Waste Disposal Regulations for Drilling Mud & Cuttings Technology, Cost Trends, Environmental Impact and Regional Regulatory Bodies by Mud Type (Water-Based, Oil-Based, Synthetic Based), by Region and Markets Analysis with Forecast

Description: Growing environmental concerns and the increasing global energy demand lead to stricter government regulations. Initially, drilling activity in exploration and production (E&P) involved simple processes. Drilling waste management was not a prime concern, as the only additives in drilling mud were barite and bentonite. Shale shakers, desanders, and centrifuges were used to help reduce the solid loading in the drilling fluid system. These two additives have a low environmental impact. Most waste management practices involved onsite waste management through simple techniques such as storage in pits and burial. Environmental protection has always played a role in E&P operations. During the 1970s, intense efforts were made across all industries to examine discharges for possible environmental hazards. These activities led to the formulation of environmental regulations. To ensure compliance with these regulations, a number of companies provide drilling waste management services. These services can be categorized on the basis of phase into solid control, containment & handling, and treatment & disposal. Water-based mud is the least regulated and most widely adopted mud in the world. Water-based mud consists of water, salts, barite, bentonite, and other minor additives, with water being the primary fluid. The composition of the water-based mud is dependent on the density of the mud, and has an approximate make-up of 76% (weight) water, 15% barite, 7% bentonite, and 2% salts and other additives. Owing to this, this type of mud has the least amount of regulations associated with it. The use of other non-aqueous fluids, such as synthetic- and oil-based muds, entails compliance with strict disposal regulations; for instance, maximum discharge limit of 1% of oil on cutting (dry weight). North America and Europe impose the most stringent discharge regulations in the world. With regard to regions, North America and Europe are frontrunners in terms of environmental protection; these regions enforce strict regimes to preserve human health and the environment. The main regulatory regimes in these regions are the Environmental Protection Agency (EPA) and the OSPAR Convention, which formulate regulation policies for discharge in the region. Stringent environmental laws such as zero discharge policy in the offshore region and heavy penalties for violation of regulations have come into play in countries like China. Waste disposal regulations in other regions, such as Africa and the Middle East, are comparatively lenient. Countries such as Norway and the U.K. enforce strict regulations for the discharge of oil-based cuttings into the sea. These follow the regulations of the OSPAR convention. According to the OSPAR 2000/3 decision, discharge is subject to a limit of 1% oil on cuttings.

Organizations Profiled:
Environment Canada (Canada), Fisheries and Ocean Canada (Canada), National Energy Board (Canada), Environmental Protection Agency (U.S.), United Kingdom Onshore Operators Group (UKOOG), National Offshore Petroleum Safety and Environmental Management Authority (Australia), Department of Mineral Fuels (Thailand), and others.

Reasons to buy the report: This research report has focused on various levels of legislation levied across various countries, major technology used for waste minimization, recycling & reuse, and treatment & disposal, and key equipment and service provider and agency profiles, which together comprise and discuss the basic views on the competitive landscape, price comparison, and other factors. The report will enable both, established firms as well as new entrants/smaller firms to gauge the pulse of the country, which in turn, will help the firms garner a better understanding of the regulatory framework.

