

Global Environmental Remediation Market – Technologies and Applications

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Abstracts

Environmental Remediation Market Trends and Outlook

Environmental Remediation focuses on the quick and effective redressal of any environmental hazards and damages resulting from pollution, contamination or other human activities. In this, soil, water, air or other environmental media are cleaned up and restored to their original uncontaminated state. The methods used for remediation can depend on the type and level of contamination.

The global market for Environmental Remediation is anticipated to record a CAGR of 9.1% over the 2024-2030 analysis period and reach a projected US\$215.1 billion by 2030 from an estimated US\$127.9 billion in 2024.

The worldwide market for Environmental Remediation has been on an impressive growth trajectory because of a host of factors, prominent among which include increasing soil & water contamination, attempts to control uncontrolled industrial activity, stringent government mandates, development of novel remedial solutions, use of nanotechnology as an innovative approach and greater focus on developing eco-friendly industries.

Environmental Remediation Regional Market Analysis

By geography, Asia-Pacific forms the largest global market for Environmental Remediation and is also on course to be the fastest growing. The unprecedented industrialization and rampant population growth in the region have created a dire ecological imbalance. The situation has been further aggravated by the effects of climate change, because of which extreme weather patterns, rises in sea levels and

alteration in rainfall have become common climatic events. All these factors are responsible for wider implementation of Environmental Remediation techniques in Asia-Pacific, and this is anticipated to be an ongoing process over the coming period.

Environmental Remediation Market by Technology

The major types of technologies used in Environmental Remediation include Air Sparging, Bioremediation, Chemical Treatment, Electrokinetic Remediation, Excavation, Permeable Reactive Barriers and Soil Washing, among others (incl. Phytoremediation, Pump & Treat, Soil Vapor Extraction and Thermal Treatment). Bioremediation, other than capturing the largest share, is also expected to be the fastest growing technology type used in the global Environmental Remediation market. In Situ Bioremediation enables in treating pollutants at their original site by eliminating the requirement of excavating or pumping out the contaminated materials. This is achieved using techniques, such as bioventing, biosplurging, biosparging and natural attenuation, among others. In situ is the most effective technique to treat groundwater that has a low concentration of contaminants, in which it is possible to increase oxygen availability by pumping air into the soil's subsurface. Moreover, the In Situ method is capable of being controlled through manipulating certain factors, such as aeration, nutrient concentration and moisture content, which enhances organism activity and accelerates degradation rate. Ex Situ Bioremediation, in contrast, employs composting, land farming, soil biopiles and slurry reactors for removing contaminated materials away from their original location and finds application to treat soil contaminated with hydrocarbons. However, this method involves excavation of contaminated materials, which can lead to further costs in the remediation process, thereby limiting its wider application.

Environmental Remediation Market by Type of Site

By site type, the global market for Environmental Remediation is divided into Private and Public, of which Public sites account for the larger share, which is also expected to maintain a higher growth in demand. Based on region, public sites are governed by a variety of laws for maintaining cleanliness and ensuring that environmental damage is either completely eliminated or limited to the minimum. One example of such a regulation is the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) in the United States, which has set up a framework to tackle the issue of hazardous waste dumping and hold the parties responsible for cleaning up.

Environmental Remediation Market by Medium

Soil and Groundwater are the two media for which Environmental Remediation methods are employed, with the former cornering more than half of the market share that is likely to be maintained over the analysis period. These technologies are most required for soil remediation, since soil is the fundamental medium for agricultural production, biodiversity and maintenance of the ecosystem. Contaminated soil has a detrimental effect on soil fertility, plant growth and beneficial microbial communities, due to which agricultural productivity gets impaired. Hence, remediation of soil using proper techniques enables in restoring soil health and functionality, as well as supporting practices favoring sustainable land use, conservation of biodiversity and enhancing ecosystem resilience. However, the demand for Environmental Remediation techniques for Groundwater treatment would likely clock a faster growth, since depleting freshwater resources have forced governments to undertake adequate initiatives for addressing this grave concern.

Environmental Remediation Market by Application Area

The techniques used in Environmental Remediation are widely applied in the areas of Agriculture, Automotive, Chemical & Other Industrial Processing, Construction & Land Development, Landfills & Waste Disposal Sites, Manufacturing, Mining & Forestry and Oil & Gas. Other than being the largest, Oil & Gas is also slated to be the fastest growing application area for Environmental Remediation technologies. These can help eliminate the various types of volatile organic compounds (VOCs) and other harmful chemicals that are commonly released during the production process. Apart from this contributing further to already existing air pollution, several unsafe byproducts, such as methane and anthropogenic compounds are released directly into the soil as a part of manufacturing operations, thereby causing irreparable damage. Overcoming these can be possible using the proper Environmental Remediation technique. Mining & Forestry and Chemical & Other Industrial Processing are the other major application sectors for Environmental Remediation.

Environmental Remediation Market Report Scope

This global report on Environmental Remediation analyzes the market based on technology, site type, medium and application area. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2021-2023

Base Year: 2023

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 60+

Environmental Remediation Market by Geographic Region

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, Russia, Spain, The United Kingdom and Rest of Europe)

Asia-Pacific (China, Japan, India, South Korea and Rest of Asia-Pacific)

South America (Argentina, Brazil and Rest of South America)

Middle East & Africa

Environmental Remediation Market by Technology

Air Sparging

Bioremediation

Chemical Treatment

Electrokinetic Remediation

Excavation

Permeable Reactive Barriers

Soil Washing

Other Technologies (Incl. Phytoremediation, Pump & Treat, Soil Vapor
Extraction and Thermal Treatment)

Environmental Remediation Market by Type of Site

Private Site

Public Site

Environmental Remediation Market by Medium

Groundwater

Soil

Environmental Remediation Market by Application Area

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Automotive

Chemical Processing

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Industrial

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Oil & Gas

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Ambleside Environmental

Amentum Services, Inc.

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Bechtel Corp
Biorettec
Black & Veatch Holding Co
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Bristol Industries, LLC
Care Environmental Remediation Services, Inc.
Cascade Environmental
Clean Harbors, Inc.
Clean Management Environment Group, Inc.
Cold Chain Technologies LLC
Cryopak Industries, Inc.
DGP Intelsius GmbH
Dredging Corporation of India Ltd
Dredging, Environmental and Marine Engineering NV (DEME)
ERS, Inc.
Engineering and Maintenance Solutions (EMS)
Entact LLC
Environmental Remediation Resources Pty Ltd
Environmental Remediation Services, Inc.
Environmental Works, Inc.
EnviroServe
Envirotainer AB
Fluor Corp
GEO, Inc.
Golder Associates Corp
HDR, Inc.
Haz Mat Special Services, LLC
HEPACO
Inmark LLC
In-Situ Oxidative Technologies, Inc.
Jacobs Engineering Group
McMahon Services
Microbial Insights
MWH Global, Inc.
NewTerra Ltd
NorthStar Group Services, Inc.
O6 Environmental Services
Pelican Biothermal LLC
Qed Environmental Systems Ltd

RSB Environmental
Regenesis
Republic Services
SCG Industries
Sequoia Environmental Remediation, Inc.
Sofrigam SA
Softbox Systems
Sonoco Products Co
Sprint Sanierung GmbH
Suez
Tarmac International Inc.
Terra Systems, Inc.
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