

SAMPLE REPORT



GRAND VIEW RESEARCH

Oil Spill Management

MARKET ANALYSIS

BASE YEAR: 2022

ENERGY & POWER



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Oil Spill Management

MARKET ANALYSIS

Market by Technology: Pre-oil spill management, Post-oil spill management

Market by Location: Onshore, Offshore

Market by Technique: Mechanical containment and recovery, Chemical Recovery, Biological Recovery

Market by Region: North America, Europe, Asia Pacific, Middle East & Africa, Central & South America

ENERGY & POWER INDUSTRY EXPERTS:

Anshuman Bahuguna

Director, Research & Consulting



Research Advisory

Anshuman is a market research veteran with an experience of over 12 years in project delivery, client management, and team operations for various projects in chemicals, materials, food, & energy. His expertise lies in advising clients on market entry strategies, investment and project development, cluster development programs, location feasibility, financial models, and trade analysis.

As the Director of Research, he is responsible for devising strategies and implementing them. Anshuman is also involved in resource grooming and development along with process development. Client management, business development, and profit mapping for the team also falls under his purview.

He holds an MBA in operations management from the University of Petroleum & Energy Studies and multiple diplomas from The Wharton School.

Harsha Jandhyala

Cluster Head, CME Division



Harsha has been involved in the market research industry for over 8 years, prior to which, he has been an engineer in the infrastructure sector. As a cluster head, Harsha works hand-in-hand with a dedicated team of analysts to conduct research and deliver quality reporting on market developments. He maintains proactive communication with clients and is always striving to improve methods to deliver actionable intelligence.

To find an actionable solution to a business problem, Harsha believes one first must understand the causal relationship between elements and variables core to the problem and be able to quantify them into calculable metrics. They can, then can be analyzed through various statistical methods. Harsha relies on this approach to deduce the behavior of variables, understand their effect on the concerned industry, and present feasible solutions that can maximize the gains of industry stakeholders.

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This section includes sample market data points, ranging from trend analyses to market estimates & forecasts

How will it benefit me?

You will gain access to a synopsis of the market report.

Sample data points will help you validate market estimates & judge report quality

Table of Contents

What does it include?

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How will it benefit me?

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Executive Summary

The global oil spill recovery market is expected to grow at a CAGR of from 2023 to 2030. Growing safety concerns coupled with increasing number of oil spill incidents over the past few years is expected to drive global **Oil spill management market** over the forecast period. Rising onshore and offshore drilling activities have led to rapid growth in oil & gas transportation.

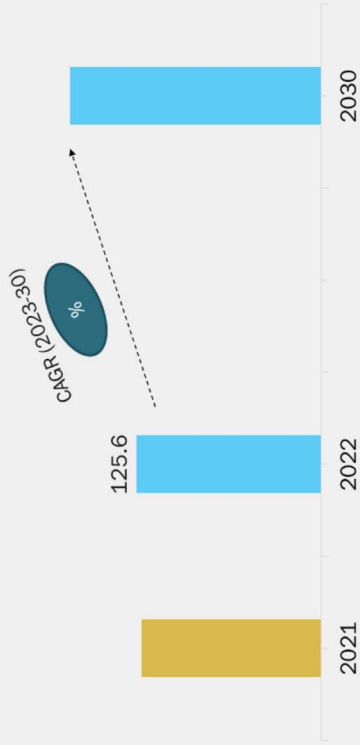
The pre oil spill management segment is expected to exhibit the highest CAGR over the forecast period Based on **Technology**, the Post oil spill management segment accounted for the largest revenue share of the market in 2022. Increasingly expensive residential properties and the formulation of laws for protecting old buildings have resulted in modifications to existing buildings, with a large number of consumers opting for retrofits.

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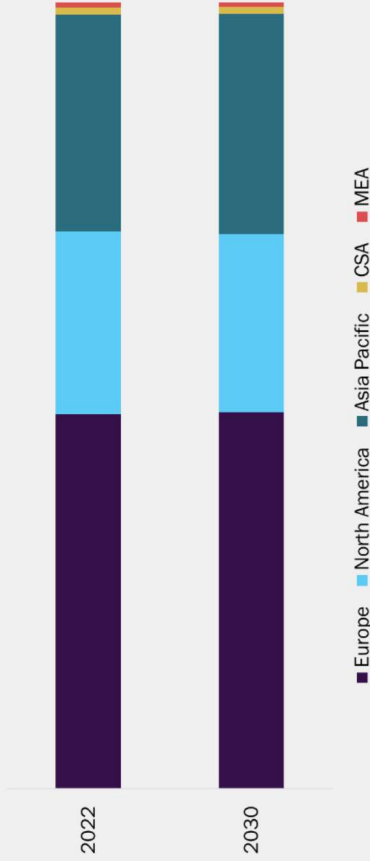
2.1 Market Snapshot

Fig.1 Market Snapshot

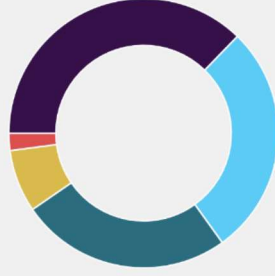
Oil Spill Management Market Size (USD Million)



Regional Oil Spill Management Market Size (USD Million)



Regional Market Penetration, 2022



Key Regional Trend

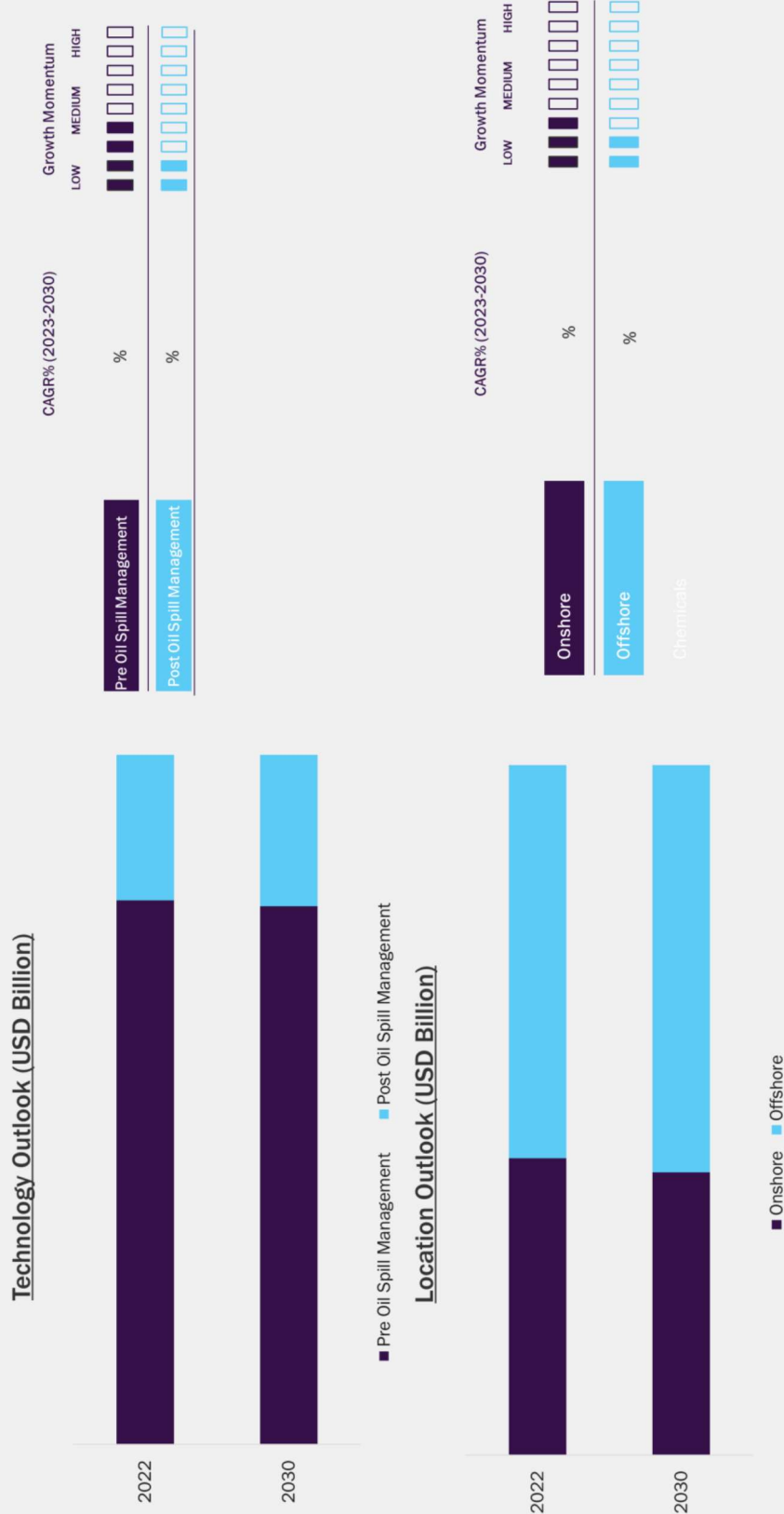


** Growth momentum is factor of comparison between segmental CAGR% Vs overall market CAGR%

Source: The above graph is only for representation purpose

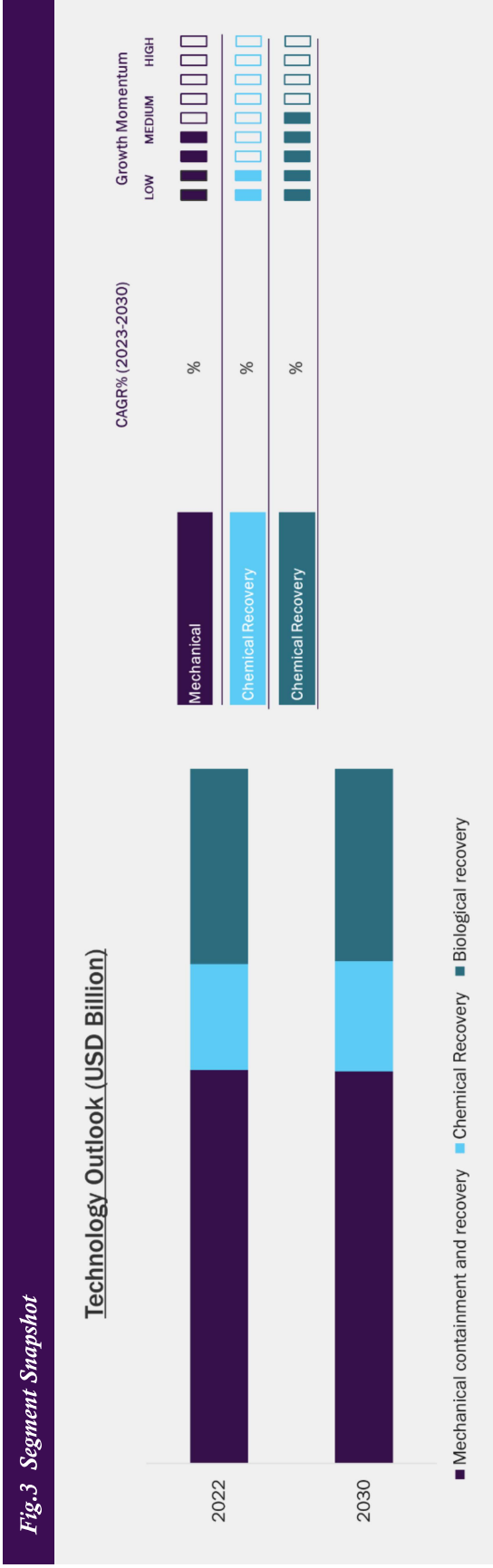
2.2 Segment Snapshot

Fig.2 Segment Snapshot



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2.3 Segment Snapshot



Source: The above graph is only for representation purpose

2.4 Competitive Landscape Snapshot

Fig.4 Competitive Landscape Snapshot



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Market Variables, Trends, and Scope

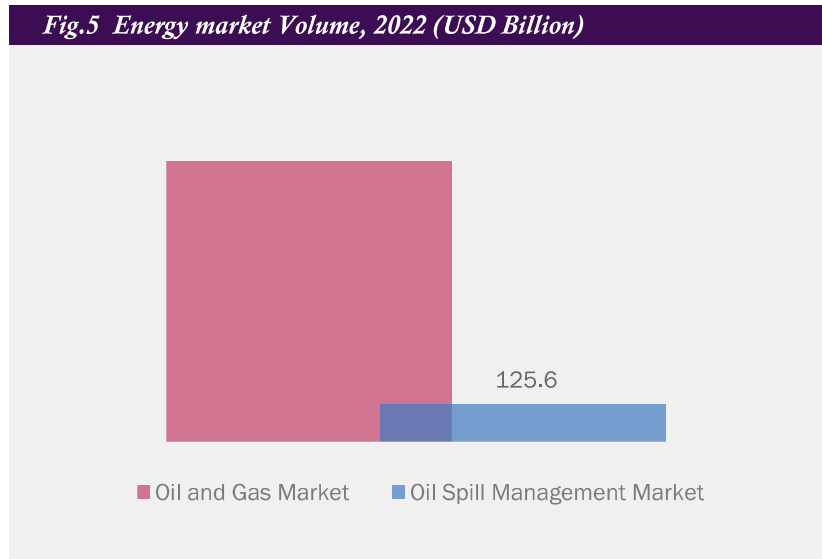
Section Description:

This section also entails in-depth analysis on variables related to value chain, penetration & growth prospects, technology, regulatory frameworks and other allied market dynamics impacting the study market.

