

Organic Electronics Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Organic Light-Emitting Diode Lighting, Solar Batteries, Displays, Memory Devices, Photovoltaic Cells), By Materials (Conductors, Dielectric, Luminescent Materials, Electrochromic Materials), By Component (Active Components, Passive Components), By Region & Competition, 2019-2029F

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# **Abstracts**

Global Organic Electronics Market was valued at USD 62.8 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 17.4% through 2029. The global organic electronics market is experiencing substantial growth driven by advancements in material science and the increasing adoption of flexible, lightweight, and energy-efficient electronic devices. Organic electronics, which utilize organic compounds to create electronic devices such as organic light-emitting diodes (OLEDs), organic photovoltaic cells, and organic thin-film transistors, offer significant advantages over traditional inorganic materials, including flexibility, lower production costs, and improved performance in various applications. The rising demand for OLED displays in consumer electronics, particularly in smartphones, tablets, and televisions, has been a major growth driver, owing to their superior display quality and energy efficiency. Additionally, the expansion of organic photovoltaic cells in renewable energy solutions and the development of organic sensors in healthcare and wearable technology further bolster market expansion. Innovations in organic semiconductor materials and manufacturing processes continue to enhance device performance and open new application areas, contributing to the market's dynamic growth. As technology



advances and production scales, the organic electronics market is poised for continued expansion, supported by the increasing need for advanced and versatile electronic solutions across diverse industries.

Key Market Drivers

Advancements in Organic Photovoltaics (OPVs)

Advancements in organic photovoltaics (OPVs) are significantly impacting the global organic electronics market. OPVs, which use organic materials to convert sunlight into electrical energy, are becoming increasingly viable due to improvements in efficiency, durability, and manufacturing processes. The growing emphasis on renewable energy sources and sustainable technologies drives interest in OPVs as a low-cost and versatile solution for energy generation. Recent developments in organic materials and device architecture have led to higher power conversion efficiencies and longer lifespans for OPVs, making them suitable for a wider range of applications, including building-integrated photovoltaics (BIPV) and portable power solutions. The scalability and flexibility of OPVs also offer opportunities for integration into unconventional surfaces, such as clothing and flexible packaging. As the market for renewable energy continues to expand and technology costs decrease, OPVs are expected to play an increasingly prominent role, driving growth in the organic electronics sector.

#### Growth of Wearable Technology

The rapid growth of wearable technology is a significant driver for the global organic electronics market. Wearable devices, such as smartwatches, fitness trackers, and health-monitoring gadgets, rely on organic electronics for components like flexible displays, sensors, and lightweight batteries. The need for flexible, lightweight, and durable materials is crucial for the successful development and performance of wearable technology. Organic electronics offer several advantages for wearables, including flexibility, conformability, and low power consumption, which are essential for devices that need to be worn comfortably and continuously. Additionally, advancements in organic electronics enable the integration of more sophisticated features and improved performance in wearable devices. As consumer interest in health and fitness tracking grows and technology continues to advance, the demand for innovative and efficient wearable devices is expected to drive further growth in the organic electronics market, fostering continued innovation and development in this area.

#### Expansion of Internet of Things (IoT) Applications

Organic Electronics Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Appl...



The expansion of Internet of Things (IoT) applications is a key driver of the global organic electronics market. IoT devices, which include smart home appliances, industrial sensors, and connected wearable devices, require a range of electronic components that benefit from organic electronics technologies. Organic semiconductors and sensors offer advantages such as flexibility, low cost, and ease of integration, making them suitable for various IoT applications. The ability to create flexible and lightweight sensors that can be embedded in a wide range of products enhances the functionality and versatility of IoT devices. Moreover, organic electronics enable the development of energy-efficient and low-power components, which are critical for the sustainability and effectiveness of IoT solutions. As the IoT ecosystem continues to grow and evolve, driven by advancements in connectivity and data analytics, the demand for organic electronics that support these applications is expected to increase, driving market growth and innovation.

