Vertical Farming Market by Growth Mechanism (Hydroponics, Aeroponics, and Aquaponics), Structure (Building Based and Shipping Container), Offering (Hardware, Software, and Service), Crop Type, and Geography - Global Forecast to 2022

Description: "Vertical farming market expected to grow at a CAGR of 24.8% between 2016 and 2022"

The growth of the vertical farming market could be attributed to the growing urbanization, rising demand for high quality food with no use of pesticides and herbicides, and independent farming technique with low impact of climatic conditions. However, the high initial investments, dearth of technical acumen, and limitations on the variety of crops grown are the restraints in the vertical farming market.

"Lighting devices and hydroponics components are expected to dominate the hardware segment of vertical farming market between 2016 and 2022"

The lighting devices and hydroponic components are expected to dominate the hardware segment of the vertical farming market. LED grow light and hydroponics growth mechanism dominates the vertical farming market because LED lights have many benefits over the traditional lighting system and hydroponics growth mechanism is easy to implement and their result in terms of the growth of plant is quite good.

"Vertical farming market in Asia-Pacific (APAC) is expected to have the largest share"

This report covers regions such as North America, Europe, Asia-Pacific (APAC), and Rest of the World (RoW). The APAC is expected to have the largest share of the vertical farming market between 2016 and 2022. The high growth of vertical farming in the APAC region is because of developing countries like China, Japan, and Singapore. Japan is the key country as far as vertical farming is concerned. Japan has many plant factories equipped with artificial lights in the operational form. Toshiba (Japan), which is the largest consumer electronics company converted their old factory into vertical facilities and is planning to grow vegetables such as lettuces.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews were conducted with key people.

Break-up of the profile of primary participants is given below:

- By Company Type: Tier 1 - 50%, Tier 2 - 33%, and Tier 3 - 17%
- By Designation: C Level - 39%, Director Level - 31%, and Others - 30%
- By Region: North America - 21%, Europe - 30%, APAC - 42%, RoW - 7%

The major players in this market include AeroFarms (U.S.), FarmedHere (U.S.), Koninklijke Philips N.V. (Netherlands), Illumitex (U.S.), and Sky Greens (Singapore).

Research Coverage:

This report covers the offering segment, which consists of hardware, software and services of the vertical farming market. In vertical farming different growth mechanisms are used, namely, aeroponics, hydroponics, and aquaponics. The vertical farming market also consists of structure that includes building-based and shipping container vertical farms. The entire vertical farming market is divided based on region into North America, Europe, Asia-Pacific (APAC) and Rest of the World (RoW).

Key Benefits of Buying the Report:

- This report includes the market statistics pertaining to offering, structure, growth mechanism, and geography along with their respective revenue.
- Porter's five forces framework has been provided along with the value chain analysis to provide an insight into the vertical farming market.
- The major drivers, restraints, challenges, and opportunities for the vertical farming market have been detailed in this report.
- Illustrative segmentation, analysis, and forecast for the vertical farming market based on offering, structure, growth mechanism, crop type, and geography has been conducted to give an overall view of the vertical farming market.
- A detailed competitive landscape has been provided that includes key players, in-depth analysis, and revenue of the key players.
- The available customizations for the report offer further country-wise segmentation of the vertical farming market in terms of value; further breakdown of the industry could be provided along with profiling of additional companies in the report.

Contents:

1 Introduction
   1.1 Objectives of the Study
   1.2 Market Definition
   1.3 Study Scope
      1.3.1 Market Segmentation
      1.3.2 Years Considered for the Study
   1.4 Currency
   1.5 Limitations
   1.6 Stakeholders

2 Research Methodology
   2.1 Research Data
      2.1.1 Secondary Data
         2.1.1.1 Key Data from Secondary Sources
      2.1.2 Primary Data
         2.1.2.1 Key Data from Primary Sources
         2.1.2.2 Key Industry Insights
         2.1.2.3 Breakdown of Primaries
      2.2 Market Size Estimation
         2.2.1 Bottom-Up Approach
         2.2.2 Top-Down Approach
         2.3 Market Breakdown And Data Triangulation

3 Executive Summary

4 Premium Insights
   4.1 Attractive Opportunities for Vertical Farming Market
   4.2 Vertical Farming Market, By Offering
   4.3 Vertical Farming Market, By Hardware
   4.4 Vertical Farming Market, By Growth Mechanism
   4.5 Vertical Farming Market, By Structure
   4.6 Vertical Farming Market, By Geography
   4.7 Vertical Farming Market, By Growth Mechanism And Geography
   4.8 Life Cycle Analysis, By Growth Mechanism