3.1 Penetration & Growth Prospect Mapping

Growing safety concerns coupled with increasing number of oil spill incidents over the past few years are expected to drive global oil spill management market over the forecast period. Rising onshore and offshore drilling activities have led to a rapid growth in oil & gas transportation. Increasing transportation of oil & gas through tankers (onshore & offshore) and pipeline coupled with strict government guidelines for companies operating in these segments to abide by safety norms are anticipated to fuel the growth of oil spill management market.

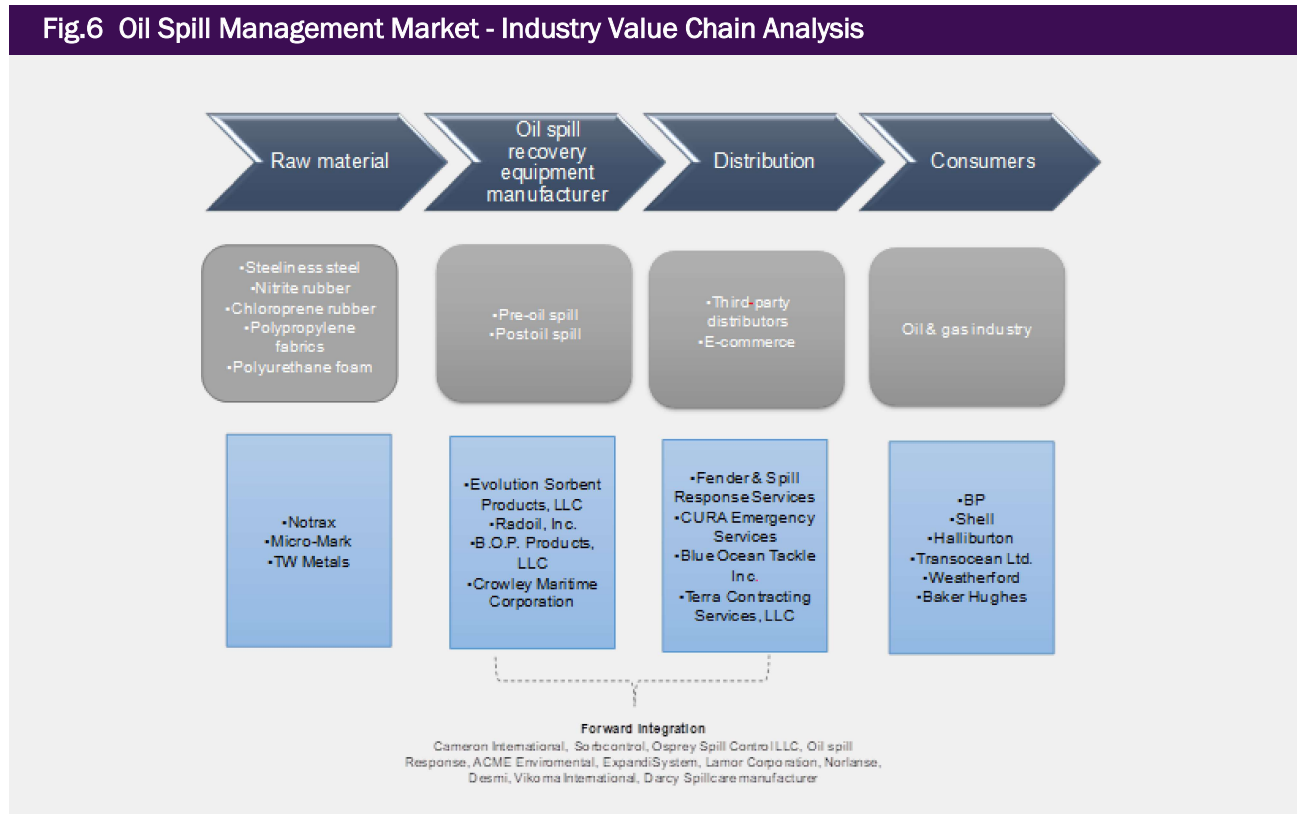
Fig.5 Energy market Volume, 2022 (USD Billion)



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3.2 Industry value Chain Analysis

Oil spill management value chain starts with raw materials used for blow-out preventers, double hull, containment booms, skimmers, absorbents, and dispersants. Major raw materials employed for manufacturing post-oil spill containment products include chemical agents, stainless steel, vinyl, neoprene, and rubber. Absorbent booms and pads comprise oil absorbents and water repellant sheets such as polyolefin and coir-based materials.

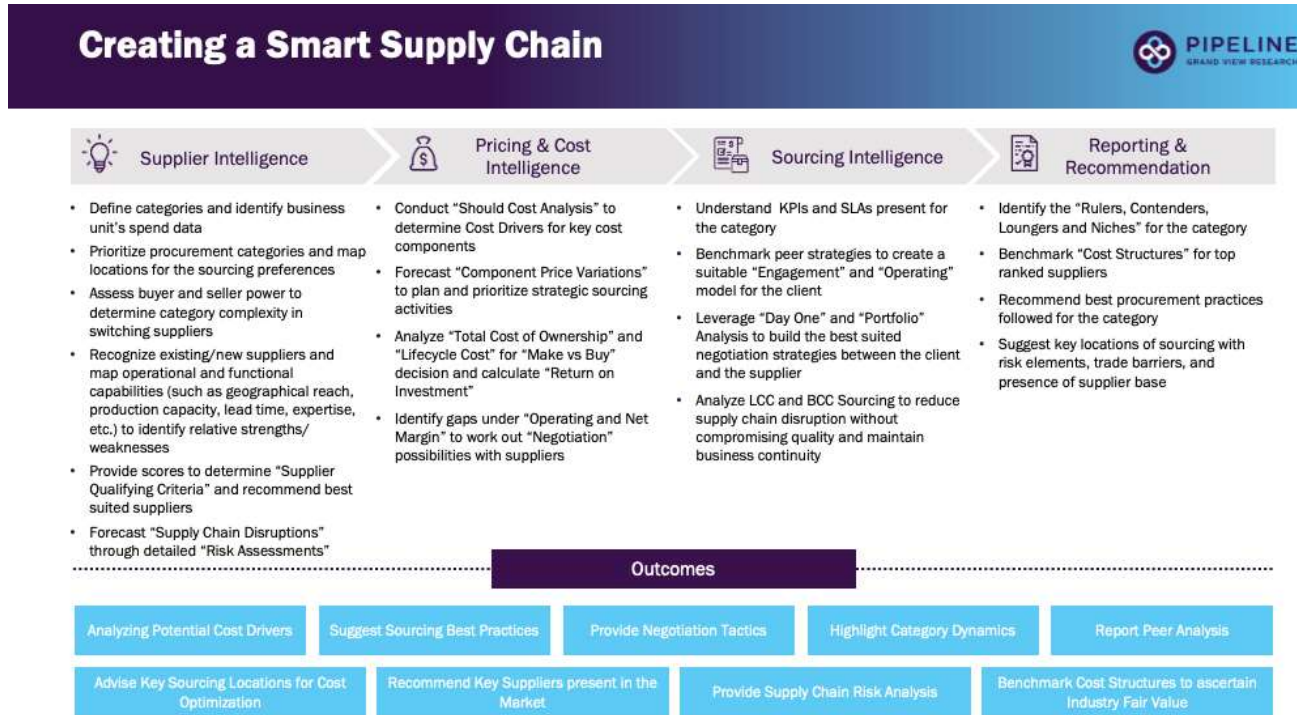


Blowout preventer (BOP) involves complex manufacturing process and stringent lab testing before it is commercially available for the end-users. BOPs plays a critical role in preventing uncontrolled fluid flow and pressure escape of oil & gas from a well. Heavy machinery is used for cutting & forging and welding is done according to the end-user requirements. Post metalwork, the components are assembled and individual BOPs are subject to stress relief process. Multiple BOPs are assembled, stacked up, and tested as one unit before they are shipped to end-user facilities.

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3.3 Technology Overview

Oil spill recovery and cleanup depends on various factors including temperature of water, type of oil spilled, and the types of beaches & shorelines. Oil spills are often characterized as an immediate fire hazard. The spilled oil contaminates water supply and also degrades the surrounding air, thus causing air pollution. Oil spillage is known to adversely affect the animals and plants exposed to it. Owing to the ill-effects of oil spills, various technologies and methods have been adopted to minimize its impact on humans, animals, and plants.

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3.4 Regulatory Framework

EPA's oil spill prevention program includes Spill Prevention, Control, and Countermeasure (SPCC), and Facility Response Plan (FRP) rules. The FRP rules require certain facilities to submit a response plan and prepare to respond to a worst case oil discharge or threat of a discharge.

The SPCC rule helps facilities prevent discharge of oil into navigable waters or adjoining shorelines. The SPCC regulation has laid down certain guidelines for the preparedness, prevention, and response to oil spills incidents. The rule was formulated under the Clean Water Act in 1973..

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Section Description:





Every market forecast that we build considers various dimensions of market triggering factors such as product, demographics, regulatory, political, technology, economic, financial and competition with varied impacts over stipulated time. These relevant factors & its impacts are closely monitored at country level, wherein its sensitivity results in summation to region level forecast and henceforth reflects in global market forecast.

Market dynamics section is a key component of our report evaluating market drivers, restraints and other industry level challenges anticipated to impact growth over forecast period (2023 - 2030). Below section presents complete list of key factors evaluated during market forecast for your understanding.

Please get in touch with us if you wish to add any additional factors to this list, we will be happy to assist you with your requirement.

3.5 Market Dynamics

3.5.1 MARKET DRIVER ANALYSIS

MARKET DRIVERS	TIMELINE IMPACT ANALYSIS	
	2023 - 2026	2027 - 2030
INCREASING DEEPWATER DRILLING ACTIVITIES	LOW  HIGH	LOW  HIGH
FAVORABLE REVISED OFFSHORE REGULATIONS	LOW  HIGH	LOW  HIGH

3.5.1.1 INCREASING DEEPWATER DRILLING ACTIVITIES



Oil forms a dominant part of energy sources and growing energy intensive industries such as construction, automotive, and power are expected to act as major drivers for oil industry growth over the next nine years. Despite declining older oil fields, worldwide oil demand is expected to witness a positive trend and this has urged E&P companies to seek new frontiers in oil development. New drilling technologies have contributed to the discovery of hydrocarbon reservoirs in offshore and meet surging energy demand.

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3.5.1.2 FAVORABLE REVISED OFFSHORE REGULATIONS

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3.5.2 MARKET RESTRAINT ANALYSIS

MARKET CHALLENGE	TIMELINE IMPACT ANALYSIS	
	2023 - 2026	2027 - 2030
LACK OF R&D INVESTMENTS	LOW  HIGH	LOW  HIGH

3.5.2.1 LACK OF R&D INVESTMENTS

Growing seaborne trade has resulted in increased activities of oil exploration in Arctic waters. Growing environmental concern toward impact of global warming on Arctic region has steered various environmental risk assessment studies for operational feasibility of oil E&P activities in the region.

