

Smart Irrigation Market by Component (Controllers, Sensors, Water Flow Meters), System type (Weather-based Systems, Sensor-based Systems), Applications (Agriculture, Non-Agriculture) and Region - Global Forecast to 2029

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Abstracts

The smart irrigation market is projected to reach USD 3.0 billion by 2029 from USD 1.8 billion in 2024, at a CAGR of 11.2% from 2024 to 2029. The major factors driving the growth of smart irrigation market include the increasing number of sensor nodes and increasing implementation of government initiatives towards water conservation. Moreover, continuous technological advancements in smart irrigation systems is expected to provide several growth opportunities for market players in the smart irrigation market.

“Controllers is expected to witness the largest market size in the smart irrigation market during the forecast period.”

The smart irrigation market for controllers is expected to hold the largest market size due to the increasing adoption of this technology for irrigation scheduling in agriculture, residential and commercial properties, lawns, gardens, and landscaping. Smart controllers utilize weather and sensor data to automatically adjust irrigation schedules based on environmental changes such as temperature, humidity, and soil moisture. They offer features like multiple programs for different plant watering needs, rain delay settings, sensor input terminals for rain/freeze and soil moisture, and remote operation.

“Sensor-based controller system type is expected to witness the highest CAGR during the forecast period.”

The smart irrigation market for sensor-based controller system type is expected to witness the highest CAGR during the forecast period. This growth is driven by the increasing adoption of sensor-based controller systems in agricultural irrigation to save water and boost crop yield. Sensor-based controller systems can interpret precise data from various sensors, such as temperature, soil moisture, rain, and humidity sensors installed in the field. They are preferred over weather-based systems because they do not rely on weather forecasts or data from weather stations but capture real-time data from field-mounted sensors and transfer it to the cloud. Sensor-based smart irrigation controllers are pre-programmed according to the soil moisture level, initiating irrigation as soon as the moisture reading falls below the threshold. These controller systems are more effective than weather-based systems as they can respond to specific zone irrigation requirements based on actual soil moisture levels.

“Europe is expected to have the second-largest market size during the forecast period.”

Europe is expected to have the second-largest market size during the forecast period. This is attributed to its extensive cultivated and irrigated land areas. Various European governments have launched initiatives to promote the adoption of smart irrigation, such as the European Irrigation Association (EIA) and the Flexible and Precise Irrigation Platform to Improve Farm Scale Water Productivity (FIGARO). Key drivers for the smart irrigation market in this region include rising farming operation costs, increased government initiatives to promote water conservation, and the growing importance of automated irrigation solutions to boost farm profitability.

The break-up of profile of primary participants in the smart irrigation market-

By Company Type: Tier 1 – 40%, Tier 2 – 40%, Tier 3 – 20%

By Designation Type: C Level – 40%, Director Level – 40%, Others – 20%

By Region Type: North America – 40%, Europe – 20%, Asia Pacific – 30%, Rest of the World (RoW) – 10%

The major players of the smart irrigation market are The Toro Company. (US), Rain Bird Corporation. (US), Netafim (Israel), HUNTER INDUSTRIES INC. (US), and HydroPoint (US) among others.

Research Coverage

Smart Irrigation Market by Component (Controllers, Sensors, Water Flow Meters), System type (Weather-based Sys...

The report segments the smart irrigation market and forecasts its size based on systems type, component, application, and region. The report also provides a comprehensive review of drivers, restraints, opportunities, and challenges influencing market growth. The report also covers qualitative aspects in addition to the quantitative aspects of the market.

Reasons to buy the report:

The report will help the market leaders/new entrants in this market with information on the closest approximate revenues for the overall smart irrigation market and related segments. This report will help stakeholders understand the competitive landscape and gain more insights to strengthen their position in the market and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing number of sensor nodes and increasing implementation of government initiatives towards water conservation), restraints (lack of standardization in the industry and connectivity issues for integration in rural areas), opportunities (decreasing cost of smart irrigation systems, and continuous technological advancements in smart irrigation systems), and challenges (lack of training and education towards smart irrigation systems and growing security issues) influencing the growth of the smart irrigation market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches, partnerships, collaborations, agreements, acquisitions, and expansions in the smart irrigation market.

Market Development: Comprehensive information about lucrative markets – the report analyses the smart irrigation market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the smart irrigation market

Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players like The Toro Company. (US), Rain Bird Corporation. (US), Netafim (Israel), HUNTER INDUSTRIES INC. (US), and HydroPoint (US).