5 Market Overview
   5.1 Introduction
   5.2 Evolution of Vertical Farming
   5.3 Market Segmentation
      5.3.1 By Offering
      5.3.2 By Structure
      5.3.3 By Growth Mechanism
      5.3.4 By Crop Type
      5.3.5 By Geography
   5.4 Market Dynamics
   5.4.1 Market Drivers
      5.4.1.1 Rising Demand for High-Quality Food With No Use of Pesticides And Herbicides
      5.4.1.2 Independent Farming Technique With Very Less/No Impact of Climatic Conditions
      5.4.1.3 Vertical Farming Makes It Possible to Grow Vegetables And Fruits in a Limited Space
   5.4.2 Restraints
      5.4.2.1 High Initial Investments
5.4.2.2 Lack of Technical Know-How
5.4.2.3 Limitations On the Variety of Crops Grown
5.4.3 Opportunities
5.4.3.1 Opportunities of Vertical Farming in the Apac Region
5.4.3.2 Production of Biopharmaceutical Products
5.4.4 Challenges
5.4.4.1 Vertical Farms On a Large Scale

6 Industry Trends
6.1 Introduction
6.2 Value Chain Analysis
6.3 Porter's Five Forces Analysis
6.3.1 Bargaining Power of Suppliers
6.3.2 Bargaining Power of Buyers
6.3.3 Threat of New Entrants
6.3.4 Threat of Substitutes
6.3.5 Intensity of Competitive Rivalry

7 Vertical Farming Market, By Growth Mechanism
7.1 Introduction
7.2 Aeroponics
7.3 Hydroponics
7.4 Aquaponics

8 Vertical Farming Market, By Structure
8.1 Introduction
8.2 Building-Based Vertical Farms
8.3 Shipping Container Vertical Farms

9 Vertical Farming Market, By Crop Type
9.1 Introduction
9.2 Micro And Macro Economic Framework
9.2.1 Demand Analysis And Trends Involved
9.2.1.1 Increasing Per Capita Global Gdp Over the Years
9.2.1.2 Increasing Urbanization Coupled With Rising Disposable Income Among the Consumers in the Developing Countries
9.2.1.3 Growing Health Consciousness Among Consumers
9.2.1.3.1 Increasing Demand of Organic Food
9.2.1.3.2 Growing Consumer Demand for Local Food
9.2.2 Supply Analysis And Trends Involved
9.2.2.1 Flexibility of Farm Location
9.2.2.2 Seasonality
9.2.2.3 Improvement of Food Supply Chain
9.2.3 Growing Overall Demand of Fruits And Vegetables
9.2.4 Leafy Green Vegetables in Vertical Farming
9.2.5 Strawberries in Vertical Farming
9.2.6 Global Vertical Farming Market, By Geography
9.2.7 Global Vertical Farming Market, By Crop Type
9.2.7.1 North America
9.2.7.2 Europe
9.2.7.3 Asia-Pacific
9.2.7.4 Row
9.3 Market Trends
9.3.1 North America
9.3.1.1 AeroFarms Llc
9.3.1.2 Gotham Greens Farms Llc
9.3.1.3 Green Sense Farms Llc
9.3.2 Asia-Pacific
9.3.2.1 Sky Greens
9.3.2.2 Mirai Co., Ltd.
9.3.2.3 Scatil
9.3.3 Europe
9.3.3.1 Plantagon
9.3.3.2 Infarm Gmbh

10 Vertical Farming Market, By Offering
10.1 Introduction
10.2 Lighting
10.2.1 Grow Lights
10.2.2 Grow Light Reflectors
10.2.3 Grow Light Ballasts
10.3 Hydroponics Components
10.3.1 Pumps & Irrigation
10.3.2 Meters & Solutions
10.3.3 Water Filtration
10.3.4 Others
10.4 Climate Control
10.4.1 Ventilation Fans
10.4.2 Air Purification/Control
10.4.3 Others
10.5 Sensors
10.5.1 Temperature Sensors
10.5.2 Co2 Sensors
10.5.3 Nutrient Sensor
10.5.4 Ph Sensor
10.5.5 Crop Sensors
10.5.6 Others

