

# **Turkey Plant Factory Market, By Facility Type (Greenhouses, Indoor Farms, Others), By Light (Sunlight v/s Artificial Light), By Growing System (Non-Soil-Based, Soil-Based, Hybrid), By Type (Fruits & Vegetables, Ornamental Plants & Flowers, Others), By Fruits & Vegetables (Lettuce, Strawberries, Tomatoes, Leafy Vegetables (excluding Lettuce), Others), By Region, Competition Forecast & Opportunities, 2027**

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## **Abstracts**

The Turkey Plant Factory market is anticipated to observe an impressive growth during the forecast period, 2023-2027. The major factors include surge in demand for food, technological advancements, higher yielding crops and growing demand for indoor farming. Plant factory refers to a closed agriculture system which enables production of fruits, vegetables, and crops round the year. This closed system uses advance technologies and resources like temperature, moisture, artificial lights, and carbon dioxide. A plant factory is likely to achieve maximum yield, financial impact, and harvesting density by artificially controlling the plant growth environment. The other factor which are bolstering the market growth are more technical and economic investments, climate change, increase in population and rapid urbanization. Various projects, and programs are taken by government, to support food production models for sustainability. For Instance, Istanbul Fertilizer Industry Inc. (?GSA?) and Istanbul Provincial Directorate of Agriculture and Forestry signed a cooperation protocol within the scope of the 'Indoor Vertical Farming Application and R&D Center in ?stanbul' project.

Rise in Demand for food

The rise in demand for food attributes to the increase in population considerably, influence the growth of the Turkey plant factory market. Growing popularity of organic food is also an attributing factor for the market growth as they are highly nutritious, free of any synthesizers, safe and environmentally friendly. Furthermore, due to rising health awareness and consciousness, people are consuming more organic products, which enables the growth of the market. In Turkey, the consumption of organic produce, now, is 500 million USD and still growing.

### Demand For Indoor Farming

Turkey's one third of total land area is devoted to agriculture. Owing to the rapid urbanization, the demand for food is surging, which contributes to the increase in production of food. Plant factories have capacity to produce vegetables 24 hours a day, year-round which is impelling market expansion. The plant factories are growing as they have large yield than traditional farming due to the rise in harvesting intervals, and the ability to remove the usage of pesticides and synthetic maturation chemicals. Plant factories are used to expand space, save energy and water and to address food security concerns. Also, they remain unaffected by climatic or seasonal variations, these infrastructures produce safe and high-quality crops. Thus, the plant factories produce higher yield, which contributes to the expansion of the market in upcoming years.

### Technological Advancements

Rapid advancements in agricultural science are driving the growth of the market. Various innovations and technologies such as LED-grown light, Machine learning, AI, dynamic resource allocation, and edge computing are optimizing the plant growth and increasing the productivity. These advanced solutions are continually upgraded and modified for the better efficiency and high yield productions. Therefore, these advancements are bolstering the growth of the market.

### Market Segmentation

The Turkey plant factory market is segmented into facility type, light, growing system type, fruits & vegetables, and company. Based on facility type, the market is divided into greenhouses, indoor farms, and other. Based on light, the market is divided into sunlight and artificial light. Based on growing system, the market is divided into non-soil-based, soil-based, and hybrid. Based on type, the market is divided into fruits & vegetables, ornamental plants & flowers, and other. Based on fruits & vegetables, the market is

divided into lettuce, strawberries, tomatoes, leafy vegetables (excluding lettuce), and others. In terms of region, the market is segmented into Marmara, Central Anatolia, Mediterranean, Aegean, Southeastern Anatolia, Blacksea, and Eastern Anatolia.

## Market Players

Cantek Group (FARMINOVA), Plant Factory, and CY Group are some of the leading companies operating in the market.

## Report Scope:

In this report, Turkey plant factory market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

### Turkey Plant Factory Market, By Facility Type:

Greenhouses

Indoor Farms

Other

### Turkey Plant Factory Market, By Light:

Sunlight

Artificial Light

### Turkey Plant Factory Market, By Growing System:

Non-Soil-Based

Soil-Based

Hybrid

### Turkey Plant Factory Market, By Type:

Fruits & Vegetables

Lettuce

Strawberries

Tomatoes

Leafy Vegetables (excluding Lettuce)

Others

Ornamental Plants & Flowers

Others

Turkey Plant Factory Market, By Region:

Marmara

Central Anatolia

Mediterranean

Aegean

Southeastern Anatolia

Blacksea

Eastern Anatolia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Turkey plant factory market

Available Customizations:

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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