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 SMART IRRIGATION MARKET SEGMENTATION

1.3.2 REGIONAL SCOPE

FIGURE 2 SMART IRRIGATION MARKET: REGIONAL SCOPE

1.3.3 INCLUSIONS AND EXCLUSIONS

TABLE 1 INCLUSIONS AND EXCLUSIONS: BY COMPANY

TABLE 2 INCLUSIONS AND EXCLUSIONS: BY SYSTEM TYPE

TABLE 3 INCLUSIONS AND EXCLUSIONS: BY COMPONENT

TABLE 4 INCLUSIONS AND EXCLUSIONS: BY APPLICATION

TABLE 5 INCLUSIONS AND EXCLUSIONS: BY REGION

1.3.4 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

1.5 UNITS CONSIDERED

1.6 LIMITATIONS

1.7 STAKEHOLDERS

1.8 SUMMARY OF CHANGES

1.9 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH APPROACH

FIGURE 3 SMART IRRIGATION MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Major secondary sources

2.1.1.2 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Intended participants and opinion leaders in primary interviews

2.1.2.2 List of key primary interview participants

2.1.2.3 Breakdown of primaries

2.1.2.4 Key data from primary sources

2.1.3 SECONDARY AND PRIMARY RESEARCH

2.1.3.1 Key industry insights

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach to estimate market size using bottom-up analysis (supply side)

FIGURE 4 BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach to estimate market size using top-down analysis (demand side)

FIGURE 5 TOP-DOWN APPROACH

2.3 FACTOR ANALYSIS

2.3.1 SUPPLY-SIDE ANALYSIS

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: SUPPLY-SIDE ANALYSIS (APPROACH 1)

FIGURE 7 MARKET SIZE ESTIMATION: SUPPLY-SIDE ANALYSIS (APPROACH 2)

2.3.2 GROWTH FORECAST

TABLE 6 MARKET GROWTH FORECAST

2.4 PARAMETERS CONSIDERED TO ANALYZE RECESSION IMPACT

2.5 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 8 DATA TRIANGULATION

2.6 RESEARCH ASSUMPTIONS

2.7 RISK ASSESSMENT

TABLE 7 RISK ASSESSMENT: SMART IRRIGATION MARKET

3 EXECUTIVE SUMMARY

FIGURE 9 GLOBAL SMART IRRIGATION MARKET SNAPSHOT, 2020–2029

FIGURE 10 CONTROLLERS SEGMENT TO ACCOUNT FOR LARGEST SHARE OF SMART IRRIGATION MARKET, BY COMPONENT, IN 2024

FIGURE 11 WEATHER-BASED IRRIGATION SYSTEMS TO ACCOUNT FOR LARGER MARKET SHARE IN 2024

FIGURE 12 AGRICULTURAL APPLICATIONS TO LEAD SMART IRRIGATION MARKET DURING FORECAST PERIOD

FIGURE 13 NORTH AMERICA ACCOUNTED FOR LARGEST SHARE OF SMART IRRIGATION MARKET IN 2023

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN SMART IRRIGATION MARKET

FIGURE 14 DEPLOYMENT OF IOT SENSORS AND NODES WITH MULTIPLE CONTROL FUNCTIONALITIES IN AGRICULTURAL FARMS TO DRIVE MARKET
4.2 SMART IRRIGATION MARKET, BY COMPONENT

FIGURE 15 CONTROLLERS TO ACCOUNT FOR LARGEST MARKET SHARE THROUGHOUT FORECAST PERIOD

4.3 SMART IRRIGATION MARKET, BY SYSTEM TYPE

FIGURE 16 WEATHER-BASED SMART IRRIGATION SYSTEMS TO CAPTURE MAJORITY OF MARKET SHARE IN 2029

4.4 SMART IRRIGATION MARKET, BY APPLICATION

FIGURE 17 AGRICULTURAL APPLICATIONS TO ACCOUNT FOR LARGER MARKET SHARE IN 2029

4.5 SMART IRRIGATION MARKET IN NORTH AMERICA, BY COMPONENT AND COUNTRY

FIGURE 18 CONTROLLERS AND US TO HOLD LARGEST SHARES OF NORTH AMERICAN SMART IRRIGATION MARKET IN 2024

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 MARKET DYNAMICS: SMART IRRIGATION MARKET