Increasing Focus on Sustainable and Green Electronics

The increasing focus on sustainable and green electronics is a significant driver for the global organic electronics market. As environmental concerns and regulations surrounding electronic waste and energy consumption become more stringent, there is a growing emphasis on developing eco-friendly electronic components. Organic electronics, which use organic materials that can be less harmful to the environment compared to traditional inorganic materials, align with this sustainability trend. Organic semiconductors and photovoltaics are designed to be more energy-efficient and potentially recyclable, addressing both the demand for greener technologies and regulatory pressures. Additionally, the potential for organic electronics to reduce energy consumption and improve efficiency in various applications, such as energy harvesting and low-power devices, supports the global shift towards more sustainable electronic solutions. As manufacturers and consumers increasingly prioritize environmental considerations, the organic electronics market is expected to benefit from a heightened focus on green technologies, driving growth and innovation in the sector.

## Key Market Challenges

## Limited Material Performance and Stability

One of the significant challenges facing the global organic electronics market is the limited performance and stability of organic materials compared to their inorganic counterparts. Organic electronics, such as organic light-emitting diodes (OLEDs) and



organic photovoltaics (OPVs), rely on organic semiconductors that often exhibit lower efficiency, shorter operational lifespans, and reduced stability over time. These limitations stem from the intrinsic properties of organic materials, which can be more susceptible to environmental factors such as oxygen, moisture, and temperature fluctuations. For instance, the efficiency of organic light-emitting diodes can degrade significantly over time, impacting the performance and longevity of electronic devices. Similarly, organic photovoltaics often face challenges related to degradation under prolonged exposure to sunlight and environmental conditions. The need to enhance the performance and durability of organic materials requires ongoing research and development to improve their stability and efficiency. Addressing these challenges is crucial for advancing organic electronics technologies and achieving broader commercial adoption.

## High Manufacturing Costs

High manufacturing costs represent a substantial challenge for the global organic electronics market. While organic electronics have the potential to offer lower material costs and flexible manufacturing processes, the initial investment required for developing and scaling up production technologies can be significant. The production of organic electronic devices often involves complex and specialized processes, such as vacuum deposition, inkjet printing, and roll-to-roll processing, which can incur high equipment and operational costs. Additionally, achieving high yields and maintaining consistent quality in manufacturing organic electronics can be challenging, leading to increased costs and potential waste. The economic viability of organic electronics depends on the ability to reduce manufacturing costs through technological advancements, process optimization, and economies of scale. Until these cost barriers are addressed, the widespread adoption of organic electronics may be limited, impacting market growth and competitiveness.

## Integration with Existing Technologies

Integrating organic electronics with existing technologies poses a significant challenge for the market. Organic electronics are often used in applications that require compatibility with traditional electronic components and systems, which are predominantly based on inorganic materials. Ensuring seamless integration between organic and inorganic components involves addressing issues related to electrical compatibility, mechanical interfaces, and material compatibility. For example, organic light-emitting diodes used in display panels must be integrated with traditional display drivers and electronic circuits, which may require custom solutions and additional



development efforts. The challenge of achieving reliable and efficient integration can hinder the adoption of organic electronics in established markets and applications. Additionally, the need for specialized interfaces and adapters can add to the complexity and cost of deploying organic electronics solutions. Overcoming these integration challenges requires continued innovation and collaboration between material scientists, engineers, and manufacturers to develop effective solutions that bridge the gap between organic and conventional technologies.

#### Limited Market Penetration and Consumer Awareness

Limited market penetration and consumer awareness are significant challenges for the global organic electronics market. Despite the technological advancements and potential benefits of organic electronics, their adoption remains relatively low compared to conventional electronic components. Factors contributing to this challenge include the high cost of organic electronics, limited availability of commercial products, and a lack of widespread consumer awareness about the advantages of organic technologies. For example, while organic light-emitting diodes have been used in high-end displays and lighting, their adoption in mainstream consumer electronics is still limited by factors such as cost and performance compared to traditional technologies. Additionally, the relatively nascent nature of the organic electronics industry means that many consumers and businesses may not be fully aware of the benefits and applications of these technologies. Addressing these challenges requires increased efforts in marketing, education, and product development to raise awareness and demonstrate the value proposition of organic electronics to potential users and stakeholders. Expanding market penetration will be crucial for driving growth and achieving broader acceptance of organic electronics solutions.

