



GLOBAL FLOATING PRODUCTION STORAGE AND OFFLOADING (FPSO) MARKET

Market Size, Share and Forecast; Market Outlook, Opportunity and Data Analysis 2023-2030

TABLE OF CONTENTS

Section 1			
Global Floating Production Storage and Offloading (FPSO) Market Methodology and Scope			
▪ Research methodology			
▪ Scope of the Report			
Section 2			
Global Floating Production Storage and Offloading (FPSO) Market Definition and Overview			
Section 3			
Global Floating Production Storage and Offloading (FPSO) Market – Executive Summary			
▪ Market Snippet by Type			
▪ Market Snippet by Carrier Type			
▪ Market Snippet by Depth			
▪ Market Snippet by Hull Type			
▪ Market Snippet by Region			

*Primary Analysis**Secondary Analysis**DataM Intelligence Analysis*

TABLE OF CONTENTS

Section 4

Global Floating Production Storage and Offloading (FPSO) Market – Market Dynamics

▪ Market Impacting Factors

▪ Drivers



▪ Rise in offshore activities in deep water areas

▪ Flexibility of the system

▪ Restraints

▪ Severe budget constraints and limited FPSO service to the current production platforms



▪ Opportunity

▪ XX



▪ Impact Analysis

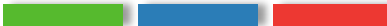


TABLE OF CONTENTS

Section 5

Global Floating Production Storage and Offloading (FPSO) Market – Industry Factors













▪ Porter’s Five Force Analysis			
▪ Regulatory Analysis			
▪ Supply Chain Analysis			
▪ Pricing Analysis			



TABLE OF CONTENTS

Section 6

Global Floating Production Storage and Offloading (FPSO) Market – By COVID-19 Analysis



























▪ Analysis of COVID-19 on the Market*			
▪ Before COVID-19 Market Scenario			
▪ Present COVID-19 Market Scenario			
▪ After COVID-19 or Future Scenario			
▪ Pricing Dynamics Amid COVID-19			
▪ Demand-Supply Spectrum			
▪ Government Initiatives Related to the Market During Pandemic			
▪ Manufacturers Strategic Initiatives			
▪ Conclusion			



TABLE OF CONTENTS

Section 7

Global Floating Production Storage and Offloading (FPSO) Market – By Type




























▪ Introduction			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Type			
▪ Market Attractiveness Index, By Type			
▪ Oil*			
▪ Introduction			
▪ Market Size Analysis, US\$ Million, 2021-2030 and Y-o-Y Growth Analysis (%), 2022-2030			
▪ LPG			
▪ LNG			
▪ Others			



TABLE OF CONTENTS

Section 8

Global Floating Production Storage and Offloading (FPSO) Market – By Carrier Type


































▪ Introduction			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Carrier Type			
▪ Market Attractiveness Index, By Carrier Type			
▪ Converted Ship*			
▪ Introduction			
▪ Market Size Analysis, US\$ Million, 2021-2030 and Y-o-Y Growth Analysis (%), 2022-2030			
▪ New Build Ship			
▪ Redeployed			
▪ Asphalt			
▪ Ceramic			
▪ Metals			

TABLE OF CONTENTS

Section 9

Global Floating Production Storage and Offloading (FPSO) Market – By Depth






















▪ Introduction			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Depth			
▪ Market Attractiveness Index, By Depth			
▪ Shallow Water*			
▪ Introduction			
▪ Market Size Analysis, US\$ Million, 2021-2030 and Y-o-Y Growth Analysis (%), 2022-2030			
▪ Deep & Ultra-deep Water			



TABLE OF CONTENTS

Section 10

Global Floating Production Storage and Offloading (FPSO) Market – By Hull Type






















▪ Introduction			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Hull Type			
▪ Market Attractiveness Index, By Hull Type			
▪ Single Hull*			
▪ Introduction			
▪ Market Size Analysis, US\$ Million, 2021-2030 and Y-o-Y Growth Analysis (%), 2022-2030			
▪ Double Hull			



TABLE OF CONTENTS

Section 11

Global Floating Production Storage and Offloading (FPSO) Market – By Region

▪ Introduction			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Region			
▪ Market Attractiveness Index, By Region			
▪ North America			
▪ Introduction			
▪ Key Region-Specific Dynamics			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Carrier Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Depth			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Hull Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Country			
▪ U.S.			
▪ Canada			
▪ Mexico			

TABLE OF CONTENTS

Section 11

Global Floating Production Storage and Offloading (FPSO) Market – By Region



▪ South America			
▪ Introduction			
▪ Key Region-Specific Dynamics			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Carrier Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Depth			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Hull Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Country			
▪ Brazil			
▪ Argentina			
▪ Rest of South America			



TABLE OF CONTENTS

Section 11

Global Floating Production Storage and Offloading (FPSO) Market – By Region

▪ Europe			
▪ Introduction			
▪ Key Region-Specific Dynamics			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Carrier Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Depth			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Hull Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Country			
▪ Germany			
▪ UK			
▪ France			
▪ Spain			
▪ Italy			
▪ Rest of Europe			



TABLE OF CONTENTS

Section 11

Global Floating Production Storage and Offloading (FPSO) Market – By Region







































▪ Asia-Pacific			
▪ Introduction			
▪ Key Region-Specific Dynamics			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Carrier Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Depth			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Hull Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Country			
▪ China			
▪ India			
▪ Japan			
▪ Australia			
▪ Rest of Asia-Pacific			



TABLE OF CONTENTS

Section 11

Global Floating Production Storage and Offloading (FPSO) Market – By Region






























▪ Middle East & Africa			
▪ Introduction			
▪ Key Region-Specific Dynamics			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Carrier Type			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Depth			
▪ Market Size Analysis and Y-o-Y Growth Analysis (%), By Hull Type			



TABLE OF CONTENTS

Section 12

Global Floating Production Storage and Offloading (FPSO) Market – Competitive Landscape

▪ Competitive Scenario			
▪ Market Positioning/Share Analysis			
▪ Mergers and Acquisitions Analysis			

Section 13

Global Floating Production Storage and Offloading (FPSO) Market – Company Profiles

▪ BP Plc *			
▪ Company Overview			
▪ Product Portfolio and Description			
▪ Key Highlights			
▪ Financial Overview			
▪ Aker Solutions ASA			
▪ Bluewater Energy Services B.V.			
▪ Bumi Armada Berhad			
▪ BW Offshore			

TABLE OF CONTENTS

Section 13

Global Floating Production Storage and Offloading (FPSO) Market – Company Profiles

▪ Chevron Corporation.			
▪ ExxonMobil			
▪ MODEC			
▪ Petrobras			
▪ Petronas			
▪ SBM Offshore			
▪ Shell Plc			
▪ Teekay Corporation			
▪ Yinson Holdings Berhad			
<i>LIST NOT EXHAUSTIVE</i>			

TABLE OF CONTENTS

Section 14

Global Floating Production Storage and Offloading (FPSO) Market – DataM

▪ Appendix	■
▪ About Us and Services	■
▪ Contact Us	■

Note:
“” indicates the similar breakdown for rest of the segmentation in the scope*



EXECUTIVE SUMMARY

List of Tables

- Table 1 Global Floating Production Storage and Offloading (FPSO) Market Value, By Type, 2022, 2026 & 2030 (US\$ Million)
- Table 2 Global Floating Production Storage and Offloading (FPSO) Market Value, By Carrier Type, 2022, 2026 & 2030 (US\$ Million)
- Table 3 Global Floating Production Storage and Offloading (FPSO) Market Value, By Depth, 2022, 2026 & 2030 (US\$ Million)
- Table 4 Global Floating Production Storage and Offloading (FPSO) Market Value, By Hull Type, 2022, 2026 & 2030 (US\$ Million)
- Table 5 Global Floating Production Storage and Offloading (FPSO) Market Value, By Region, 2022, 2026 & 2030 (US\$ Million)
- Table 6 Global Floating Production Storage and Offloading (FPSO) Market Value, By Type, 2022, 2026 & 2030 (US\$ Million)
- Table 7 Global Floating Production Storage and Offloading (FPSO) Market Value, By Type, 2021-2030 (US\$ Million)
- Table 8 Global Floating Production Storage and Offloading (FPSO) Market Value, By Carrier Type, 2022, 2026 & 2030 (US\$ Million)
- Table 9 Global Floating Production Storage and Offloading (FPSO) Market Value, By Carrier Type, 2021-2030 (US\$ Million)
- Table 10 Global Floating Production Storage and Offloading (FPSO) Market Value, By Depth, 2022, 2026 & 2030 (US\$ Million)
- Table 11 Global Floating Production Storage and Offloading (FPSO) Market Value, By Depth, 2021-2030 (US\$ Million)
- Table 12 Global Floating Production Storage and Offloading (FPSO) Market Value, By Hull Type, 2022, 2026 & 2030 (US\$ Million)
- Table 13 Global Floating Production Storage and Offloading (FPSO) Market Value, By Hull Type, 2021-2030 (US\$ Million)
- Table 14 Global Floating Production Storage and Offloading (FPSO) Market Value, By Region, 2022, 2026 & 2030 (US\$ Million)
- Table 15 Global Floating Production Storage and Offloading (FPSO) Market Value, By Region, 2021-2030 (US\$ Million)

EXECUTIVE SUMMARY

List of Tables

- Table 16 North America Floating Production Storage and Offloading (FPSO) Market Value, By Type, 2021-2030 (US\$ Million)
- Table 17 North America Floating Production Storage and Offloading (FPSO) Market Value, By Carrier Type, 2021-2030 (US\$ Million)
- Table 18 North America Floating Production Storage and Offloading (FPSO) Market Value, By Depth, 2021-2030 (US\$ Million)
- Table 19 North America Floating Production Storage and Offloading (FPSO) Market Value, By Hull Type, 2021-2030 (US\$ Million)
- Table 20 North America Floating Production Storage and Offloading (FPSO) Market Value, By Country, 2021-2030 (US\$ Million)
- Table 21 South America Floating Production Storage and Offloading (FPSO) Market Value, By Type, 2021-2030 (US\$ Million)
- Table 22 South America Floating Production Storage and Offloading (FPSO) Market Value, By Carrier Type, 2021-2030 (US\$ Million)
- Table 23 South America Floating Production Storage and Offloading (FPSO) Market Value, By Depth, 2021-2030 (US\$ Million)
- Table 24 South America Floating Production Storage and Offloading (FPSO) Market Value, By Hull Type, 2021-2030 (US\$ Million)
- Table 25 South America Floating Production Storage and Offloading (FPSO) Market Value, By Country, 2021-2030 (US\$ Million)
- Table 26 Europe Floating Production Storage and Offloading (FPSO) Market Value, By Type, 2021-2030 (US\$ Million)
- Table 27 Europe Floating Production Storage and Offloading (FPSO) Market Value, By Carrier Type, 2021-2030 (US\$ Million)
- Table 28 Europe Floating Production Storage and Offloading (FPSO) Market Value, By Depth, 2021-2030 (US\$ Million)
- Table 29 Europe Floating Production Storage and Offloading (FPSO) Market Value, By Hull Type, 2021-2030 (US\$ Million)
- Table 30 Europe Floating Production Storage and Offloading (FPSO) Market Value, By Country, 2021-2030 (US\$ Million)

