid systems and the growing reliance on imported oil and natural gas have made energy security a top priority for China. Similarly, India's expanding energy needs, driven by its booming population and industrial growth, are leading to heightened security measures across its energy infrastructure. Government initiatives such as India's National Smart Grid Mission are contributing to the market's growth.

4. Middle East and Africa

The Middle East and Africa (MEA) region is also a key player in the energy security market, given its rich reserves of oil and gas, which are critical to the global energy supply chain. Countries such as Saudi Arabia, the UAE, and Qatar have been focusing on securing their oil and gas infrastructure from physical attacks, including terrorism and geopolitical instability. The rise of cyber-attacks on critical infrastructure, including energy facilities, has further increased the demand for advanced cybersecurity measures in the region.

The development of alternative energy sources, including solar power in countries like the UAE, also requires enhanced security measures to ensure an uninterrupted energy supply. In Africa, energy security is critical, especially as the region seeks to improve energy access and infrastructure while safeguarding against physical threats, such as theft and sabotage.

5. Latin America

Latin America's energy security market is gaining momentum as countries like Brazil, Mexico, and Argentina focus on modernizing their energy infrastructure and enhancing security measures.

With its vast renewable energy potential, particularly in hydroelectric power, Brazil is investing in energy security to protect its energy resources from physical threats and cyber-attacks. Mexico's oil and gas industry, a key driver of its economy, is also facing rising challenges in securing its pipelines and refineries from theft and sabotage. The region's increasing shift towards renewable energy sources, particularly wind and solar power, is creating new vulnerabilities that necessitate advanced energy security solutions.

Thanks for reading this article you can also get individual chapter-wise sections or region-wise report versions like North America Europe or Asia.

If you have any special requirements, please let us know and we will offer you the report as per your requirements.

Lastly this report provides market intelligence most comprehensively. The report structure has been kept such that it offers maximum business value. It provides critical insights into the market dynamics and will enable strategic decision-making for the existing market players as well as those willing to enter the market.

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