#### Key Market Trends

#### Expansion of Flexible and Wearable Electronics

The expansion of flexible and wearable electronics represents a key trend in the global organic electronics market. As consumer demand for innovative and versatile electronic devices grows, organic electronics are increasingly being used in flexible and wearable applications. Organic light-emitting diodes (OLEDs) and organic thin-film transistors (OTFTs) are pivotal in developing flexible displays, sensors, and electronic skin patches that can be integrated into clothing, accessories, and health-monitoring devices. The ability to produce lightweight, bendable, and durable components makes organic electronics particularly suitable for wearables, which require both flexibility and



resilience. The trend towards integrating electronics seamlessly into everyday objects and clothing is driving innovation and expanding the market for organic electronics. Advancements in material science and manufacturing technologies are enhancing the performance and affordability of flexible electronics, further fueling this trend. As the wearable technology market continues to grow, driven by consumer interest in health tracking and smart accessories, the demand for organic electronic components is expected to increase, leading to broader adoption and continued technological advancements in this sector.

## Growth in Organic Photovoltaics (OPVs) for Renewable Energy

The growth of organic photovoltaics (OPVs) as a renewable energy solution is a significant trend in the global organic electronics market. OPVs, which use organic materials to convert sunlight into electricity, are gaining traction due to their potential for low-cost and versatile solar energy applications. Recent advancements in OPV technology have improved their efficiency and stability, making them more competitive with traditional silicon-based solar cells. The ability to produce lightweight, flexible, and semi-transparent solar panels opens up new possibilities for integrating photovoltaics into a variety of surfaces, including windows, facades, and portable devices. The increasing emphasis on renewable energy and sustainability is driving investment and innovation in OPVs. Government incentives and growing consumer awareness about environmental issues further support the adoption of organic photovoltaics. As the technology matures and costs continue to decrease, OPVs are expected to play a more significant role in the renewable energy market, driving growth in the organic electronics sector and contributing to global sustainability goals.

Advancements in Organic Light-Emitting Diodes (OLEDs)

Advancements in organic light-emitting diodes (OLEDs) are shaping the future of the global organic electronics market. OLED technology is renowned for its ability to deliver high-quality displays with vibrant colors, high contrast, and flexibility. Recent innovations have focused on improving OLED performance in terms of brightness, efficiency, and lifespan. The development of new organic materials and improved manufacturing techniques is enabling OLEDs to be used in a broader range of applications, including high-definition televisions, smartphones, and innovative lighting solutions. The trend towards more energy-efficient and versatile display technologies is driving the growth of OLEDs, as they offer advantages such as thinner profiles, lighter weights, and better color accuracy compared to traditional LCDs. Additionally, the adoption of OLED technology in new market segments, such as automotive displays and augmented



reality (AR) devices, is expanding its reach. As OLED technology continues to advance, it is expected to lead to further growth and innovation in the organic electronics market, supporting the development of next-generation electronic devices and displays.

Emergence of Organic Electronics in Medical Devices

The emergence of organic electronics in medical devices is a growing trend that highlights the potential of organic materials to transform healthcare applications. Organic electronics, including organic sensors and flexible displays, offer unique advantages for medical devices, such as flexibility, lightweight, and biocompatibility. These properties make organic electronics ideal for developing advanced wearable health monitors, electronic skin patches, and flexible diagnostic sensors. The integration of organic electronics into medical devices enables more accurate and continuous monitoring of physiological parameters, enhancing patient care and diagnostic capabilities. Innovations in organic semiconductor materials are improving the performance and reliability of these devices, making them more suitable for medical applications. Additionally, the ability to create conformable and lightweight electronics supports the development of wearable and implantable devices that can seamlessly integrate with the human body. As the healthcare industry increasingly embraces digital health solutions and personalized medicine, the demand for organic electronics in medical devices is expected to grow, driving advancements and expanding the market in this sector.