EXECUTIVE SUMMARY

List of Tables

- Table 31 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Value, By Type, 2021-2030 (US\$ Million)
- Table 32 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Value, By Carrier Type, 2021-2030 (US\$ Million)
- Table 33 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Value, By Depth, 2021-2030 (US\$ Million)
- Table 34 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Value, By Hull Type, 2021-2030 (US\$ Million)
- Table 35 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Value, By Country, 2021-2030 (US\$ Million)
- Table 36 Middle East & Africa Floating Production Storage and Offloading (FPSO) Market Value, By Type, 2021-2030 (US\$ Million)
- Table 37 Middle East & Africa Floating Production Storage and Offloading (FPSO) Market Value, By Carrier Type, 2021-2030 (US\$ Million)
- Table 38 Middle East & Africa Floating Production Storage and Offloading (FPSO) Market Value, By Depth, 2021-2030 (US\$ Million)
- Table 39 Middle East & Africa Floating Production Storage and Offloading (FPSO) Market Value, By Hull Type, 2021-2030 (US\$ Million)
- Table 40 BP Plc : Overview
- Table 41 BP Plc : Product Portfolio
- Table 42 BP Plc : Key Developments
- Table 43 Aker Solutions ASA: Overview
- Table 44 Aker Solutions ASA: Product Portfolio
- Table 45 Aker Solutions ASA: Key Developments

EXECUTIVE SUMMARY**List of Tables**

- Table 46 Bluewater Energy Services B.V.: Overview
- Table 47 Bluewater Energy Services B.V.: Product Portfolio
- Table 48 Bluewater Energy Services B.V.: Key Developments
- Table 49 Bumi Armada Berhad: Overview
- Table 50 Bumi Armada Berhad: Product Portfolio
- Table 51 Bumi Armada Berhad: Key Developments
- Table 52 BW Offshore: Overview
- Table 53 BW Offshore: Product Portfolio
- Table 54 BW Offshore: Key Developments
- Table 55 Chevron Corporation.: Overview
- Table 56 Chevron Corporation.: Product Portfolio
- Table 57 Chevron Corporation.: Key Developments
- Table 58 ExxonMobil: Overview
- Table 59 ExxonMobil: Product Portfolio
- Table 60 ExxonMobil: Key Developments

EXECUTIVE SUMMARY**List of Tables**

- Table 61 MODEC: Overview
- Table 62 MODEC: Product Portfolio
- Table 63 MODEC: Key Developments
- Table 64 Petrobras: Overview
- Table 65 Petrobras: Product Portfolio
- Table 66 Petrobras: Key Developments
- Table 67 Petronas: Overview
- Table 68 Petronas: Product Portfolio
- Table 69 Petronas: Key Developments
- Table 70 SBM Offshore: Overview
- Table 71 SBM Offshore: Product Portfolio
- Table 72 SBM Offshore: Key Developments
- Table 73 Shell Plc: Overview
- Table 74 Shell Plc: Product Portfolio
- Table 75 Shell Plc: Key Developments

EXECUTIVE SUMMARY

List of Tables

- Table 76 Teekay Corporation: Overview
- Table 77 Teekay Corporation: Product Portfolio
- Table 78 Teekay Corporation: Key Developments
- Table 79 Yinson Holdings Berhad: Overview
- Table 80 Yinson Holdings Berhad: Product Portfolio
- Table 81 Yinson Holdings Berhad: Key Developments

EXECUTIVE SUMMARY

List of Figures

- Figure 01 Global Floating Production Storage and Offloading (FPSO) Market Share, By Type, 2022 & 2030 (%)
- Figure 02 Global Floating Production Storage and Offloading (FPSO) Market Share, By Carrier Type, 2022 & 2030 (%)
- Figure 03 Global Floating Production Storage and Offloading (FPSO) Market Share, By Depth, 2022 & 2030 (%)
- Figure 04 Global Floating Production Storage and Offloading (FPSO) Market Share, By Hull Type, 2022 & 2030 (%)
- Figure 05 Global Floating Production Storage and Offloading (FPSO) Market Share, By Region, 2022 & 2030 (%)
- Figure 06 Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 07 Global Floating Production Storage and Offloading (FPSO) Market Y-o-Y Growth, By Type, 2021-2030 (%)
- Figure 08 Oil: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 09 LPG: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 10 LNG: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 11 Others: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 12 Global Floating Production Storage and Offloading (FPSO) Market Y-o-Y Growth, By Carrier Type, 2021-2030 (%)
- Figure 13 Converted Ship: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 14 New Build Ship: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 15 Redeployed: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)

EXECUTIVE SUMMARY

List of Figures

- Figure 16 Global Floating Production Storage and Offloading (FPSO) Market Y-o-Y Growth, By Depth, 2021-2030 (%)
- Figure 17 Shallow Water: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 18 Deep & Ultra-deep Water: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 19 Global Floating Production Storage and Offloading (FPSO) Market Y-o-Y Growth, By Hull Type, 2021-2030 (%)
- Figure 20 Single Hull: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 21 Double Hull: Global Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 22 Global Floating Production Storage and Offloading (FPSO) Market Y-o-Y Growth, By Region, 2021-2030 (%)
- Figure 23 North America Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 24 North America Floating Production Storage and Offloading (FPSO) Market Share, By Type, 2022 & 2030 (%)
- Figure 25 North America Floating Production Storage and Offloading (FPSO) Market Share, By Carrier Type, 2022 & 2030 (%)
- Figure 26 North America Floating Production Storage and Offloading (FPSO) Market Share, By Depth, 2022 & 2030 (%)
- Figure 27 North America Floating Production Storage and Offloading (FPSO) Market Share, By Hull Type, 2022 & 2030 (%)
- Figure 28 North America Floating Production Storage and Offloading (FPSO) Market Share, By Country, 2022 & 2030 (%)
- Figure 29 South America Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 30 South America Floating Production Storage and Offloading (FPSO) Market Share, By Type, 2022 & 2030 (%)

EXECUTIVE SUMMARY

List of Figures

- Figure 31 South America Floating Production Storage and Offloading (FPSO) Market Share, By Carrier Type, 2022 & 2030 (%)
- Figure 32 South America Floating Production Storage and Offloading (FPSO) Market Share, By Depth, 2022 & 2030 (%)
- Figure 33 South America Floating Production Storage and Offloading (FPSO) Market Share, By Hull Type, 2022 & 2030 (%)
- Figure 34 South America Floating Production Storage and Offloading (FPSO) Market Share, By Country, 2022 & 2030 (%)
- Figure 35 Europe Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 36 Europe Floating Production Storage and Offloading (FPSO) Market Share, By Type, 2022 & 2030 (%)
- Figure 37 Europe Floating Production Storage and Offloading (FPSO) Market Share, By Carrier Type, 2022 & 2030 (%)
- Figure 38 Europe Floating Production Storage and Offloading (FPSO) Market Share, By Depth, 2022 & 2030 (%)
- Figure 39 Europe Floating Production Storage and Offloading (FPSO) Market Share, By Hull Type, 2022 & 2030 (%)
- Figure 40 Europe Floating Production Storage and Offloading (FPSO) Market Share, By Country, 2022 & 2030 (%)
- Figure 41 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 42 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Share, By Type, 2022 & 2030 (%)
- Figure 43 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Share, By Carrier Type, 2022 & 2030 (%)
- Figure 44 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Share, By Depth, 2022 & 2030 (%)
- Figure 45 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Share, By Hull Type, 2022 & 2030 (%)

EXECUTIVE SUMMARY

List of Figures

- Figure 46 Asia-Pacific Floating Production Storage and Offloading (FPSO) Market Share, By Country, 2022 & 2030 (%)
- Figure 47 Middle East & Africa Floating Production Storage and Offloading (FPSO) Market Value, 2021-2030 (US\$ Million)
- Figure 48 Middle East & Africa Floating Production Storage and Offloading (FPSO) Market Share, By Type, 2022 & 2030 (%)
- Figure 49 Middle East & Africa Floating Production Storage and Offloading (FPSO) Market Share, By Carrier Type, 2022 & 2030 (%)
- Figure 50 Middle East & Africa Floating Production Storage and Offloading (FPSO) Market Share, By Depth, 2022 & 2030 (%)
- Figure 51 Middle East & Africa Floating Production Storage and Offloading (FPSO) Market Share, By Hull Type, 2022 & 2030 (%)
- Figure 52 BP Plc : Financials
- Figure 53 Aker Solutions ASA: Financials
- Figure 54 Bluewater Energy Services B.V.: Financials
- Figure 55 Bumi Armada Berhad: Financials
- Figure 56 BW Offshore: Financials
- Figure 57 Chevron Corporation.: Financials
- Figure 58 ExxonMobil: Financials
- Figure 59 MODEC: Financials
- Figure 60 Petrobras: Financials

EXECUTIVE SUMMARY

List of Figures

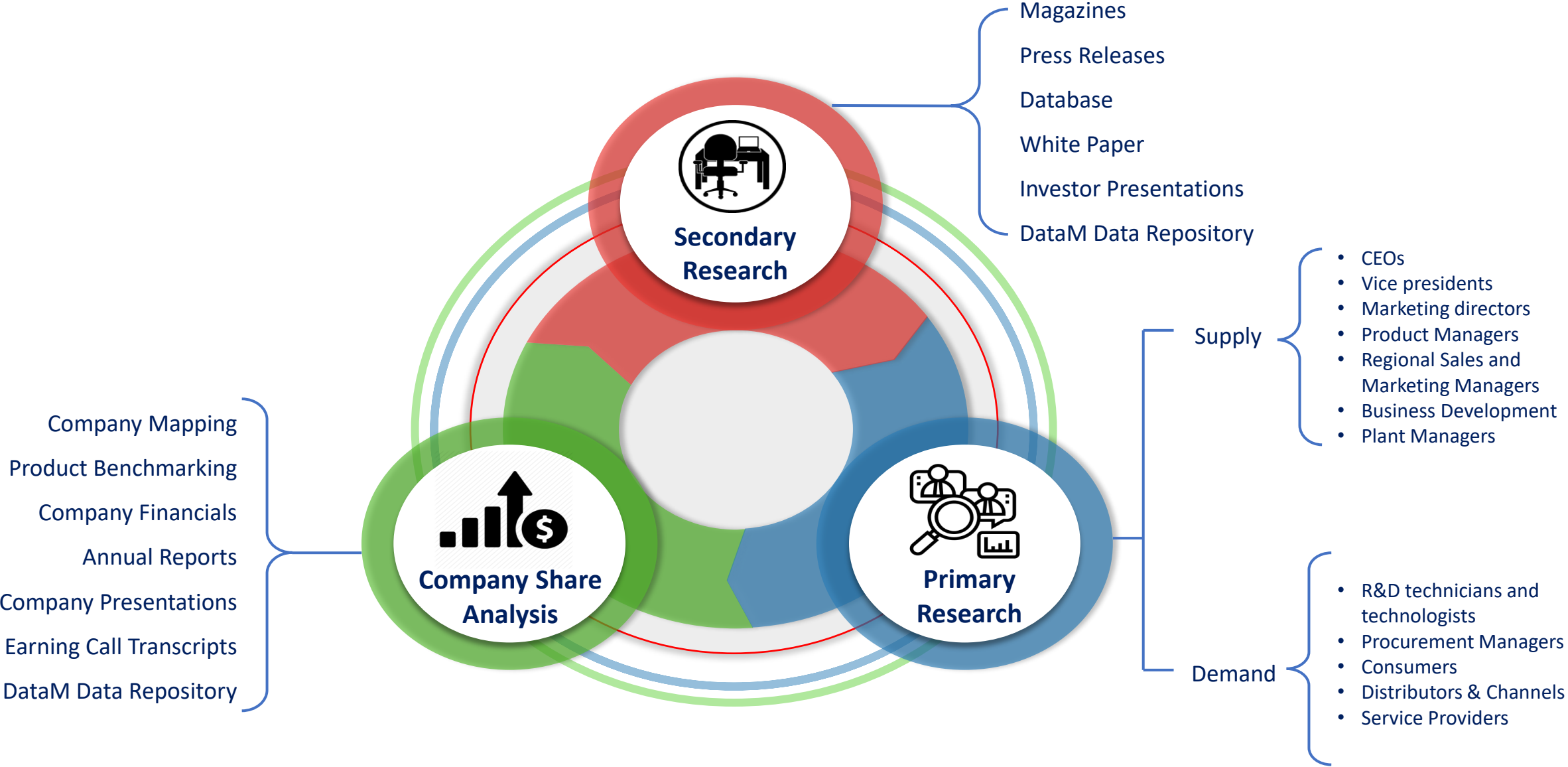
- Figure 61 Petronas: Financials
- Figure 62 Shell Plc: Financials
- Figure 63 SBM Offshore: Financials
- Figure 64 Teekay Corporation: Financials
- Figure 65 Yinson Holdings Berhad: Financials

