

Commercial Greenhouse Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> **Industry:** Indoor Farming & Farm Mechanization (Agriculture & Agribusiness)
> **Source:** <https://www.mordorintelligence.com/industry-reports/commercial-greenhouse-market>
> **Scraped Date:** 2026-09-17

Executive Market Summary

Market Metric	Details
Base Market Size	USD 1.3 Billion
Projected Forecast (2031)	USD 1.3 Billion
Growth Rate (CAGR)	11.10 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

! [Major players in Commercial Greenhouse industry](images/chart_2.png)

! [Commercial Greenhouse Market (2026 - 2031)](images/chart_3.png)

! [Commercial Greenhouse Market: Market Share by Equipment Type](images/chart_4.png)

! [Commercial Greenhouse Market: Market Share by End User](images/chart_5.png)

! [Commercial Greenhouse Market CAGR (%), Growth Rate by Region](images/chart_6.png)

! [Commercial Greenhouse Market Concentration](images/chart_7.png)

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Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market Overview	Study Period	2021 - 2031
Market Size (2026)		USD 51.40 Billion
Market Size (2031)		USD 86.90 Billion
Growth Rate (2026 - 2031)		11.10 %
Fastest Growing Market		Asia Pacific
Largest Market		North America
Market Concentration		Medium

Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Commercial Greenhouse Market Analysis by Mordor IntelligenceThe commercial greenhouse market size is projected to be USD 46.3 billion in 2025, USD 51.4 billion in 2026, and reach USD 86.9 billion by 2031, growing at a CAGR of 11.1% from 2026 to 2031. The commercial greenhouse market is expanding because retailers and food-service buyers now need stable year-round produce volumes that open-field farming cannot deliver with the same consistency. Falling costs for controlled-environment agriculture (CEA) equipment are improving payback periods and drawing more capital into medium-tech and high-tech projects. The commercial greenhouse market is also expanding geographically, as waste-heat integration with industrial sites can improve energy economics in areas that were once difficult for protected cultivation. Growth still faces pressure from energy-price volatility and weak interoperability across lighting, climate, and fertigation systems in multi-vendor installations. Even with those limits, policy support, stricter buyer standards, and more capable artificial intelligence (AI)-driven controls are keeping the commercial greenhouse market on a strong growth path through 2031.

Key Report Takeaways* By equipment type, light-emitting diode (LED) grow lighting held the largest 30.2% share of the commercial greenhouse market in 2025, while climate control and automation software are the fastest-growing category at 13.2% through 2031.

* By crop type, Fruits and Vegetables accounted for 55.5% of the commercial greenhouse market size in 2025, while cannabis and specialty crops are the fastest-growing segment at 14.5% CAGR during 2026-2031.

* By greenhouse type, plastic-film greenhouses captured the largest 61.2% commercial greenhouse market share in 2025, while glass greenhouses are the fastest segment at 12.2% CAGR during 2026-2031.

* By cultivation technology, hydroponic systems held 54.4% of the commercial greenhouse market share in 2025, while hybrid and vertical integration are the fastest-growing segments at 11.2% CAGR during 2026-2031.

* By end user, commercial growers held the largest 55.3% share of the commercial greenhouse market in 2025, while research and educational institutes are the fastest-growing segment at a 13.5% CAGR during 2026-2031.

* By geography, North America held the largest 37.6% of the commercial greenhouse market share in 2025, while Asia-Pacific is the fastest region at 12.4% CAGR during 2026-2031.

Key Market Trends

Market Trends and InsightsDrivers Impact Analysis of Commercial Greenhouse Market*Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |

Demand for year-round fresh produce | +1.6% | Global, with the strongest pull in North America, Western Europe, and urban East Asia, where retailers require dependable contracted supply | Short term (≤ 2 years) |

Climate-resilient production amid weather volatility | +1.9% | Strongest in South Asia, Southern Europe, the Middle East, and other regions where open-field output has become less reliable | Medium term (2-4 years) |

LED lighting, sensors, and climate-control automation | +1.8% | Most visible in the Netherlands, Canada, the United States, Japan, South Korea, China, and India | Medium term (2-4 years) |

Government support for protected cultivation and food security | +1.7% | Highest in Asia-Pacific and the Middle East, with meaningful support in North America and Europe | Long term (≥ 4 years) |

Retailer shelf-life and pesticide-residue requirements | +1.3% | Strong in North

America, Western Europe, Japan, and selected Gulf retail chains | Short term (≤ 2 years) | Waste-heat, carbon dioxide reuse, and flexible-energy monetization | +0.9% | Most relevant in the Netherlands, Denmark, Canada, Germany, Japan, and the United Arab Emirates | Long term (≥ 4 years) | Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The commercial greenhouse market is moderately concentrated, with the top five market players accounting for a significant share in 2025. Prospiant LLC, Netafim Ltd., Richel Group, Certhon Build B.V., and KUBO Greenhouse Projects B.V. were the leading companies. However, none of these companies had full control over the entire value chain, encompassing structures and controls. This creates competition across different layers of the value chain, with turnkey builders competing on delivery and scale while software and controls firms compete on crop outcomes and integration. The commercial greenhouse market is characterized by a diverse supplier landscape, with no single supplier model or technology stack dominating. Factors such as regional presence, project suitability, and operational data capabilities are as significant as company size in determining success within this market.