5.2.1 DRIVERS

5.2.1.1 Government initiatives to promote water conservation

5.2.1.2 Growing deployment of IoT sensors and nodes with multiple control functionalities in agricultural farms

FIGURE 20 IMPACT OF DRIVERS ON SMART IRRIGATION MARKET

5.2.2 RESTRAINTS

5.2.2.1 Connectivity issues in rural areas

5.2.2.2 Interoperability issues due to lack of standardization in communication interfaces and protocols

FIGURE 21 IMPACT OF RESTRAINTS ON SMART IRRIGATION MARKET

5.2.3 OPPORTUNITIES

5.2.3.1 Declining costs of smart irrigation components

5.2.3.2 Constant advances in irrigation technologies and farming practices

FIGURE 22 IMPACT OF OPPORTUNITIES ON SMART IRRIGATION MARKET

5.2.4 CHALLENGES

5.2.4.1 Lack of training and education

5.2.4.2 Security issues associated with smart irrigation systems

FIGURE 23 IMPACT OF CHALLENGES ON SMART IRRIGATION MARKET

5.3 SUPPLY CHAIN ANALYSIS

FIGURE 24 SUPPLY CHAIN ANALYSIS: SMART IRRIGATION MARKET

5.4 SMART IRRIGATION MARKET ECOSYSTEM

FIGURE 25 SMART IRRIGATION ECOSYSTEM ANALYSIS

TABLE 8 ROLE OF COMPANIES IN SMART IRRIGATION ECOSYSTEM

5.5 INVESTMENT AND FUNDING SCENARIO

FIGURE 26 INVESTMENT AND FUNDING SCENARIO, 2021–2024

5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 27 TRENDS/DISRUPTIONS INFLUENCING CUSTOMER BUSINESS

5.7 TECHNOLOGY ANALYSIS

5.7.1 KEY TECHNOLOGIES

5.7.1.1 Internet of Things

5.7.1.2 Artificial intelligence

5.7.1.3 Machine learning

5.7.2 COMPLEMENTARY TECHNOLOGIES

5.7.2.1 Digital image processing

5.7.2.2 Remote sensing

5.7.3 ADJACENT TECHNOLOGIES

5.7.3.1 Precision agriculture

5.8 PRICING ANALYSIS

5.8.1 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY COMPONENT

FIGURE 28 AVERAGE SELLING PRICE TREND OF MAJOR COMPONENTS OFFERED BY KEY PLAYERS

TABLE 9 INDICATIVE PRICING TREND OF KEY COMPONENTS OFFERED BY MAJOR PLAYERS (USD)

5.8.2 AVERAGE SELLING PRICE TREND OF SMART IRRIGATION COMPONENTS

FIGURE 29 AVERAGE SELLING PRICE TREND OF SMART IRRIGATION COMPONENTS, 2020–2023

5.8.3 AVERAGE SELLING PRICE TREND, BY REGION

FIGURE 30 AVERAGE SELLING PRICE TREND OF RAIN SENSORS, BY REGION, 2020–2023

5.9 PORTER'S FIVE FORCES ANALYSIS

TABLE 10 SMART IRRIGATION MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 31 SMART IRRIGATION MARKET: PORTER'S FIVE FORCES ANALYSIS, 2023

FIGURE 32 IMPACT ANALYSIS OF PORTER'S FIVE FORCES ON SMART IRRIGATION MARKET, 2023

5.9.1 THREAT OF NEW ENTRANTS

5.9.2 THREAT OF SUBSTITUTES

5.9.3 BARGAINING POWER OF SUPPLIERS

5.9.4 BARGAINING POWER OF BUYERS

5.9.5 INTENSITY OF COMPETITIVE RIVALRY

5.10 KEY STAKEHOLDERS AND BUYING CRITERIA

5.10.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 33 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR APPLICATIONS

TABLE 11 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR APPLICATIONS (%)

5.10.2 BUYING CRITERIA

FIGURE 34 KEY BUYING CRITERIA FOR APPLICATIONS

TABLE 12 KEY BUYING CRITERIA FOR APPLICATIONS

5.11 CASE STUDIES

5.11.1 VALLEY IRRIGATION OFFERED MCCLURE FARMS WITH CENTER PIVOTS AND SMART WATER MANAGEMENT SOLUTION TO MEET REQUIREMENT FOR ADDITIONAL WATER DURING CROP GROWING SEASON

