

Offshore Decommissioning Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Offshore Decommissioning Market Summary

Introduction

Offshore decommissioning encompasses the comprehensive process of safely and environmentally removing offshore oil and gas infrastructure at the end of its operational life, including topsides, subsea systems, and substructures across shallow water and deepwater environments. This specialized market involves complex engineering, environmental remediation, and regulatory compliance activities designed to restore marine environments while recovering valuable materials and ensuring long-term safety. The systems and services are deployed across mature offshore regions where aging infrastructure requires systematic removal, with applications spanning platform decommissioning, subsea infrastructure removal, and seabed restoration activities. The market is driven by the aging offshore infrastructure base, with approximately 12,000 offshore platforms and installations globally reaching end-of-life over the next two decades. Additionally, stringent environmental regulations and liability concerns, particularly in the North Sea, Gulf of Mexico, and offshore Australia, mandate comprehensive decommissioning programs, creating sustained demand for specialized services and technologies.

Market Size and Growth Forecast

The global offshore decommissioning market is projected to reach between USD 5.0

billion and USD 6.0 billion in 2025, with a compound annual growth rate (CAGR) of 6% to 11% through 2030, reflecting the increasing volume of aging offshore infrastructure and regulatory requirements for environmental restoration.

Regional Analysis

North America: The United States leads with extensive Gulf of Mexico decommissioning activities, while Canada focuses on offshore Atlantic infrastructure removal and Arctic considerations. **Europe:** The United Kingdom and Norway dominate with North Sea decommissioning programs and advanced regulatory frameworks, while the Netherlands emphasizes shallow water platform removal. **Asia Pacific:** Australia experiences growth driven by offshore infrastructure aging and environmental regulations, while Southeast Asian countries begin addressing aging offshore assets. **Rest of the World:** Brazil develops decommissioning capabilities for offshore infrastructure, and West Africa begins planning for future decommissioning requirements as fields mature.

Application Analysis by Depth

Shallow Water: Expected growth of 5.5-10.5%, driven by aging platforms in mature offshore regions and relatively straightforward removal operations. Trends focus on cost-effective removal methods and environmental restoration. **Deep Water:** Projected growth of 6.5-11.5%, linked to complex infrastructure removal and advanced technology requirements. Developments emphasize specialized equipment and sophisticated project management.

Type Analysis by Structure

Topsides: Expected growth of 6.0-11.0%, involving the removal of production facilities, living quarters, and processing equipment. Trends focus on heavy-lift capabilities and modular removal techniques. **Subsea Infrastructure:** Projected growth of 6.5-11.5%, encompassing pipelines, wellheads, and underwater systems removal. Advances highlight robotic technologies and underwater cutting systems. **Substructures:** Anticipated growth of 5.8-10.8%, including jacket structures, concrete platforms, and foundation systems. Developments prioritize structural engineering and marine operations.

Key Market Players

Leading firms include Ramboll Group, offering comprehensive engineering and environmental services; Baker Hughes, providing specialized decommissioning technologies; Halliburton, delivering integrated well abandonment and infrastructure removal services; Rain Carbon, focusing on materials recovery and recycling; Aker Solutions, specializing in subsea and topside decommissioning; John Wood Group, providing project management and engineering services; Petrofac, offering integrated decommissioning solutions; DNV GL, delivering technical advisory and certification services; AF Gruppen, focusing on marine operations and infrastructure removal; TechnipFMC, providing subsea expertise and removal technologies; and DeepOcean Group, specializing in subsea services and underwater operations. These companies drive market growth through technological innovation, strategic partnerships, and comprehensive service offerings.