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3.5.3 INDUSTRY OPPORTUNITIES

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3.5.4 INDUSTRY CHALLENGES

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3.6 Business Environment Analysis: Oil Spill Management Market

3.6.1 INDUSTRY ANALYSIS – PORTER’S

3.6.1.1 THREAT FROM NEW ENTRANT

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3.6.1.2 BARGAINING POWER OF SUPPLIER

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3.6.1.3 BARGAINING POWER OF BUYERS

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3.6.1.4 THREAT OF SUBSTITUTION

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3.6.1.5 COMPETITIVE RIVALRY

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3.6.2 PESTEL ANALYSIS

3.6.2.1 POLITICAL LANDSCAPE

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3.6.2.2 ENVIRONMENTAL LANDSCAPE

Rising concern towards threat to marine environments due to spillage of oil and hazardous and noxious substances in offshore incidents.

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3.6.2.3 SOCIAL LANDSCAPE

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3.6.2.4 TECHNOLOGY LANDSCAPE

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3.6.2.5 ECONOMIC LANDSCAPE

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3.6.2.6 LEGAL LANDSCAPE

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Oil Spill Management Market: Technology Estimates & Trend Analysis

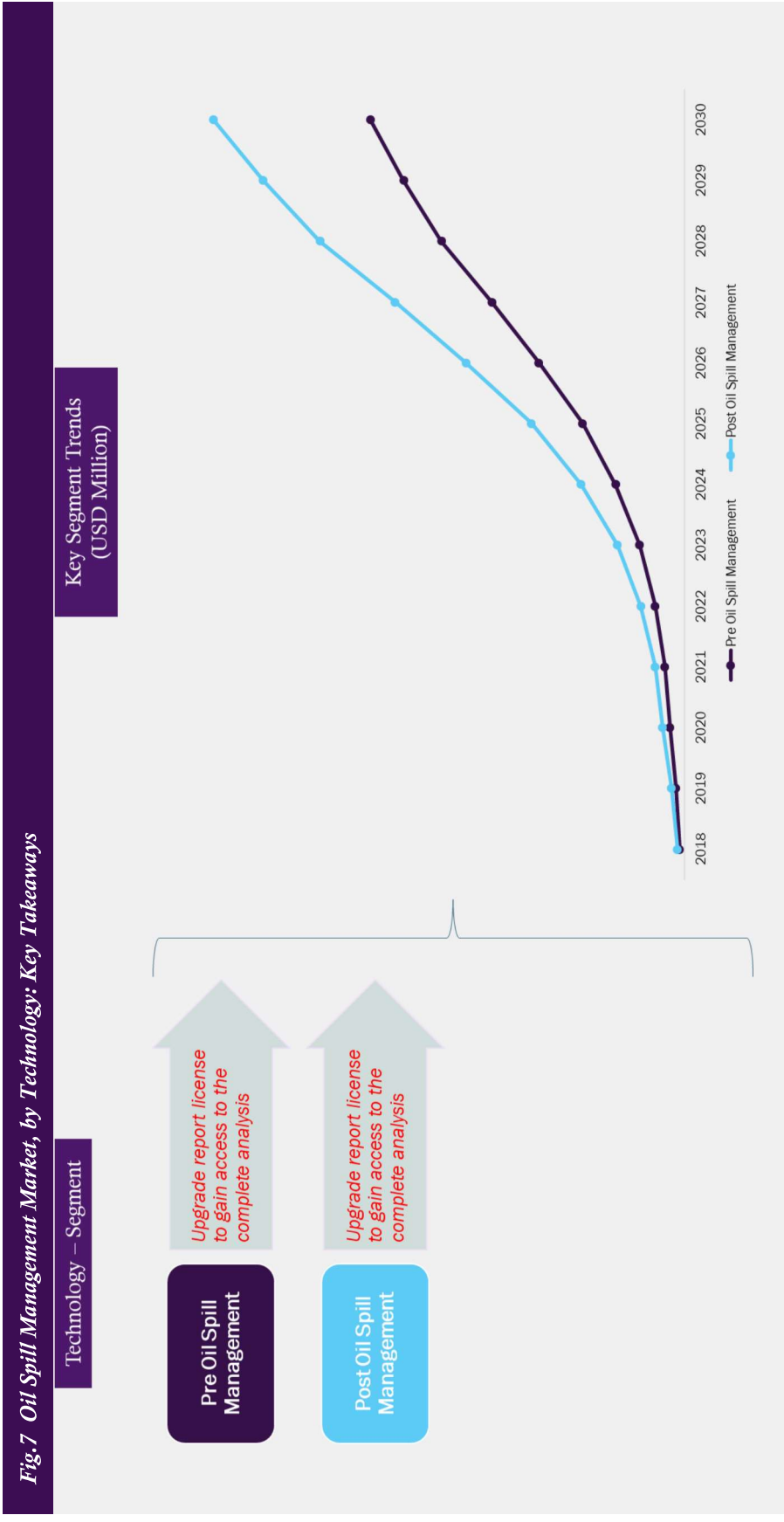
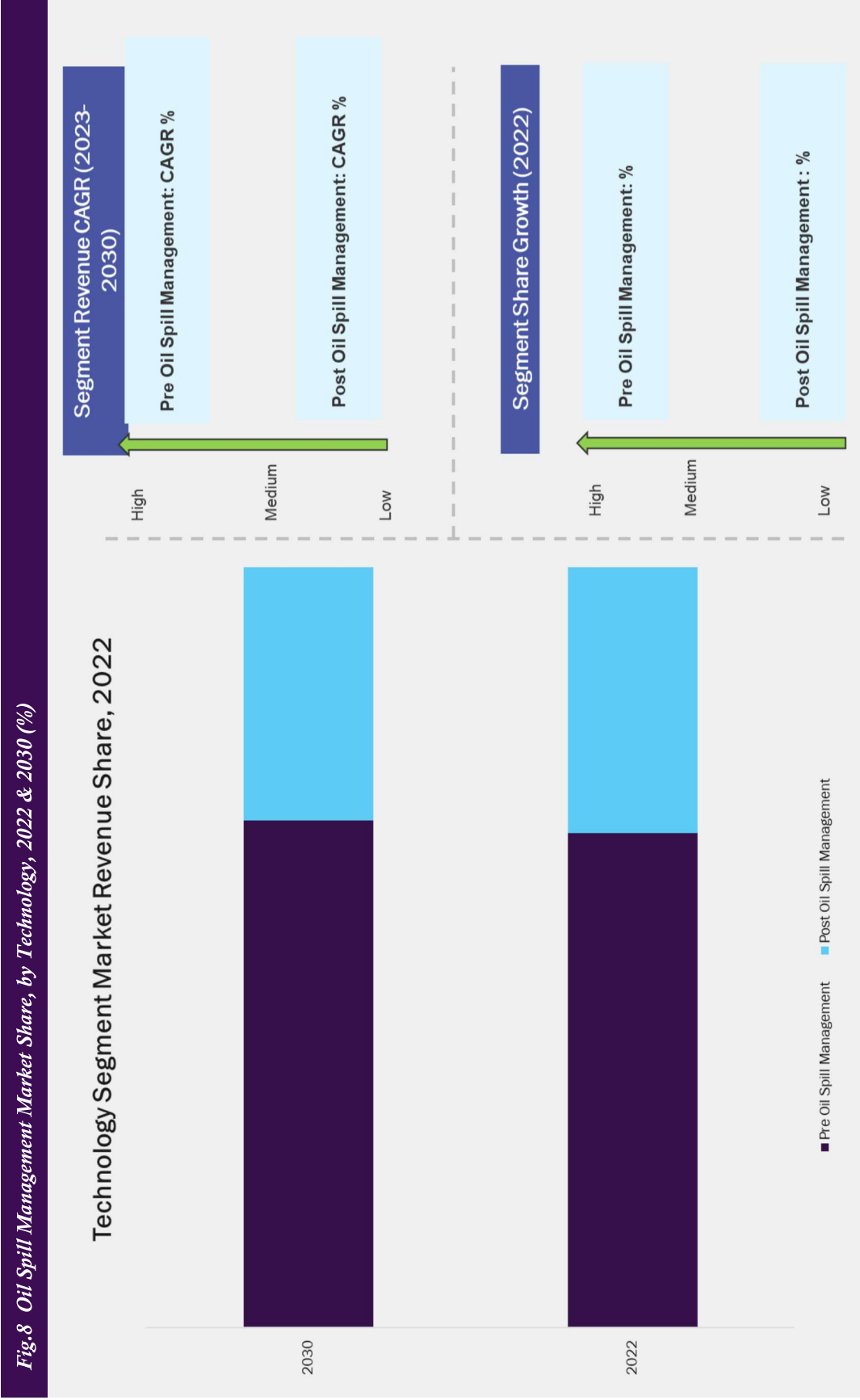


Fig.7 Oil Spill Management Market, by Technology: Key Takeaways

Source: American biogas council, World biogas association, IRENA, IEA, UNIDO, NETL, NREL, DOE, Primary interviews, Grand View Research

4.1 Technology Movement Analysis & Market Share, 2022 & 2030 (%)

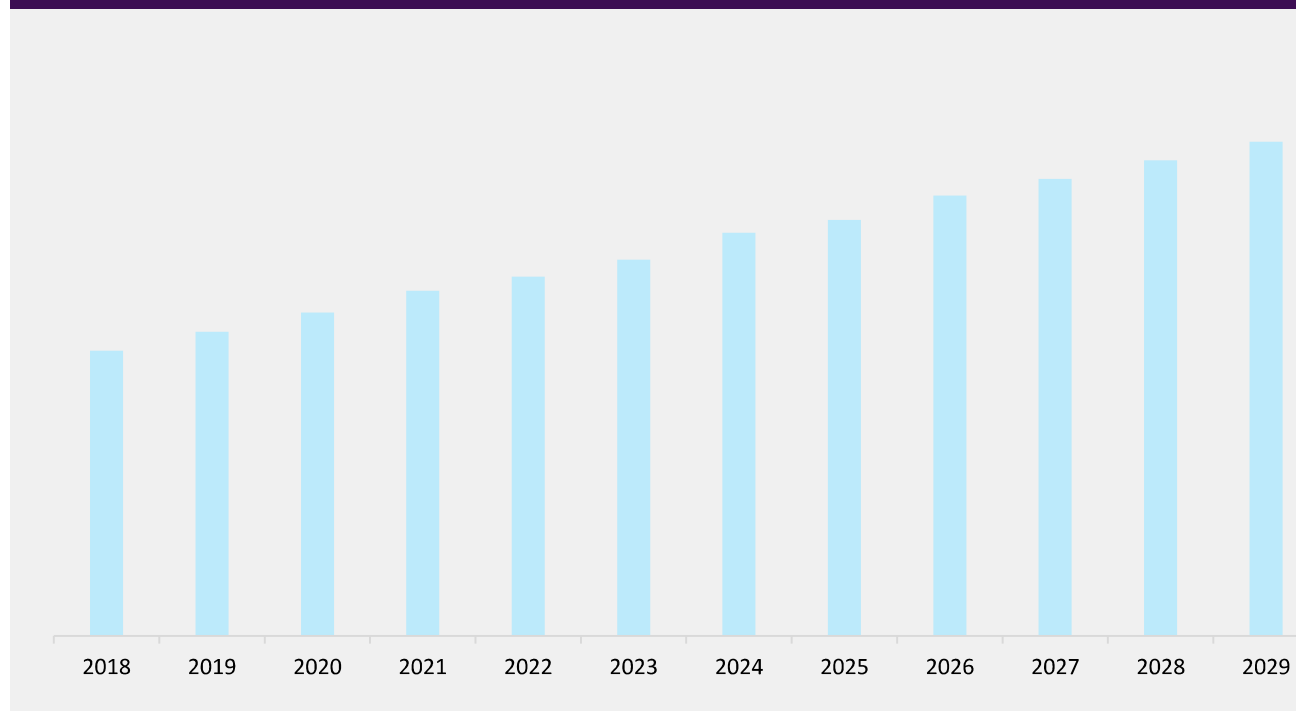


Note: The above graph is only for representation purpose

4.1.1 PRE-OIL SPILL MANAGEMENT

4.1.1.1 DOUBLE-HULL

Fig.1 Pre-Oil Spill Management Segment Estimates & Forecasts, 2018–2030, (USD Million)



Note: The above graph is only for representation purpose

Growing concern towards environmental impact of offshore oil spill incidents is expected to drive double hull technology over the forecast period. Double hull technology enhances the durability of ships in harsh ocean weather conditions and arctic areas. Growing seaborne trade between North America and Europe has resulted in increased ship traffic in arctic region. Growing concern towards product losses coupled with stringent regulations regarding ships in maritime trade is expected to drive product demand over the forecast period.

