

Global Directed Energy Weapons Market Size study, by Technology (High Energy Laser, High Power Microwave, Others), by Platform (Land, Airborne, Naval), by Product (Lethal, Non-lethal) and Regional Forecasts 2022-2032

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Abstracts

The Global Directed Energy Weapons Market was valued at approximately USD 5.70 billion in 2023 and is anticipated to grow at a robust compound annual growth rate (CAGR) of 16.4% from 2024 to 2032. Directed energy weapons (DEWs) represent a revolutionary class of military technology utilizing focused energy, such as lasers, microwaves, or particle beams, to neutralize or destroy targets with precision and minimal collateral damage. These advanced systems, including high-energy lasers and electromagnetic rail guns, offer unparalleled rapid response capabilities, making them integral for modern combat scenarios. Their ability to engage a wide range of threats, from incoming missiles to enemy personnel and vehicles, underscores their strategic importance.

Governments and defense organizations across the globe are recognizing the strategic advantages of directed energy weapons, such as their precision, cost-effectiveness per shot, and the ability to counter various threats, including drones, missiles, and unmanned aerial vehicles (UAVs). Secondly, technological advancements play a critical role, with ongoing research and development efforts leading to improved power sources, beam control, and targeting accuracy. Collaboration between defense contractors, research institutions, and government agencies accelerates innovation and deployment of these systems. Additionally, the integration of directed energy weapons into existing military platforms, such as ships, aircraft, and ground vehicles, is expanding, enhancing their operational versatility. However, challenges such as high initial costs, technical complexities, and the need for extensive testing and validation

impact market growth. Moreover, the increasing emphasis on modernizing defense systems and the potential for directed energy weapons to provide decisive battlefield advantages are key drivers propelling the market forward.

The key regions considered for the Global Directed Energy Weapons Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. The North American region is both the dominating attributed to factors such as significant investments in defense and military technologies, driven by high defense budgets and continuous advancements in warfare technologies. Additionally, the presence of major defense contractors and technology companies in North America, such as Lockheed Martin, Northrop Grumman, and Raytheon, fosters a robust innovation ecosystem. These companies are at the forefront of research and development in directed energy technologies. Furthermore, the region benefits from strong government support and favourable regulatory frameworks that encourage technological advancements and rapid deployment of these systems. Consequently, Asia Pacific is poised to register fastest growth the market owing to rising government spending, and rising Energy Weapons manufacturing in the region.

Major market players included in this report are:

Lockheed Martin Corporation
The Boeing Company
Raytheon Technologies Corporation
Northrop Grumman Corporation
BAE Systems plc
L3Harris Technologies, Inc.
Rafael Advanced Defense Systems Ltd.
Thales Group
Rheinmetall AG
MBDA Missile Systems
QinetiQ Group plc
Kratos Defense & Security Solutions, Inc.
General Dynamics Corporation
Leonardo S.p.A.
Moog Inc.

The detailed segments and sub-segment of the market are explained below:

By Technology
High Energy Laser
High Power Microwave

Others

By Platform

Land

Airborne

Naval

By Product

Lethal

Non-lethal

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East and Africa

Saudi Arabia

South Africa
Rest of Middle East and Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL DIRECTED ENERGY WEAPONS MARKET EXECUTIVE SUMMARY

- 1.1. Global Directed Energy Weapons Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Technology
 - 1.3.2. By Platform
 - 1.3.3. By Product
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL DIRECTED ENERGY WEAPONS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL DIRECTED ENERGY WEAPONS MARKET DYNAMICS

Global Directed Energy Weapons Market Size study, by Technology (High Energy Laser, High Power Microwave, Othe...

3.1. Market Drivers

- 3.1.1. Increase in government defense spending
- 3.1.2. Rise in security threats posed by terrorist organizations
- 3.1.3. Surge in adoption of directed energy weapons in naval forces

3.2. Market Challenges

- 3.2.1. Technological limitations
- 3.2.2. Ethical and health concerns

3.3. Market Opportunities

- 3.3.1. Technological advancements and continuous research
- 3.3.2. Integration of directed energy weapons with conventional weapons

CHAPTER 4. GLOBAL DIRECTED ENERGY WEAPONS 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
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL DIRECTED ENERGY WEAPONS MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

- 5.1. Segment Dashboard
- 5.2. Global Directed Energy Weapons Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)
 - 5.2.1. High Energy Laser
 - 5.2.2. High Power Microwave
 - 5.2.3. Others

CHAPTER 6. GLOBAL DIRECTED ENERGY WEAPONS MARKET SIZE & FORECASTS BY PLATFORM 2022-2032

- 6.1. Segment Dashboard
- 6.2. Global Directed Energy Weapons Market: Platform Revenue Trend Analysis, 2022 & 2032 (USD Billion)
 - 6.2.1. Land
 - 6.2.2. Airborne
 - 6.2.3. Naval

CHAPTER 7. GLOBAL DIRECTED ENERGY WEAPONS MARKET SIZE & FORECASTS BY PRODUCT 2022-2032

- 7.1. Segment Dashboard
- 7.2. Global Directed Energy Weapons Market: Product Revenue Trend Analysis, 2022 & 2032 (USD Billion)
 - 7.2.1. Lethal
 - 7.2.2. Non-lethal

