

Liquid Waste Management Market - Forecasts from 2021 to 2026

<https://marketpublishers.com/r/L1E1161B17BAEN.html>

Date: February 2021

Pages: 124

Price: US\$ 4,250.00 (Single User License)

ID: L1E1161B17BAEN

Abstracts

The global liquid waste management market is expected to grow at a compound annual growth rate of 5.12% over the forecast period. The market would be driven by the surging number of waterborne diseases such as Malaria, Typhoid, diarrhoea, Cholera, and other related diseases, which causes safety concerns and increasing toxicity, among individuals. The market is also expected to be driven by the rising population, increasing urbanization, surging liquid waste from residential areas, industries, and others.

Increasing Number of Water Borne Diseases

Some of the most common water-borne diseases are Typhoid, Cholera, diarrhoea, and Malaria. According to the World Health Organization, Cholera is considered to be an acute diarrheal disease, that can kill an individual within a few hours, if not treated. There are around 1.3 million to 4 million cases of cholera every year, and around 21,000 to 143,000 deaths had been due to cholera, every year. Cholera can be considered as an epidemic or endemic. Other diseases also called widespread damage, if left untreated. Diarrhoea is also one of the major waterborne diseases, and a leading cause of death. The World Health Organization stated that diarrhoea is a major cause of death in children, below five years of age. The diseases are both treatable and preventable. There are approx. 525,000 children die from diarrhoea, every year. There are approximately 1.7 billion cases of diarrhoea, globally, every year. The major causes of diarrhoea are due to the lack of availability of safe drinking water, lack of liquid waste management projects and initiatives, and proper hygiene and sanitation. Acute Watery diarrhoea is one of the most common waterborne diarrhoea diseases, which last for several or days. It could kill an individual within hours if left untreated. Dehydration is also one of the most common effects of diarrhoea. Severe dehydration can lead to

sunken eyes, lethargy, skin pinch and unable to drink and eat properly. Typhoid is also one of the major water borne diseases. According to the WHO report, an estimated figure between 11 to 20 million people gets affected by typhoid and around 128,000 to 161,000 people die from typhoid every year. Some of the most common symptoms of typhoid are nausea, headache, fatigue, fever, and other related problems. In 2017, WHO prequalified a novel typhoid conjugate vaccine, which had longer-lasting immunity. Malaria is also one of the most common water borne diseases, which would be a major factor in the growth of the Liquid Waste Management Market. It is caused by parasites and insects that are transmitted to individuals through infected mosquitos. The mosquitos are usually found in the area of solid or liquid waste disposal. In 2019, there were around 229 million cases of malaria and an estimated number of 409,000 people dies, globally. Africa is one of the major continents affected by malaria. In 2019, the African region had 94% of malaria cases and overall deaths. There is an urgent need to prevent these diseases, which would have a positive effect on the liquid waste management market.

Safe Drinking Water and Sanitation Initiatives to Drive the Market Growth

One of the major factors in driving the liquid waste management market growth would be the initiatives launched to enhance and improve safe drinking water and sanitation facilities. According to the United Nations Report, one in three people, globally, don't have proper access to safe drinking water, and more than 892 million people, worldwide, still practice open defecation. The COVID-19 Pandemic had shown the imperativeness of adequate access to clean, water, sanitation, and hygiene facilities. Water scarcity is also one of the major concerns, which would propel the liquid waste management market growth in the coming years. It affects more than 40%, globally, and the percentage is expected to surge in the next decade. The population growth is expected to surge to more than 9 billion people, by the year 2050, which would put considerable pressure on the water table. There is expected to be a 40% shortfall in the freshwater table by the year 2030. More than 80% of water, wasted from human activities is discharged into the sea or rivers, without any pollution removal, impacting the marine life. Agriculture is one of the major sectors, which uses substantial water services. Around 70% of all water extracted from aquifers, lakes, and rivers, is usually used for irrigation. These factors will propel and accelerate the growth of the liquid waste management market.

Regional Outlook

Europe and North America are expected to have a major share in the market, because

of stringent government regulations, high disposable incomes, excellent infrastructure, and the presence of major players in the region. In Europe, wastewater is usually managed through the Council Directive in Urban Water Treatment. The wastewater is also managed by other directives such as the EU Water Framework Directive, Bathing Water Directive, and Ground Water Directive. In the European Union, wastewater is usually not considered within the scope of the circular economy. The region had developed the Waste Framework Directive to treat sludge, from wastewater treatment plants. In the United States, according to Government Data, there is a need for USD 271 billion worth of wastewater infrastructure projects. Only approx. USD 45 billion worth of projects had been built in the country. Approx. 76% of the United States population relies on 14,748 treatment plants. Around 8 million sludge is created annually by the wastewater treatment plants and 4% of the country's electricity is used to treat wastewater. One of the major challenges in the country is to maintain the efficiency of the plants as it had been becoming less effective, with time. Asia Pacific region is also expected to have a major share in the market because of the rising urbanization, considerable population, increasing income, and major investments in infrastructure projects. India is expected to have a major share in the market, in the coming years because of its rising income and large population. With over 1.3 billion people in the country, there has been an urgent need to address liquid waste issues. The Government of India launched Swachh Bharat Mission, intending to bring enhancement, waste management, in an urban and rural area. China, Singapore, Thailand, Indonesia, and other nations will also play an imperative role in the market growth in the coming years. Major companies have been making significant developments in the region, in recent times. In December 2020, the China State Construction Engineering Singapore branch got a contract of USD 237 million, to build modules at the Tuas Water Reclamation Plant for treatment of a large volume of used industrial water.

