



Self-sustaining smart farms market is expected to reach USD 2,360.47 million by 2034 at a 10.3% CAGR."

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apparatus so that the data can be garnered seamlessly and continuously. Automated systems regulate irrigation, fertilization, and pest control without much manual endeavor, pushing the self-sustaining smart farms market growth.

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Several regions encounter a dearth of proficient labor in agriculture rendering conventional farming practices arduous to sustain. For instance, as per the World Bank, in India alone, agricultural exercise reduced to 44% in 2022 of the aggregate population from 58% in 2002, portraying the dearth of labor in the agricultural sector. Farmers are growingly resorting to technology to bridge the gap, allowing the self-sustaining smart farms market demand to grow at a fast pace.

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Governments are growingly conceding the significance of sustainable agriculture and are providing reinforcement for technologies to encourage it. Incentives, subsidies, and grants are obtainable to farmers who acquire smart farming solutions. For instance, the Government of India instigated the National Mission for Sustainable Agriculture (NMSA), in which USD 131.56 million in funds were offered as of 2024.

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Key manufacturers have carried numerous developments that have generated sufficient possibilities for the market's growth globally. These firms pursue deliberate enterprises such as mergers and acquisitions, partnerships, and collaborations to improve the commodity offerings and bifurcate into contemporary markets.

The key players in the self-sustaining smart farms market are as follows:

- AGCO Corporation
- Agrifac Machinery B.V.
- AgriVijay
- Autonomous Solutions, Inc.
- Eden Green Technology
- Freight Farms, Inc.
- John Deere
- KUBOTA Corporation
- RootWave (Ubiquitek Ltd)

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The self-sustaining smart farms market is segmented on the basis of component, farm type, end user, and region.

By component outlook, the hardware segment is anticipated to witness faster growth. This is due to the growing demand for progressive farming instruments and devices such as sensors, automated irrigation systems, drones, and robotics. These hardware parts are important for observing soil conditions, handling crops, and mechanizing several farming chores, all of which enhance farm productivity and sustainability.

By farm type outlook, the greenhouse-based smart farms segment ruled the market due to progressive technology to regulate ecological elements such as temperature, humidity, and light, sanctioning maximal conditions for crop evolution. They provide escalated productivity in water usage, pest control, and energy intake, rendering them excessively sustainable.

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The self-sustaining smart farms market in North America is mainly driven by progressive agricultural technologies and concentration on renewability, which is pushing the acquisition of smart farming solutions. Nations such as the US and Canada are funding massively in automation, precision farming, and green energy solutions for agriculture.

Asia Pacific is witnessing considerable growth owing to nations such as China, India, and Japan growingly acquiring smart farming technologies to confront provocations such as food security, water dearth, and labor scarcity. The region's extensive agricultural base and surging demand for productive, green farming practices are powering the acquisition of automated systems, sensors, and renewable energy solutions.

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Which segment by farm type dominated the global [□□□□-□□□□□□□□□□□□ □□□□□ □□□□□](https://www.polarismarketresearch.com/industry-analysis/self-sustaining-smart-farms-market/inquire-before-buying?utm_source=EIN&utm_medium=EIN&utm_campaign=EIN&utm_id=01) market share in 2024?

The greenhouse-based smart farms segment dominated the market share in 2024.

Which region held the largest self-sustaining smart farms market share in 2024?

North America held the largest share of the global market in 2024.

What is the regional scope of the market?

The market includes regions such as North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa.

What are the factors driving the market?

The factors driving the market are labor shortage in agriculture and government support and incentives.

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