SECTION 1

METHODOLOGY & SCOPE

- Research Methodology
- Scope of the Report

RESEARCH METHODOLOGY



RESEARCH METHODOLOGY

SECONDARY RESEARCH



Data is gathered from various secondary databases.

Diligently tracking the secondary sources for closely monitoring the market trends and insights.

Analysts compile the whole data from demand and supply-side perceptions for the better outputs.

Sources of Secondary Research

- Associations
- Company Annual Reports
- Journals, White papers & Research Publications
- External Verified Databases
- Internal Database

RESEARCH METHODOLOGY

PRIMARY RESEARCH



Discussion guides or questionnaires are prepared to obtain the productive information of the market.

The primary research is conducted through e-mails, face-to-face and telephonic interviews.

This helps in analyzing the scope, market dynamics, industry competitiveness, micro and macro factors of the market.

Sources of Primary Research

- Manufacturers
- Traders, retailers, distributors
- R&D Department
- Technical Experts
- End-Users of the product

Each study covers more than 20 primary interviews, segmented into 10 demand and supply. The regions covered for primary interviews are North America, Europe, Asia-Pacific, South America and Middle East & Africa.

RESEARCH METHODOLOGY

COMPANY SHARE ANALYSIS



The final step involved in our research methodology include company share analysis and company insights for market size estimation. With an internal team on company profiles and company share analysis, we study/assess the entire company product portfolio in all the aspects including company overview, product portfolio, company developments, financials and SWOT of a company.

RESEARCH METHODOLOGY

MARKET SIZE ESTIMATION

Both, top-down and bottom-up approaches were used to estimate and validate the size of the market and various other dependent submarkets. The research methodology used to estimate the market size includes the following details: the key players in the market were identified through secondary research and their market shares in respective regions were determined through primary and secondary research. This entire procedure includes extensive interviews for key insights from industry leaders, such as CEOs, VPs, directors and marketing executives. All percentage shares, splits, breakdowns were determined using secondary sources and verified through primary sources. All possible parameters that affect the markets covered in this research study have been accounted for, viewed in extensive detail, verified through primary research and analyzed to get the final quantitative & qualitative data.

DATA TRIANGULATION

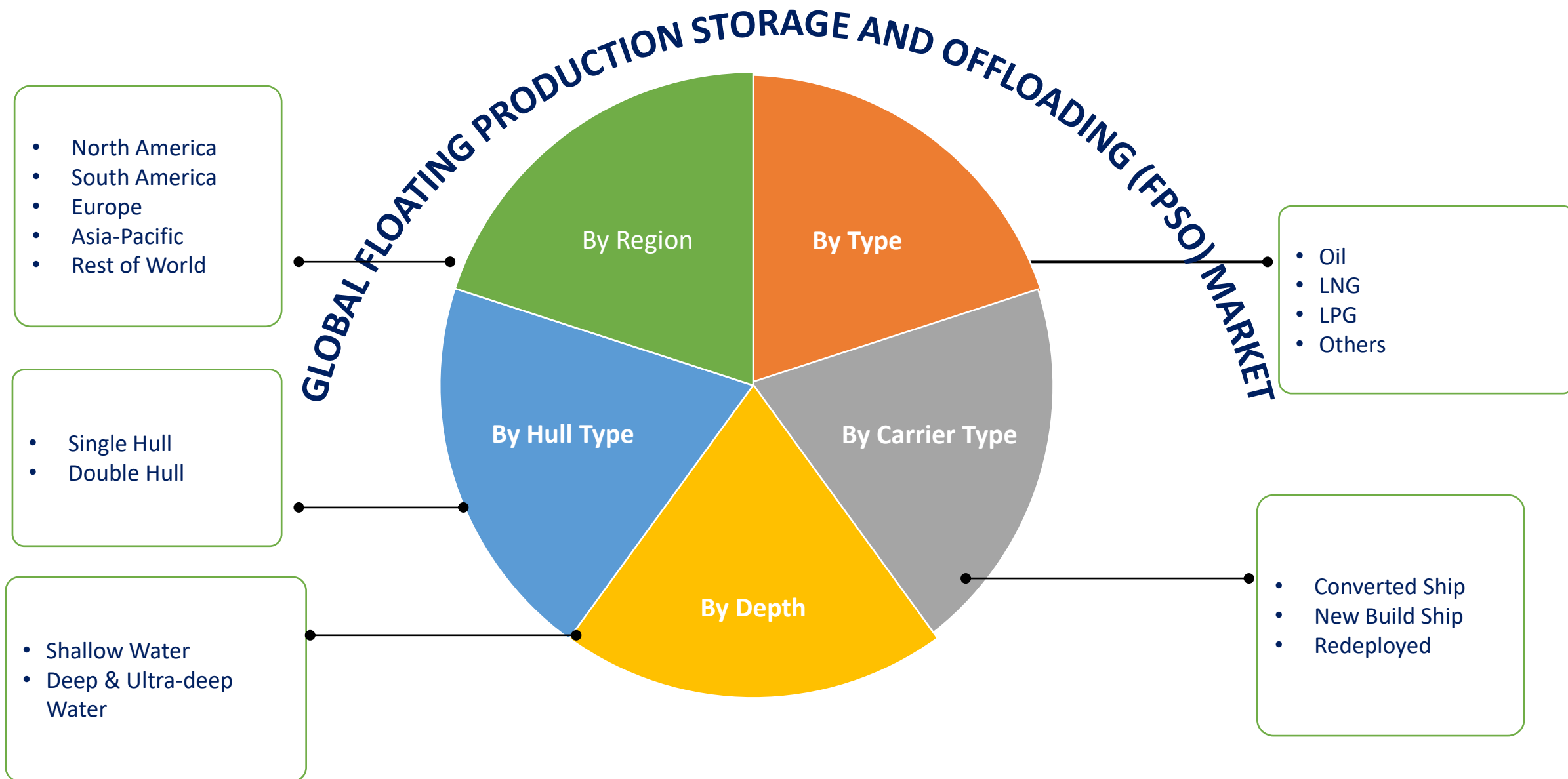
Once we derive the market numbers from secondary, validate through primary sources and company share analysis, we then bring in the market engineering phenomenon, by regression method and arrive to the very precise and exact data segment and sub-segment. In data triangulation, the market numbers for each segment and sub-segment is been backed up/validated by either primary, secondary and company share analysis, providing the best and most accurate numbers. Thus, the concept of data triangulation exists for our research methodology with 360* validation.

SECTION 2

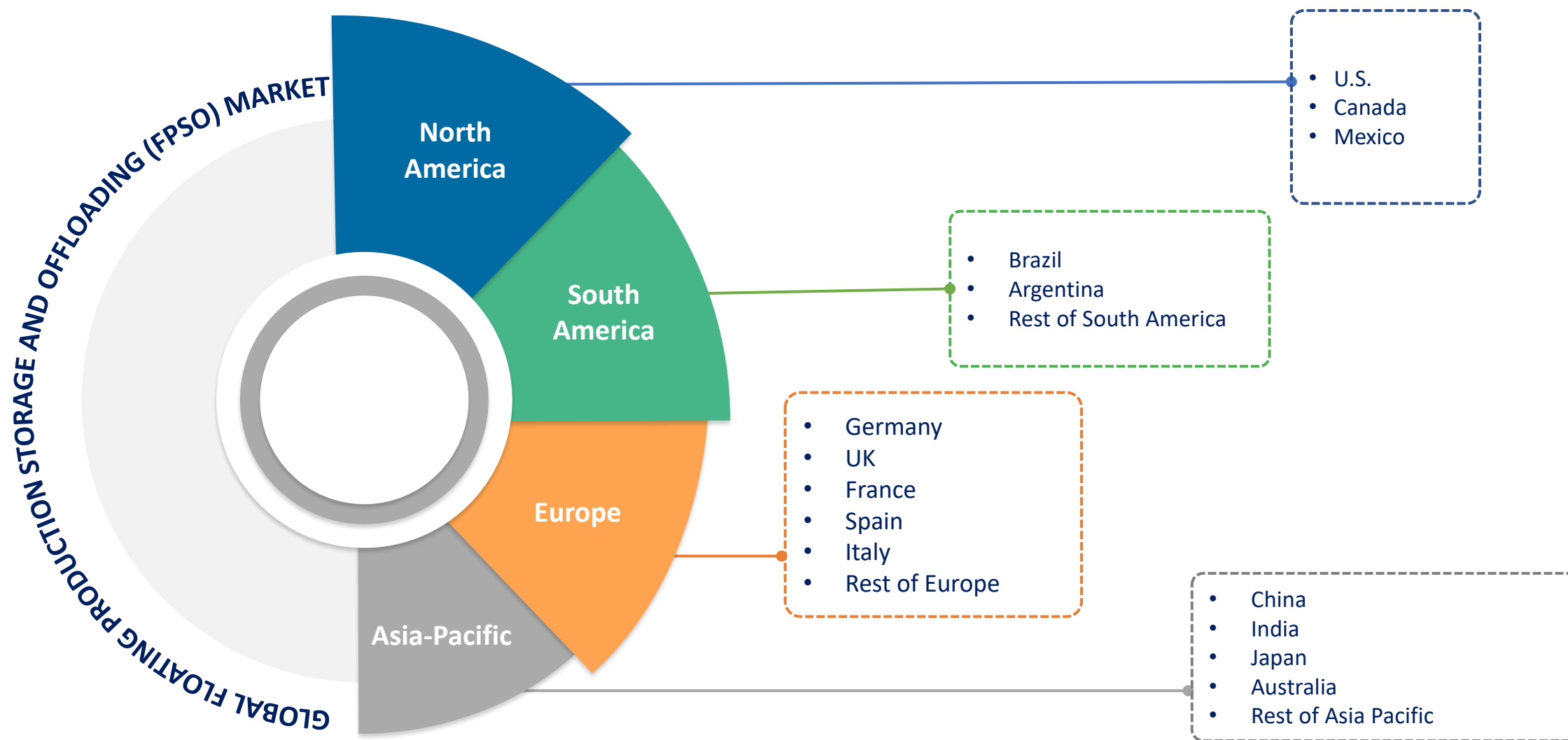
DEFINITION AND OVERVIEW

- Market Definition and Overview

MARKET DEFINITION AND OVERVIEW



MARKET DEFINITION AND OVERVIEW



MARKET DEFINITION – TYPE

OIL

- A (converted) oil tanker hull often serves as the foundation for a floating production, storage and offloading (FPSO) plant. It has hydrocarbon processing tools for separating and treating water and crude oil that are transported to it via flexible pipelines from subsea oil wells.
- Oil firms may now economically produce oil a little further in locations and deeper water due to the FPSO concept than they could have done with alternative equipment, such as stationary stacked structures.