Segmentation:

By Source

Industrial

Commercial

Residential

By Services

Disposal/Recycling

Transportation

Collection

By End-User

Oil and Gas

Iron and Steel

Automotive

Textile

Others

By Geography

North America

USA

Canada?

Mexico

South America

Brazil

Argentina

Others

Europe

UK

Germany

France

Italy

Spain

Others

Middle East and Africa

Saudi Arabia

UAE

Israel

Others

Asia Pacific

Japan

China

India

Australia

Others

Note: The report will be delivered within 3 business days.

Contents

1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Segmentation

2. RESEARCH METHODOLOGY

- 2.1. Research Data
- 2.2. Assumptions

3. EXECUTIVE SUMMARY

- 3.1. Research Highlights

4. MARKET DYNAMICS

- 4.1. Market Drivers
- 4.2. Market Restraints
- 4.3. Porters Five Forces Analysis
 - 4.3.1. Bargaining Power of Suppliers
 - 4.3.2. Bargaining Power of Buyers
 - 4.3.3. The threat of New Entrants
 - 4.3.4. Threat of Substitutes
 - 4.3.5. Competitive Rivalry in the Industry
- 4.4. Industry Value Chain Analysis

5. GLOBAL LIQUID WASTE MANAGEMENT MARKET ANALYSIS, BY SOURCE

- 5.1. Introduction
- 5.2. Industrial
- 5.3. Commercial
- 5.4. Residential

6. GLOBAL LIQUID WASTE MANAGEMENT MARKET ANALYSIS, BY SERVICE

- 6.1. Introduction
- 6.2. Disposal/Recycling

6.3. Transportation

6.4. Collection

7. GLOBAL LIQUID WASTE MANAGEMENT MARKET ANALYSIS, BY END-USER

7.1. Introduction

7.2. Oil and Gas

7.3. Iron and Steel

7.4. Automotive

7.5. Textile

7.6. Others

8. GLOBAL LIQUID WASTE MANAGEMENT MARKET ANALYSIS, BY GEOGRAPHY

8.1. Introduction

8.2. North America

8.2.1. North America Liquid Waste Management Market Analysis, By Source

8.2.2. North America Liquid Waste Management Market Analysis, By Service

8.2.3. North America Liquid Waste Management Market Analysis, By End-User

8.2.4. By Country

8.2.4.1. United States

8.2.4.2. Canada

8.2.4.3. Mexico

8.3. South America

8.3.1. South America Liquid Waste Management Market Analysis, By Source

8.3.2. South America Liquid Waste Management Market Analysis, By Service

8.3.3. South America Liquid Waste Management Market Analysis, By End-User

8.3.4. By Country

8.3.4.1. Brazil

8.3.4.2. Argentina

8.3.4.3. Others

8.4. Europe

8.4.1. Europe Liquid Waste Management Market Analysis, By Source

8.4.2. Europe Liquid Waste Management Market Analysis, By Service

8.4.3. Europe Liquid Waste Management Market Analysis, By End-User

8.4.4. By Country

8.4.4.1. UK

8.4.4.2. Germany

8.4.4.3. France

8.4.4.4. Italy

8.4.4.5. Spain

8.4.4.6. Others

8.5. The Middle East and Africa

8.5.1. Middle East and Africa Liquid Waste Management Market Analysis, By Source

8.5.2. Middle East and Africa Liquid Waste Management Market Analysis, By Service

8.5.3. Middle East and Africa Liquid Waste Management Market Analysis, By End-User

8.5.4. By Country

8.5.4.1. Saudi Arabia

8.5.4.2. UAE

8.5.4.3. Israel

8.5.4.4. Others

8.6. Asia Pacific

8.6.1. Asia Pacific Liquid Waste Management Market Analysis, By Source

8.6.2. Asia Pacific Liquid Waste Management Market Analysis, By Service

8.6.3. Asia Pacific Liquid Waste Management Market Analysis, By End-User

8.6.4. By Country

8.6.4.1. Japan

8.6.4.2. China

8.6.4.3. India

8.6.4.4. Australia

8.6.4.5. Others

9. COMPETITIVE ENVIRONMENT AND ANALYSIS

9.1. Major Players and Strategy Analysis

9.2. Emerging Players and Market Lucrativeness

9.3. Mergers, Acquisitions, Agreements, and Collaborations

9.4. Vendor Competitiveness Matrix

10. COMPANY PROFILES

10.1. Enva

10.2. Cleanway

10.3. Clean Harbors Inc

10.4. Covanta Holding Corporation

10.5. Hulse Environmental Services

- 10.6. GFL Environmental Services
- 10.7. Suez
- 10.8. Veolia
- 10.9. Remondis SE & Co. KG
- 10.10. WM Intellectual Property Holdings

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