

Deciphering the Evolving Dynamics of the Vertical Farming Market, 2023-2032

It provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the vertical farming market analysis from 2022 to 2032

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In-depth analysis of the vertical farming market segmentation assists to determine the prevailing market opportunities.

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comprehensive study on the [Vertical Farming Market Analysis, 2022-2032](#) has been recently published by Allied Market Research, which reveals that the industry is expected to garner a revenue of \$42.5 billion by 2032. The sector generated \$4.5 billion in 2022 and is estimated to exhibit a CAGR of 25.5% from 2023 to 2032. The study segments the market based on component, structure, and growth mechanism. Moreover, it evaluates the segment growth across various regions such as North America, Europe, Asia-Pacific, and LAMEA. This study helps companies to analyze industry

dynamics and make informed long-term investment decisions.

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In addition to segmental analysis, the AMR report on the vertical farming market examines key growth drivers, restraints, and investment opportunities in the sector. Exponential growth in urban population has augmented the need for food production. This, in turn, has encouraged farmers to adopt vertical farming practices, as they reduce transportation costs and ensures fresh produce availability. According to the World Economic Forum, more than 55% of the global population (4.3 billion individuals) is currently living in urban settings, and the number is estimated to reach 80% by 2050. To cater to the needs of the growing population, year-round crop production is essential. Vertical farming allows for continuous cultivation irrespective of the weather conditions, leading to higher yields and consistent supply.

Based on structure, the building-based vertical farms segment held the highest market share in 2022, accounting for more than half of the global Vertical farming market revenue and is estimated to maintain its leadership status throughout the forecast period, owing to the ongoing

global urbanization process. However, the Container-based Vertical Farms is projected to manifest the highest CAGR of 25.94% from 2023 to 2032.

Based on growth mechanism, the hydroponics segment held the highest market share in 2022, accounting for more than two-fifths of the global vertical farming market revenue and is estimated to maintain its leadership status throughout the forecast period, owing to growing inclination is observed towards incorporating hydroponic systems with sustainable practices like the adoption of renewable energy, water recycling, and organic nutrient management solutions, underscoring the environmental significance of hydroponics.

However, due to limited natural sunlight, [vertical farms depend heavily on artificial lighting](#) and climate control systems, leading to increased energy usage and operational costs, thereby hampering the market growth. On the contrary, innovations in LED lighting and automation have enhanced the efficiency and scalability of vertical farming operations, making them more economically viable. Advanced LED lighting systems serve as an alternative to natural sunlight to ensure plants receive the necessary light spectrum for photosynthesis, as vertical farms are often indoors or in controlled environments. Furthermore, with increase in focus on sustainability and environmental concerns, farmers are expected to considerably adopt vertical farming practices, as they reduce the need for expansive farmland, thus preserving natural ecosystems and decreasing deforestation rates.

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In January 2025, Oslo-based AgriTech start-up, Avisomo secured €5 million to advance its automated vertical farming technology for sustainable local food production. The funding includes a €1.6 million Innovation Norway grant and €3.4 million from existing investors.

In July 2023, AeroFarms expanded the retail availability of its microgreens to Walmart in the Mid-Atlantic and Stop & Shop in the Northeast.

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The AMR report offers a comprehensive analysis of the market's competitive landscape to help [new entrants develop expansion](#) strategies. It includes detailed profiles of leading companies, such as:

ams-OSRAM AG

Agrilution Systems GmbH

4D Bios Inc.

Am Hydro

GreenTech

AeroFarms

Everlight Electronics Co., Ltd.

Urban Crops Solution

Hort Americas

Signify Holding

In summary, the AMR study on the vertical farming industry offers a comprehensive analysis of the key factors driving sector growth, helping companies gain a thorough market understanding. Furthermore, its regional and segmental analysis enables businesses to seize industry opportunities effectively.

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We are in professional corporate relations with various companies, and this helps us in digging

out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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