5.11.2 BANYAN WATER DEPLOYED IRRIGATION INSIGHT SOLUTION IN HP PALO ALTO CAMPUS TO MAXIMIZE WATER SAVINGS

5.11.3 HYDROPOINT INSTALLED WEATHERTRAK SOLUTION IN LEED PLATINUM RESEARCH CAMPUS TO MAKE IT MORE WATER-EFFICIENT

5.11.4 TORO OFFERED SMART IRRIGATION SYSTEMS TO SENTOSA GOLF CLUB TO PROMOTE HEALTHY LANDSCAPE

5.12 TRADE ANALYSIS

5.12.1 IMPORT DATA (HS CODE 842482)

TABLE 13 IMPORT DATA FOR HS CODE 842482-COMPLIANT PRODUCTS, BY COUNTRY, 2019–2023 (USD MILLION)

FIGURE 35 COUNTRY-WISE IMPORT DATA FOR HS CODE 842482-COMPLIANT PRODUCTS, 2019–2023

5.12.2 EXPORT DATA (HS CODE 842482)

TABLE 14 EXPORT DATA FOR HS CODE 842482-COMPLIANT PRODUCTS, BY COUNTRY, 2019–2023 (USD MILLION)

FIGURE 36 COUNTRY-WISE EXPORT DATA FOR HS CODE 842482-COMPLIANT PRODUCTS, 2019–2023

5.13 PATENTS ANALYSIS

TABLE 15 PATENTS FILED AND GRANTED, 2013–2023

FIGURE 37 NUMBER OF PATENTS GRANTED EVERY YEAR DURING 2013–2023

TABLE 16 SMART IRRIGATION MARKET: LIST OF KEY PATENTS, 2020–2023

5.14 REGULATORY LANDSCAPE

5.14.1 GLOBAL REGULATIONS AND STANDARDS

5.14.2 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 17 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 18 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 19 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.15 KEY CONFERENCES AND EVENTS, 2024—2025

TABLE 20 SMART IRRIGATION MARKET: LIST OF CONFERENCES AND EVENTS, 2024—2025

6 SMART IRRIGATION MARKET, BY SYSTEM TYPE

6.1 INTRODUCTION

FIGURE 38 SENSOR-BASED SYSTEMS TO RECORD HIGHER CAGR DURING FORECAST PERIOD

TABLE 21 SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 22 SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

6.2 WEATHER-BASED

6.2.1 GROWING PREFERENCE FOR AUTOMATED AND CUSTOMIZABLE IRRIGATION SCHEDULES TO BOOST DEMAND

TABLE 23 WEATHER-BASED: SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 24 WEATHER-BASED: SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

6.3 SENSOR-BASED

6.3.1 SURGING DEPLOYMENT IN OPEN-FIELD AGRICULTURE TO DRIVE MARKET

TABLE 25 SENSOR-BASED: SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 26 SENSOR-BASED: SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

7 SMART IRRIGATION MARKET, BY COMPONENT

7.1 INTRODUCTION

Smart Irrigation Market by Component (Controllers, Sensors, Water Flow Meters), System type (Weather-based Sys...

TABLE 27 SMART IRRIGATION MARKET, BY COMPONENT, 2020–2023 (USD MILLION)

FIGURE 39 CONTROLLERS TO ACCOUNT FOR LARGEST SHARE OF SMART IRRIGATION MARKET, BY COMPONENT, THROUGHOUT FORECAST PERIOD

TABLE 28 SMART IRRIGATION MARKET, BY COMPONENT, 2024–2029 (USD MILLION)

7.2 CONTROLLERS

7.2.1 EVAPOTRANSPIRATION CONTROLLERS

7.2.1.1 Increasing focus on optimizing irrigation schedules, conserving water, and promoting health of landscapes to foster segmental growth

7.2.2 SOIL SENSOR CONTROLLERS

7.2.2.1 Pressing need for efficient use of water in regions with variable weather patterns or water restrictions to fuel segmental growth

TABLE 29 CONTROLLERS: SMART IRRIGATION MARKET, BY TYPE, 2020–2023 (USD MILLION)

FIGURE 40 SOIL SENSOR CONTROLLERS TO EXHIBIT HIGHER CAGR DURING FORECAST PERIOD

TABLE 30 CONTROLLERS: SMART IRRIGATION MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 31 CONTROLLERS: SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 32 CONTROLLERS: SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 33 CONTROLLERS: SMART IRRIGATION MARKET, 2020–2023 (MILLION UNITS)

TABLE 34 CONTROLLERS: SMART IRRIGATION MARKET, 2024–2029 (MILLION UNITS)

