

Global Distributed Fiber Optic Sensor In Oil & Gas Market Size study & Forecast, by Type (Distributed Temperature Sensing (DTS), Distributed Acoustic Sensing (DAS), Others) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G50669AB45C5EN.html>

Date: February 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G50669AB45C5EN

Abstracts

Global Distributed Fiber Optic Sensor In Oil & Gas Market is valued at approximately USD 1.44 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 6.8% during the forecast period 2023-2030. Distributed Fiber Optic Sensor are sensing system that utilizes optical fibers to collect real-time data along its entire length. In the oil and gas sector, these sensors are often deployed in wellbores, pipelines, and other critical infrastructure to provide continuous and distributed measurements of temperature, pressure, strain, and acoustic signals. This enables operators to gain insights into the condition and performance of their assets, facilitating early detection of potential issues such as leaks, structural deformities, or changes in flow. The market is being driven by factors such as rising oil and gas extraction activities, rising investment for the adoption of advanced and sustainable technology in the industry, and implementation of safety standards in the oil and gas.

The global demand for oil and gas remains high, driving the need for efficient and reliable monitoring solutions. DFOS technology provides a sophisticated and scalable solution for the industry to ensure the continuous and safe extraction, transportation, and processing of these resources. The International Energy Agency documented a worldwide surge in overall oil demand, escalating from 91 million barrels per day in 2020 to 99.4 million barrels per day in 2022. Projections indicate a further increase, reaching 104.1 million barrels per day by 2026. In line with this surge, the Abu Dhabi National Oil Company (ADNOC) disclosed investments nearing USD 6 billion (AED 22 billion) in November 2021. This substantial investment aims to bolster drilling

capabilities, facilitating ADNOC's ambitious goal of elevating crude oil production capacity to 5 million barrels per day by 2030. Similarly, the Ugandan government, in January 2023, unveiled plans to invest USD 2 billion in the development of oil rigs and production. Commencing with the drilling of the first production well, this strategic move represents a significant milestone for Uganda as it strives to achieve its target of first oil output in 2025, following prolonged delays. The escalating activities in oil exploration and drilling are thus instrumental in propelling the growth of the market. In addition, the adoption of Industrial Internet of Things (IIoT) solutions and rising technological advancement are creating new opportunities for the market growth. However, the complex installation and maintenance stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Distributed Fiber Optic Sensor In Oil & Gas Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market. The continuous integration of cutting-edge technologies across a diverse range of industries in North America is propelling the growth of Distributed Fiber Optic Sensor (DFOS) technology. This widespread adoption is a catalyst for ongoing developments in fiber optics and sensing technologies, leading to the evolution of more advanced and efficient DFOS systems. These constant enhancements are expected to encourage the incorporation of DFOS within the oil and gas industry, providing businesses with improved monitoring capabilities and opportunities to optimize operational efficiency. Additionally, the well-established oil and gas infrastructure in North America, coupled with the region's expertise in effectively integrating and leveraging DFOS technology, further accelerates its expansion within the sector. The Middle East and Africa is expected to grow at the fastest rate over the forecast period. The rising demand for Distributed Fiber Optic Sensor (DFOS) technology in the Middle East and Africa (MEA) is fueled by its integration into reservoir monitoring systems. Current trends underscore the application of DFOS for real-time data acquisition within oil reservoirs, empowering operators to monitor reservoir conditions, optimize production strategies, and improve oil recovery methods. This aligns with the region's emphasis on maximizing efficiency in hydrocarbon extraction. Within the substantial subsea oil and gas infrastructure in the MEA region, DFOS systems are increasingly being employed for subsea asset monitoring.

Major market player included in this report are:

Schlumberger Limited

Halliburton Company

Baker Hughes Company

OptaSense (a QinetiQ Company)

Weatherford International

Honeywell International Inc

Omnisens SA

Luna Innovations Incorporated

Luna Innovations Inc.

AP Sensing GmbH

Recent Developments in the Market:

In February 2022, Biocon announced the acquisition of Viatris' biosimilar portfolio for USD 3.335 billion. This acquisition strengthened Biocon's biosimilar product portfolio and improved its revenue generation.

In Aug 2021, The U.S. Food and Drug Administration (FDA) approved an expanded label for Eli Lilly and Company's rapid-acting Distributed Fiber Optic Sensor In Oil & Gas, Lyumjev (Distributed Fiber Optic Sensor In Oil & Gas lispro-AABC injection) 100 units/mL indicated to improve glycemic control in adults with type 1 and type 2 diabetes, to include administration via continuous subcutaneous Distributed Fiber Optic Sensor In Oil & Gas infusion (CSII) with a Distributed Fiber Optic Sensor In Oil & Gas pump.