CHAPTER 8. GLOBAL DIRECTED ENERGY WEAPONS MARKET SIZE & FORECASTS BY REGION 2022-2032

- 8.1. North America Directed Energy Weapons Market
 - 8.1.1. U.S. Directed Energy Weapons Market
 - 8.1.1.1. Technology breakdown size & forecasts, 2022-2032
 - 8.1.1.2. Platform breakdown size & forecasts, 2022-2032
 - 8.1.1.3. Product breakdown size & forecasts, 2022-2032
 - 8.1.2. Canada Directed Energy Weapons Market
 - 8.1.2.1. Technology breakdown size & forecasts, 2022-2032
 - 8.1.2.2. Platform breakdown size & forecasts, 2022-2032
 - 8.1.2.3. Product breakdown size & forecasts, 2022-2032
 - 8.1.3. Mexico Directed Energy Weapons Market

- 8.1.3.1. Technology breakdown size & forecasts, 2022-2032
- 8.1.3.2. Platform breakdown size & forecasts, 2022-2032
- 8.1.3.3. Product breakdown size & forecasts, 2022-2032
- 8.2. Europe Directed Energy Weapons Market
 - 8.2.1. UK Directed Energy Weapons Market
 - 8.2.2. Germany Directed Energy Weapons Market
 - 8.2.3. France Directed Energy Weapons Market
 - 8.2.4. Russia Directed Energy Weapons Market
 - 8.2.5. Rest of Europe Directed Energy Weapons Market
- 8.3. Asia-Pacific Directed Energy Weapons Market
 - 8.3.1. China Directed Energy Weapons Market
 - 8.3.2. Japan Directed Energy Weapons Market
 - 8.3.3. India Directed Energy Weapons Market
 - 8.3.4. South Korea Directed Energy Weapons Market
 - 8.3.5. Rest of Asia-Pacific Directed Energy Weapons Market
- 8.4. Latin America Directed Energy Weapons Market
 - 8.4.1. Brazil Directed Energy Weapons Market
 - 8.4.2. Mexico Directed Energy Weapons Market
 - 8.4.3. Rest of Latin America Directed Energy Weapons Market
- 8.5. Middle East & Africa Directed Energy Weapons Market
 - 8.5.1. Saudi Arabia Directed Energy Weapons Market
 - 8.5.2. South Africa Directed Energy Weapons Market
 - 8.5.3. Rest of Middle East & Africa Directed Energy Weapons 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. Lockheed Martin Corporation
 - 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. Market Strategies
 - 9.3.2. The Boeing Company

- 9.3.3. Raytheon Technologies Corporation
- 9.3.4. Northrop Grumman Corporation
- 9.3.5. BAE Systems plc
- 9.3.6. L3Harris Technologies, Inc.
- 9.3.7. Rafael Advanced Defense Systems Ltd.
- 9.3.8. Thales Group
- 9.3.9. Rheinmetall AG
- 9.3.10. MBDA Missile Systems
- 9.3.11. QinetiQ Group plc
- 9.3.12. Kratos Defense & Security Solutions, Inc.
- 9.3.13. General Dynamics Corporation
- 9.3.14. Leonardo S.p.A.
- 9.3.15. Moog Inc.

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

List Of Tables

LIST OF TABLES

TABLE 1. Global Directed Energy Weapons market, report scope

TABLE 2. Global Directed Energy Weapons market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Directed Energy Weapons market estimates & forecasts by Technology 2022-2032 (USD Billion)

TABLE 4. Global Directed Energy Weapons market estimates & forecasts by Platform 2022-2032 (USD Billion)

TABLE 5. Global Directed Energy Weapons market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 6. Global Directed Energy Weapons market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 7. Global Directed Energy Weapons market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global Directed Energy Weapons market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global Directed Energy Weapons market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global Directed Energy Weapons market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global Directed Energy Weapons market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global Directed Energy Weapons market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global Directed Energy Weapons market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global Directed Energy Weapons market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. Directed Energy Weapons market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. Directed Energy Weapons market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. Directed Energy Weapons market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada Directed Energy Weapons market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Directed Energy Weapons market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 20. Canada Directed Energy Weapons market estimates & forecasts by segment 2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Directed Energy Weapons market, research methodology
- FIG 2. Global Directed Energy Weapons market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Directed Energy Weapons market, key trends 2023
- FIG 5. Global Directed Energy Weapons market, growth prospects 2022-2032
- FIG 6. Global Directed Energy Weapons market, porters 5 force model
- FIG 7. Global Directed Energy Weapons market, PESTEL analysis
- FIG 8. Global Directed Energy Weapons market, value chain analysis
- FIG 9. Global Directed Energy Weapons market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Directed Energy Weapons market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Directed Energy Weapons market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Directed Energy Weapons market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Directed Energy Weapons market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Directed Energy Weapons market, regional snapshot 2022 & 2032
- FIG 15. North America Directed Energy Weapons market 2022 & 2032 (USD Billion)
- FIG 16. Europe Directed Energy Weapons market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Directed Energy Weapons market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Directed Energy Weapons market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Directed Energy Weapons market 2022 & 2032 (USD Billion)
- FIG 20. Global Directed Energy Weapons market, company market share analysis (2023)

.....

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