7.3 SENSORS

7.3.1 SOIL MOISTURE SENSORS

7.3.1.1 Increasing need to measure soil water content for optimal moisture to accelerate segmental growth

7.3.2 RAIN/FREEZE SENSORS

7.3.2.1 Growing focus on maintaining groundwater and soil surface hygiene to propel segmental growth

7.3.3 TEMPERATURE SENSORS

7.3.3.1 Rising need to monitor soil temperature to augment segmental growth

7.3.4 FERTIGATION SENSORS

7.3.4.1 pH sensors

7.3.4.1.1 Growing adoption of pH sensors to assess soil and water quality to

contribute to market growth

7.3.4.2 EC sensors

7.3.4.2.1 Surging use of EC sensors to measure and monitor soil salinity to support segmental growth

7.3.5 OTHER SENSORS

FIGURE 41 SOIL MOISTURE SENSORS TO HOLD LARGEST SHARE OF SMART IRRIGATION MARKET FROM 2024 TO 2029

TABLE 35 SENSORS: SMART IRRIGATION MARKET, BY TYPE, 2020–2023 (USD MILLION)

TABLE 36 SENSORS: SMART IRRIGATION MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 37 SENSORS: SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 38 SENSORS: SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 39 FERTIGATION SENSORS: SMART IRRIGATION SENSOR MARKET, BY TYPE, 2020–2023 (USD MILLION)

TABLE 40 FERTIGATION SENSORS: SMART IRRIGATION SENSOR MARKET, BY TYPE, 2024–2029 (USD MILLION)

7.4 WATER FLOW METERS

7.4.1 GROWING NEED TO ACCURATELY ESTIMATE AMOUNT OF WATER REQUIRED BY EACH CROP TO BOOST DEMAND

TABLE 41 WATER FLOW METERS: SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 42 WATER FLOW METERS: SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

7.5 OTHER COMPONENTS

TABLE 43 OTHER COMPONENTS: SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 44 OTHER COMPONENTS: SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

8 SMART IRRIGATION MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 42 AGRICULTURAL APPLICATIONS TO DOMINATE SMART IRRIGATION MARKET THROUGHOUT FORECAST PERIOD

TABLE 45 SMART IRRIGATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 46 SMART IRRIGATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

8.2 AGRICULTURAL

8.2.1 GREENHOUSES

8.2.1.1 Need to protect plants from adverse climatic conditions to drive market

8.2.2 OPEN FIELDS

8.2.2.1 Focus on predicting crop-specific water requirements to foster market growth

FIGURE 43 OPEN FIELDS SEGMENT TO DOMINATE SMART IRRIGATION MARKET FOR AGRICULTURAL APPLICATIONS THROUGHOUT FORECAST PERIOD

TABLE 47 AGRICULTURAL: SMART IRRIGATION MARKET, BY APPLICATION TYPE, 2020–2023 (USD MILLION)

TABLE 48 AGRICULTURAL: SMART IRRIGATION MARKET, BY APPLICATION TYPE, 2024–2029 (USD MILLION)

TABLE 49 AGRICULTURAL: SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 50 AGRICULTURAL: SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

8.3 NON-AGRICULTURAL

FIGURE 44 RESIDENTIAL SEGMENT TO HOLD LARGEST SHARE OF SMART IRRIGATION MARKET FOR NON-AGRICULTURAL APPLICATIONS THROUGHOUT FORECAST PERIOD

TABLE 51 NON-AGRICULTURAL: SMART IRRIGATION MARKET, BY APPLICATION TYPE, 2020–2023 (USD MILLION)

TABLE 52 NON-AGRICULTURAL: SMART IRRIGATION MARKET, BY APPLICATION TYPE, 2024–2029 (USD MILLION)

TABLE 53 NON-AGRICULTURAL: SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 54 NON-AGRICULTURAL: SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

8.3.1 RESIDENTIAL

8.3.1.1 Emphasis on reducing utility bills and water wastage to fuel market growth

8.3.2 TURFS AND GROUNDS

8.3.2.1 Surging need for uniform water distribution in all areas of turfs and grounds to drive market

8.3.3 GOLF COURSES

8.3.3.1 Rising need to manage water content in golf courses to foster market growth

8.3.4 OTHER NON-AGRICULTURAL APPLICATIONS

9 SMART IRRIGATION MARKET, BY REGION

9.1 INTRODUCTION

FIGURE 45 INDIA TO BE FASTEST-GROWING SMART IRRIGATION MARKET GLOBALLY DURING FORECAST PERIOD

TABLE 55 SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 56 SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