LNG

- The idea of floating LNG (FLNG) has always been appealing for several reasons, including its ability to be located far offshore without the need for a jetty or product pipeline, its potential to be redeployed to another large gas field and its reduced impact on native populations, flora and fauna when compared to LNG plants on land.
- Gas field developers have the confidence to build FLNG vessels due to several decades of successful track records with the development of LNG onshore plants and Floating Production Storage and Offloading (FPSO).

LPG

- LPG FPSO represents the building of an LPG processing plant installed on a floating structure.
- FPSO helps to eliminate routine gas flaring while collecting and injecting collected gas to increase oil and LPG production
- The Sanha LPG FPSO is the world's largest project in terms of LPG storage capacity and the first New Build LPG FPSO.

OTHERS

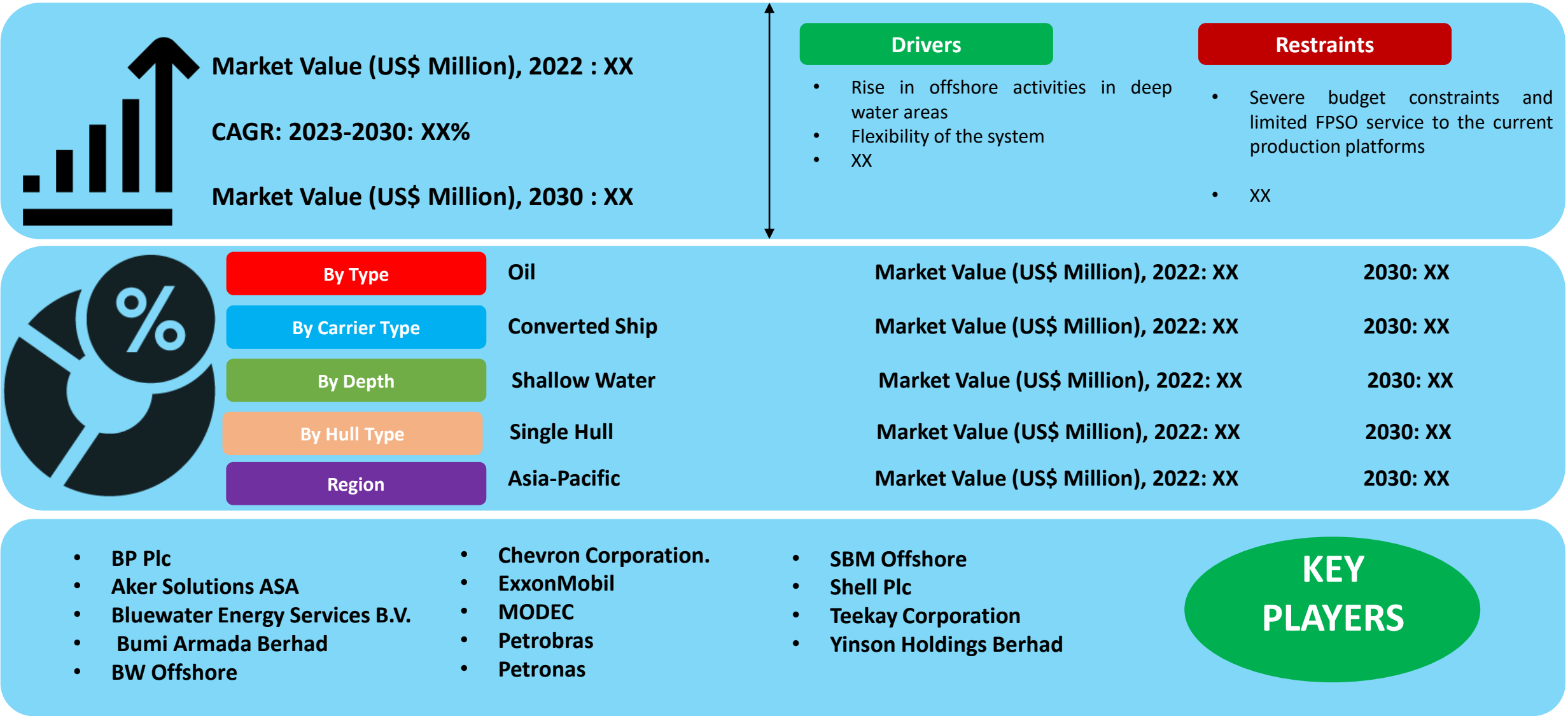
- The other segments of the market cover other types of natural gas processing. FPSOs have the potential to store processed gas and offload it to shuttle tankers for transportation to refineries.
- The FPSO gas components include gas dehydration, gas compression, water injection and gas and water and oil separator.

SECTION 3

EXECUTIVE SUMMARY

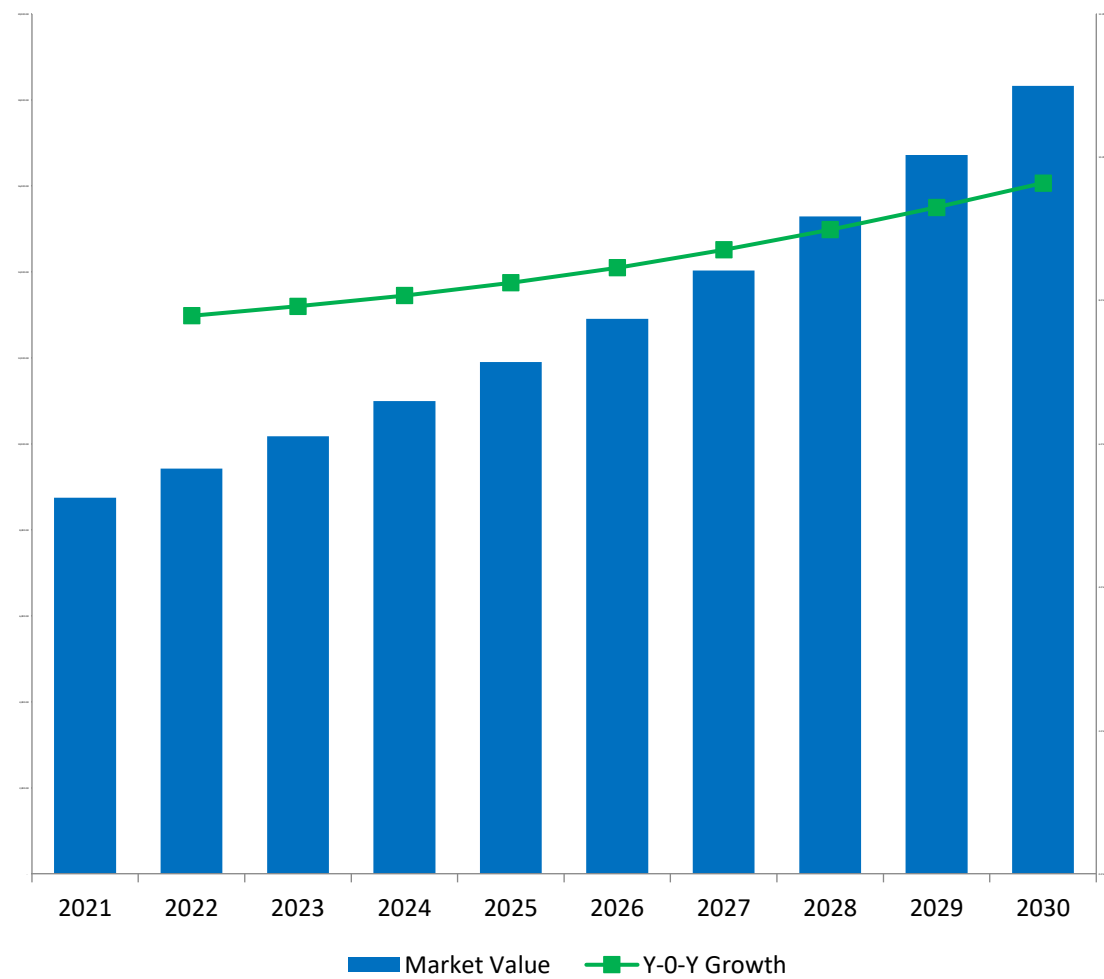
- Market Snippet by Type
- Market Snippet by Carrier Type
- Market Snippet by Depth
- Market Snippet by Hull Type
- Market Snippet by Region

EXECUTIVE SUMMARY



EXECUTIVE SUMMARY

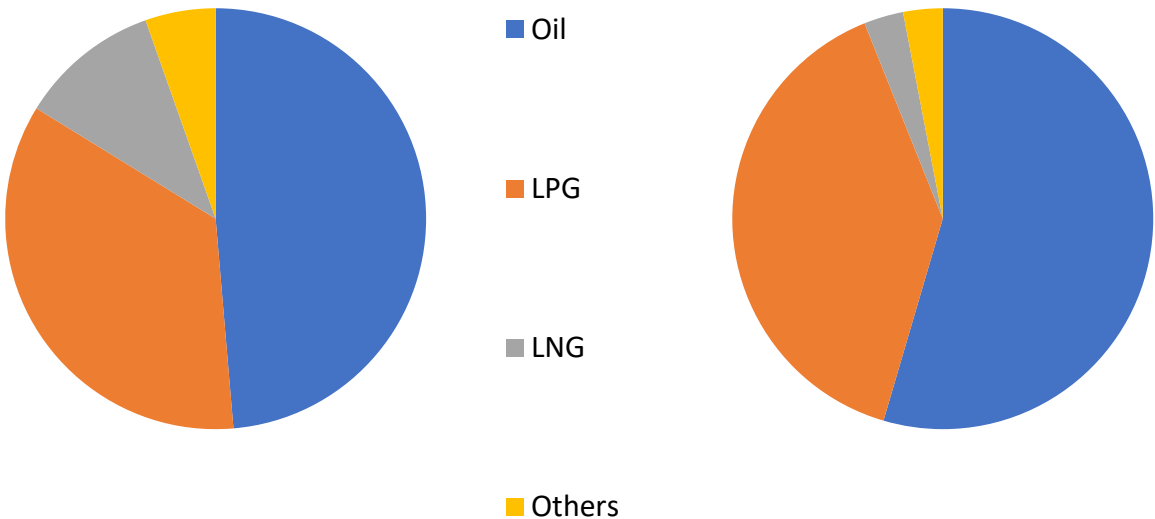
Global Floating Production Storage and Offloading (FPSO)
Market Value (US\$ Million), 2021-2030