11 Geographic Analysis
11.1 Introduction
11.2 North America
11.2.1 U.S.
11.2.2 Canada
11.2.3 Mexico
11.3 Europe
11.3.1 U.K.
11.3.2 France
11.3.3 Sweden
11.3.4 the Netherlands
11.3.5 Rest of Europe
11.4 Asia-Pacific
11.4.1 Japan
11.4.2 Singapore
11.4.3 China
11.4.4 Taiwan
11.4.5 Rest of Asia-Pacific
11.5 Rest of the World
11.5.1 Middle East
11.5.2 Africa
11.5.3 South America

12 Competitive Landscape
12.1 Introduction
12.2 Market Ranking for Vertical Farming Market, 2016
12.3 Competitive Scenario
12.4 Developments
12.4.1 Contracts And Partnerships
12.4.2 Expansions
12.4.3 New Product Developments

13 Company Profiles
13.1 Introduction
(Business Overview, Products & Services, Key Insights, Recent Developments, Swot Analysis, Ratio Analysis, Mnm View) -
13.2 Koninklijke Philips N.V.
13.3 Aerofarms
13.4 Sky Greens
13.5 Illumitex, Inc.
13.6 Everlight Electronics Co., Ltd.
13.7 Green Sense Farms, Llc
13.8 Agrilution
13.9 American Hydroponics
13.10 Urban Crops
13.11 Vertical Farm Systems
- Details On Business Overview, Products & Services, Key Insights, Recent Developments, Swot Analysis, MnM View Might Not Be Captured in Case of Unlisted Companies.

14 Appendix
14.1 Insights from Industry Experts
14.2 Discussion Guide
14.3 Knowledge Store: Subscription Portal
14.4 Introducing Rt: Real-Time Market Intelligence
14.5 Available Customization
14.6 Related Reports
14.7 Author Details