Increasing Investment in Research and Development

The increasing investment in research and development (R&D) is a prominent trend in the global organic electronics market. As the technology continues to evolve, significant R&D efforts are being directed towards improving the performance, efficiency, and scalability of organic electronics. Companies, research institutions, and governments are investing in developing new organic materials, enhancing manufacturing processes, and exploring innovative applications for organic electronics. This trend is driven by the need to overcome existing challenges, such as material stability, manufacturing costs, and integration with conventional technologies. The focus on R&D is aimed at advancing organic semiconductors, flexible displays, organic photovoltaics, and other applications to make them more commercially viable and competitive. Increased R&D investments are fostering collaborations between academia and industry, leading to accelerated technological breakthroughs and market innovations. As the organic electronics market continues to grow, sustained investment in R&D will be crucial for driving further advancements, expanding application areas, and achieving long-term



market growth.

Segmental Insights

**Component Insights** 

The active components segment dominated the global organic electronics market and is projected to continue its leading position throughout the forecast period. Active components, which include organic semiconductors used in devices such as organic light-emitting diodes (OLEDs), organic photovoltaic cells, and organic thin-film transistors, are crucial for the functionality and performance of a wide range of organic electronic applications. The dominance of this segment is largely driven by the growing adoption of OLED technology in consumer electronics, including smartphones, televisions, and wearables, where organic semiconductors play a vital role in enabling high-quality displays and efficient energy conversion. Active components are essential for facilitating the dynamic operation of these devices, offering benefits such as flexibility, low power consumption, and high performance. Additionally, the ongoing advancements in organic semiconductors, which include improvements in material efficiency, device longevity, and manufacturing processes, contribute to the sustained prominence of the active components segment. While passive components are important in supporting roles, such as in the construction of electronic circuits and systems, the higher demand for advanced, functional, and performance-oriented devices continues to drive the active components segment. As technology evolves and the applications for organic electronics expand, the active components segment is expected to maintain its dominant position, further bolstered by innovations and increasing integration in next-generation electronic devices.

#### Materials Insights

The luminescent materials segment emerged as the dominant force in the global organic electronics market and is projected to maintain its leadership throughout the forecast period. Luminescent materials, particularly organic light-emitting materials used in OLED displays and lighting applications, are critical due to their ability to emit light efficiently and with high color accuracy. This segment's dominance is primarily driven by the widespread adoption of OLED technology in consumer electronics, including smartphones, televisions, and wearables, where vibrant display quality and energy efficiency are paramount. Organic luminescent materials are integral to the performance of these devices, providing superior brightness, color depth, and flexibility compared to traditional technologies. The continuous advancements in luminescent materials,



including improvements in efficiency, lifespan, and production processes, further enhance their market position. While conductors, dielectric materials, and electrochromic materials also play crucial roles in organic electronics, the high demand for advanced display and lighting solutions significantly propels the luminescent materials segment. The trend towards more flexible and high-performance electronic devices continues to boost the demand for luminescent materials, solidifying their dominance in the organic electronics market. As innovations in OLED and other luminescent technologies advance, the segment is expected to sustain its leading role, driving growth and development in the global organic electronics landscape.

## **Regional Insights**

The Asia-Pacific region dominated the global organic electronics market and is expected to sustain its leadership throughout the forecast period. This dominance is primarily due to the region's advanced manufacturing infrastructure, significant investments in research and development, and the presence of leading technology companies. Asia-Pacific, with key players based in countries such as South Korea, Japan, China, and Taiwan, has established itself as a global hub for organic electronics production, particularly in areas like OLED displays and organic photovoltaic cells. The region's robust electronics manufacturing ecosystem, coupled with a strong consumer electronics market, drives the high demand for organic electronic components. Additionally, the rapid growth of technology adoption, including smart devices, wearable technology, and flexible displays, fuels the region's market dominance. The Asia-Pacific region also benefits from favorable government policies and incentives aimed at promoting technological innovation and industrial expansion. Emerging economies within the region are further contributing to market growth through increased industrialization and consumer electronics adoption. As advancements in organic electronics continue to evolve, the Asia-Pacific region's strategic investments in highperformance materials and next-generation technologies position it well to maintain its leading role. The combination of technological prowess, extensive manufacturing capabilities, and a growing end-user base ensures that Asia-Pacific remains the focal point of the global organic electronics market.