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4.1.1.2 PIPELINE LEAK DETECTION

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4.1.1.3 BLOWOUT PREVENTER

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4.1.1.4 OTHERS

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4.1.2 POST-OIL SPILL MANAGEMENT

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4.1.2.1 MECHANICAL CONTAINMENT AND RECOVERY

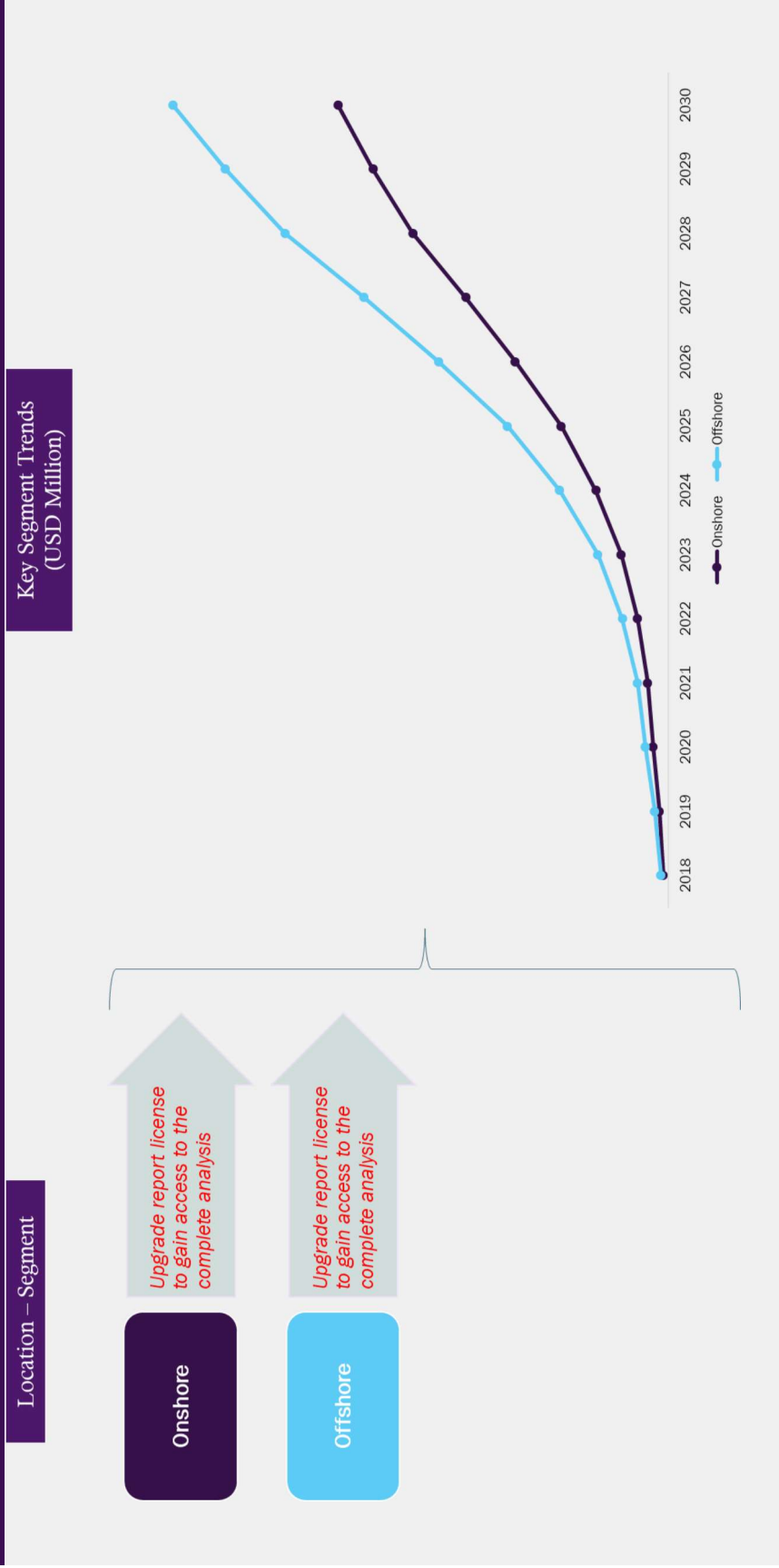
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4.1.2.2 OTHERS

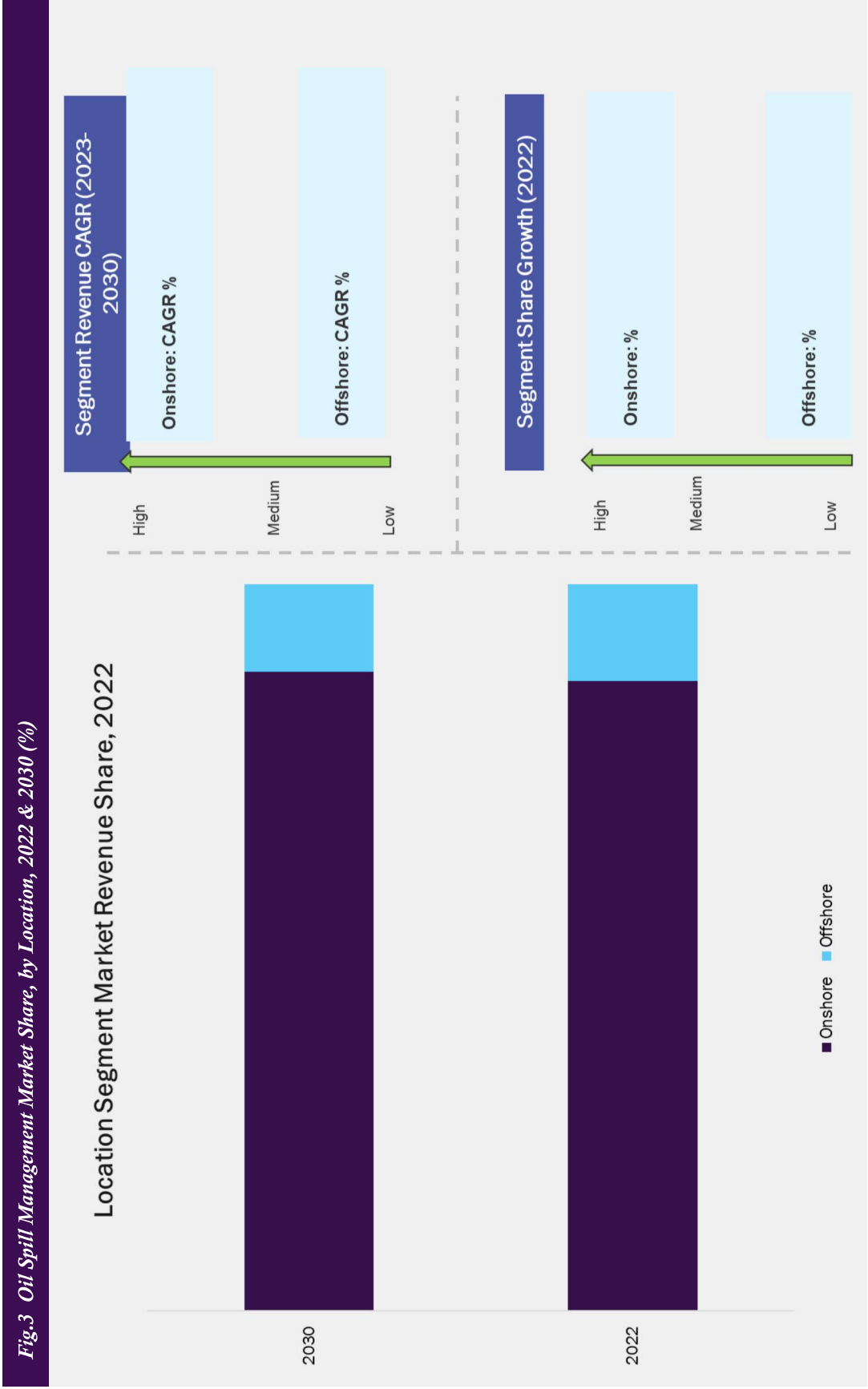
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Oil Spill Management Market: Location Estimates & Trend Analysis

Fig.2 Oil Spill Management Market, by Location: Key Takeaways



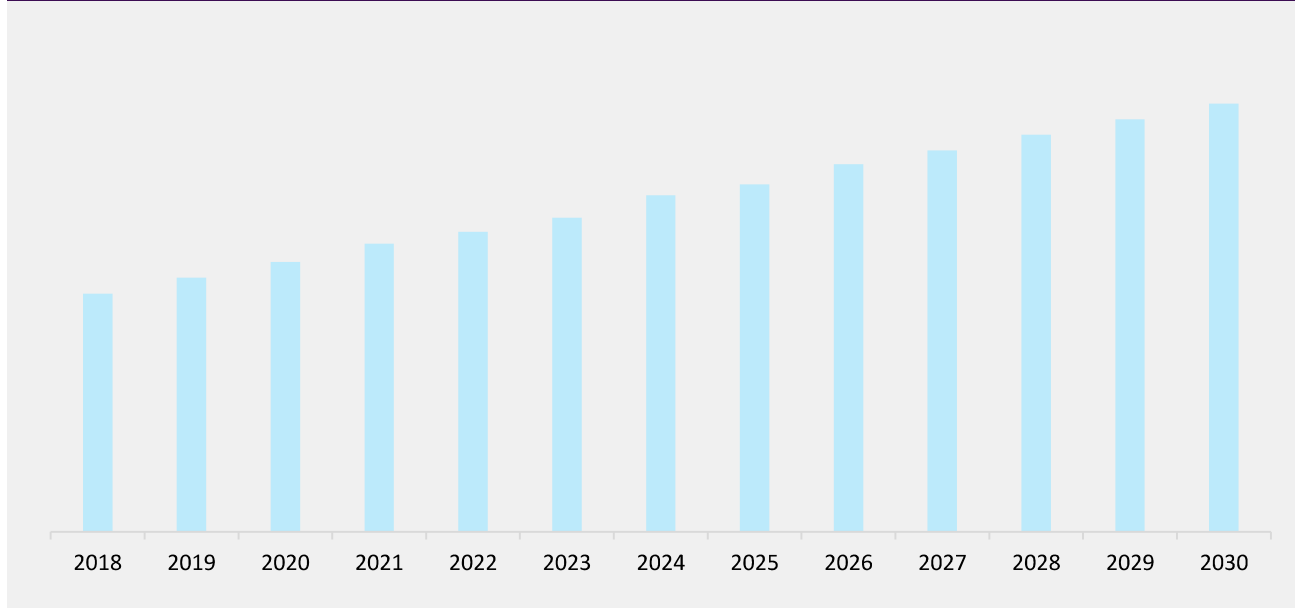
5.1 Location Movement Analysis & Market Share, 2022 & 2030 (%)



Note: The above graph is only for representation purpose

5.1.1 ONSHORE

Fig.4 Onshore market estimates & forecasts, 2018 – 2030, (USD Million)



Note: The above graph is only for representation purpose

Harsh environments such as extreme temperatures and natural disasters necessitate the requirement of leak detection technology to alert oil leakages in onshore activities. Growing demand for efficient fluid control systems to ensure consistent oil production activity is expected to drive pre-oil spill technology demand in onshore segment over the foreseeable future.

