# Vietnam Greenhouse Market By Type (Plastic Greenhouse, Glass Greenhouse), By Crop Type (Fruits & Vegetables, Flowers & Ornamentals), By End User (Commercial Growers, Retail Gardens, Others), By Region, By Competition, Forecast & Opportunities,  2020-2030F

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**Report description:**

Vietnam Greenhouse Market was valued at USD 36.45 Million in 2024 and is expected to reach USD 38.13 Million by 2030 with a CAGR of 3.71% during the forecast period. One of the primary drivers of the greenhouse market in Vietnam is the rising demand for high-quality and year-round produce. Consumers, with their increasing awareness of the benefits of fresh, locally grown fruits and vegetables, seek options that are available throughout the year, irrespective of the season. Greenhouses, with their controlled environments, play a crucial role in meeting this demand by enabling farmers to cultivate crops consistently all year round.

The growth of Vietnam's greenhouse market is also fueled by advancements in greenhouse technologies. Companies like Teshuva Agricultural Projects (TAP, Israel) are at the forefront of constructing advanced greenhouses in Vietnam. These cutting-edge greenhouses are expected to revolutionize crop production by boosting yields and enhancing the quality of locally consumed vegetables. These technologically advanced greenhouses employ innovative systems to control and regulate temperature, humidity, and light levels, ensuring an optimal growing environment for a wide variety of crops. With these advancements, farmers in Vietnam can now cultivate crops that were previously challenging to grow due to the country's unique climate conditions.

The growth of the Vietnamese greenhouse market is further bolstered by a significant shift towards more sustainable farming practices. Greenhouse farming allows for the efficient use of water and land resources, contributing to sustainability and food security in the country. This sustainable approach aligns with global efforts to reduce the environmental impact of agriculture and ensure a more sustainable future. In August 2023, during the launch of the 2023 Summer Youth Volunteer Campaign, the forestry sector reinforced its dedication to enhancing forest quality and ecosystems through strategic initiatives. These efforts include the

protection of 10.3 million hectares of natural forests and the expansion of large-timber forests, which currently cover over 300,000 hectares, with a target of reaching 1 million hectares by 2030. These initiatives support biodiversity conservation, improve soil fertility, and ensure a sustainable supply of raw materials for forestry product processing and trade.

The Vietnam greenhouse market is on an upward trajectory, driven by consumer demand for high-quality produce, advancements in greenhouse technologies, and a strong commitment to sustainable farming practices. However, to ensure the long-term sustainability of the industry, it is essential to address environmental concerns related to the use of plastic greenhouses and explore more eco-friendly alternatives. By doing so, the Vietnam greenhouse market can continue its growth while minimizing its ecological footprint.

Key Market Drivers

Rising Demand for Year-Round Crop Production

The modern consumer's desire for fresh, locally grown fruits and vegetables all year round is a primary factor driving the growth of the greenhouse market in Vietnam. Traditionally, the availability of certain produce has been dependent on seasons, limiting the consistent supply and variety. However, greenhouses provide a transformative solution to this challenge. Greenhouses offer farmers a controlled environment that allows them to grow crops throughout the year, irrespective of external weather conditions. This capacity to produce crops in off-season periods not only helps meet the consistent consumer demand for fresh produce but also contributes to the overall food security in Vietnam. With a growing population and the impacts of climate change threatening traditional farming methods, the country faces the challenge of ensuring a steady food supply. In August 2024, AEON Vietnam reinforced its commitment to green consumption by driving green transformation initiatives and expediting the integration of digital technologies to advance sustainable retail practices.

By enabling year-round crop production, greenhouses help stabilize food supply, reducing dependency on imports and making Vietnam more self-sufficient in terms of food production. This aspect further propels the demand for greenhouses in the country.

The economic benefits of greenhouse farming extend beyond food security. For farmers, the ability to grow and sell crops throughout the year translates into a steady income stream, reducing the financial uncertainties often associated with seasonal farming. Crops grown in greenhouses generally fetch higher prices due to their superior quality and off-season availability. These economic incentives are encouraging more farmers to adopt greenhouse farming practices, thus fueling the growth of the market.

