

Biosolids Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The market for biosolids is projected to register a CAGR of over 3.5% during the forecast period.

The COVID-19 pandemic affected the biosolids market negatively in 2020. However, the growing demand for biosolids on agricultural land has fueled overall industry growth since the pandemic.

Key Highlights

One of the main things driving the market that was looked at is the need to replace dangerous chemical fertilizers and strict emission laws in many countries around the world.

On the other hand, contradictory information about biosolids that is available to the public is likely to slow the growth of the market.

The rising focus on sludge treatment in the Asia-Pacific, mainly in China and India, is likely to offer new avenues for industry growth shortly.

North America dominated the biosolids market due to government and public support for environmentally friendly technologies.

Biosolids Market Trends

Agricultural Land Application to Dominate the Market

Biosolids can be used on agricultural land, in forests, on rangelands, or on disturbed land in need of reclamation.

In terms of consumption, agriculture land applications consume the most biosolids. Consistent population growth across Asia-Pacific and North America is expected to augment the need for agricultural yields, which may positively affect the

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consumption of biosolids in the sector.

In 2021, the total number of farms stood at just over two million. On average, farm sizes in the United States are around 445 acres, and in total, there are about 895 million acres of farmland across the country.

In the global trade of agricultural goods, the United States is a major participant. In 2021, the United States recorded a total of USD 172 billion in exports of agricultural goods. China, Canada, and Mexico were the top three destinations.

Scientists and farmers are looking for new technologies to increase the productivity of crops and meet the food demand arising from disproportionate population growth. Additionally, there has been a decrease in the total available cropland area in countries like the United States over the last decade.

Biosolids can be effectively used as fertilizer and soil conditioners for human crop production. These are usually incorporated into the soil with conventional farm equipment. They are also used as fertilizer for animal crop production.

Big enterprises and big farmers are increasingly making their presence felt in cattle farming and meat products. They are augmenting the demand for animal crop production, which is providing impetus to the application of biosolids as fertilizers for animal crop production. This has led to an increase in demand for biosolids in agricultural land applications.

They also help in the reduction of fertilizer costs and provide many micronutrients for crop growth. The increasing world population is expected to give rise to a growing need for agriculture, which may impact the use of biosolids in the sector.

Hence, agricultural land application is expected to dominate the market during the forecast period.

North America to Dominate the Market

North America dominated the market owing to the government and public support for environmentally friendly technologies in countries like the United States and Canada.

In the United States, the biosolids market is mostly driven by the fact that both the government and the public want to use technologies that are good for the environment.

The US EPA adopted the name "biosolids" to differentiate high-quality treated sewage sludge from raw sewage sludge, which contains large amounts of pollutants.

There are both ways to get rid of biosolids from wastewater that can't be used again (like putting them in a landfill) and ways to use them in a good way (like landfilling with biogas and energy recovery).

Biosolids are generated during wastewater treatment processes and are extensively used to satisfy the US EPA's 40 CFR Part 503 regulations.

The majority of the biosolids that are currently generated in the country are expected to be EQ or PC biosolids, containing low levels of pollutants. About half of the biosolids produced in the country are being beneficially used to improve soils.

In the United States, biosolids are either recycled or applied as fertilizer to improve and maintain productive soils and stimulate plant growth. By treating sewage sludge, the biosolids are used as valuable fertilizer instead of taking up space in a landfill or other disposal facility. Approximately half of all biosolids are recycled to land.

The demand for food is growing rapidly with the rising population in the United States. In 2021, the United States households' spending on food accounted for 12.4 percent of their total income, an increase from 11.9 percent in 2020.

The rising agriculture sector will further boost the consumption of biosolids. Agriculture, forestry, fishing, and hunting contributed USD 200.10 billion to the United States' gross domestic product (GDP) in the third quarter of 2022.

So, because of the above factors, it is likely that North America will have the largest market share during the forecast period.

Biosolids Market Competitor Analysis

The global biosolids market is partially consolidated as the major share of the market is attributed to a few key companies. Some

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of the key players in the market include Cambi Group AS, Cleanaway, Englobe, REMONDIS SE & Co. KG, and FCC Group, among others (not in any particular order).

Additional Benefits:

The market estimate (ME) sheet in Excel format

3 months of analyst support

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