List of Tables:
Table 1 Market Segmentation: By Offering
Table 2 Market Segmentation: By Structure
Table 3 Market Segmentation: By Growth Mechanism
Table 4 Market Segmentation: By Crop Type
Table 5 Vertical Farming Market Size, By Growth Mechanism, 2013-2022 (USD Million)
Table 6 Aeroponics Growth Mechanism in the Vertical Farming Market, By Geography, 2013-2022 (USD Million)
Table 7 Hydroponics Growth Mechanism in the Vertical Farming Market, By Geography, 2013-2022 (USD Million)
Table 8 Aquaponics Growth Mechanism in the Vertical Farming Market, By Geography, 2013-2022 (USD Million)
Table 9 Vertical Farming Market, By Structure, 2013-2022 (USD Million)
Table 10 Building-Based Vertical Farms Market Size, By Geography, 2013-2022 (USD Million)
Table 11 Shipping Container Vertical Farms, Market Size, By Geography, 2013-2022 (USD Million)
Table 12 Global Vertical Farming Market, By Geography, 2014-2022 (USD Million)
Table 13 Global Vertical Farming Market Size, By Crop Type, 2013-2022 (USD Million)
Table 14 North America Vertical Farming Market, By Country, 2014-2022 (USD Million)
Table 15 Europe Vertical Farming Market, By Country, 2014-2022 (USD Million)
Table 16 Europe Vertical Farming Market, By Crop Type, 2014-2022 (USD Million)
Table 17 Europe Vertical Farming Market, By Crop Type, 2014-2022 (USD Million)
Table 18 Asia-Pacific Vertical Farming Market, By Country, 2014-2022 (USD Million)
Table 19 Asia-Pacific Vertical Farming Market, By Crop Type, 2014-2022 (USD Million)
Table 20 Row Vertical Farming Market, By Crop Type, 2014-2022 (USD Million)
Table 21 Row Vertical Farming Market, By Country, 2014-2022 (USD Million)
Table 22 Vertical Farming Market for Hardware, By Offering, 2013-2022 (USD Million)
Table 23 Vertical Farming Market Size, By Hardware Type, 2013-2022 (USD Million)
Table 24 Vertical Farming Market Size for Hardware, By Lighting, 2013-2022 (USD Million)
Table 25 Vertical Farming Market Size for Hardware, By Hydroponic Component, 2013-2022 (USD Million)
Table 26 Vertical Farming Market Size for Hardware, By Climate Control, 2013-2022 (USD Million)
Table 27 Vertical Farming Market Size for Hardware, By Sensors, 2013-2022 (USD Million)
Table 28 Vertical Farming Market Size, By Geography, 2013-2022 (USD Million)
Table 29 Lighting Device Market Size, By Geography, 2013-2022 (USD Million)
Table 30 Hydroponic Components Market Size, By Geography, 2013-2022 (USD Million)
Table 31 Climate Control Device Market Size, By Geography, 2013-2022 (USD Million)
Table 32 Sensors Market Size, By Geography, 2013-2022 (USD Million)
Table 33 Vertical Farming Market in North America, By Country, 2013-2022 (USD Million)
Table 34 Vertical Farming Market in North America, By Structure, 2013-2022 (USD Million)
Table 35 Vertical Farming Market in North America, By Growth Mechanism, 2013-2022 (USD Million)
Table 36 Vertical Farming Market in North America for Lighting Devices, By Country, 2013-2022 (USD Million)
Table 37 Vertical Farming Market in North America for Hydroponics Components, By Country, 2013-2022 (USD Million)
Table 38 Vertical Farming Market in North America for Climate Control Devices, By Country, 2013-2022 (USD Million)
Million)
Table 39 Vertical Farming Market in North America for Sensors, By Country, 2013-2022 (USD Million)
Table 40 Vertical Farming Market in the U.S., By Growth Mechanism, 2013-2022 (USD Million)
Table 41 Vertical Farming Market in Canada, By Growth Mechanism, 2013-2022 (USD Million)
Table 42 Vertical Farming Market in Mexico, By Growth Mechanism, 2013-2022 (USD Million)
Table 43 Vertical Farming Market in Europe, By Country, 2013-2022 (USD Million)
Table 44 Vertical Farming Market in Europe, By Structure, 2013-2022 (USD Million)
Table 45 Vertical Farming Market in Europe, By Growth Mechanism, 2013-2022 (USD Million)
Table 46 Vertical Farming Market in Europe for Lighting Devices, By Country, 2013-2022 (USD Million)
Table 47 Vertical Farming Market in Europe for Hydroponics Components, By Country, 2013-2022 (USD Million)
Table 48 Vertical Farming Market in Europe for Climate Control Devices, By Country, 2013-2022 (USD Million)
Table 49 Vertical Farming Market in Europe for Sensors, By Country, 2013-2022 (USD Million)
Table 50 Vertical Farming Market in the U.K., By Growth Mechanism, 2013-2022 (USD Million)
Table 51 Vertical Farming Market in France, By Growth Mechanism, 2013-2022 (USD Million)
Table 52 Vertical Farming Market in Sweden, By Growth Mechanism, 2013-2022 (USD Million)
Table 53 Vertical Farming Market in the Netherlands, By Growth Mechanism, 2013-2022 (USD Million)
Table 54 Vertical Farming Market in Rest of Europe, By Growth Mechanism, 2013-2022 (USD Million)
Table 55 Vertical Farming Market in Asia-Pacific, By Country, 2013-2022 (USD Million)
Table 56 Vertical Farming Market in Asia-Pacific, By Structure, 2013-2022 (USD Million)
Table 57 Vertical Farming Market in Asia-Pacific, By Growth Mechanism, 2013-2022 (USD Million)
Table 58 Vertical Farming Market in Asia-Pacific for Lighting Devices, By Country, 2013-2022 (USD Million)
Table 59 Vertical Farming Market in Asia-Pacific for Hydroponics Components, By Country, 2013-2022 (USD Million)
Table 60 Vertical Farming Market in Asia-Pacific for Climate Control Devices, By Country, 2013-2022 (USD Million)
Table 61 Vertical Farming Market in Asia-Pacific for Sensors, By Country, 2013-2022 (USD Million)
Table 62 Vertical Farming Market in Japan, By Growth Mechanism, 2013-2022 (USD Million)
Table 63 Vertical Farming Market in Singapore, By Growth Mechanism, 2013-2022 (USD Million)
Table 64 Vertical Farming Market in China, By Growth Mechanism, 2013-2022 (USD Million)
Table 65 Vertical Farming Market in Taiwan, By Growth Mechanism, 2013-2022 (USD Million)
Table 66 Vertical Farming Market in Rest of Asia-Pacific, By Growth Mechanism, 2013-2022 (USD Million)
Table 67 Vertical Farming Market in Rest of the World, By Region, 2013-2022 (USD Million)
Table 68 Vertical Farming Market in Rest of the World, By Structure, 2013-2022 (USD Million)
Table 69 Vertical Farming Market in Rest of the World, By Growth Mechanism, 2013-2022 (USD Million)
Table 70 Vertical Farming Market in Rest of the World for Lighting Devices, By Region, 2013-2022 (USD Million)
Table 71 Vertical Farming Market in Rest of the World for Hydroponics Components, By Region, 2013-2022 (USD Million)
Table 72 Vertical Farming Market in Rest of the World for Climate Control Devices, By Region, 2013-2022 (USD Million)
Table 73 Vertical Farming Market in Rest of the World for Sensors, By Region, 2013-2022 (USD Million)
Table 74 Vertical Farming Market in the Middle East, By Growth Mechanism, 2013-2022 (USD Million)
Table 75 Vertical Farming Market in Africa, By Growth Mechanism, 2013-2022 (USD Million)
Table 76 Vertical Farming Market in South America, By Growth Mechanism, 2013-2022 (USD Million)
Table 77 Market Rank Analysis of the Top Players in the Vertical Farming Market
Table 78 Contracts And Partnerships, 2014-2016
Table 79 Expansions, 2015-2016
Table 80 New Product Developments, 2015-2016
List of Figures:
Figure 1 Vertical Farming Market: Research Methodology
Figure 2 Research Flow
Figure 3 Market Size Estimation Methodology: Bottom-Up Approach
Figure 4 Market Size Estimation Methodology: Top-Down Approach
Figure 5 Data Triangulation: Vertical Farming Market
Figure 6 Hardware Segment to Hold the Largest Market Share Between 2016 And 2022
Figure 7 Lighting Devices Expected to Hold the Largest Size of the Vertical Farming Market By 2022
Figure 8 Vertical Farming Market for Aeroponics Growth Mechanism Expected to Grow at the Highest Rate Between 2016 And 2022
Figure 9 Shipping Container Vertical Farms Held the Largest Share in the Vertical Farming Market in 2016
Figure 10 Air Purification And Control to Be the Fastest-Growing Hardware Device in the Vertical Farming Market Between 2016 And 2022
Figure 68 Market Evaluation Framework—Contracts And Partnerships & Expansions to Drive the Market Between 2013 And 2016
Figure 69 Contracts And Partnerships —Are the Key Strategies in the Battle of Market Share
Figure 70 Geographic Revenue Mix of the Major Market Players
Figure 71 Koninklijke Philips N.V.: Company Snapshot
Figure 72 Koninklijke Philips N.V.: Swot Analysis
Figure 73 Aerofarms: Swot Analysis
Figure 74 Sky Greens: Swot Analysis
Figure 75 Illumitex, Inc.: Swot Analysis
Figure 76 Everlight Electronics Co., Ltd.: Company Snapshot

