

South Korea Hydroponics Market Size, Share, Trends and Forecast by Type, Crop Type, Equipment, and Region, 2026-2034

<https://marketpublishers.com/r/S93A2F612B36EN.html>

Date: July 2026

Pages: 117

Price: US\$ 2,999.00 (Single User License)

ID: S93A2F612B36EN

Abstracts

The South Korea hydroponics market size reached USD 306.8 Million in 2025. The market is projected to reach USD 676.7 Million by 2034, exhibiting a growth rate (CAGR) of 8.91% during 2026-2034. The market is propelled by growing consumer demand for pesticide-free, fresh produce and the increasing adoption of sustainable agricultural practices. Besides that, government initiatives promoting smart farming technologies and food security are accelerating the adoption of hydroponic systems across urban and peri-urban regions. Additionally, continual technological advancements and strong research and development (R&D) infrastructure support the development of innovative, high-efficiency hydroponic solutions, thereby augmenting South Korea hydroponics market share.

SOUTH KOREA HYDROPONICS MARKET TRENDS:

Urbanization and the Expansion of Controlled-Environment Agriculture

South Korea's high population density in urban regions and low arable lands have propelled the push for controlled-environment agriculture (CEA), especially in the form of hydroponic systems. In 2024, around 81.5% of South Korea's population lived in urban centers, which is indicative of the high degree of South Korea's urbanization. As urbanization increases, conventional farming is no longer sustainable in most areas, so alternative means that enable food production in non-farm areas like rooftops, basements, and repurposed warehouses are widely adopted. Hydroponics is particularly well-suited to this trend as it supports high-output growing without the use of soil and under artificial light, usually in completely closed systems. In addition, the growth of smart cities and green building architecture has also encouraged the

incorporation of hydroponic units into residential, commercial, and institutional infrastructure. Moreover, startups are coming up with scalable, modular solutions for hyper-local food production, while public and private sectors are investing in community-based hydroponic farms to increase access to food. This movement represents not simply a functional response to spatial limitations but also a broader reinterpretation of how and where food is produced within the framework of contemporary urban life.

Government Initiatives Promoting Smart Farming Technologies

Government support for smart farming technologies is one of the key drivers propelling South Korea hydroponics market growth. Recognizing the potential of controlled-environment agriculture to solve food security, labor shortages, and urbanization-related challenges, the South Korean government has rolled out various initiatives to encourage high-tech farming. These include subsidies, research grants, pilot schemes, and technical training to speed up the deployment of automation, IoT-monitoring, and AI-managed nutrient control in hydroponic systems. For example, the Republic of Korea's Ministry of Agriculture, Food and Rural Affairs (MAFRA), the 2025 work plan encompasses the conversion of 20% of the nation's total greenhouse farmland—around 55,000 hectares—into smart farms, up from 16% in 2024. The initiative also seeks to promote more advanced smart farming practices by incorporating cutting-edge technologies like AI and robotics, while enhancing links with associated upstream and downstream industries. These technologies enable very precise control over conditions of growth, resulting in increased yields, minimized waste, and better input efficiency, like water and nutrients. Furthermore, public-supported infrastructure initiatives are facilitating the establishment of smart greenhouses and vertical farms in urban and peri-urban areas. There has also been greater collaboration with universities and technology startups to create an ecosystem of innovation that supports next-generation farm models. These policy initiatives make South Korean domestic food resilience stronger and place South Korea at the forefront of regional agricultural innovation.

SOUTH KOREA HYDROPONICS MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on type, crop type, and equipment.

Type Insights:

Aggregate Hydroponic System

Closed System

Open System

Liquid Hydroponic System

The report has provided a detailed breakup and analysis of the market based on the type. This includes aggregate hydroponic system (closed system and open system) and liquid hydroponic system.

Crop Type Insights:

Tomato

Lettuce and Leafy Vegetables

Pepper

Cucumber

Microgreens

Others

A detailed breakup and analysis of the market based on the crop type have also been provided in the report. This includes tomato, lettuce and leafy vegetables, pepper, cucumber, microgreens, and others.