Contents:
1 Introduction
1.1 Objectives of the Study
1.2 Market Definition
1.3 Study Scope
1.3.1 Segments Covered
1.3.2 Stakeholders
4.2.3.1.4.3 Administrating Activities
4.2.3.1.5 National Energy Board
4.2.3.1.5.1 Overview
4.2.3.1.5.2 Organizational Chart
4.2.3.1.5.3 Administrating Activities
4.2.3.1.6 Canada-Newfoundland & Labrador Offshore Petroleum Board
4.2.3.1.6.1 Overview
4.2.3.1.6.2 Organizational Chart
4.2.3.1.6.3 Administrating Activities
4.2.3.1.7 Canada-Nova Scotia Offshore Petroleum Board
4.2.3.1.7.1 Overview
4.2.3.1.7.2 Organizational Chart
4.2.3.1.7.3 Administrating Activities
4.3 Europe
4.3.1 Europe: Drilling Waste Management Market, By Country
4.3.2 Russia
4.3.2.1.1 Drilling Waste Industry Regulation
4.3.2.1.2 Ministry of Natural Resources & Environment of the Russian Federation
4.3.2.1.2.1 Overview
4.3.2.1.2.2 Organizational Structure
4.3.2.1.2.3 Administrating Activities
4.3.3 Norway
4.3.3.1.1 Drilling Waste Industry Regulation
4.3.3.1.2 Norwegian Environment Agency
4.3.3.1.2.1 Overview
4.3.3.1.2.2 Organizational Structure
4.3.3.1.2.3 Administrating Activities
4.3.4 U.K.
4.3.4.1.1 Drilling Waste Industry Regulation
4.3.4.2 Environment Agency-U.K.
4.3.4.2.1 Overview
4.3.4.2.2 Organizational Structure
4.3.4.2.3 Administrating Activities
4.4 Asia-Pacific
4.4.1 Asia-Pacific Drilling Waste Management Market Size, By Country
4.4.2 China
4.4.2.1.1 Drilling Waste Industry Regulation
4.4.2.2 Ministry of Environmental Protection of the People'S Republic of China
4.4.2.2.1 Overview
4.4.2.2.2 Organizational Structure
4.4.2.2.3 Administrating Activities
4.4.3 Thailand
4.4.3.1.1 Drilling Waste Industry Regulation
4.4.3.2 Ministry of Natural Resources And Environment- Thailand
4.4.3.2.1 Overview
4.4.3.2.2 Organizational Structure
4.4.3.2.3 Administrating Activities
4.4.4 Australia
4.4.4.1.1 Drilling Waste Industry Regulation
4.4.4.2 National Offshore Petroleum Safety And Environmental Management Authority
4.4.4.2.1 Overview
4.4.4.2.2 Organizational Structure
4.4.4.2.3 Administrating Activities
4.5 South America
4.5.1 South America Drilling Waste Management Market Size, By Country
4.5.2 Venezuela
4.5.2.1.1 Drilling Waste Industry Regulation
4.5.3 Argentina
4.5.3.1.1 Drilling Waste Industry Regulation
4.5.4 Brazil
4.5.4.1.1 Drilling Waste Industry Regulation
4.6 Africa
4.6.1 Africa Drilling Waste Management Market Size, By Country
4.6.2 Egypt
4.6.2.1 Drilling Waste Industry Regulation
4.6.2.2 Ministry of State for Environmental Affairs
4.6.2.2.1 Overview
4.6.2.2.2 Organizational Structure
4.6.2.2.3 Administrating Activities
4.6.3 Nigeria
4.6.3.1 Drilling Waste Industry Regulation
4.6.3.2 National Environmental Standards & Regulations Enforcement Agency (Nesrea)-Nigeria
4.6.3.2.1 Overview
4.6.3.2.2 Organizational Chart
4.6.3.2.2.1 Administrating Activities
4.6.3.2.4 Drilling Waste Industry Regulation
4.6.3.3 Ministry of Petroleum-Angola
4.6.3.3.1 Overview
4.6.3.3.2 Organizational Structure
4.6.3.3.3 Administrating Activities
4.7 Middle East
4.7.1 Middle East Drilling Waste Management Market Size, By Country
4.7.2 Oman
4.7.2.1 Drilling Waste Industry Regulation
4.7.2.2 Ministry of Environment And Climate Affairs
4.7.2.2.1 Overview
4.7.2.2.2 Administrating Activities
4.7.2.3 Ministry of Oil & Gas-Oman
4.7.2.3.1 Overview
4.7.2.3.2 Organization Structure
4.7.2.3.3 Administrating Activities
4.7.3 Saudi Arabia
4.7.3.1 Drilling Waste Industry Regulation
4.7.3.2 Ministry of Petroleum And Mineral Resources of Saudi Arabia
4.7.3.2.1 Overview
4.7.3.2.2 Organizational Structure
4.7.3.2.3 Administrating Activities
4.7.4 Kuwait