Key Market Players

LG Display Co., Ltd

Samsung Electronics Co., Ltd.



Sony Corporation

ams-OSRAM International GmbH

Applied Materials, Inc.

Kodak Alaris Inc.

DuPont de Nemours, Inc.

JNC Corporation

Merck KGaA

Sumitomo Chemical Co., Ltd.

Panasonic Corporation

ROHM Co. Ltd

Report Scope:

In this report, the Global Organic Electronics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Organic Electronics Market, By Component:

Active Components

**Passive Components** 

Organic Electronics Market, By Materials:

Conductors

Dielectric



#### Luminescent Materials

**Electrochromic Materials** 

Organic Electronics Market, By Application:

Organic Light-Emitting Diode Lighting

**Solar Batteries** 

Displays

Memory Devices

Photovoltaic Cells

Organic Electronics Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium



Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey



Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Organic Electronics Market.

Available Customizations:

Global Organic Electronics 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).



# Contents

# 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.2.1. Markets Covered
- 1.2.2. Years Considered for Study
- 1.2.3. Key Market Segmentations

## 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
- 2.5.1. Secondary Research
- 2.5.2. Primary Research
- 2.6. Approach for the Market Study
- 2.6.1. The Bottom-Up Approach
- 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
  - 2.8.1. Data Triangulation & Validation

## **3. EXECUTIVE SUMMARY**

## 4. IMPACT OF COVID-19 ON GLOBAL ORGANIC ELECTRONICS MARKET

## 5. VOICE OF CUSTOMER

## 6. GLOBAL ORGANIC ELECTRONICS MARKET OVERVIEW

## 7. GLOBAL ORGANIC ELECTRONICS MARKET OUTLOOK

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast



7.2.1. By Application (Organic Light-Emitting Diode Lighting, Solar Batteries, Displays, Memory Devices, Photovoltaic Cells)

7.2.2. By Materials (Conductors, Dielectric, Luminescent Materials, Electrochromic Materials)

7.2.3. By Components (Active Components, Passive Components)

7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

- 7.3. By Company (2023)
- 7.4. Market Map

# 8. NORTH AMERICA ORGANIC ELECTRONICS MARKET OUTLOOK

- 8.1. Market Size & Forecast
- 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Component
  - 8.2.2. By Materials
  - 8.2.3. By Application
  - 8.2.4. By Country
- 8.3. North America: Country Analysis
  - 8.3.1. United States Organic Electronics Market Outlook
    - 8.3.1.1. Market Size & Forecast
    - 8.3.1.1.1. By Value
  - 8.3.1.2. Market Share & Forecast
  - 8.3.1.2.1. By Component
  - 8.3.1.2.2. By Materials
  - 8.3.1.2.3. By Application
  - 8.3.2. Canada Organic Electronics Market Outlook
  - 8.3.2.1. Market Size & Forecast
  - 8.3.2.1.1. By Value
  - 8.3.2.2. Market Share & Forecast
  - 8.3.2.2.1. By Component
  - 8.3.2.2.2. By Materials
  - 8.3.2.2.3. By Application
  - 8.3.3. Mexico Organic Electronics Market Outlook
  - 8.3.3.1. Market Size & Forecast
  - 8.3.3.1.1. By Value
  - 8.3.3.2. Market Share & Forecast
  - 8.3.3.2.1. By Component