In 2022, the Vietnamese company AgriGreen Vietnam and the Israeli company Netafim signed a

Key Market Challenges

Variability in Climatic Patterns

Climate variability and extreme weather events pose a severe threat to agriculture, including greenhouse farming. Unpredictable weather patterns can cause significant damage to greenhouse structures, compromising the controlled environment within and adversely affecting crop growth.

For instance, during severe storms, the protective coverings of greenhouses may get damaged, leaving the crops vulnerable to the elements. The harsh winds and heavy rains can infiltrate the greenhouse, subjecting the plants to potential harm. Similarly, excessive heat can lead to overheating inside the greenhouse, creating stress for the plants and potentially reducing both the yield and quality of the crops.

In order to maintain optimal conditions within the greenhouse amidst fluctuating external temperatures, additional energy consumption becomes necessary. Heating systems may be required to keep the greenhouses warm during unusually cold spells, while cooling systems might be necessary during periods of intense heat. This increased reliance on energy not only escalates operational costs but also contributes to greenhouse gas emissions, further exacerbating the issue of climate change. As a result, greenhouse farmers face the challenge of balancing the need for crop protection and maintaining a sustainable environmental footprint. Developing innovative solutions that improve the resilience of greenhouse structures, maximize energy efficiency, and mitigate climate impacts becomes crucial for the future of agriculture in the face of climate variability.

Key Market Trends

Growing Use of Hydroponics and Soilless Cultivation

Hydroponics, a method of growing crops without soil, has experienced a significant surge in adoption in Vietnam's greenhouse market. This growth can be attributed to several factors that have driven its popularity. One key driver is the increasing demand for higher crop yields to meet the needs of a growing population and address concerns about food security. Hydroponics presents

an attractive solution in this regard.
By allowing the cultivation of crops in a controlled environment, hydroponics offers the potential for increased productivity and efficiency. This technique eliminates the reliance on soil, which can be advantageous in regions where soil quality is poor or land availability is limited. With hydroponics, farmers can have precise control over growing conditions, optimizing plant growth and resource utilization. The incorporation of advanced technologies such as HVAC, LED grow lights, control systems, and irrigation systems in modern hydroponic setups has also played a crucial role in driving this growing trend.
Moreover, alongside hydroponics, soilless cultivation is emerging as another notable trend in Vietnam's greenhouse market. High-tech soilless-culture farms are being established, providing an additional avenue for crop production. Similar to hydroponics, soilless cultivation enables the growth of crops in a controlled environment without the need for traditional soil. This technique can be particularly advantageous for crops that require specific growing conditions, further expanding the range of crops that can be cultivated in Vietnam's greenhouses.
The adoption of hydroponics and soilless cultivation techniques in Vietnam's greenhouse market showcases the continuous efforts to innovate and enhance agricultural practices. These sustainable farming methods not only address the increasing demand for food but also offer potential solutions to challenges related to soil quality, land availability, and resource efficiency. As the agricultural landscape evolves, hydroponics and soilless cultivation are poised to play a crucial role in shaping the future of crop production in Vietnam.
Key Market Players
□□Netafim Limited
□□Watanabe Pipe Vietnam Co., Ltd.
□□Nova Agri Group
□□Fresh Studio Innovations Asia
□□Vingroup Joint Stock Company (Vingroup JSC
Report Scope:
In this report, the Vietnam Greenhouse Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:
□□Vietnam Greenhouse Market, By Type:
- o Plastic Greenhouse
- o Glass Greenhouse

□□Vietnam Greenhouse Market, By Crop Type:
- o Fruits & Vegetables
- o Flowers & Ornamentals

□□Vietnam Greenhouse Market, By End User:
- o Commercial Growers
- o Retail Gardens
- o Others

□□Vietnam Greenhouse Market, By Region:
- o Northern
- o Central
- o Southern

Competitive Landscape
Company Profiles: Detailed analysis of the major companies present in the Vietnam Greenhouse Market.
Available Customizations:
Vietnam Greenhouse Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:
Company Information
□□Detailed analysis and profiling of additional market players (up to five).

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