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5.1.2 OFFSHORE

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Oil Spill Management Market: Response Technique Estimates & Trend Analysis

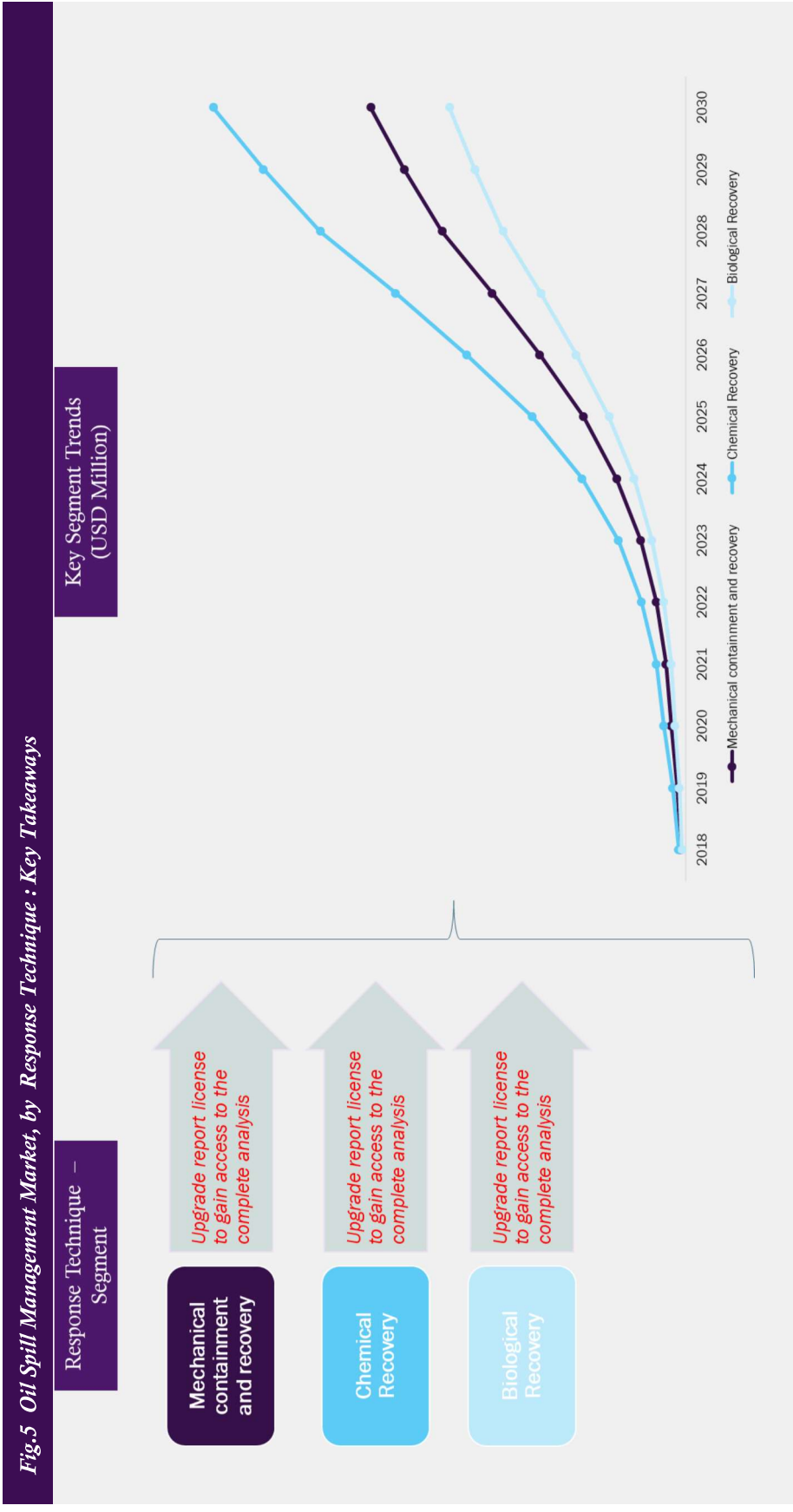
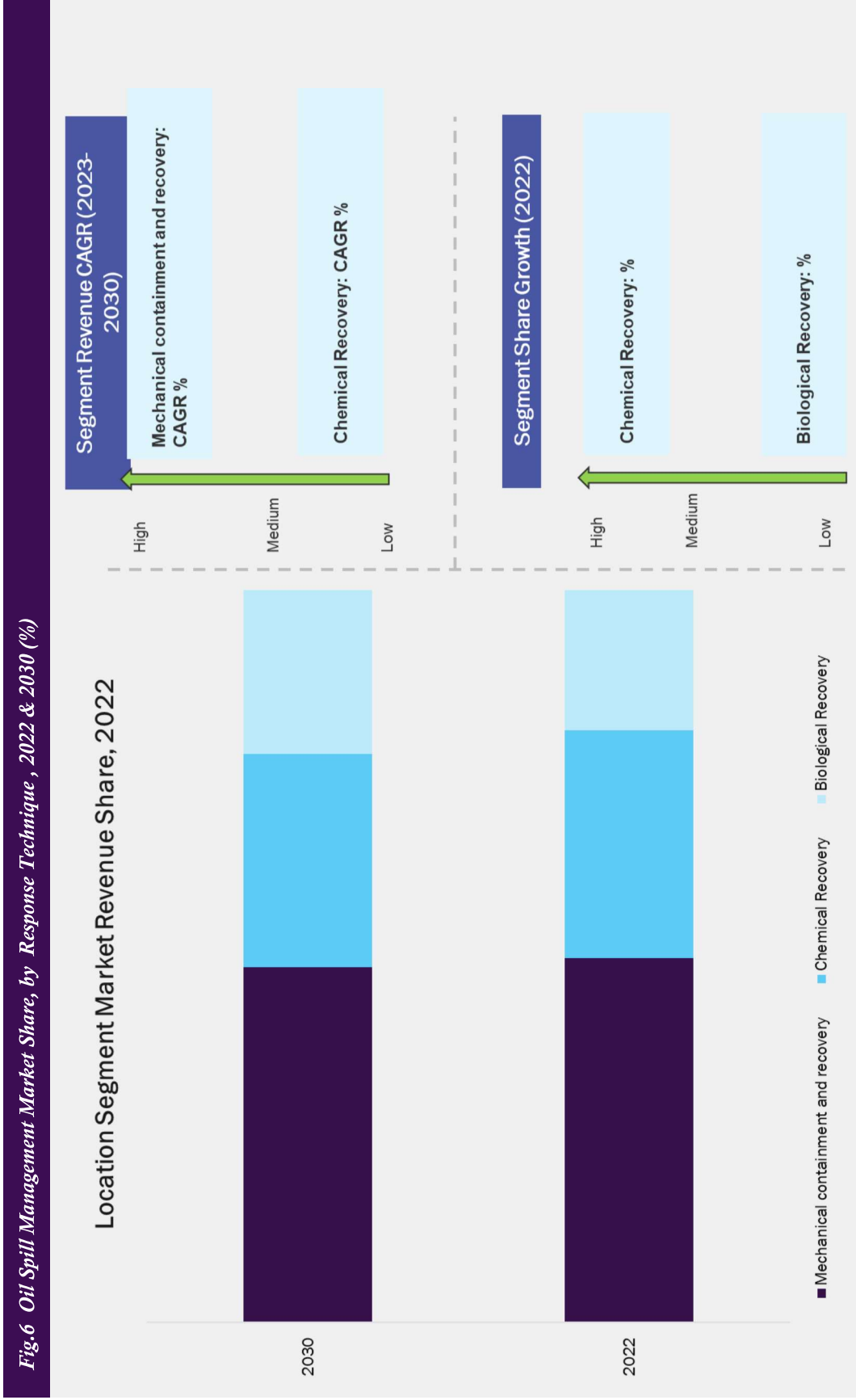


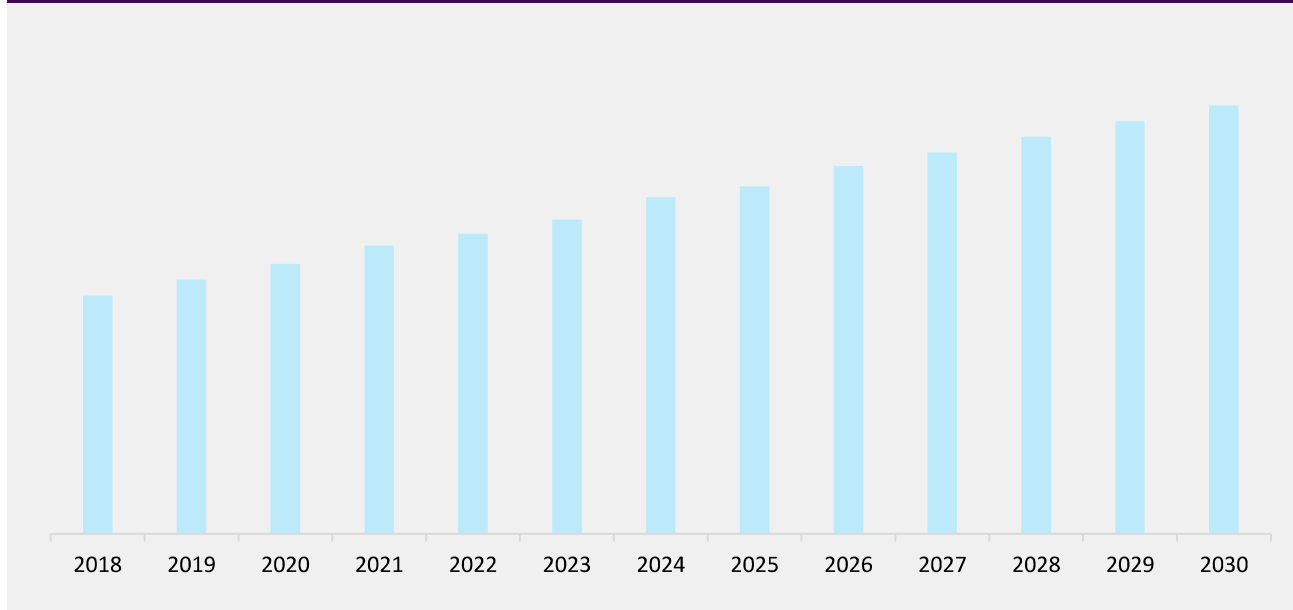
Fig.5 Oil Spill Management Market, by Response Technique : Key Takeaways

6.1 Response Technique Movement Analysis & Market Share, 2022 & 2030 (%)



6.1.1 MECHANICAL CONTAINMENT AND RECOVERY

Fig.7 Residential market estimates & forecasts, 2018 – 2030, (USD Million)



Note: The above graph is only for representation purpose

Harsh environments such as extreme temperatures and natural disasters necessitate the requirement of leak detection technology to alert oil leakages in onshore activities. Growing demand for efficient fluid control systems to ensure consistent oil production activity is expected to drive pre-oil spill technology demand in onshore segment over the foreseeable future.