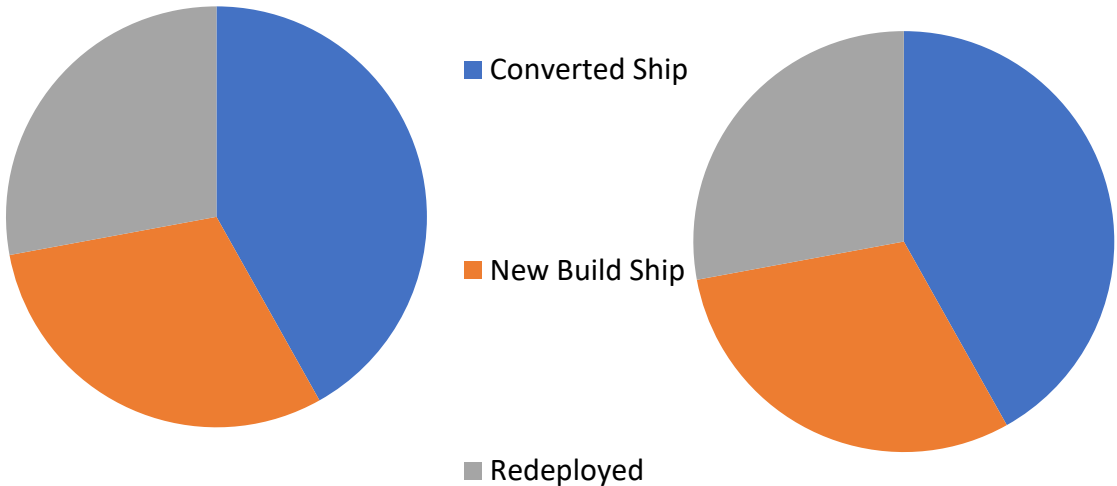
- The global floating production storage and offloading (FPSO) market reached US\$ XX million in 2022 and is expected to grow at a CAGR of XX% to reach US\$ XX million by 2030.
- Floating production storage and offloading (FPSO) vessel is a floating production system used for offshore production, storage and offloading of oil and gas. With over 100 deployments worldwide, ship-shaped FPSOs are the most popular floating production unit form. The most economical equipment, FPSOs, continues to be popular as operators move into deeper seas.
- Ship-shaped FPSO design, upkeep and inspection have benefited from the vast tanker knowledge. The main distinction between a trade tanker and an FPSO moored at a specific area is that dry-docking for inspections would be more difficult and frequently impossible for FPSOs that must be stationary at the offshore site.
- The global market is anticipated to be driven by the rising demand for floating production storage and offloading (FPSO) units due to increased investment in offshore oil and gas exploration, particularly in deep-water and ultra-deepwater areas.