4.7.4.1 Drilling Waste Industry Regulation
4.7.4.2 Environment Public Authority-Kuwait
4.7.4.2.1 Overview
4.7.4.2.2 Organizational Structure
4.7.4.2.3 Administrating Activities
List of Tables:
Table 1 Constituents That Impact the Environment, By Waste Type
Table 2 Exposure Type
Table 3 Elemental Composition of Drilling Mud (Mg/Kg)
Table 4 Waste Minimization Technologies
Table 5 Drill Cuttings Reuse & Recycle Management Options
Table 6 Drill Cuttings & Drilling Fluid Disposal Technologies
Table 7 Cost Drivers for Drilling Waste Management
Table 8 Approximate Costs of Different Drilling Waste Management Technologies
Table 9 Drilling Waste Management, Regional Cost Variations
Table 10 Key Companies in the Drilling Waste Management Market & Their Solutions Portfolio
Table 12 California: Discharge Practices & Standards for Water Drilling Mud & Cuttings
Table 13 California: Discharge Practices & Standards for Oil Drilling Mud & Cuttings
Table 14 California: Discharge Practices & Standards for Synthetic Drilling Mud & Cuttings
Table 15 Gom: Discharge Practices & Standards for Water Drilling Mud & Cuttings
Table 16 Gom: Discharge Practices & Standards for Oil-Based Drilling Mud & Cuttings
Table 17 Gom: Discharge Practices & Standards for Synthetic Drilling Mud & Cuttings
Table 18 Louisiana: Onshore Land Spreading Practices & Standards
Table 19 Texas: Onshore Land Spreading Practices & Standards
Table 20 Rest of the U.S.: Discharge Practices & Standards for Water Drilling Mud & Cuttings
Table 84 Angola: Active Players Among Drilling Waste Management Service Providers
Table 85 Middle East: Drilling Waste Management Market Size, By Country, 2013-2020 (USD Million)
Table 86 Oman Discharge Practices & Standards for Water-Based Drilling Mud & Cuttings
Table 87 Oman Discharge Practices & Standards for Oil-Based Drilling Mud & Cuttings
Table 88 Oman Discharge Practices & Standards for Synthetic-Based Drilling Mud & Cuttings
Table 89 Oman: Active Players Among Drilling Waste Management Service Providers
Table 90 Saudi Arabia Discharge Practices & Standards for Water-Based Drilling Mud & Cuttings
Table 91 Saudi Arabia Discharge Practices & Standards for Oil-Based Drilling Mud & Cuttings
Table 92 Saudi Arabia Discharge Practices & Standards for Synthetic-Based Drilling Mud & Cuttings
Table 93 Saudi Arabia: Active Players Among Drilling Waste Management Service Providers
Table 94 Kuwait Discharge Practices & Standards for Water-Based Drilling Mud & Cuttings
Table 95 Kuwait Discharge Practices & Standards for Oil-Based Drilling Mud & Cuttings
Table 96 Kuwait Discharge Practices & Standards for Synthetic-Based Drilling Mud & Cuttings
Table 97 Kuwait: Active Players Among Drilling Waste Management Service Providers

List of Figures:
Figure 1 Countries Covered: Drilling Waste Management Market
Figure 2 North America Has the Most Stringent Criteria to Be Met for Discharge of Oil-Based Cuttings
Figure 3 Ospar Countries Have High Growth Potential for Drilling Waste Management Services With Limited Norms to Be Followed for the Disposal of Water-Based Muds
Figure 4 Nigeria & Kuwait - Apt Location for Oil-Based Management Services Market Penetration
Figure 5 Australia, Nigeria, & Brazil: Medium Potential Market With Limited Risk Regulation Level for Disposal of Synthetic-Based Mud Services
Figure 6 Top Technology Providers in Each Region
Figure 7 Drilling Waste Management Hierarchy
Figure 8 Vendor Selection Matrix
Figure 9 North America & Europe Impose Stricter Regulations
Figure 10 Organizational Chart

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