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6.1.1.1 CONTAINMENT BOOMS

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6.1.1.2 HARD BOOMS

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6.1.1.3 SORBENT BOOMS

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6.1.1.4 FIRE BOOMS

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6.1.1.5 OTHERS

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6.1.1.6 SKIMMERS

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6.1.1.6.1 WEIR SKIMMERS

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6.1.1.6.2 NON-OLEOPHILIC SKIMMERS

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6.1.1.6.3 OTHERS

Upgrade report license to gain access to the complete analysis

6.1.1.6.4 SORBENT

Upgrade report license to gain access to the complete analysis

6.1.2 CHEMICAL RECOVERY

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6.1.2.1 GELLING AGENT

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6.1.2.2 OTHERS

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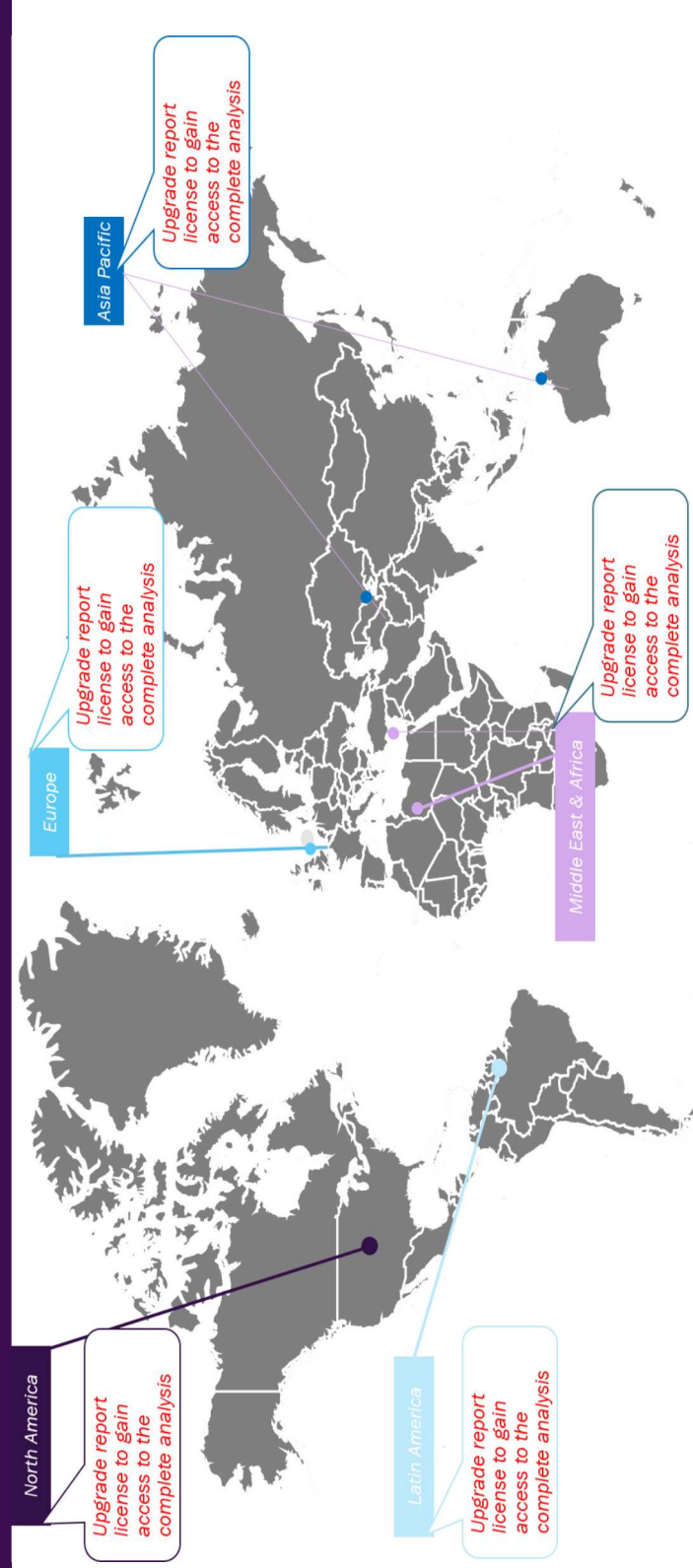
6.1.3 BIOLOGICAL RECOVERY

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Oil Spill Management Market: Regional Estimates & Trend Analysis

7.1 Oil Spill Management Market: Regional Outlook

Fig.8 Oil Spill Management Market revenue, by region, 2022 & 2030, (USD Million)



Research

Fig.9 Regional marketplace: Key takeaways

Region	% of Global Market 2022	% of Global Market 2030	Notable Countries	% of Regional Market 2022	% of Regional Market 2030	Some Key Competitors	Analyst Notes
North America							<i>Upgrade report. license to gain access to the complete analysis</i>
Europe							<i>Upgrade report. license to gain access to the complete analysis</i>

Sources:

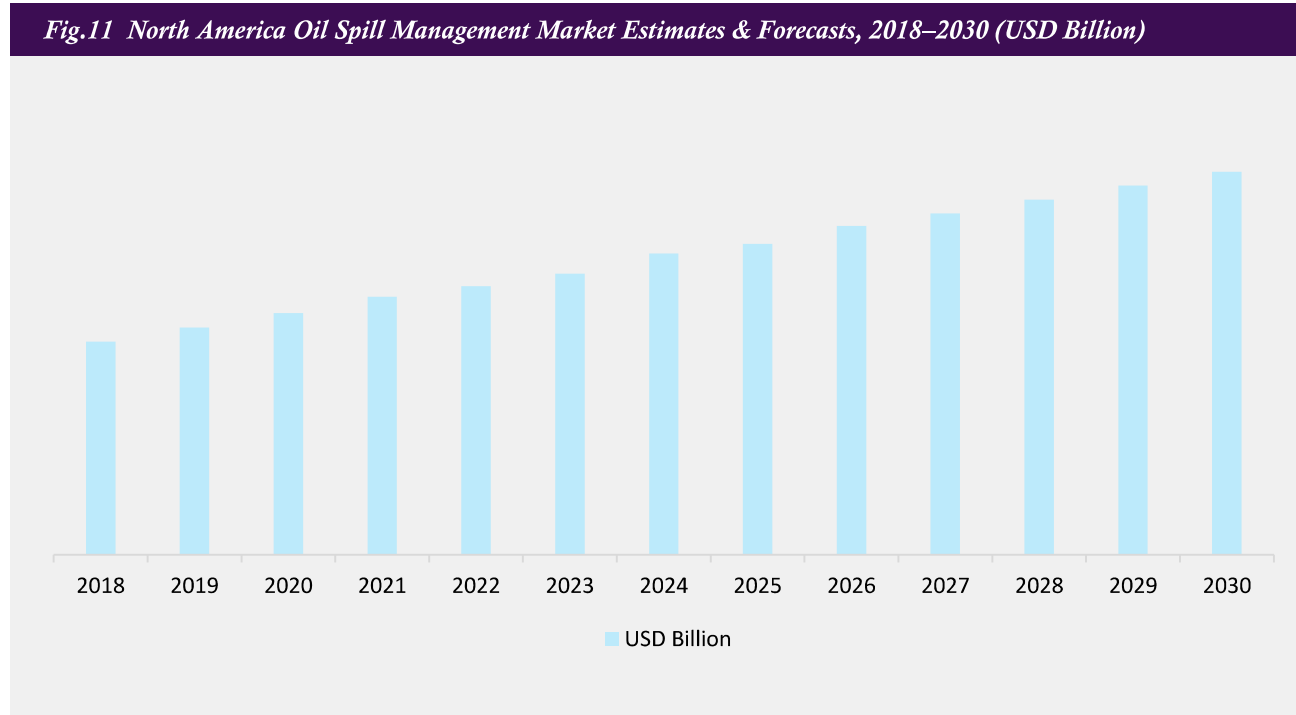
Fig.10 Regional marketplace: Key takeaways

Region	% of Global Market 2022	% of Global Market 2030	Notable Countries	% of Regional Market 2022	% of Regional Market 2030	Some Key Competitors	Analyst Notes
Asia Pacific							<i>Upgrade report license to gain access to the complete analysis</i>
Latin America							<i>Upgrade report license to gain access to the complete analysis</i>
MEA							<i>Upgrade report license to gain access to the complete analysis</i>

Sources:

7.2 North America

7.2.1 NORTH AMERICA OIL SPILL MANAGEMENT MARKET ESTIMATES & FORECASTS, 2018–2030 (USD BILLION) (TWH)



Note: The above graph is only for representation purpose

Oil spill incidents such as Exxon Valdez, Deepwater Horizon, and Marathon Oil have resulted in stringent regulatory framework for offshore oil & gas production activities.

Pipeline spill incidents involving Tesoro Logistics LP, and Enbridge Inc. urged government to adopt stringent revisions in environment and safety regulations for oil and gas transport activities. Stringent regulations such as Clean Water Act, Oil Pollution Act, Pipeline Safety Improvement Act, and Canada Oil and Gas Operations Act are expected to drive pre-oil spill technology demand over the forecast period.

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7.2.2 U.S.

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7.2.3 CANADA

7.2.4 MEXICO

7.3 Europe

7.3.1 GERMANY

7.3.2 RUSSIA

7.3.3 UK

7.3.4 SPAIN

7.3.5 ITALY

7.3.6 FRANCE

7.4 Asia Pacific

7.4.1 CHINA

7.4.2 JAPAN

7.4.3 SOUTH KOREA

7.4.4 INDIA

7.4.5 AUSTRALIA

7.5 Central & South America

7.5.1 BRAZIL

7.5.2 COLOMBIA

7.5.3 PARAGUAY

7.6 Middle East & Africa

7.6.1 UAE

7.6.2 SAUDI ARABIA

7.6.3 SOUTH AFRICA

7.6.4 EGYPT

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Section Description:

This section intends to provide an overview of competition within study product market listing major recent developments, company product offerings and market positioning are discussed in detail. It also includes vendor landscape and distinctive listing for public & private companies active in the market.

Your interest specific to additional data points can be accommodated upon request.

CHAPTER 08

Oil Spill Management Market: Competitive Landscape

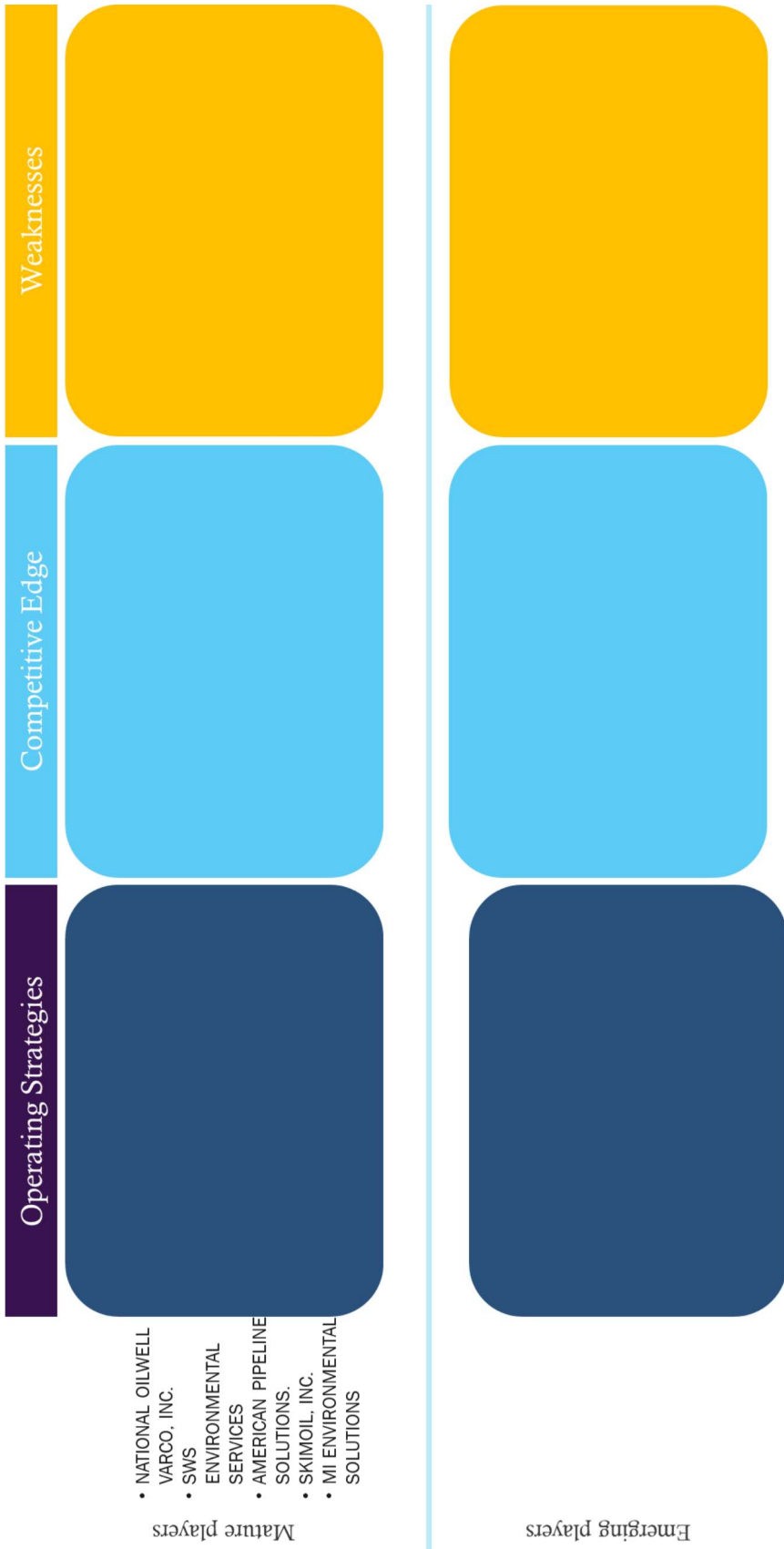
8.1 Recent Developments & Impact Analysis by Key Market Participants

Table 1 Recent Developments & Impact Analysis by Key Market Participants

Company Name	Recent Development	Impact on Operations
The Maritime Industry Authority	In March 2023, The company announced that it will release USD 600,000 from its oil pollution management fund (OPMF) for the oil spill cleanup in Oriental Mindoro after an oil tanker capsized in the area.	