EXECUTIVE SUMMARY

By Type, 2022 & 2030

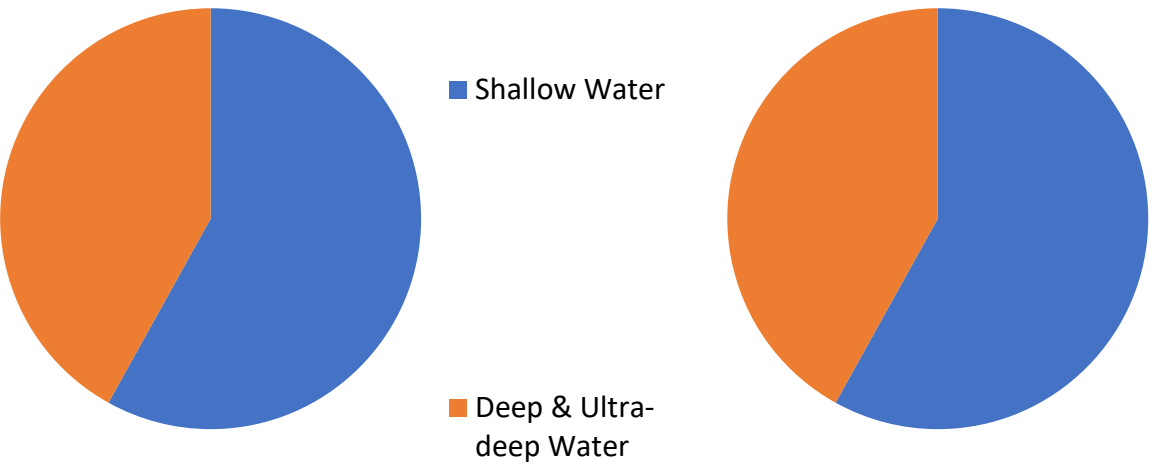


By Carrier Type, 2022 & 2030

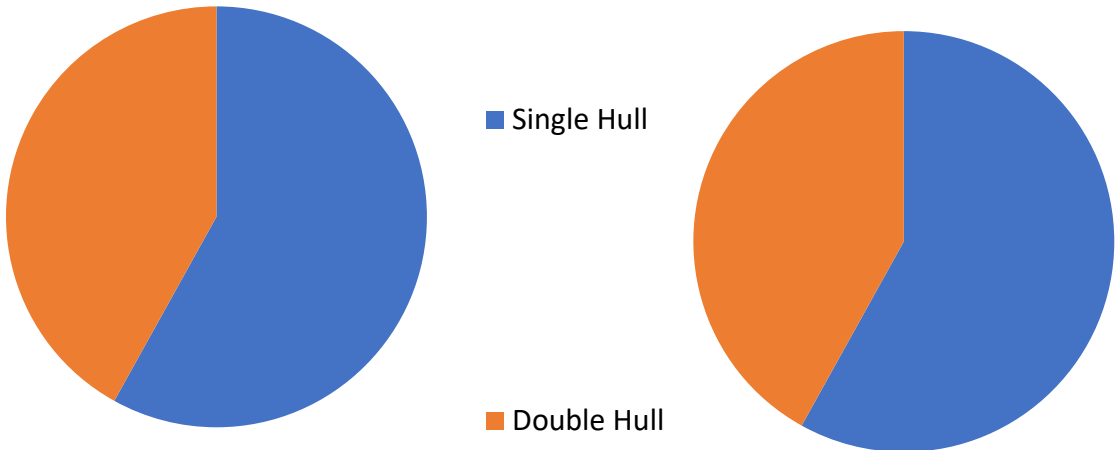


EXECUTIVE SUMMARY

By Depth, 2022 & 2030

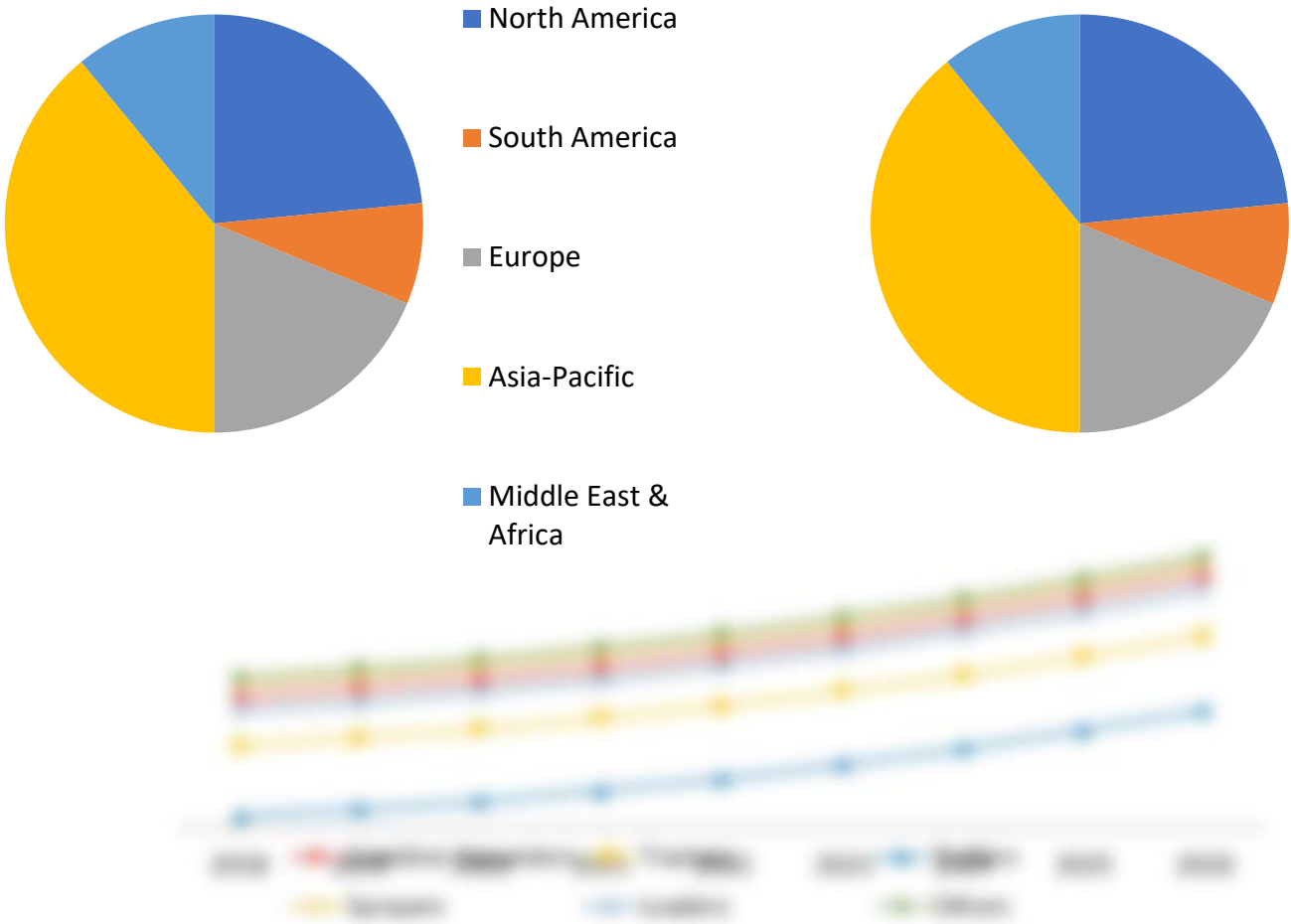


By Hull Type, 2022 & 2030



EXECUTIVE SUMMARY

By Region, 2022 & 2030



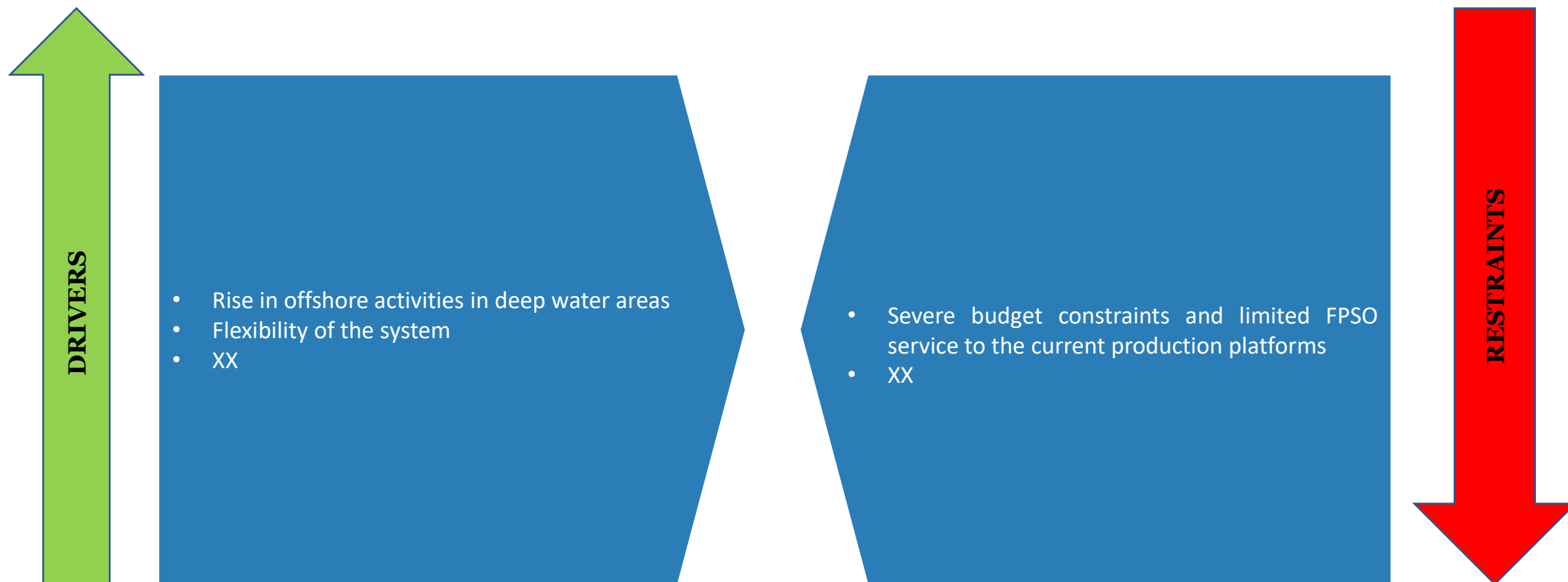
SECTION 4

MARKET DYNAMICS

- Drivers
- Restraints
- Opportunities
- Impact Analysis

MARKET DYNAMICS

MARKET DRIVERS AND RESTRAINTS



MARKET DYNAMICS

Rise in offshore activities in deep water areas

DRIVERS

- In the past many years, operators have been pushing the boundaries of ultra-deepwater exploration, particularly in the Arctic region, in quest of fresh oil and gas assets. According to a U.S. geological analysis, the Arctic region harbors nearly 30% of the world's undiscovered gas and 13% of its unknown oil reserves. These figures demand to invest much money in the Arctic.
- U.S. Geological Survey estimates that five provinces—Amerasia Basin, Arctic Alaska, East Greenland Rift Basins, East Barents Basins and West Greenland-East Canada—hold around 70% of undiscovered oil resources, which has massively improved petroleum resource development of the region. The mentioned numbers present a lucrative opportunity for FPSO service providers.
- Apart from the arctic, A flurry of offshore activity in Asia-Pacific, particularly in India, leads to strong and long-term contracts for the FPSO business. For instance, in 2021, Egypt plans to explore oil and natural gas at 9 new sites in the Red Sea and the Mediterranean, which will need around US\$ 1.4 billion in investment into the country's offshore sector. Moreover, By 2035, offshore oil and natural gas development is expected to produce an incremental 1.3 million barrels of oil equivalent per day and contribute up to US\$23.5 billion per year to U.S. economy while generating US\$ 51 billion in cumulative government revenue.
- Deep-water offshore regions are seeing an increase in exploration due to the depletion of existing onshore oil and gas reserves. Most oil and gas exploration occurs in offshore fields, particularly in the North Sea, Brazil and West Africa. Global investments in new oil and gas fields are being driven by increased demand for oil and gas due to rising fuel consumption. Additionally, it is anticipated that demand for FPSOs would increase throughout the projection period due to upstream oil and gas industry expansion and government incentives to promote offshore oil and gas exploration.

MARKET DYNAMICS - OPPORTUNITIES

01

Lorem ipsum is simply dummy text of the printing and
typesetting industry. Lorem ipsum has been the industry's
standard dummy text ever since the 1500s, when an
unknown printer took a galley of type and scrambled it to
make a type specimen book.

02

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03

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scrambled it to make a type specimen book.



COVID-19 IMPACT ANALYSIS

- Protein hydrolysates are mixtures of amino acids, oligopeptides, and polypeptides that are manufactured from protein sources using partial hydrolysis. It is a type of protein that is partly hydrolyzed or digested by consuming, which makes it easier to absorb or digest.
- Hydrolysates are the most common Food Based ingredient, with their efficiency in improving health of both humans and animals. Protein hydrolysates are used in human food formulations, such as infant formulae and animal feeds to improve their nutritional value.
- These are also useful for fortifying fruit juices and other drinks owing to their functional properties. Protein hydrolysate has a particular application in sports medicine because it enables amino acids to be consumed by the body more efficiently than intact proteins, resulting in improved nutrient distribution to muscle tissue.
- It's also used as a complement to cell cultures in the biotechnology industry. Moreover, their effect on lowering blood pressure has raised their popularity as therapeutic dietary agents.
- Hydrolysates are the most common Food Based ingredient, with their efficiency in improving health of both humans and animals. Protein hydrolysates are used in human food formulations, such as infant formulae and animal feeds to improve their nutritional value.
- These are also useful for fortifying fruit juices and other drinks owing to their functional properties. Protein hydrolysate has a particular application in sports medicine because it enables amino acids to be consumed by the body more efficiently than intact proteins, resulting in improved nutrient distribution to muscle tissue.

SECTION 8

MARKET SEGMENTATION BY CARRIER TYPE

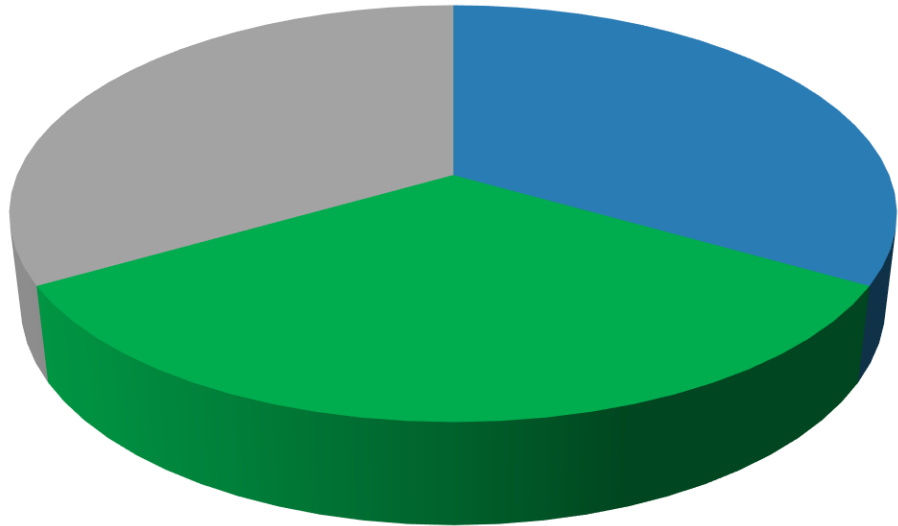
- Converted Ship
- New Build Ship
- Redeployed

MARKET SEGMENTATION – BY CARRIER TYPE

Global Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), By Carrier Type, 2022, 2026 & 2030

Carrier Type	2022	2026	2030
Converted Ship	XX	XX	XX
New Build Ship	XX	XX	XX
Redeployed	XX	XX	XX

Global Floating Production Storage and Offloading (FPSO) Market Share (%), By Carrier Type, 2022



■ Converted Ship ■ New Build Ship ■ Redeployed

MARKET SEGMENTATION – BY CARRIER TYPE

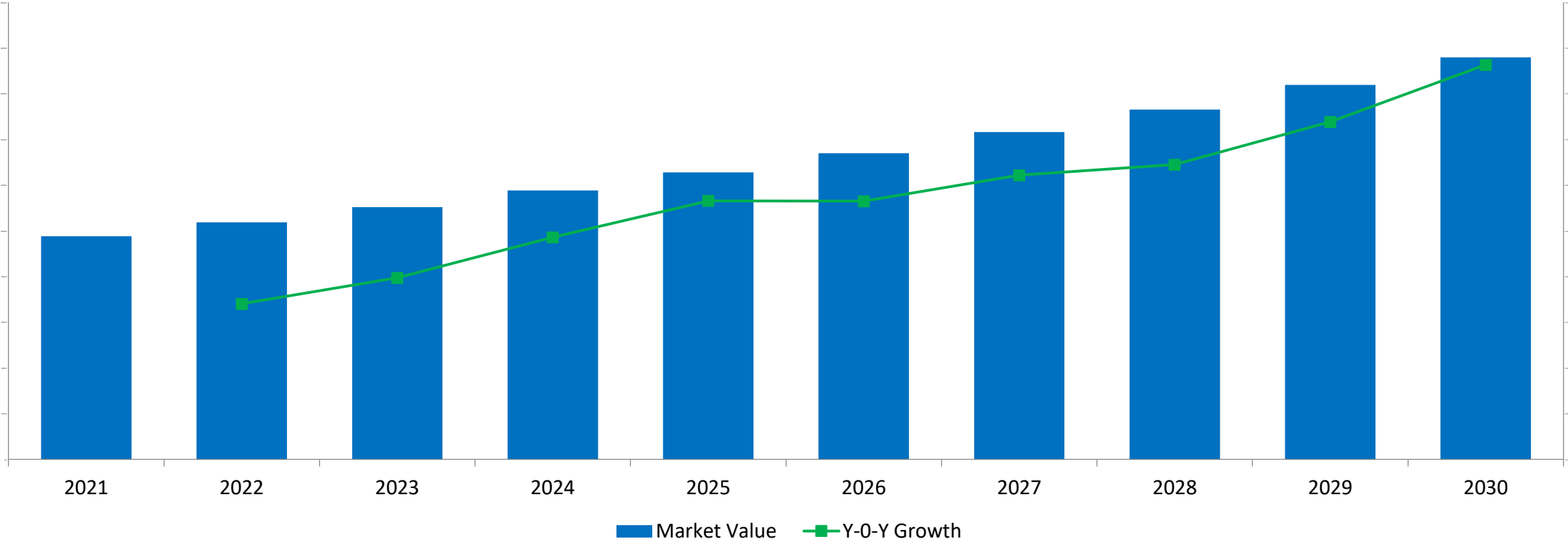
Global Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), By Carrier Type, 2021-2030

Carrier Type	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	CAGR (%) 2023- 2030
Converted Ship	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
New Build Ship	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Redeployed	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

MARKET SEGMENTATION – BY CARRIER TYPE

Converted Ship

Global Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), 2021-2030



MARKET SEGMENTATION – BY CARRIER TYPE

Converted Ship

- The converted ship in the global floating production storage and offloading (FPSO) market was us\$ xx million in 2022 and is expected to reach us\$ xx million by 2030, growing with a CAGR of xx% between 2023 and 2030.
- A floating production system, an FPSO vessel, is utilized for offshore oil and gas production, storing and unloading. A typical FPSO resembles a ship with onboard production and processing facilities.
- A shuttle tanker transports processed oil and gas from FPSOs to onshore receiving facilities through offloading. These ships harvest or unprocessed transport hydrocarbons from the ocean floor, which are then refined onboard.
- Typically, it is a newly built FPSO unit or a vessel that has been converted from an oil tanker. The global FPSO market is divided into three types: new build ships, redeployed and converted ships.
- The segment of converted FPSO systems now controls the market. On the other hand, the demand for brand-new FPSO systems has declined due to the drop in oil prices in the oil and gas exploration sectors.
- It is a frequent practice to convert a transportation vessel into an FPSO to reduce costs, shorten lead times or manage assets. A used tanker may cost several hundred million dollars to buy and convert into a production unit like an FPSO, but a newly built FPSO with the same capacity may cost up to a billion dollars to design, engineer and build. A tanker could be transformed into an FPSO in months, while a brand-new FPSO would require many years from the final investment decision (FID).

