

# **Oil Pollution Remediation Materials Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type [Physical Remediation (Booms, Skimmers, and Adsorbent Materials), Chemical Remediation (Dispersants and Solidifiers), Thermal Remediation, and Bioremediation]**

<https://marketpublishers.com/r/O467845F69F2EN.html>

Date: February 2024

Pages: 195

Price: US\$ 5,190.00 (Single User License)

ID: O467845F69F2EN

## **Abstracts**

The oil pollution remediation materials market size was valued at US\$ 3.68 billion in 2022 and is expected to reach US\$ 4.74 billion by 2030; it is estimated to register a CAGR of 3.2% from 2022 to 2030.

The oil pollution remediation materials are utilized to reduce the high risk of contamination of water bodies due to various oil exploration, transport, and industrial operational activities that are taking place across the globe. The remediation techniques are majorly classified, such as physical remediation, chemical remediation, thermal remediation, and bioremediation, and are considered extremely important for tackling the problems of marine oil spills. The physical remediation consists of materials such as booms, skimmers, and adsorbent materials. The chemical remediation materials include dispersants and solidifiers.

Major factors contributing to the growing oil pollution remediation materials market size are the rising offshore oil exploration and transportation activities and government regulations related to oil spill preparedness and responses. In the past few years, governments of various countries have designed oil spill cleanup regulations to ensure a prompt and effective response to environmental emergencies. These regulations typically outline procedures, technologies, and standards that companies must follow to contain, control, and clean up oil spills. Regulations often stipulate the type of remediation materials that must be employed to minimize environmental impact and

ensure effective cleanup. The rising need for effective oil spill cleanup propels the demand for remediation materials. As environmental concerns and regulations intensify, there is a growing emphasis on using advanced and eco-friendly materials for remediation. Certain absorbents, dispersants, and barriers may be mandated to meet safety and efficacy standards, promoting the use of environment-friendly and efficient materials in oil spill response efforts. Governments and the oil industry have preparedness plans to conduct regular oil spill response. Government mandates to address oil spills promptly, and minimization of ecological impact have driven the demand for absorbents, dispersants, and other remediation materials. In 2023, the US Environmental Protection Agency strengthened regulations to improve oil spill responses in the US waters and adjoining shorelines under the federal government's National Contingency Plan (NCP). The standards include the development of effective oil spill remediation products, such as chemical and biological agents, and the provision of transparency and information related to the use of these products.

Based on type, the oil pollution remediation materials market is segmented into physical remediation (booms, skimmers, and adsorbent materials), chemical remediation (dispersants and solidifiers), thermal remediation, and bioremediation. The physical remediation segment holds the largest oil pollution remediation materials market share. Physical remediation is commonly used to control oil spills in a water environment. It is used to contain and recover oil that remains on the water surface without changing its properties. It is also mainly used as a barrier to control the spreading of oil spills without changing its physical and chemical characteristics. The most common advantage of using physical remediation methods is that oil retains its properties. Therefore, it can still be refined and used in the future, reducing waste and potentially mitigating financial losses. The physical remediation process includes booms, skimmers, and sorbent materials.

A boom is a temporary floating barrier that is used to contain oil spills. The use of booms reduces the possibility of polluting shorelines and other resources and helps make easy spill recovery. Absorbent booms help to concentrate oil in thicker surface layers so that vacuums, skimmers, or other collection methods can be used more efficiently. Booms are often made of closed-cell, polyethylene foam shaped into circular sections. Skimmers are mechanical devices used to recover spilled oil from the water's surface. They may be self-propelled and consist of conveyor belts, which are utilized to carry the spilled oil from the reservoir, which is further collected for processing and recovery. Few skimmer technologies also use suction to remove spilled oil, while other skimmers use gravity to gather skimmed oil into underwater storage tanks. The efficiency of skimmers is highly dependent upon the conditions of the sea. In moderately rough or calm water, skimmers tend to recover more water than oil. The efficiency of skimmers can also be determined by the type of oil being recovered, the sea conditions

during cleanup efforts, and the presence of ice or debris in the water. Chemical remediation changes the physical and chemical properties of the oil, preventing the reuse of collected oil. Chemical remediation is used in combination with physical methods for marine oil spill remediation as they restrict the spreading of oil spills and offer protection to the shorelines and sensitive marine habitats. Various chemicals are used to treat oil spills due to their capability to change the physical and chemical properties of oil. Chemicals used to control oil spills include dispersants and solidifiers. In 2022, the Middle East & Africa dominated the global oil pollution remediation materials market share. The Middle East & Africa is home to major crude oil reserves; the number of crude oil exploration activities has surged notably in this region in the past few years. Developments in technologies that aid in oil exploration and production operations have propelled the risk of oil spills, driving the demand for oil pollution remediation materials and services. Thus, developments in technologies are contributing to the growing oil pollution remediation materials market size in the Middle East & Africa. According to the US Energy Information Administration, the Middle East consists of five leading oil-producing countries—Saudi Arabia, Iraq, the UAE, Iran, and Kuwait. The region accounts for ~27% of the total global production of oil. Developing and low-developed countries in the region are taking strides to raise their international oil & gas products trade levels.

Sarva Bio Remed LLC, Oil Technics Ltd, Ansell Ltd, Oil-Dri Corp of America, Verde Environmental Group Ltd, Ecolab Inc, Cosco Shipping Heavy Industry Co Ltd, Regenesys, TOLSA SA, CL Solutions LLC, Procon Environmental Technologies (Pty) Ltd, Brady Corp, Oil Spill Eater International Corp, Osprey Spill Control, NOV Inc, Fender & Spill Response Services LLC, RX Marine International, Cura Inc, Compania Espanola de Petroleos SA, and SkimOIL LLC are among the prominent players profiled in the oil pollution remediation materials market report. In addition, several other players have been studied and analyzed during the study to get a holistic view of the market and its ecosystem. The oil pollution remediation materials market study also includes company positioning and concentration to evaluate the performance of competitors/players operating in the market.

The overall global oil pollution remediation materials market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. Participants in this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders specializing in the oil pollution remediation

materials market.

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