Global Distributed Fiber Optic Sensor In Oil & Gas 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 - Type, 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 Type:

Distributed Temperature Sensing (DTS)

Distributed Acoustic Sensing (DAS)

Others

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. Distributed Fiber Optic Sensor In Oil & Gas Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Distributed Fiber Optic Sensor In Oil & Gas Market, by Type, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL DISTRIBUTED FIBER OPTIC SENSOR IN OIL & GAS 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 DISTRIBUTED FIBER OPTIC SENSOR IN OIL & GAS MARKET DYNAMICS

- 3.1. Distributed Fiber Optic Sensor In Oil & Gas Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising oil and gas extraction activities
 - 3.1.1.2. Rising investment for adoption of advance and sustainable technology
 - 3.1.1.3. Implementation of safety standards in the oil and gas
 - 3.1.2. Market Challenges
 - 3.1.2.1. Complex installation and maintenance
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Adoption of Industrial Internet of Things (IIoT) solutions
 - 3.1.3.2. Rising technological advancement

CHAPTER 4. GLOBAL DISTRIBUTED FIBER OPTIC SENSOR IN OIL & GAS

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 DISTRIBUTED FIBER OPTIC SENSOR IN OIL & GAS MARKET, BY TYPE

- 5.1. Market Snapshot
- 5.2. Global Distributed Fiber Optic Sensor In Oil & Gas Market by Type, Performance - Potential Analysis
- 5.3. Global Distributed Fiber Optic Sensor In Oil & Gas Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Distributed Fiber Optic Sensor In Oil & Gas Market, Sub Segment Analysis
 - 5.4.1. Distributed Temperature Sensing (DTS)
 - 5.4.2. Distributed Acoustic Sensing (DAS)
 - 5.4.3. Others

CHAPTER 6. GLOBAL DISTRIBUTED FIBER OPTIC SENSOR IN OIL & GAS MARKET, REGIONAL ANALYSIS

- 6.1. Top Leading Countries
- 6.2. Top Emerging Countries
- 6.3. Distributed Fiber Optic Sensor In Oil & Gas Market, Regional Market Snapshot
- 6.4. North America Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.4.1. U.S. Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.4.1.1. Type breakdown estimates & forecasts, 2020-2030
 - 6.4.2. Canada Distributed Fiber Optic Sensor In Oil & Gas Market
- 6.5. Europe Distributed Fiber Optic Sensor In Oil & Gas Market Snapshot
 - 6.5.1. U.K. Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.5.2. Germany Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.5.3. France Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.5.4. Spain Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.5.5. Italy Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.5.6. Rest of Europe Distributed Fiber Optic Sensor In Oil & Gas Market
- 6.6. Asia-Pacific Distributed Fiber Optic Sensor In Oil & Gas Market Snapshot
 - 6.6.1. China Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.6.2. India Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.6.3. Japan Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.6.4. Australia Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.6.5. South Korea Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.6.6. Rest of Asia Pacific Distributed Fiber Optic Sensor In Oil & Gas Market
- 6.7. Latin America Distributed Fiber Optic Sensor In Oil & Gas Market Snapshot
 - 6.7.1. Brazil Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.7.2. Mexico Distributed Fiber Optic Sensor In Oil & Gas Market
- 6.8. Middle East & Africa Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.8.1. Saudi Arabia Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.8.2. South Africa Distributed Fiber Optic Sensor In Oil & Gas Market
 - 6.8.3. Rest of Middle East & Africa Distributed Fiber Optic Sensor In Oil & Gas Market

CHAPTER 7. COMPETITIVE INTELLIGENCE

- 7.1. Key Company SWOT Analysis
 - 7.1.1. Company
 - 7.1.2. Company
 - 7.1.3. Company
- 7.2. Top Market Strategies
- 7.3. Company Profiles
 - 7.3.1. Schlumberger Limited
 - 7.3.1.1. Key Information

- 7.3.1.2. Overview
- 7.3.1.3. Financial (Subject to Data Availability)
- 7.3.1.4. Product Summary
- 7.3.1.5. Recent Developments
- 7.3.2. Halliburton Company
- 7.3.3. Baker Hughes Company
- 7.3.4. OptaSense (a QinetiQ Company)
- 7.3.5. Weatherford International
- 7.3.6. Honeywell International Inc
- 7.3.7. Omnisens SA
- 7.3.8. Luna Innovations Incorporated
- 7.3.9. Luna Innovations Inc.
- 7.3.10. AP Sensing GmbH