9.2 NORTH AMERICA

FIGURE 46 NORTH AMERICA: SMART IRRIGATION MARKET SNAPSHOT

TABLE 57 NORTH AMERICA: SMART IRRIGATION MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 58 NORTH AMERICA: SMART IRRIGATION MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 59 NORTH AMERICA: SMART IRRIGATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 60 NORTH AMERICA: SMART IRRIGATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 61 NORTH AMERICA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 62 NORTH AMERICA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

TABLE 63 NORTH AMERICA: SMART IRRIGATION MARKET, BY COMPONENT, 2020–2023 (USD MILLION)

TABLE 64 NORTH AMERICA: SMART IRRIGATION MARKET, BY COMPONENT, 2024–2029 (USD MILLION)

9.2.1 IMPACT OF RECESSION ON MARKET IN NORTH AMERICA

9.2.2 US

9.2.2.1 Presence of several medium- and large-scale companies offering smart irrigation products to drive market

TABLE 65 US: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 66 US: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.2.3 CANADA

9.2.3.1 Increasing R&D investments in developing innovative irrigation solutions to fuel market growth

TABLE 67 CANADA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 68 CANADA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.2.4 MEXICO

9.2.4.1 Government initiatives toward water conservation through automated irrigation to foster market growth

TABLE 69 MEXICO: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 70 MEXICO: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.3 EUROPE

FIGURE 47 EUROPE: SMART IRRIGATION MARKET SNAPSHOT

TABLE 71 EUROPE: SMART IRRIGATION MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 72 EUROPE: SMART IRRIGATION MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 73 EUROPE: SMART IRRIGATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 74 EUROPE: SMART IRRIGATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 75 EUROPE: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 76 EUROPE: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

TABLE 77 EUROPE: SMART IRRIGATION MARKET, BY COMPONENT, 2020–2023 (USD MILLION)

TABLE 78 EUROPE: SMART IRRIGATION MARKET, BY COMPONENT, 2024–2029 (USD MILLION)

9.3.1 IMPACT OF RECESSION ON MARKET IN EUROPE

9.3.2 GERMANY

9.3.2.1 Increasing popularity of lawns among homeowners to foster market growth
TABLE 79 GERMANY: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 80 GERMANY: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.3.3 FRANCE

9.3.3.1 Rising implementation of weather-based controllers to fuel market growth
TABLE 81 FRANCE: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 82 FRANCE: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.3.4 ITALY

9.3.4.1 Proliferation of greenhouse cultivation to support market growth

TABLE 83 ITALY: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 84 ITALY: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.3.5 SPAIN

9.3.5.1 Growing need for water conservation due to uneven distribution of natural water to contribute to market growth

TABLE 85 SPAIN: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 86 SPAIN: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.3.6 REST OF EUROPE

TABLE 87 REST OF EUROPE: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 88 REST OF EUROPE: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.4 ASIA PACIFIC

FIGURE 48 ASIA PACIFIC: SMART IRRIGATION MARKET SNAPSHOT

TABLE 89 ASIA PACIFIC: SMART IRRIGATION MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 90 ASIA PACIFIC: SMART IRRIGATION MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 91 ASIA PACIFIC: SMART IRRIGATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 92 ASIA PACIFIC: SMART IRRIGATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 93 ASIA PACIFIC: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 94 ASIA PACIFIC: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

TABLE 95 ASIA PACIFIC: SMART IRRIGATION MARKET, BY COMPONENT, 2020–2023 (USD MILLION)

TABLE 96 ASIA PACIFIC: SMART IRRIGATION MARKET, BY COMPONENT, 2024–2029 (USD MILLION)

9.4.1 IMPACT OF RECESSION ON MARKET IN ASIA PACIFIC

9.4.2 JAPAN

9.4.2.1 Scarcity of labor in agricultural sector and pressing need for water conservation to drive market

TABLE 97 JAPAN: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 98 JAPAN: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.4.3 AUSTRALIA

9.4.3.1 Presence of large farms to facilitate market growth

TABLE 99 AUSTRALIA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 100 AUSTRALIA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.4.4 INDIA

9.4.4.1 Proliferation of golf courses and sports grounds to create opportunities

TABLE 101 INDIA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 102 INDIA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.4.5 CHINA

9.4.5.1 Rising number of golf courses to boost demand

TABLE 103 CHINA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 104 CHINA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.4.6 REST OF ASIA PACIFIC

TABLE 105 REST OF ASIA PACIFIC: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 106 REST OF ASIA PACIFIC: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.5 ROW