Ordering:
Order Online - [http://www.researchandmarkets.com/reports/4040476/](http://www.researchandmarkets.com/reports/4040476/)
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

- Product Name: Vertical Farming Market by Growth Mechanism (Hydroponics, Aeroponics, and Aquaponics), Structure (Building Based and Shipping Container), Offering (Hardware, Software, and Service), Crop Type, and Geography - Global Forecast to 2022
- Web Address: http://www.researchandmarkets.com/reports/4040476/
- Office Code: SC2GLUJ7

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single User</td>
<td>Electronic (PDF)</td>
<td>USD 5650</td>
</tr>
<tr>
<td>1 - 5 Users</td>
<td>Electronic (PDF)</td>
<td>USD 6650</td>
</tr>
<tr>
<td>Site License</td>
<td>Electronic (PDF)</td>
<td>USD 8150</td>
</tr>
<tr>
<td>Enterprisewide</td>
<td>Electronic (PDF)</td>
<td>USD 10000</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

- Title: [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
- First Name: __________________________ Last Name: ______________________________
- Email Address: * ________________________________
- Job Title: ________________________________
- Organisation: ________________________________
- Address: ________________________________
- City: ________________________________
- Postal / Zip Code: ________________________________
- Country: ________________________________
- Phone Number: ________________________________
- Fax Number: ________________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card:  You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check:  Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer:  Please transfer funds to:
Account number  833 130 83
Sort code  98-53-30
Swift code  ULSBIE2D
IBAN number  IE78ULSB98533083313083
Bank Address  Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World