CHAPTER 8. RESEARCH PROCESS

- 8.1. Research Process
 - 8.1.1. Data Mining
 - 8.1.2. Analysis
 - 8.1.3. Market Estimation
 - 8.1.4. Validation
 - 8.1.5. Publishing
- 8.2. Research Attributes
- 8.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Distributed Fiber Optic Sensor In Oil & Gas Market, report scope

TABLE 2. Global Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by Region 2020-2030 (USD Billion)

TABLE 3. Global Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by Type 2020-2030 (USD Billion)

TABLE 4. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 5. Global Distributed Fiber Optic Sensor In Oil & Gas Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 6. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 7. Global Distributed Fiber Optic Sensor In Oil & Gas Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 8. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Distributed Fiber Optic Sensor In Oil & Gas Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Distributed Fiber Optic Sensor In Oil & Gas Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Distributed Fiber Optic Sensor In Oil & Gas Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. U.S. Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. U.S. Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 16. U.S. Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 17. Canada Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 18. Canada Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 19. Canada Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 20. UK Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 21. UK Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 22. UK Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. Germany Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 24. Germany Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 25. Germany Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. France Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 27. France Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 28. France Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. Italy Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 30. Italy Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 31. Italy Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Spain Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 33. Spain Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 34. Spain Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. RoE Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 36. RoE Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 37. RoE Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. China Distributed Fiber Optic Sensor In Oil & Gas Market estimates &

forecasts, 2020-2030 (USD Billion)

TABLE 39. China Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 40. China Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. India Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 42. India Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 43. India Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. Japan Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 45. Japan Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 46. Japan Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. South Korea Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 48. South Korea Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 49. South Korea Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. Australia Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 51. Australia Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 52. Australia Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. RoAPAC Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 54. RoAPAC Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 55. RoAPAC Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. Brazil Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 57. Brazil Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 58. Brazil Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. Mexico Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 60. Mexico Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 61. Mexico Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. RoLA Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 63. RoLA Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 64. RoLA Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. Saudi Arabia Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 66. South Africa Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 67. RoMEA Distributed Fiber Optic Sensor In Oil & Gas Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. List of secondary sources, used in the study of global Distributed Fiber Optic Sensor In Oil & Gas Market

TABLE 69. List of primary sources, used in the study of global Distributed Fiber Optic Sensor In Oil & Gas Market

TABLE 70. Years considered for the study

TABLE 71. 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 Distributed Fiber Optic Sensor In Oil & Gas Market, research methodology
- FIG 2. Global Distributed Fiber Optic Sensor In Oil & Gas Market, Market estimation techniques
- FIG 3. Global Market size estimates & forecast methods
- FIG 4. Global Distributed Fiber Optic Sensor In Oil & Gas Market, key trends 2022
- FIG 5. Global Distributed Fiber Optic Sensor In Oil & Gas Market, growth prospects 2023-2030
- FIG 6. Global Distributed Fiber Optic Sensor In Oil & Gas Market, porters 5 force model
- FIG 7. Global Distributed Fiber Optic Sensor In Oil & Gas Market, pest analysis
- FIG 8. Global Distributed Fiber Optic Sensor In Oil & Gas Market, value chain analysis
- FIG 9. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, 2020 & 2030 (USD Billion)
- FIG 10. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, 2020 & 2030 (USD Billion)
- FIG 11. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, 2020 & 2030 (USD Billion)
- FIG 12. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, 2020 & 2030 (USD Billion)
- FIG 13. Global Distributed Fiber Optic Sensor In Oil & Gas Market by segment, 2020 & 2030 (USD Billion)
- FIG 14. Global Distributed Fiber Optic Sensor In Oil & Gas Market, regional snapshot 2020 & 2030
- FIG 15. North America Distributed Fiber Optic Sensor In Oil & Gas Market 2020 & 2030 (USD Billion)
- FIG 16. Europe Distributed Fiber Optic Sensor In Oil & Gas Market 2020 & 2030 (USD Billion)
- FIG 17. Asia pacific Distributed Fiber Optic Sensor In Oil & Gas Market 2020 & 2030 (USD Billion)
- FIG 18. Latin America Distributed Fiber Optic Sensor In Oil & Gas Market 2020 & 2030 (USD Billion)
- FIG 19. Middle East & Africa Distributed Fiber Optic Sensor In Oil & Gas 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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