

Middle East & Africa Oil Pollution Remediation Materials Market Forecast to 2030 - Regional Analysis - by Type [Physical Remediation (Booms, Skimmers, and Adsorbent Materials), Chemical Remediation (Dispersants and Solidifiers), Thermal Remediation, and Bioremediation]

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Abstracts

The Middle East & Africa oil pollution remediation materials market was valued at US\$ 1,509.28 million in 2022 and is expected to reach US\$ 2,003.13 million by 2030; it is estimated to register a CAGR of 3.6% from 2022 to 2030.

Development of Novel Oil Pollution Remediation Materials Bolsters Middle East & Africa Oil Pollution Remediation Materials Market

The development of nanotechnology-based oil spill remediation has emerged as a promising frontier in addressing the environmental challenges posed by oil spills. Nanotechnology involves manipulating materials at the nanoscale, allowing for precise control over properties and interactions. Nano-sorbents such as graphene-based materials, carbon nanostructures, and magnetic nanoparticles exhibit exceptional oil-absorbing capacities. Their large surface area and unique structures allow for efficient binding with oil molecules, facilitating the removal of oil from water surfaces. Nano-emulsions and nano-dispersants improve the dispersion of oil in water. The development of bio-nano hybrids represents an amalgamation of nanotechnology and bioremediation. Nanostructures can be combined with natural substances or microorganisms to create materials with enhanced oil-degrading properties. These hybrids leverage the physical and biological mechanisms to mitigate oil pollution efficiently.

Researchers at the Massachusetts Institute of Technology developed superhydrophobic nanowire membranes for the absorption of oil from an oil-water mixture. The researchers developed free-standing membranes composed of inorganic nanowires capable of absorbing up to 20 times their weight. Nanomaterials combined with different functional properties such as chemical, magnetic, and photocatalytic, offer efficient mitigation of oil spills from the water surface. Magnetic polymer composites comprise superparamagnetic nanoparticles of maghemite and alkyd resin polymer matrix; they offer promising scope for oil spill remediation. Thus, the development of several novel oil pollution remediation materials is expected to fuel the oil pollution remediation materials market growth in the future.

Middle East & Africa Oil Pollution Remediation Materials Market Overview

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. According to the US Energy Information Administration, the Middle East includes 5 of the Top 10 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. For instance, in March 2023, Uganda approved a project application to build a pipeline spanning over a distance of 1,445 km (898 miles) to transport the country's crude oil to international markets. The pipeline would run from Uganda's oilfields in the west to a port on Tanzania's Indian Ocean coast. The project worth US\$ 3.5 billion is planned by TotalEnergies, a France-based multinational integrated energy and petroleum company.

In January 2024, the National Petroleum Corporation of Namibia (NAMCOR) in partnership with Galp and Custos Energy Holding, announced a major discovery of oil reserve at the Mopane-1X well, located off the coast of Namibia. In March 2023, NAMCOR announced a light oil discovery in the Jonker-1X deepwater exploration well, in partnership with Shell plc and QatarEnergy. In 2022, Namibia announced the Graff-1X and Venus-1X discoveries by Shell plc and TotalEnergies. The rising crude oil exploration and production activities are expected to drive the demand for oil pollution remediation materials in the Middle East & Africa during the forecast period.

Middle East & Africa Oil Pollution Remediation Materials Market Revenue and Forecast

to 2030 (US\$ Million)

Middle East & Africa Oil Pollution Remediation Materials Market Segmentation

The Middle East & Africa oil pollution remediation materials market is categorized into type and country.

Based on type, the Middle East & Africa oil pollution remediation materials market is segmented into physical remediation, chemical remediation, thermal remediation, and bioremediation. The physical remediation segment held the largest market share in 2022. Furthermore, the physical remediation segment is sub segmented into booms, skimmers, and adsorbent materials. Additionally, the chemical remediation segment is bifurcated into dispersants and solidifiers.

By country, the Middle East & Africa oil pollution remediation materials market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the Middle East & Africa oil pollution remediation materials market share in 2022.

Ansell Ltd; Brady Corp; Compania Espanola de Petroleos SA; Cosco Shipping Heavy Industry Co., Ltd; Ecolab Inc; Fender & Spill Response Services LLC; NOV Inc; Procon Environmental Technologies (Pty) Ltd; RX Marine International; TOLSA SA; and Verde Environmental Group Ltd are some of the leading companies operating in the Middle East & Africa oil pollution remediation materials market.

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