Equipment Insights:

HVAC

LED Grow Light

Irrigation Systems

Material Handling

Control Systems

Others

The report has provided a detailed breakup and analysis of the market based on the equipment. This includes HVAC, LED grow light, irrigation systems, material handling, control systems, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea hydroponics market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea hydroponics market on the basis of type?

What is the breakup of the South Korea hydroponics market on the basis of crop type?

What is the breakup of the South Korea hydroponics market on the basis of equipment?

What is the breakup of the South Korea hydroponics market on the basis of region?

What are the various stages in the value chain of the South Korea hydroponics market?

What are the key driving factors and challenges in the South Korea hydroponics market?

What is the structure of the South Korea hydroponics market and who are the key players?

What is the degree of competition in the South Korea hydroponics market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 SOUTH KOREA HYDROPONICS MARKET - INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 SOUTH KOREA HYDROPONICS MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends ??(??2020-2025?)?
- 5.2 Market Forecast ??(?2026-2034??)?

6 SOUTH KOREA HYDROPONICS MARKET - BREAKUP BY TYPE

- 6.1 Aggregate Hydroponic System
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends ??(??2020-2025?)?
 - 6.1.3 Market Segmentation
 - 6.1.3.1 Closed System
 - 6.1.3.2 Open System
 - 6.1.4 Market Forecast ??(?2026-2034??)?