In 2025, Signify N.V. enhanced its position in software and intelligent lighting management by updating its Philips GrowWise platform. These updates included spectrum control and greenhouse optimization features. Similarly, Priva Holding B.V. bolstered its autonomous growing capabilities in January 2025 through a multi-year agreement with Blue Radix, integrating artificial intelligence-based crop control with Priva process computers. Ridder advanced interoperability by enabling integration between Philips GrowWise lighting systems and Ridder Hortimax Pro using the Horti Lighting Protocol. These initiatives highlight a trend among vendors to evolve into integrated greenhouse operating platforms rather than remaining solely hardware providers. The market increasingly values suppliers that can reduce labor demands, enhance energy efficiency, and stabilize yields across crop cycles.

Certhon Build B.V. prioritized energy-efficient greenhouse infrastructure in 2025, incorporating advanced climate-control and energy-management systems into its projects. Priva Holding B.V. further expanded its digital ecosystem by integrating plant intelligence and greenhouse management platforms, enabling more data-driven cultivation decisions. The commercial greenhouse market continues to offer opportunities for arid-climate turnkey systems, interoperable software platforms, and operating models focused on water-use and energy-efficiency performance. These developments create space for specialist vendors, even as larger companies expand their ecosystems through partnerships and integration strategies.

Commercial Greenhouse Industry Leaders* Prospiant LLC

* Netafim Ltd.

* Richel Group SAS

* Certhon Build B.V.

* KUBO Greenhouse Projects B.V.

* *Disclaimer: Major Players sorted in no particular order

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Scope Methodology P Space

Our study counts revenue generated by purpose-built glass or plastic structures where temperature, humidity, light, and fertigation are actively regulated to grow fruits, vegetables, flowers, ornamentals, herbs, and other specialty crops for sale to retailers, food-service buyers, or processors.

Scope exclusion: Backyard hobby houses and purely academic installations below 200 m² are not included.

Segmentation Container

- * By Equipment Type* Heating Systems
- * Cooling and Ventilation Systems
- * LED Grow Lighting
- * Irrigation and Fertigation Systems
- * Climate Control and Automation Software
- * Screening and Shading Systems
- * Structural Components* Glazing Systems
- * Frames and Trusses

- * By Crop Type* Fruits and Vegetables* Tomatoes
- * Cucumbers
- * Lettuce and Leafy Greens
- * Peppers
- * Strawberries and Berries

- * Flowers and Ornamentals* Cut Flowers
- * Potted Plants and Bedding Plants

- * Herbs and Microgreens
- * Cannabis and Specialty Crops* Medical Cannabis
- * Seedlings and Propagation Crops

- * By Greenhouse Type* Glass Greenhouses
- * Plastic-film Greenhouses
- * Rigid Polycarbonate Greenhouses
- * Hybrid and Semi-closed Greenhouses

- * By Cultivation Technology* Hydroponic* Nutrient Film Technique
- * Deep Water Culture
- * Drip Hydroponics

- * Non-hydroponic Soil and Substrate* Soil-based
- * Coco Coir and Rockwool Substrate

- * Hybrid and Vertical Integration

- * By End User* Commercial Growers
- * Research and Educational Institutes
- * Retail Garden Centers and Nurseries

- * By Geography* North America* United States
- * Canada
- * Mexico
- * Rest of North America

- * South America* Brazil
- * Argentina
- * Chile
- * Rest of South America

- * Europe* Netherlands
- * Spain

- * Germany
- * United Kingdom
- * France
- * Russia
- * Rest of Europe

- * Asia-Pacific* China
- * Japan
- * India
- * South Korea
- * Australia
- * Rest of Asia-Pacific

- * Middle East* Saudi Arabia
- * United Arab Emirates
- * Turkey
- * Israel
- * Rest of Middle East

- * Africa* South Africa
- * Egypt
- * Kenya
- * Rest of Africa

Frequently Asked Questions

What is the current outlook for commercial greenhouse operations worldwide?

The commercial greenhouse market is projected to grow from USD 51.4 billion in 2026 to USD 86.9 billion by 2031, at a 11.1% CAGR during 2026-2031.

Which region currently leads global demand?

North America is projected to hold the largest regional share at 37.6% in 2025, driven by established retail channels and consistent year-round demand for produce.

Which crop group brings the most revenue in greenhouse production?

Fruits and Vegetables held the largest crop-type share at 55.5% in 2025, led by tomatoes, cucumbers, lettuce, and peppers.

Which cultivation approach is most widely used?

Hydroponic Systems led with a 54.4% share in 2025 because they support water reuse, nutrient precision, and controlled root-zone management.

What is the biggest operating risk for greenhouse investors?

Energy-cost volatility remains a major risk because heating, cooling, and lighting account for a heavy share of operating expenses, especially in high-tech glass facilities.