

Smart Greenhouse Market based on Type (Hydroponic and Non-Hydroponic), Component (HVAC Systems, Irrigation System, Valves & Pumps, LED Grow Lights, Sensor & Control System and Others), End-User (Commercial Growers, Research & Educational Institutes, Retail Gardens, and Others) and Geography–Global Forecast to 2026

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# **Abstracts**

The Smart Greenhouse Market is predicted to grow at the rate of 9.6% CAGR by 2026. The smart greenhouse is the new revolution in the agriculture system. A self-managing platform is prepared to monitor and control the growing conditions of the plants and automate their cultivation procedure. It supports farmers and agriculture firms to control the proliferation of infection among the crops and provides various agrichemical treatments to stimulate soil fertility. The rising need for smart farming resulting from the enormously increasing population worldwide is one of the key factors expected to enhance the evolution of the smart greenhouse market in the forecasted years. Moreover, the increasing trend of rooftop farming and industrial improvements are likely to nourish the development of the entire market in the future. However, the high investments costs incurred in adopting expensive systems used in the smart greenhouses are likely to hold back the market's growth.

Smart Greenhouse Market by Type

Hydroponic

Non-Hydroponic



Smart Greenhouse Market by Component
HVAC Systems
LED Grow Lights
Irrigation System
Valves & Pumps
Sensor & Control System
Others
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Smart Greenhouse Market by End-Use
Commercial Growers
Research & Educational Institutes
Retail Gardens
Others
Smart Greenhouse Market by Geography
North America
Europe
Asia Pacific
Rest of the World

The types of smart greenhouse include hydroponic and non-hydroponic. The hydroponic segment has acquired the highest share in the smart greenhouse market.



The hydroponic-based smart greenhouse is a method of production where nutrient solution is used rather than soil. This technique uses sand, pebbles, or sawdust as a substrate since; they have a high water-holding capability. This type of smart greenhouse allows soilless farming to minimize the consumption of resources, enabling many stakeholders to deploy hydroponic-based smart greenhouse agriculture.

Further, the smart greenhouse market is segmented by component; the LED grow lights segment holds a significant share in the market among other segments. This is due to the benefits provided by the LED grow lights, such as emission of cool and directional light, the adjustable light spectrum, and compact design structure. In addition to that, the LED grow lights have a long life and consume low energy.

The end-users of the smart greenhouse are commercial growers, research and educational institutes, retail gardens, and others. Among them, the research and education institutions are the major end-users in the market. This is because the research and educational institutions perform research activities on the various flowers, vegetables, and fruits that boost the growth of the smart greenhouse market in this segment.

In the geographical market of a smart greenhouse, the European region has occupied a significant share. The major share is ascribed to the rise in the population, increasing demand for imports, and increasing adoption of smart greenhouse methods to offer organic food.

Key factor driving the global smart greenhouse market growth is the increase in the population across the world. Hence, the requirement for food production has increased eventually. The burden has increased on the farmers to increase crop production by making land suitable for cultivation or deploying new emerging cultivation techniques such as smart greenhouse farming and vertical farming. Thus, the increasing population is forcing the farmers to adopt new methods of farming.

This report provides the profiles of the companies such as Rough Brothers, Inc., Argus Control Systems Limited, GreenTech Agro LLC, Nexus Corporation, Certhon, Netafim, Sensaphone, Cultivar Ltd., Heliospectra AB, and LumiGrow.

Therefore, smart greenhouse cultivation has a major role in increasing demand for improved quality and more quantity of food. Moreover, smart greenhouse agriculture is considered the most effective farming method to reduce the consumption of natural resources.



In-sights of competitive developments include agreements, joint ventures, mergers and acquisitions, collaborations, product developments, research, and developments in the Smart Greenhouse Market.

The report's main aim is to offer an in-depth analysis of the Smart Greenhouse Market in terms of type, component, end-user, and geography.

Comprehensive analysis of the industry in terms of market segments, market dynamics, market share, competition, and companies involved in the value chain.

Analysis of the Smart Greenhouse Market according to the individual growth trends, estimations, and contributions to the whole market.



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