SECTION 11

MARKET SEGMENTATION BY REGION

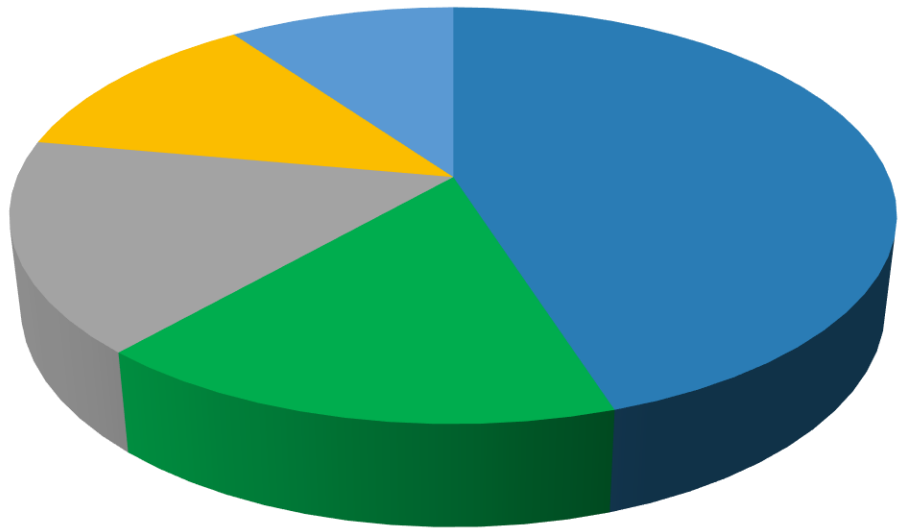
- North America
- South America
- Europe
- Asia-Pacific
- Middle East & Africa

MARKET SEGMENTATION - BY REGION

Global Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), By Region, 2022, 2026 & 2030

Region	2022	2026	2030
North America	XX	XX	XX
South America	XX	XX	XX
Europe	XX	XX	XX
Asia-Pacific	XX	XX	XX
Middle East & Africa	XX	XX	XX

Global Floating Production Storage and Offloading (FPSO) Market Share (%), By Region, 2022



■ Europe ■ North America ■ Asia-Pacific
■ South America ■ Middle East & Africa

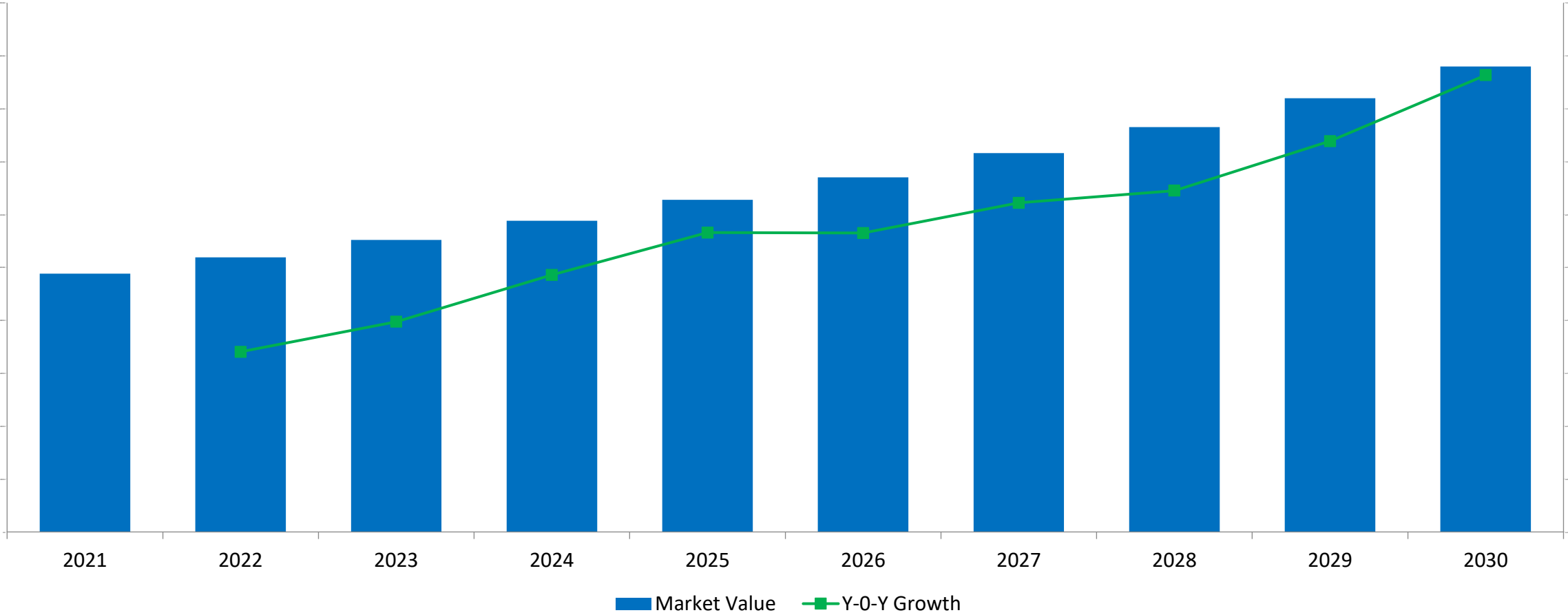
MARKET SEGMENTATION - BY REGION

Global Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), By Region, 2021-2030

Region	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	CAGR (%) 2023- 2030
North America	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
South America	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Europe	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Asia-Pacific	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Middle East & Africa	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

MARKET SEGMENTATION - BY REGION

South America Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), 2021-2030



MARKET SEGMENTATION – BY REGION

South America

- The South America floating production storage and offloading (FPSO) market was US\$ XX Million in 2022 and is expected to reach US\$ XX Million by 2030, growing with a CAGR of XX% between 2023 and 2030.
- The South American region is anticipated to have the biggest influence on the global FPSO market. Since the need for FPSOs has significantly expanded recently, Brazil and Guyana are the two major nations on the market.
- Most FPSO units have been operational in Brazil over the past five years. As of 2020, the Buzios field had the most FPSOs deployed, with a combined production capacity of 600,000 barrels per day. Lease agreements with various third parties mostly caused the fact mentioned above. Petrobras, the only field operator in the country, has begun its bidding process to choose FPSO companies to build additional units for the field.
- Rio de Janeiro, where nearly all the producing areas were offshore, had Brazil's greatest crude oil output in 2020, generating around 853 million barrels. Additionally, seven out of ten FPSO contracted projects in 2021 originated from Brazil and three more will be included in the nation's portfolio in 2022.
- A joint venture managed by Saipem received an FPSO building contract from Petrobras in June 2021 for developing the offshore Buzios field. Saipem and DSME will create the FPSO with the name P-79 with a daily processing capacity for oil of 180,000 barrels and a daily processing capacity for gas of 7.2 million cubic meters. The unit and other FPSOs for the field are anticipated to start operating before 2027.
- Similarly, Petrobras sent two letters of intent to deliver the IPB FPSO under a lease and operate arrangement to Yinson Holdings Berhad on November 15, 2021. The FPSO will be implemented in the Jubarte field in Brazil's North Campos basin. US\$ 5.2 billion project is anticipated to begin operations in 2025 and provide the corporation with service for an additional 22.5 years.

MARKET SEGMENTATION - BY REGION

South America Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), By Type, 2021-2030

Type	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	CAGR (%) 2023- 2030
Oil	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
LPG	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
LNG	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

MARKET SEGMENTATION - BY REGION

South America Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), By Carrier Type, 2021-2030

Carrier Type	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	CAGR (%) 2023- 2030
Converted Ship	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
New Build Ship	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Redeployed	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

MARKET SEGMENTATION - BY REGION

South America Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), By Water Depth, 2021-2030

Water Depth	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	CAGR (%) 2023- 2030
Shallow Water	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Deep & Ultra-deep Water	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

MARKET SEGMENTATION - BY REGION

South America Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), By Hull Type, 2021-2030

Hull Type	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	CAGR (%) 2023- 2030
Single Hull	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Double Hull	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

MARKET SEGMENTATION - BY REGION

South America Floating Production Storage and Offloading (FPSO) Market Value (US\$ Million), By Country, 2021-2030

Country	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	CAGR (%) 2023- 2030
Brazil	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Argentina	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Rest of South America	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

SECTION 12

COMPETITIVE LANDSCAPE

- Competitive Scenario
- Market Positioning/Share Analysis
- Mergers and Acquisitions Analysis

MARKET SHARE ANALYSIS - OVERVIEW

- The exchanges market in the U.S. is witnessing enormous interest from both automotive OEMs and tire manufacturers.
- The increasing sales of electric cars and interest towards connected vehicles is driving the growth of smart equipment including intelligent tires.
- The ongoing research activities in terms of material technology and advancements in sensor integration is likely to result in further product developments.
- Continental AG, Michelin, Bridgestone Corporation, and The Goodyear Rubber Company are the leading companies in the global intelligent tires market.