- 8.3.3.2.2. By Materials
- 8.3.3.2.3. By Application

# 9. EUROPE ORGANIC ELECTRONICS MARKET OUTLOOK

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
- 9.2.1. By Component
- 9.2.2. By Materials
- 9.2.3. By Application
- 9.2.4. By Country
- 9.3. Europe: Country Analysis
  - 9.3.1. Germany Organic Electronics Market Outlook
    - 9.3.1.1. Market Size & Forecast
    - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
    - 9.3.1.2.1. By Component
    - 9.3.1.2.2. By Materials
    - 9.3.1.2.3. By Application
  - 9.3.2. France Organic Electronics Market Outlook
    - 9.3.2.1. Market Size & Forecast
    - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
    - 9.3.2.2.1. By Component
    - 9.3.2.2.2. By Materials
    - 9.3.2.2.3. By Application
  - 9.3.3. United Kingdom Organic Electronics Market Outlook
  - 9.3.3.1. Market Size & Forecast
  - 9.3.3.1.1. By Value
  - 9.3.3.2. Market Share & Forecast
  - 9.3.3.2.1. By Component
  - 9.3.3.2.2. By Materials
  - 9.3.3.2.3. By Application
  - 9.3.4. Italy Organic Electronics Market Outlook
  - 9.3.4.1. Market Size & Forecast
  - 9.3.4.1.1. By Value
  - 9.3.4.2. Market Share & Forecast
  - 9.3.4.2.1. By Component



- 9.3.4.2.2. By Materials
- 9.3.4.2.3. By Application
- 9.3.5. Spain Organic Electronics Market Outlook
  - 9.3.5.1. Market Size & Forecast
    - 9.3.5.1.1. By Value
  - 9.3.5.2. Market Share & Forecast
  - 9.3.5.2.1. By Component
  - 9.3.5.2.2. By Materials
  - 9.3.5.2.3. By Application
- 9.3.6. Belgium Organic Electronics Market Outlook
  - 9.3.6.1. Market Size & Forecast
    - 9.3.6.1.1. By Value
  - 9.3.6.2. Market Share & Forecast
  - 9.3.6.2.1. By Component
  - 9.3.6.2.2. By Materials
  - 9.3.6.2.3. By Application

# **10. SOUTH AMERICA ORGANIC ELECTRONICS MARKET OUTLOOK**

- 10.1. Market Size & Forecast
- 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Component
  - 10.2.2. By Materials
  - 10.2.3. By Application
  - 10.2.4. By Country
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil Organic Electronics Market Outlook
  - 10.3.1.1. Market Size & Forecast
  - 10.3.1.1.1. By Value
  - 10.3.1.2. Market Share & Forecast
  - 10.3.1.2.1. By Component
  - 10.3.1.2.2. By Materials
  - 10.3.1.2.3. By Application
  - 10.3.2. Colombia Organic Electronics Market Outlook
  - 10.3.2.1. Market Size & Forecast
  - 10.3.2.1.1. By Value
  - 10.3.2.2. Market Share & Forecast
  - 10.3.2.2.1. By Component



- 10.3.2.2.2. By Materials
- 10.3.2.2.3. By Application
- 10.3.3. Argentina Organic Electronics Market Outlook
  - 10.3.3.1. Market Size & Forecast
    - 10.3.3.1.1. By Value
  - 10.3.3.2. Market Share & Forecast
  - 10.3.3.2.1. By Component
  - 10.3.3.2.2. By Materials
  - 10.3.3.2.3. By Application
- 10.3.4. Chile Organic Electronics Market Outlook
  - 10.3.4.1. Market Size & Forecast
    - 10.3.4.1.1. By Value
  - 10.3.4.2. Market Share & Forecast
  - 10.3.4.2.1. By Component
  - 10.3.4.2.2. By Materials
  - 10.3.4.2.3. By Application
- 10.3.5. Peru Organic Electronics Market Outlook
  - 10.3.5.1. Market Size & Forecast
  - 10.3.5.1.1. By Value
  - 10.3.5.2. Market Share & Forecast
  - 10.3.5.2.1. By Component
  - 10.3.5.2.2. By Materials
  - 10.3.5.2.3. By Application