6.2 Liquid Hydroponic System

6.2.1 Overview

6.2.2 Historical and Current Market Trends ??(??2020-2025?)?

6.2.3 Market Forecast ??(?2026-2034??)?

7 SOUTH KOREA HYDROPONICS MARKET - BREAKUP BY CROP TYPE

7.1 Tomato

7.1.1 Overview

7.1.2 Historical and Current Market Trends ??(??2020-2025?)?

7.1.3 Market Forecast ??(?2026-2034??)?

7.2 Lettuce and Leafy Vegetables

7.2.1 Overview

7.2.2 Historical and Current Market Trends ??(??2020-2025?)?

7.2.3 Market Forecast ??(?2026-2034??)?

7.3 Pepper

7.3.1 Overview

7.3.2 Historical and Current Market Trends ??(??2020-2025?)?

7.3.3 Market Forecast ??(?2026-2034??)?

7.4 Cucumber

7.4.1 Overview

7.4.2 Historical and Current Market Trends ??(??2020-2025?)?

7.4.3 Market Forecast ??(?2026-2034??)?

7.5 Microgreens

7.5.1 Overview

7.5.2 Historical and Current Market Trends ??(??2020-2025?)?

7.5.3 Market Forecast ??(?2026-2034??)?

7.6 Others

7.6.1 Historical and Current Market Trends ??(??2020-2025?)?

7.6.2 Market Forecast ??(?2026-2034??)?

8 SOUTH KOREA HYDROPONICS MARKET - BREAKUP BY EQUIPMENT

8.1 HVAC

8.1.1 Overview

8.1.2 Historical and Current Market Trends ??(??2020-2025?)?

8.1.3 Market Forecast ??(?2026-2034??)?

8.2 LED Grow Light

8.2.1 Overview

8.2.2 Historical and Current Market Trends ??(??2020-2025?)?

8.2.3 Market Forecast ??(?2026-2034??)?

8.3 Irrigation Systems

8.3.1 Overview

8.3.2 Historical and Current Market Trends ??(??2020-2025?)?

8.3.3 Market Forecast ??(?2026-2034??)?

8.4 Material Handling

8.4.1 Overview

8.4.2 Historical and Current Market Trends ??(??2020-2025?)?

8.4.3 Market Forecast ??(?2026-2034??)?

8.5 Control Systems

8.5.1 Overview

8.5.2 Historical and Current Market Trends ??(??2020-2025?)?

8.5.3 Market Forecast ??(?2026-2034??)?

8.6 Others

8.6.1 Historical and Current Market Trends ??(??2020-2025?)?

8.6.2 Market Forecast ??(?2026-2034??)?

9 SOUTH KOREA HYDROPONICS MARKET – BREAKUP BY REGION

9.1 Seoul Capital Area

9.1.1 Overview

9.1.2 Historical and Current Market Trends ??(??2020-2025?)?

9.1.3 Market Breakup by Type

9.1.4 Market Breakup by Crop Type

9.1.5 Market Breakup by Equipment

9.1.6 Key Players

9.1.7 Market Forecast ??(?2026-2034??)?

9.2 Yeongnam (Southeastern Region)

9.2.1 Overview

9.2.2 Historical and Current Market Trends ??(??2020-2025?)?

9.2.3 Market Breakup by Type

9.2.4 Market Breakup by Crop Type

9.2.5 Market Breakup by Equipment

9.2.6 Key Players

9.2.7 Market Forecast ??(?2026-2034??)?

9.3 Honam (Southwestern Region)

9.3.1 Overview

9.3.2 Historical and Current Market Trends ??(??2020-2025?)?

- 9.3.3 Market Breakup by Type
- 9.3.4 Market Breakup by Crop Type
- 9.3.5 Market Breakup by Equipment
- 9.3.6 Key Players
- 9.3.7 Market Forecast ??(2026-2034??)?

9.4 Hoseo (Central Region)

- 9.4.1 Overview
- 9.4.2 Historical and Current Market Trends ??(2020-2025)?
- 9.4.3 Market Breakup by Type
- 9.4.4 Market Breakup by Crop Type
- 9.4.5 Market Breakup by Equipment
- 9.4.6 Key Players
- 9.4.7 Market Forecast ??(2026-2034??)?

9.5 Others

- 9.5.1 Historical and Current Market Trends ??(2020-2025)?
- 9.5.2 Market Forecast ??(2026-2034??)?

10 SOUTH KOREA HYDROPONICS MARKET – COMPETITIVE LANDSCAPE

- 10.1 Overview
- 10.2 Market Structure
- 10.3 Market Player Positioning
- 10.4 Top Winning Strategies
- 10.5 Competitive Dashboard
- 10.6 Company Evaluation Quadrant

11 PROFILES OF KEY PLAYERS

11.1 Company A

- 11.1.1 Business Overview
- 11.1.2 Products Offered
- 11.1.3 Business Strategies
- 11.1.4 SWOT Analysis
- 11.1.5 Major News and Events

11.2 Company B

- 11.2.1 Business Overview
- 11.2.2 Products Offered
- 11.2.3 Business Strategies
- 11.2.4 SWOT Analysis

- 11.2.5 Major News and Events
- 11.3 Company C
 - 11.3.1 Business Overview
 - 11.3.2 Products Offered
 - 11.3.3 Business Strategies
 - 11.3.4 SWOT Analysis
 - 11.3.5 Major News and Events
- 11.4 Company D
 - 11.4.1 Business Overview
 - 11.4.2 Products Offered
 - 11.4.3 Business Strategies
 - 11.4.4 SWOT Analysis
 - 11.4.5 Major News and Events
- 11.5 Company E
 - 11.5.1 Business Overview
 - 11.5.2 Products Offered
 - 11.5.3 Business Strategies
 - 11.5.4 SWOT Analysis
 - 11.5.5 Major News and Events

12 SOUTH KOREA HYDROPONICS MARKET - INDUSTRY ANALYSIS

- 12.1 Drivers, Restraints, and Opportunities
 - 12.1.1 Overview
 - 12.1.2 Drivers
 - 12.1.3 Restraints
 - 12.1.4 Opportunities
- 12.2 Porters Five Forces Analysis
 - 12.2.1 Overview
 - 12.2.2 Bargaining Power of Buyers
 - 12.2.3 Bargaining Power of Suppliers
 - 12.2.4 Degree of Competition
 - 12.2.5 Threat of New Entrants
 - 12.2.6 Threat of Substitutes
- 12.3 Value Chain Analysis

13 APPENDIX

I would like to order

Product name: South Korea Hydroponics Market Size, Share, Trends and Forecast by Type, Crop Type, Equipment, and Region, 2026-2034

Product link: <https://marketpublishers.com/r/S93A2F612B36EN.html>

Price: US\$ 2,999.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S93A2F612B36EN.html>