SECTION 13

COMPANY PROFILES

- ❖ BP Plc
- ❖ Aker Solutions ASA
- ❖ Bluewater Energy Services B.V.
- ❖ Bumi Armada Berhad
- ❖ BW Offshore
- ❖ Chevron
- ❖ ExxonMobil
- ❖ MODEC
- ❖ Petrobras
- ❖ Petronas
- ❖ SBM Offshore
- ❖ Shell
- ❖ Teekay Corporation
- ❖ Yinson Holdings Berhad

EXXON MOBIL CORPORATION – OVERVIEW

OVERVIEW

- Exxon Mobil Corporation supplies its products through three (3) product categories: upstream, downstream and chemical. The company supply acoustic insulation products through its "chemicals" segment
- The company operates in around twenty – one (21) countries globally in all the four major regions North America, South America, Europe and Asia–Pacific and the company has more than 160 nationalities represented in our employee base
- The company has made six (6) major deep – water discoveries with eight (8) agreements to research lower – emission technologies. The company has thirteen (13) chemical growth projects with three (3) new facilities operating above design rates. The company has more than 20,000 scientists and engineers, including 2,300 PhDs

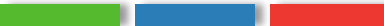


Exxon Mobil Corporation

Year of Estd.	1999
Headquarters	Texas, U.S.
Company Type	Public
No. of Employees (2021)	~74,900
Website	www.corporate.exxonmobil.com

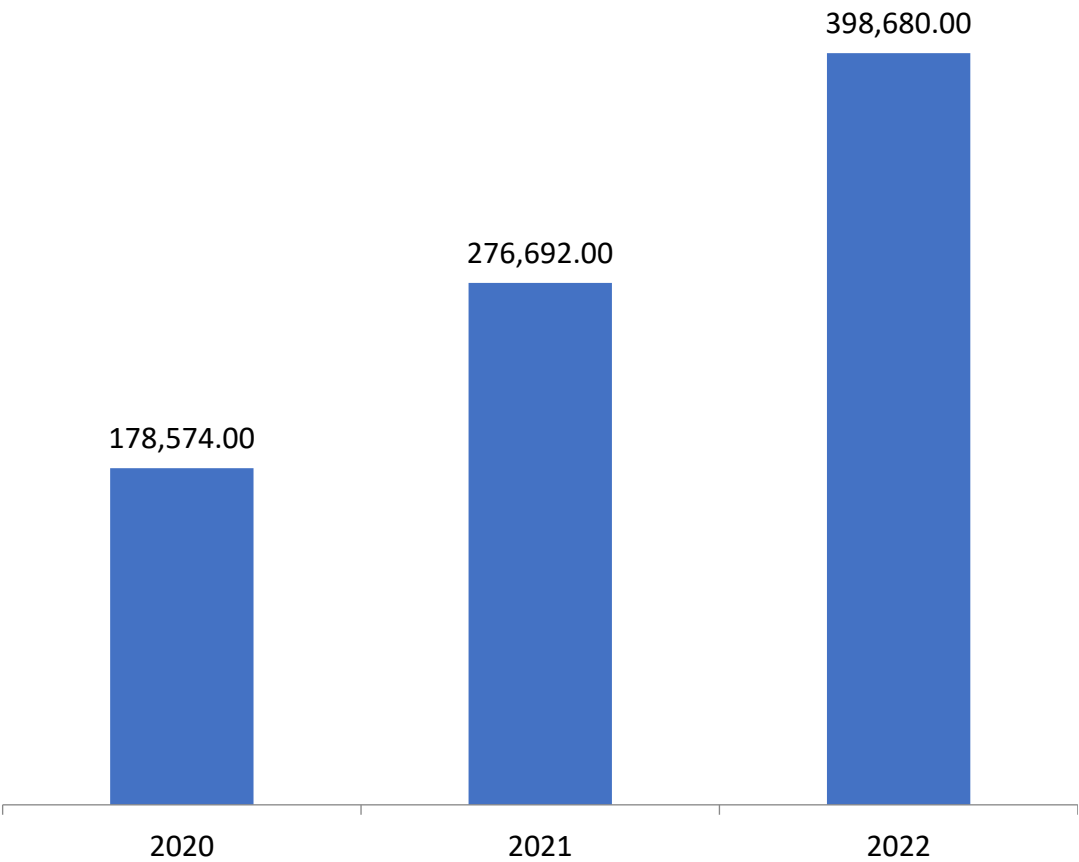
EXXON MOBIL CORPORATION – PRODUCTS

<p>PETTrace 800 cyclotron</p>	<p>The GE Healthcare PETTrace 800 cyclotron series is a compact, automated, dual-particle cyclotron system designed for fast, easy and efficient production of PET tracers. The PET isotopes that can be produced by PETTrace 800 include oxygen-15, nitrogen-13, carbon-11, fluorine-18 as well as a number of solid target isotopes. The isotopes are automatically transferred to the chemistry processing systems for efficient conversion into finished PET tracers and precursors.</p>
<p>MiniTrace Qilin F18- production system</p>	<p>The GE Healthcare MiniTrace Qilin positron emitting isotope production system is a compact, self-shielded, highly automated cyclotron. It enables fast, easy and efficient production of PET tracers. The design makes it an affordable platform based on the well-proven PETTrace cyclotron.</p>
<p>GETrace cyclotron</p>	<p>The GE Healthcare GETrace cyclotron is a compact, automated, single-particle cyclotron designed for fast, easy and efficient production of PET isotopes. The PET isotopes produced by the GETrace are fluorine-18 and carbon-11.</p>

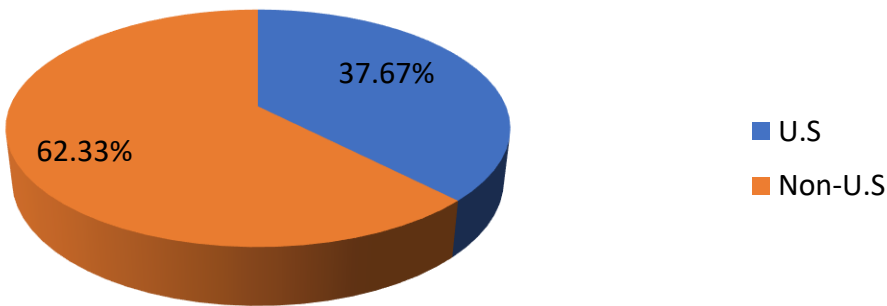


EXXON MOBIL CORPORATION – FINANCIALS

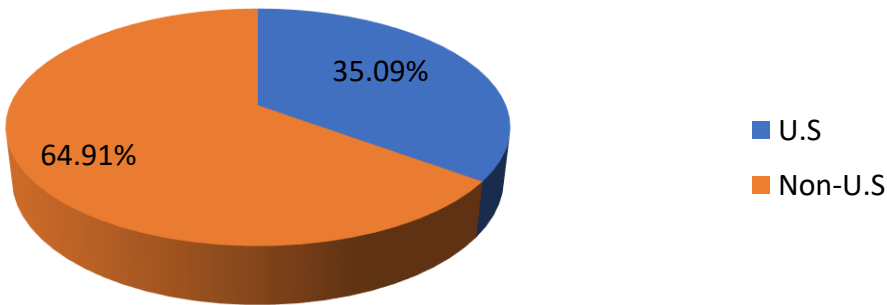
Exxon Mobil Corporation Financials (US\$ Million), 2020 – 2022



Exxon Mobil Corporation Market Share Distribution (%), By Region, 2021

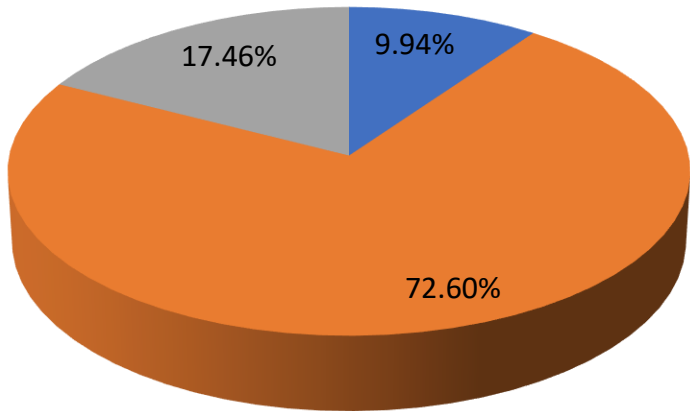


Exxon Mobil Corporation Market Share Distribution (%), By Region, 2020



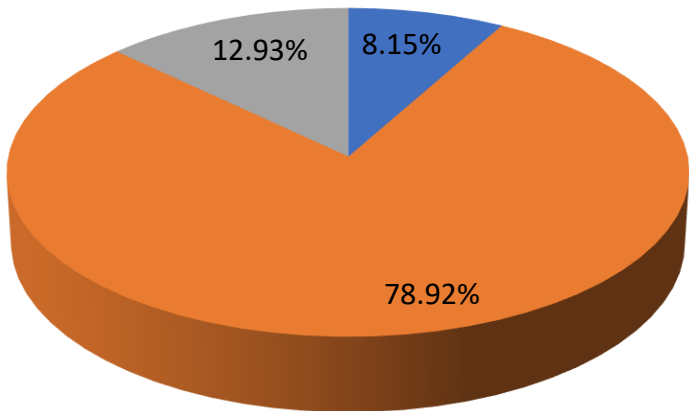
EXXON MOBIL CORPORATION – FINANCIALS

Exxon Mobil Corporation Market Share
Distribution (%), By Business Segment, 2021



■ Upstream
■ Downstream
■ Chemical

Exxon Mobil Corporation Market Share
Distribution (%), By Business Segment, 2020

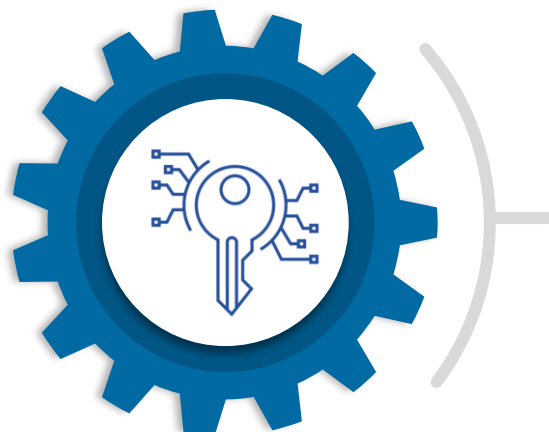


■ Upstream
■ Downstream
■ Chemical

EXXON MOBIL CORPORATION – KEY DEVELOPMENTS

March 30, 2023

Partnership



MTM Products Inc. signed a strategic partnership with GE Healthcare around MTM's proprietary QUANTUM Innovation System (QIS) for radioisotope production. The goal of the partnership is to supply equipment, technologies and research that supports the production and processing of radioisotopes on GE's PETtrace 800 platform of medical cyclotrons. The QIS integrates on to the GE PETtrace 800 series cyclotron to enable an alternative, non-reactor supply of valuable medical isotopes including technetium 99m, copper 64, gallium 68 and zirconium 89.

SECTION 14

APPENDIX

ABOUT US

DataM Intelligence 4Market Research is a market intelligence platform which gives access to syndicated, customised reports and consulting to its clients at one place. As a firm with rich experience in research and consulting across multiple domains we are one stop solution that will cater to the needs of clients in key business areas. DataM Intelligence has an online platform whose coverage includes industries such as Chemicals and Materials, Agriculture, Health care services, Animal feed and food & beverages, among others. Our platform has Insights on markets that uncover latest market research data that's distinct from the competition. With coverage across 10 major industries in the marketplace research, DataM Intelligence benefits thousands of companies by helping them take their innovations early to the market by providing a complete view of the market with statistical forecasts. Our strategy centric framework and value-added services will let individuals and corporates with ease of access and custom personalization to research and markets.