TABLE 107 ROW: SMART IRRIGATION MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 108 ROW: SMART IRRIGATION MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 109 ROW: SMART IRRIGATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 110 ROW: SMART IRRIGATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 111 ROW: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 112 ROW: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029

(USD MILLION)

TABLE 113 ROW: SMART IRRIGATION MARKET, BY COMPONENT, 2020–2023

(USD MILLION)

TABLE 114 ROW: SMART IRRIGATION MARKET, BY COMPONENT, 2024–2029

(USD MILLION)

9.5.1 IMPACT OF RECESSION ON MARKET IN ROW

9.5.2 MIDDLE EAST & AFRICA

9.5.2.1 Rising focus of region on reducing garden watering expenses to drive market

TABLE 115 MIDDLE EAST & AFRICA: SMART IRRIGATION MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 116 MIDDLE EAST & AFRICA: SMART IRRIGATION MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

9.5.2.2 GCC countries

9.5.2.3 Africa & Rest of Middle East

TABLE 117 MIDDLE EAST & AFRICA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 118 MIDDLE EAST & AFRICA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

9.5.3 SOUTH AMERICA

9.5.3.1 Growing concerns about water conservation and rising food demand to drive market

TABLE 119 SOUTH AMERICA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2020–2023 (USD MILLION)

TABLE 120 SOUTH AMERICA: SMART IRRIGATION MARKET, BY SYSTEM TYPE, 2024–2029 (USD MILLION)

10 COMPETITIVE LANDSCAPE

10.1 INTRODUCTION

10.2 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2019–2024

TABLE 121 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN SMART IRRIGATION MARKET

10.3 MARKET SHARE ANALYSIS, 2023

FIGURE 49 SMART IRRIGATION MARKET SHARE ANALYSIS, 2023

TABLE 122 SMART IRRIGATION MARKET SHARE ANALYSIS OF TOP PLAYERS, 2023

10.4 REVENUE ANALYSIS, 2020–2023

FIGURE 50 REVENUE ANALYSIS OF KEY PLAYERS IN SMART IRRIGATION MARKET, 2020–2023 (USD BILLION)

10.5 COMPANY VALUATION AND FINANCIAL METRICS

FIGURE 51 COMPANY VALUATION (USD MILLION), 2024

FIGURE 52 FINANCIAL METRICS (EV/EBITDA), 2024

10.6 BRAND/PRODUCT COMPARISON

FIGURE 53 SMART IRRIGATION MARKET: BRAND/PRODUCT COMPARISON

10.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

10.7.1 STARS

10.7.2 EMERGING LEADERS

10.7.3 PERVASIVE PLAYERS

10.7.4 PARTICIPANTS

FIGURE 54 SMART IRRIGATION MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2023

10.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2023

10.7.5.1 Company footprint

FIGURE 55 SMART IRRIGATION MARKET: COMPANY FOOTPRINT

10.7.5.2 System type footprint

TABLE 123 SMART IRRIGATION MARKET: SYSTEM TYPE FOOTPRINT

10.7.5.3 Component footprint

TABLE 124 SMART IRRIGATION MARKET: COMPONENT FOOTPRINT

10.7.5.4 Application footprint

TABLE 125 SMART IRRIGATION MARKET: APPLICATION FOOTPRINT

10.7.5.5 Region footprint

TABLE 126 SMART IRRIGATION MARKET: REGION FOOTPRINT

10.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023

10.8.1 PROGRESSIVE COMPANIES

10.8.2 RESPONSIVE COMPANIES

10.8.3 DYNAMIC COMPANIES

10.8.4 STARTING BLOCKS

FIGURE 56 SMART IRRIGATION MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2023

10.8.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023

10.8.5.1 Detailed list of key startups/SMEs

TABLE 127 SMART IRRIGATION MARKET: LIST OF KEY STARTUPS/SMES

10.8.5.2 Competitive benchmarking of startups/SMEs

TABLE 128 SMART IRRIGATION MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

10.9 COMPETITIVE SCENARIO AND TRENDS

10.9.1 PRODUCT LAUNCHES

TABLE 129 SMART IRRIGATION MARKET: PRODUCT LAUNCHES, JUNE

2019–FEBRUARY 2024

10.9.2 DEALS

TABLE 130 SMART IRRIGATION MARKET: DEALS, JUNE 2019–FEBRUARY 2024

10.9.3 EXPANSIONS

TABLE 131 SMART IRRIGATION MARKET: EXPANSIONS, JUNE 2019–FEBRUARY 2024

11 COMPANY PROFILES

(Business overview, Products/Solutions/Services offered, Recent Developments, MnM view, Key strengths, Strategic choices, Weaknesses and competitive threats) *