Porter's Five Forces Analysis

Threat of New Entrants: Low to Moderate, due to high capital requirements, technical expertise needs, and established relationships with oil and gas operators, though specialized service providers can enter niche segments. **Threat of Substitutes:** Very Low, as decommissioning is a regulatory requirement with limited alternative approaches to infrastructure removal and environmental restoration. **Bargaining Power of Buyers:** Moderate, with oil and gas operators seeking cost-effective solutions while managing regulatory compliance and environmental liabilities. **Bargaining Power of Suppliers:** Low to Moderate, due to multiple suppliers of specialized equipment and services, though highly specialized technology providers may have increased leverage. **Competitive Rivalry:** High, with firms competing on project execution capabilities, cost efficiency, environmental performance, and technological innovation.

Market Opportunities and Challenges

Opportunities: The increasing volume of aging offshore infrastructure creates sustained demand for decommissioning services over the next two decades. Technological advancements in robotics, underwater cutting, and remote operations enhance project efficiency and safety. The focus on circular economy principles and materials recovery creates new value streams from decommissioned infrastructure. Emerging markets in Southeast Asia, Latin America, and Africa present growth opportunities as offshore infrastructure ages. The trend toward integrated project delivery and comprehensive service offerings creates competitive advantages for full-service providers.

Challenges: High project costs and complex financing arrangements create barriers to

timely decommissioning execution. Regulatory complexity and varying international standards complicate global operations and project planning. Technical challenges in deepwater and harsh environment operations require specialized expertise and equipment. Environmental concerns and stakeholder expectations create pressure for comprehensive restoration and monitoring programs. Skilled workforce shortages in specialized marine operations limit project execution capacity and technological development.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Offshore Decommissioning Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST OFFSHORE DECOMMISSIONING MARKET IN NORTH AMERICA (2020-2030)

- 8.1 Offshore Decommissioning Market Size
- 8.2 Offshore Decommissioning Market by End Use
- 8.3 Competition by Players/Suppliers
- 8.4 Offshore Decommissioning Market Size by Type
- 8.5 Key Countries Analysis
 - 8.5.1 United States
 - 8.5.2 Canada
 - 8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST OFFSHORE DECOMMISSIONING MARKET IN SOUTH AMERICA (2020-2030)

- 9.1 Offshore Decommissioning Market Size
- 9.2 Offshore Decommissioning Market by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Offshore Decommissioning Market Size by Type
- 9.5 Key Countries Analysis
 - 9.5.1 Brazil
 - 9.5.2 Argentina
 - 9.5.3 Chile
 - 9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST OFFSHORE DECOMMISSIONING MARKET IN ASIA & PACIFIC (2020-2030)

- 10.1 Offshore Decommissioning Market Size
- 10.2 Offshore Decommissioning Market by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Offshore Decommissioning Market Size by Type
- 10.5 Key Countries Analysis
 - 10.5.1 China
 - 10.5.2 India
 - 10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST OFFSHORE DECOMMISSIONING MARKET IN EUROPE (2020-2030)

- 11.1 Offshore Decommissioning Market Size
- 11.2 Offshore Decommissioning Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Offshore Decommissioning Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST OFFSHORE DECOMMISSIONING MARKET IN MEA (2020-2030)

- 12.1 Offshore Decommissioning Market Size
- 12.2 Offshore Decommissioning Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Offshore Decommissioning Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL OFFSHORE DECOMMISSIONING MARKET (2020-2025)

- 13.1 Offshore Decommissioning Market Size
- 13.2 Offshore Decommissioning Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Offshore Decommissioning Market Size by Type

CHAPTER 14 GLOBAL OFFSHORE DECOMMISSIONING MARKET FORECAST (2025-2030)

- 14.1 Offshore Decommissioning Market Size Forecast
- 14.2 Offshore Decommissioning Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Offshore Decommissioning Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Ramboll Group
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Offshore Decommissioning Information
 - 15.1.3 SWOT Analysis of Ramboll Group
 - 15.1.4 Ramboll Group Offshore Decommissioning Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Baker Hughes
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Offshore Decommissioning Information
 - 15.2.3 SWOT Analysis of Baker Hughes
 - 15.2.4 Baker Hughes Offshore Decommissioning Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Halliburton
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Offshore Decommissioning Information
 - 15.3.3 SWOT Analysis of Halliburton
 - 15.3.4 Halliburton Offshore Decommissioning Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Rain Carbon
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Offshore Decommissioning Information
 - 15.4.3 SWOT Analysis of Rain Carbon
 - 15.4.4 Rain Carbon Offshore Decommissioning Revenue, Gross Margin and Market Share (2020-2025)