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8.2 Company Categorization



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8.1 Participant's Overview

Sr. No.	Name	Establishment Year	Headquarters	Employee Strength	Verticals
1	National Oilwell Varco, Inc	1841	Houston, Texas	36,000+	The company's business portfolio comprises of four principal segments including rig systems, rig aftermarket, wellbore technologies, and completion & production solutions. The rig systems segment manages equipment and technologies deployed in subsea drilling activities.
2	<i>Upgrade report license to gain access to the complete analysis</i>				

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8.1 Financial Performance

Sr. No.	Name	Type	Revenue, 2020 (USD Million)	Revenue, 2021 (USD Million)	Revenue, 2022 (USD Million)
1	National Oilwell Varco, Inc	Public	6,073	5,525	7,234
2	<i>Upgrade report license to gain access to the complete analysis</i>				

Upgrade report license to gain access to the complete analysis

8.1 Product Benchmarking

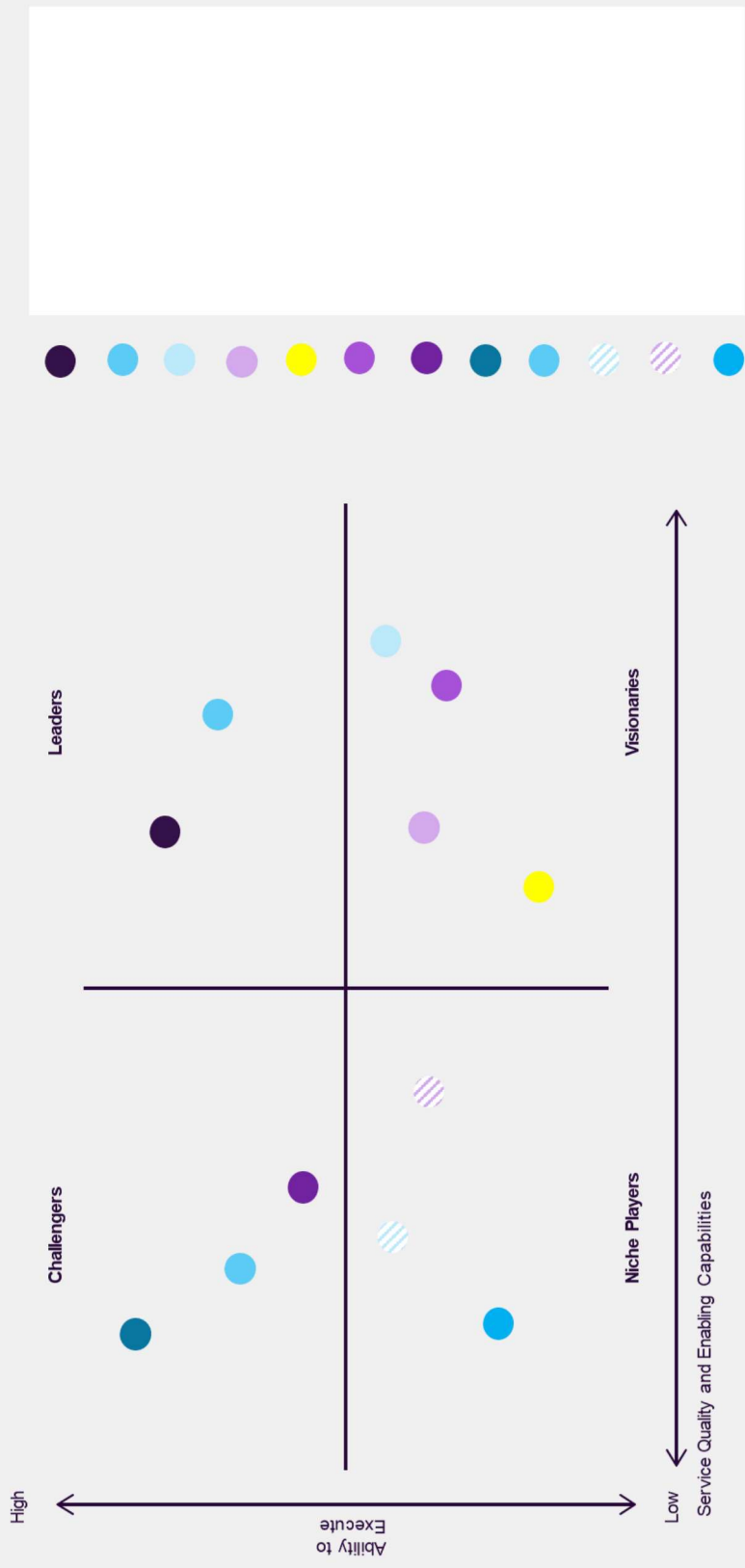
Sr. No.	Company	Product Category	Description
1	National Oilwell Varco, Inc	Ram BOP	Used in sealing drill pipes and holes

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8.2 Company Market Positioning

Fig.12 Company Market Position Analysis, 2022



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8.3 Company Heat Map Analysis

Table 2 Company Heat Map Analysis

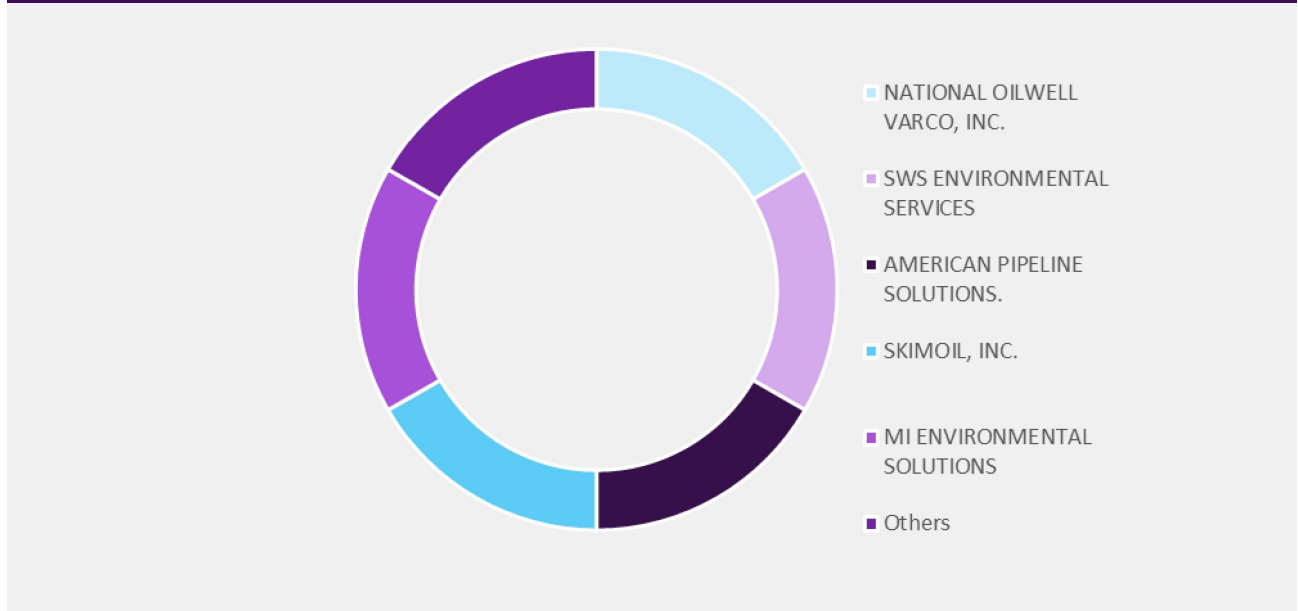
Company	Revenue	Geographical Presence	Product Portfolio	Strategic Initiatives	Final Score
Company 1	High	High	High	High	High
Company 2	High	High	High	High	High
Company 3	High	High	High	Low	High
Company 4	Low	High	High	Low	High
Company 5	High	High	High	High	High
Company 6	High	High	High	Low	High
Company 7	Low	High	High	High	High
Company 8	Low	High	High	High	High
Company 9	High	High	High	High	High
Company 10	High	High	High	High	High

Low	Medium	High
Low	Medium	High

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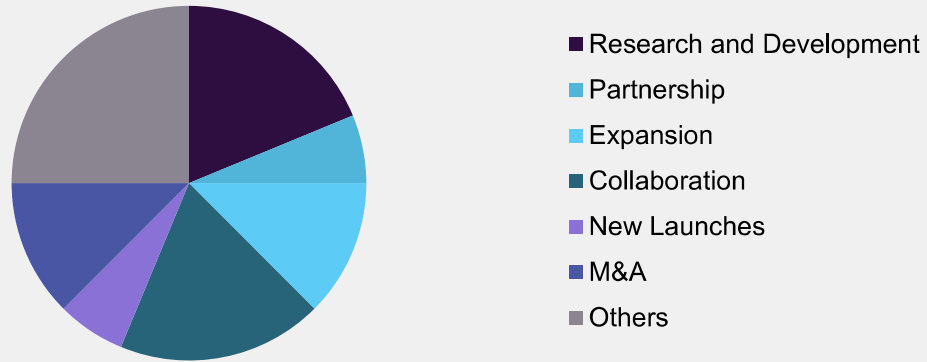
8.4 Company Market Share Analysis (2022)

Fig.13 Global Market Share Analysis (2022)



8.5 Strategy Mapping

Fig.14 Strategic framework



8.5.1 EXPANSION

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8.5.2 MERGERS & ACQUISITION

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8.5.3 COLLABORATIONS

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8.5.4 NEW PRODUCT LAUNCHES

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8.5.5 RESEARCH & DEVELOPMENT

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 - ▶ You also have the option to buy excel & PPT versions of our reports.
 - ▶ You may buy customized market intelligence based on your budget. We have an Application to offer irrespective of the price point
- **How do you arrive at these market figures?**
 - ▶ Our research methodology is a three-step cyclic process:
 - ▶ It starts with Information Procurement from internal DBs, paid primary and secondary sources
 - ▶ The second step is Data Analysis and Modeling
 - ▶ The third step is by Data Validation via industry expert opinions
 - ▶ For a detailed research methodology, please request for a sample report.

- **Who are your clients?**

- ▶ We cater three categories of clients: manufacturers and market participants, academicians, and investment banks and venture capitalists
- ▶ We service more than 1,500 clients annually. More than half of our clients re-engage us for additional reports and services.