11.1 INTRODUCTION

11.2 KEY PLAYERS

11.2.1 THE TORO COMPANY

TABLE 132 THE TORO COMPANY: COMPANY OVERVIEW

FIGURE 57 THE TORO COMPANY: COMPANY SNAPSHOT

TABLE 133 THE TORO COMPANY: PRODUCTS OFFERED

TABLE 134 THE TORO COMPANY: DEALS

11.2.2 RAIN BIRD CORPORATION

TABLE 135 RAIN BIRD CORPORATION: COMPANY OVERVIEW

TABLE 136 RAIN BIRD CORPORATION: PRODUCTS OFFERED

TABLE 137 RAIN BIRD CORPORATION: PRODUCT LAUNCHES

11.2.3 NETAFIM

TABLE 138 NETAFIM: COMPANY OVERVIEW

FIGURE 58 ORBIS ADVANCE CORPORATION (PARENT COMPANY OF NETAFIM):
COMPANY SNAPSHOT

TABLE 139 NETAFIM: PRODUCTS OFFERED

TABLE 140 NETAFIM: PRODUCT LAUNCHES

TABLE 141 NETAFIM: DEALS

TABLE 142 NETAFIM: EXPANSIONS

11.2.4 HUNTER INDUSTRIES INC.

TABLE 143 HUNTER INDUSTRIES INC.: COMPANY OVERVIEW

TABLE 144 HUNTER INDUSTRIES INC.: PRODUCTS OFFERED

TABLE 145 HUNTER INDUSTRIES INC.: PRODUCT LAUNCHES

11.2.5 HYDROPOINT

TABLE 146 HYDROPOINT: COMPANY OVERVIEW

TABLE 147 HYDROPOINT: PRODUCTS OFFERED

TABLE 148 HYDROPOINT: PRODUCT LAUNCHES

TABLE 149 HYDROPOINT: DEALS

11.2.6 MANNA IRRIGATION LTD.

TABLE 150 MANNA IRRIGATION LTD.: COMPANY OVERVIEW

TABLE 151 MANNA IRRIGATION LTD.: PRODUCTS OFFERED

TABLE 152 MANNA IRRIGATION LTD.: DEALS

11.2.7 STEVENS WATER MONITORING SYSTEMS INC.

TABLE 153 STEVENS WATER MONITORING SYSTEMS INC.: COMPANY OVERVIEW

TABLE 154 STEVENS WATER MONITORING SYSTEMS INC.: PRODUCTS OFFERED

TABLE 155 STEVENS WATER MONITORING SYSTEMS INC.: DEALS

11.2.8 GALCON

TABLE 156 GALCON: COMPANY OVERVIEW

TABLE 157 GALCON: PRODUCTS OFFERED

11.2.9 RACHIO INC.

TABLE 158 RACHIO INC.: COMPANY OVERVIEW

TABLE 159 RACHIO INC.: PRODUCTS OFFERED

11.2.10 WEATHERMATIC

TABLE 160 WEATHERMATIC: COMPANY OVERVIEW

TABLE 161 WEATHERMATIC: PRODUCTS OFFERED

*Details on Business overview, Products/Solutions/Services offered, Recent Developments, MnM view, Key strengths, Strategic choices, Weaknesses and competitive threats might not be captured in case of unlisted companies.

11.3 OTHER PLAYERS

11.3.1 IRRIGREEN

11.3.2 BANYAN WATER, INC.

11.3.3 DELTA-T DEVICES LTD

11.3.4 CALSENSE

11.3.5 AQUASPY

11.3.6 SOIL SCOUT OY.

11.3.7 ACCLIMA, INC.

11.3.8 RAINMACHINE - GREEN ELECTRONICS LLC

11.3.9 WISECONN ENGINEERING

11.3.10 VALMONT INDUSTRIES, INC.

11.3.11 GROGURU

11.3.12 ORBIT

11.3.13 HORTAU

11.3.14 MOTTECH

11.3.15 CYBER-RAIN

12 APPENDIX

12.1 INSIGHTS FROM INDUSTRY EXPERTS

12.2 DISCUSSION GUIDE

12.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.4 CUSTOMIZATION OPTIONS

12.5 RELATED REPORTS

12.6 AUTHOR DETAILS

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