Share (2020-2025)

15.5 Aker Solutions

15.5.1 Company Profile

15.5.2 Main Business and Offshore Decommissioning Information

15.5.3 SWOT Analysis of Aker Solutions

15.5.4 Aker Solutions Offshore Decommissioning Revenue, Gross Margin and Market

Share (2020-2025)

15.6 John Wood Group

15.6.1 Company Profile

15.6.2 Main Business and Offshore Decommissioning Information

15.6.3 SWOT Analysis of John Wood Group

15.6.4 John Wood Group Offshore Decommissioning Revenue, Gross Margin and

Market Share (2020-2025)

15.7 Petrofac

15.7.1 Company Profile

15.7.2 Main Business and Offshore Decommissioning Information

15.7.3 SWOT Analysis of Petrofac

15.7.4 Petrofac Offshore Decommissioning Revenue, Gross Margin and Market Share

(2020-2025)

Please ask for sample pages for full companies list

Tables & Figures

TABLES AND FIGURES

Table Abbreviation and Acronyms

Table Research Scope of Offshore Decommissioning Report

Table Data Sources of Offshore Decommissioning Report

Table Major Assumptions of Offshore Decommissioning Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Offshore Decommissioning Picture

Table Offshore Decommissioning Classification

Table Offshore Decommissioning Applications

Table Drivers of Offshore Decommissioning Market

Table Restraints of Offshore Decommissioning Market

Table Opportunities of Offshore Decommissioning Market

Table Threats of Offshore Decommissioning Market

Table Covid-19 Impact For Offshore Decommissioning Market

Table Raw Materials Suppliers

Table Different Production Methods of Offshore Decommissioning

Table Cost Structure Analysis of Offshore Decommissioning

Table Key End Users

Table Latest News of Offshore Decommissioning Market

Table Merger and Acquisition

Table Planned/Future Project of Offshore Decommissioning Market

Table Policy of Offshore Decommissioning Market

Table 2020-2030 North America Offshore Decommissioning Market Size

Figure 2020-2030 North America Offshore Decommissioning Market Size and CAGR

Table 2020-2030 North America Offshore Decommissioning Market Size by Application

Table 2020-2025 North America Offshore Decommissioning Key Players Revenue

Table 2020-2025 North America Offshore Decommissioning Key Players Market Share

Table 2020-2030 North America Offshore Decommissioning Market Size by Type

Table 2020-2030 United States Offshore Decommissioning Market Size

Table 2020-2030 Canada Offshore Decommissioning Market Size

Table 2020-2030 Mexico Offshore Decommissioning Market Size

Table 2020-2030 South America Offshore Decommissioning Market Size

Figure 2020-2030 South America Offshore Decommissioning Market Size and CAGR

Table 2020-2030 South America Offshore Decommissioning Market Size by Application