# 11. MIDDLE EAST & AFRICA ORGANIC ELECTRONICS MARKET OUTLOOK

- 11.1. Market Size & Forecast
- 11.1.1. By Value
- 11.2. Market Share & Forecast
  - 11.2.1. By Component
  - 11.2.2. By Materials
- 11.2.3. By Application
- 11.2.4. By Country
- 11.3. Middle East & Africa: Country Analysis
- 11.3.1. Saudi Arabia Organic Electronics Market Outlook
- 11.3.1.1. Market Size & Forecast
- 11.3.1.1.1. By Value
- 11.3.1.2. Market Share & Forecast
  - 11.3.1.2.1. By Component



- 11.3.1.2.2. By Materials
- 11.3.1.2.3. By Application
- 11.3.2. UAE Organic Electronics Market Outlook
  - 11.3.2.1. Market Size & Forecast
  - 11.3.2.1.1. By Value
  - 11.3.2.2. Market Share & Forecast
  - 11.3.2.2.1. By Component
  - 11.3.2.2.2. By Materials
  - 11.3.2.2.3. By Application
- 11.3.3. South Africa Organic Electronics Market Outlook
  - 11.3.3.1. Market Size & Forecast
  - 11.3.3.1.1. By Value
  - 11.3.3.2. Market Share & Forecast
  - 11.3.3.2.1. By Component
  - 11.3.3.2.2. By Materials
  - 11.3.3.2.3. By Application
- 11.3.4. Turkey Organic Electronics Market Outlook
  - 11.3.4.1. Market Size & Forecast
  - 11.3.4.1.1. By Value
  - 11.3.4.2. Market Share & Forecast
  - 11.3.4.2.1. By Component
  - 11.3.4.2.2. By Materials
  - 11.3.4.2.3. By Application
- 11.3.5. Israel Organic Electronics Market Outlook
  - 11.3.5.1. Market Size & Forecast
  - 11.3.5.1.1. By Value
  - 11.3.5.2. Market Share & Forecast
  - 11.3.5.2.1. By Component
  - 11.3.5.2.2. By Materials
  - 11.3.5.2.3. By Application

## 12. ASIA PACIFIC ORGANIC ELECTRONICS MARKET OUTLOOK

- 12.1. Market Size & Forecast
  - 12.1.1. By Value
- 12.2. Market Share & Forecast
  - 12.2.1. By Component
  - 12.2.2. By Materials
  - 12.2.3. By Application



- 12.2.4. By Country
- 12.3. Asia-Pacific: Country Analysis
- 12.3.1. China Organic Electronics Market Outlook
  - 12.3.1.1. Market Size & Forecast
    - 12.3.1.1.1. By Value
  - 12.3.1.2. Market Share & Forecast
  - 12.3.1.2.1. By Component
  - 12.3.1.2.2. By Materials
  - 12.3.1.2.3. By Application
- 12.3.2. India Organic Electronics Market Outlook
  - 12.3.2.1. Market Size & Forecast
    - 12.3.2.1.1. By Value
  - 12.3.2.2. Market Share & Forecast
  - 12.3.2.2.1. By Component
  - 12.3.2.2.2. By Materials
  - 12.3.2.2.3. By Application
- 12.3.3. Japan Organic Electronics Market Outlook
  - 12.3.3.1. Market Size & Forecast
  - 12.3.3.1.1. By Value
  - 12.3.3.2. Market Share & Forecast
  - 12.3.3.2.1. By Component
  - 12.3.3.2.2. By Materials
  - 12.3.3.2.3. By Application
- 12.3.4. South Korea Organic Electronics Market Outlook
  - 12.3.4.1. Market Size & Forecast
  - 12.3.4.1.1. By Value
  - 12.3.4.2. Market Share & Forecast
  - 12.3.4.2.1. By Component
  - 12.3.4.2.2. By Materials
  - 12.3.4.2.3. By Application
- 12.3.5. Australia Organic Electronics Market Outlook
- 12.3.5.1. Market Size & Forecast
- 12.3.5.1.1. By Value
- 12.3.5.2. Market Share & Forecast
- 12.3.5.2.1. By Component
- 12.3.5.2.2. By Materials
- 12.3.5.2.3. By Application
- 12.3.6. Indonesia Organic Electronics Market Outlook
  - 12.3.6.1. Market Size & Forecast