- **How will I receive this report?**

- ▶ The report will be delivered to you via PDF, Excel, PPT downloads & BI dashboards
- ▶ Post purchase you will receive an email with a link to access the report on our proprietary platform
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Research Methodology & Scope

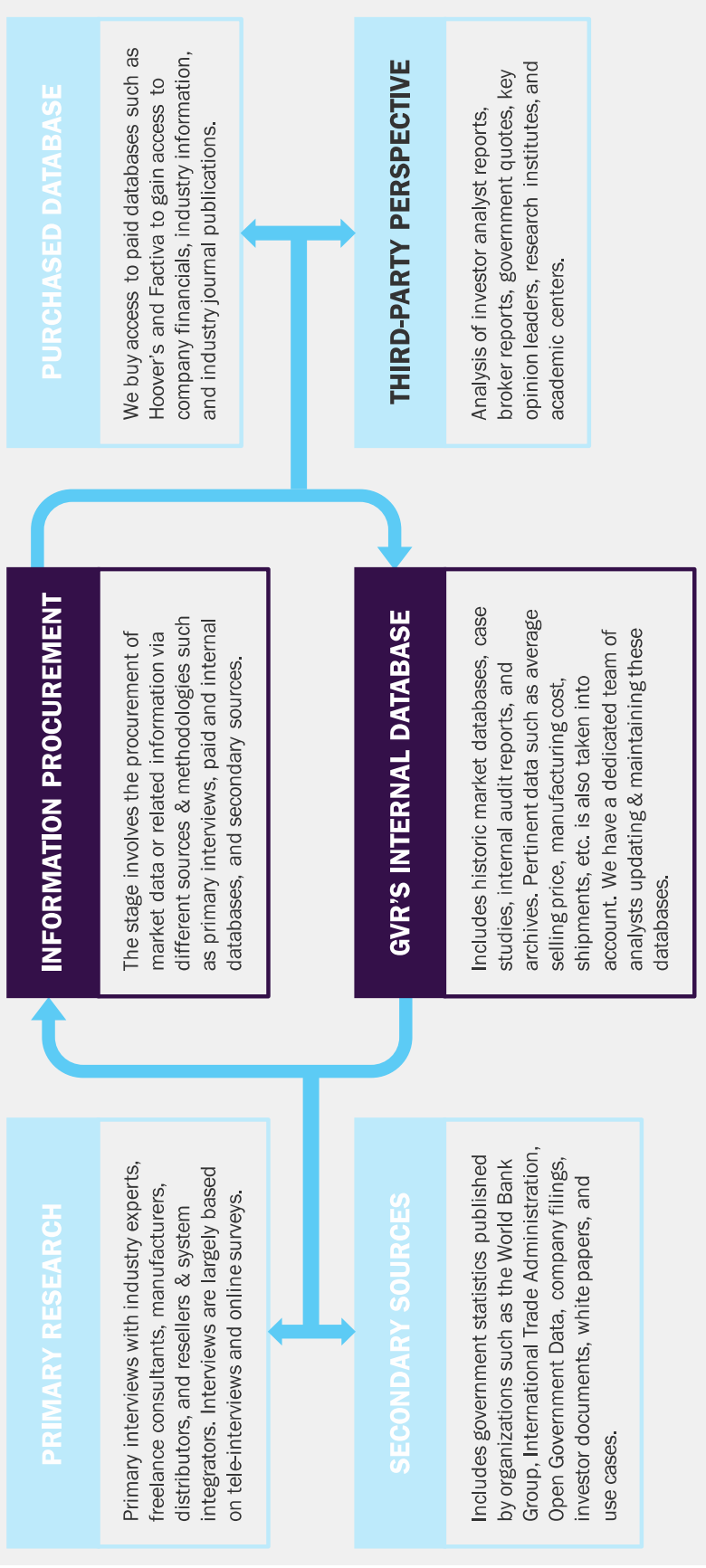
10.1 Market Scope

- The report provides market value for the base year 2020 and a yearly forecast till 2028, in terms of revenue (USD Billion)
- The market has been estimated by applying a mix of top-down and bottom-up approaches for market estimation and forecast
- The key industry dynamics, regulatory scenario, major technological trends, and application markets are evaluated to understand their impacts on the demand over the forecast period
- All market estimates and forecasts have been validated through primary interviews with key industry participants
- Inflation has not been accounted for while estimating the market
- Numbers might not add up due to rounding off.
- **North America** includes the **U.S., Canada and Mexico**
- **Europe** consists of **EU-28, Central & Eastern Europe** along with **CIS** (Commonwealth of Independent States)

- **Turkey** is considered as a part of **Europe**
- **Asia Pacific** includes **South Asia, East Asia, Southeast Asia and Oceania** (Australia & New Zealand)

10.2 Information Procurement

Fig. 1.5 Information procurement



Information procurement is one of the most extensive stages in our research process. As illustrated in the figure above, the techniques can broadly be categorized into five sections, as stated below:

10.2.1 PURCHASED DATABASE

- Includes company databases such as Factiva: This helps us compile metadata on historical sales volumes, prices, company revenues, and other industry statistics. Also, it serves as an important step in market sizing, especially in the case of commodity-flow techniques.
- Other sources include SME journals and pertinent databases from third-party vendors to gain insights into:
 - Usage rates
 - Potential market-related statistics
 - Information on unmet needs
 - Regional expenditure pattern
 - Investment information or opportunity-based statistics

10.2.2 GVR'S INTERNAL DATABASE

- Includes our internal database of data points, collected as a result of previous research & studies and information made available via our database management team
- It includes internal audit reports & archives

10.2.3 SECONDARY SOURCES

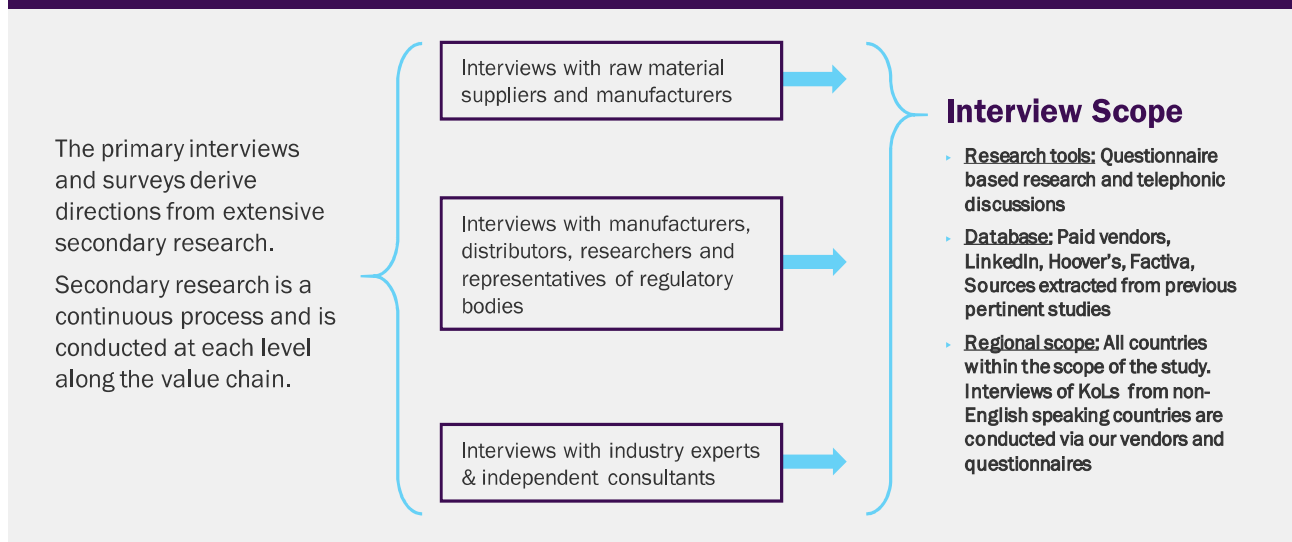
- A list of secondary sources, along with the information extracted from them, will be available in the final deliverable
- Sources consulted during the preliminary phase include ICIS, D&B, CFPA, U.S. EPA, and Company Websites
- Notable examples include white papers, government statistics published by organizations like UN Comtrade, World Bank, KoL publications, company filings, and investor documents
- Secondary databases are aimed at gathering market intel, historical statistics, and product classifications according to SIC, NAICS, and HS codes, as well as to understand trends available through public domains

10.2.4 THIRD-PARTY PERSPECTIVE

- This section includes market derivation through investor analyst reports, broker reports, academic commentary, government quotes, and wealth management publications

10.2.5 PRIMARY RESEARCH

Fig.16 Primary research pattern



10.3 Information Analysis


10.3.1 DATA ANALYSIS MODELS

Information procured from secondary and primary initiatives are analyzed by using the following tools/models: (a partial list)

- Identifying variables and establishing the market impact
- Establishing market trends
- Analyzing future opportunities and market penetration rates by understanding product commercialization and regional expansion
- Analyzing changes in the industry dynamics to establish future growth
- Analyzing sustainability strategies adhered to by market participants to determine the future course of the market
- Analyzing historical market trends and super-imposing them on the current and future variables to determine year-on-year trend
- Keeping a track of technological advancements in individual segments
- Base numbers are established by analyzing the following:
 - Company revenues and market share (this list includes the analysis of revenue published by publicly listed manufacturers)
 - Derivation of market estimates via analyzing parent and ancillary markets

- Model selection: demand-based bottom-up approach and mixed approach (top down and bottom up)

Fig.17 Primary research process



We mine the data collected to establish baselines for forecasting, identify trends and opportunities, gain insight into consumer demographics and drivers, and so much more. We utilize different methods of data analysis depending on the type of information we are trying to uncover in our research.

Market Research Efforts

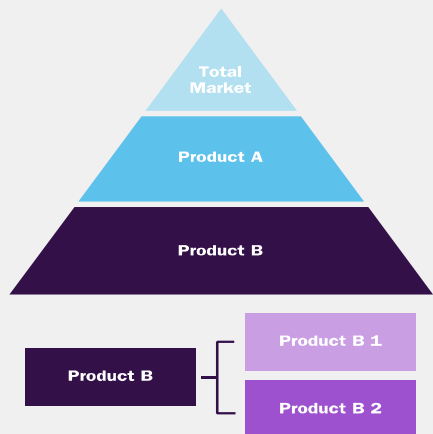
- ▶ Bottom-up Approach for estimating and forecasting demand size and opportunity
- ▶ Top-down Approach for new product forecasting and penetration
- ▶ Combined Approach of both Bottom-up and Top-down for full coverage analysis

Value Chain-Based Sizing & Forecasting

- ▶ Supply-Side Estimates for understanding potential revenue through competitive benchmarking, forecasting, and penetration modeling
- ▶ Demand-Side Estimates for identifying parent and ancillary markets, segment modeling, and heuristic forecasting
- ▶ Qualitative Functional Deployment (QFD) Modelling for market share assessment

10.4 Market Formulation and Data Visualization

Fig.18 Primary research approaches



- ▶ Demand estimation of each product across countries/regions summed to form the total market size
- ▶ Variable analysis for demand forecast
- ▶ Demand estimation via analyzing paid database, company financials either via annual reports or paid database
- ▶ Primary interviews for data revalidation and insight collection

- Penetration modeling for products
- Determining and forecasting penetration via analyzing product features, proposed pricing, and availability of internal & external substitutes
- Heuristic estimation of year-on-year sales by conducting primary interviews with:
 - Manufacturers & distributors
 - Industry experts & KoLs
 - Distributors

- Product sizing and forecasting by following a diffusion model based on S-curve growth
- Analysis of current usage rates and dosage patterns to determine substitution rates
- Regression and variable analysis
- Identifying variables and assigning impact to determine growth
- QFD modeling for market share assessment
- Referring to historic data to establish base estimates
- Using exponential smoothing for forecasting
- Epidemiology or user size-based penetration
- Analyzing current needs and determining penetration to estimate market size or sales
- Using unmet needs and capitalization rates to determine growth
- Trend analysis (based on year-on-year trending models)

10.5 Data Validation and Publishing

Some of the **secondary sources** used for this report

- International Energy Agency (IEA)
- BP Statistics
- World Energy Council (WEC)
- ASEAN Centre for Energy
- The Energy Conservation Center, Japan
- Asian Development Bank
- Africa Energy Management Platform
- New Energy and Industrial Technology Development Organization
- International Standards Organization (ISO)

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Some of the **primary sources** used for this report include but are not limited to

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10.6 List of Abbreviations

Table 3 *List of Abbreviations*

TWh	Terawatt-hours
CAGR	Compound Annual Growth Rate
CSA	Central & South America
MEA	Middle East & Africa
APAC	Asia Pacific
U.S. DoE	U.S. Department of Energy
NETL	National Energy Technology Laboratory
IRENA	International Oil Spill Management Market Agency
IEA	International Energy Agency

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Registered Office Address

Grand View Research, Inc.
201 Spear Street 1100, Suite 3036
San Francisco, CA 94105
United States

Phone: 1-415-349-0058
Email: sales@grandviewresearch.com