Table 2020-2025 South America Offshore Decommissioning Key Players Revenue

Table 2020-2025 South America Offshore Decommissioning Key Players Market Share
Table 2020-2030 South America Offshore Decommissioning Market Size by Type
Table 2020-2030 Brazil Offshore Decommissioning Market Size
Table 2020-2030 Argentina Offshore Decommissioning Market Size
Table 2020-2030 Chile Offshore Decommissioning Market Size
Table 2020-2030 Peru Offshore Decommissioning Market Size
Table 2020-2030 Asia & Pacific Offshore Decommissioning Market Size
Figure 2020-2030 Asia & Pacific Offshore Decommissioning Market Size and CAGR
Table 2020-2030 Asia & Pacific Offshore Decommissioning Market Size by Application
Table 2020-2025 Asia & Pacific Offshore Decommissioning Key Players Revenue
Table 2020-2025 Asia & Pacific Offshore Decommissioning Key Players Market Share
Table 2020-2030 Asia & Pacific Offshore Decommissioning Market Size by Type
Table 2020-2030 China Offshore Decommissioning Market Size
Table 2020-2030 India Offshore Decommissioning Market Size
Table 2020-2030 Japan Offshore Decommissioning Market Size
Table 2020-2030 South Korea Offshore Decommissioning Market Size
Table 2020-2030 Southeast Asia Offshore Decommissioning Market Size
Table 2020-2030 Australia Offshore Decommissioning Market Size
Table 2020-2030 Europe Offshore Decommissioning Market Size
Figure 2020-2030 Europe Offshore Decommissioning Market Size and CAGR
Table 2020-2030 Europe Offshore Decommissioning Market Size by Application
Table 2020-2025 Europe Offshore Decommissioning Key Players Revenue
Table 2020-2025 Europe Offshore Decommissioning Key Players Market Share
Table 2020-2030 Europe Offshore Decommissioning Market Size by Type
Table 2020-2030 Germany Offshore Decommissioning Market Size
Table 2020-2030 France Offshore Decommissioning Market Size
Table 2020-2030 United Kingdom Offshore Decommissioning Market Size
Table 2020-2030 Italy Offshore Decommissioning Market Size
Table 2020-2030 Spain Offshore Decommissioning Market Size
Table 2020-2030 Belgium Offshore Decommissioning Market Size
Table 2020-2030 Netherlands Offshore Decommissioning Market Size
Table 2020-2030 Austria Offshore Decommissioning Market Size
Table 2020-2030 Poland Offshore Decommissioning Market Size
Table 2020-2030 Russia Offshore Decommissioning Market Size
Table 2020-2030 MEA Offshore Decommissioning Market Size
Figure 2020-2030 MEA Offshore Decommissioning Market Size and CAGR
Table 2020-2030 MEA Offshore Decommissioning Market Size by Application
Table 2020-2025 MEA Offshore Decommissioning Key Players Revenue
Table 2020-2025 MEA Offshore Decommissioning Key Players Market Share

Table 2020-2030 MEA Offshore Decommissioning Market Size by Type
Table 2020-2030 Egypt Offshore Decommissioning Market Size
Table 2020-2030 Israel Offshore Decommissioning Market Size
Table 2020-2030 South Africa Offshore Decommissioning Market Size
Table 2020-2030 Gulf Cooperation Council Countries Offshore Decommissioning Market Size
Table 2020-2030 Turkey Offshore Decommissioning Market Size
Table 2020-2025 Global Offshore Decommissioning Market Size by Region
Table 2020-2025 Global Offshore Decommissioning Market Size Share by Region
Table 2020-2025 Global Offshore Decommissioning Market Size by Application
Table 2020-2025 Global Offshore Decommissioning Market Share by Application
Table 2020-2025 Global Offshore Decommissioning Key Vendors Revenue
Figure 2020-2025 Global Offshore Decommissioning Market Size and Growth Rate
Table 2020-2025 Global Offshore Decommissioning Key Vendors Market Share
Table 2020-2025 Global Offshore Decommissioning Market Size by Type
Table 2020-2025 Global Offshore Decommissioning Market Share by Type
Table 2025-2030 Global Offshore Decommissioning Market Size by Region
Table 2025-2030 Global Offshore Decommissioning Market Size Share by Region
Table 2025-2030 Global Offshore Decommissioning Market Size by Application
Table 2025-2030 Global Offshore Decommissioning Market Share by Application
Table 2025-2030 Global Offshore Decommissioning Key Vendors Revenue
Figure 2025-2030 Global Offshore Decommissioning Market Size and Growth Rate
Table 2025-2030 Global Offshore Decommissioning Key Vendors Market Share
Table 2025-2030 Global Offshore Decommissioning Market Size by Type
Table 2025-2030 Offshore Decommissioning Global Market Share by Type

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