12.3.6.1.1. By Value
12.3.6.2. Market Share & Forecast
12.3.6.2.1. By Component
12.3.6.2.2. By Materials
12.3.6.2.3. By Application
12.3.7. Vietnam Organic Electronics Market Outlook
12.3.7.1. Market Size & Forecast
12.3.7.2. Market Share & Forecast
12.3.7.2.1. By Component
12.3.7.2.2. By Materials
12.3.7.2.3. By Application

# **13. MARKET DYNAMICS**

13.1. Drivers

13.2. Challenges

## 14. MARKET TRENDS AND DEVELOPMENTS

## **15. COMPANY PROFILES**

- 15.1. LG Display Co., Ltd
  - 15.1.1. Business Overview
  - 15.1.2. Key Revenue and Financials
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel/Key Contact Person
- 15.1.5. Key Product/Services Offered
- 15.2. Samsung Electronics Co., Ltd.
  - 15.2.1. Business Overview
  - 15.2.2. Key Revenue and Financials
  - 15.2.3. Recent Developments
  - 15.2.4. Key Personnel/Key Contact Person
- 15.2.5. Key Product/Services Offered
- 15.3. Sony Corporation
  - 15.3.1. Business Overview
- 15.3.2. Key Revenue and Financials
- 15.3.3. Recent Developments
- 15.3.4. Key Personnel/Key Contact Person



- 15.3.5. Key Product/Services Offered
- 15.4. ams-OSRAM International GmbH
- 15.4.1. Business Overview
- 15.4.2. Key Revenue and Financials
- 15.4.3. Recent Developments
- 15.4.4. Key Personnel/Key Contact Person
- 15.4.5. Key Product/Services Offered
- 15.5. Applied Materials, Inc.
  - 15.5.1. Business Overview
  - 15.5.2. Key Revenue and Financials
  - 15.5.3. Recent Developments
  - 15.5.4. Key Personnel/Key Contact Person
  - 15.5.5. Key Product/Services Offered
- 15.6. Kodak Alaris Inc.
- 15.6.1. Business Overview
- 15.6.2. Key Revenue and Financials
- 15.6.3. Recent Developments
- 15.6.4. Key Personnel/Key Contact Person
- 15.6.5. Key Product/Services Offered
- 15.7. DuPont de Nemours, Inc.
  - 15.7.1. Business Overview
  - 15.7.2. Key Revenue and Financials
  - 15.7.3. Recent Developments
  - 15.7.4. Key Personnel/Key Contact Person
  - 15.7.5. Key Product/Services Offered
- 15.8. JNC Corporation
  - 15.8.1. Business Overview
  - 15.8.2. Key Revenue and Financials
- 15.8.3. Recent Developments
- 15.8.4. Key Personnel/Key Contact Person
- 15.8.5. Key Product/Services Offered
- 15.9. Merck KGaA
- 15.9.1. Business Overview
- 15.9.2. Key Revenue and Financials
- 15.9.3. Recent Developments
- 15.9.4. Key Personnel/Key Contact Person
- 15.9.5. Key Product/Services Offered
- 15.10. Sumitomo Chemical Co., Ltd.
- 15.10.1. Business Overview



- 15.10.2. Key Revenue and Financials
- 15.10.3. Recent Developments
- 15.10.4. Key Personnel/Key Contact Person
- 15.10.5. Key Product/Services Offered
- 15.11. Panasonic Corporation
- 15.11.1. Business Overview
- 15.11.2. Key Revenue and Financials
- 15.11.3. Recent Developments
- 15.11.4. Key Personnel/Key Contact Person
- 15.11.5. Key Product/Services Offered

#### 15.12. ROHM Co. Ltd

- 15.12.1. Business Overview
- 15.12.2. Key Revenue and Financials
- 15.12.3. Recent Developments
- 15.12.4. Key Personnel/Key Contact Person
- 15.12.5. Key Product/Services Offered

#### **16. STRATEGIC RECOMMENDATIONS**

#### **17. ABOUT US & DISCLAIMER**



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