

North America Organic Electronics Market By Material (Semiconductor, Conductive and Dielectric & Substrate), By Application (Display, Lighting, Battery, Conductive Ink and Others), By Country, Industry Analysis and Forecast, 2020 - 2026

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Abstracts

The North America Organic Electronics Market would witness market growth of 21.4% CAGR during the forecast period (2020-2026).

Organic electronics symbolize a highly capable technology that is likely to offer increased functionality to overcome the challenges related to power consumption in the coming years. Prospective applications of organic electronics include various fields such as environmental health, biomedical research, national security, and IT. Due to the properties of simple processing methods and less material utilization, these devices are anticipated to become a low-cost and better alternative to the conventional inorganic electronic applications. The founding of advanced systems to be dependent on organic semiconductors may prove significant technological maturity as well as the competitiveness of these devices over the foreseeable period.

Many different types of materials are used for manufacturing organic electronics such as graphenes, polymers, carbon-based molecular structures, nanotubes, and hybrid materials. A universally known application of organic materials includes an organic light-emitting diode (OLED). OLED is extensively used in smartphones. Organic solar cells, transistors, and television displays are some other applications of organic electronics. There are many advantages of the adoption of organic electronics such as their processing is done at room temperature different from that of silicon that requires higher temperatures above 1000°C. They can be manufactured in bulk and at very low cost, unlike the presently used costly electronics. Organic electronic materials are brighter,

flexible, and also consumes less power. On the other hand, it also has some disadvantages that include- susceptible to be damaged by water, requires expensive research & development activity, has low electrical conductivity, and shorter lifespan as compared to metallic conductors.

Based on Material, the market is segmented into Semiconductor, Conductive and Dielectric & Substrate. Based on Application, the market is segmented into Display, Lighting, Battery, Conductive Ink and Others. Based on countries, the market is segmented into U.S., Mexico, Canada, and Rest of North America.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Koninklijke Philips N.V., Sony Corporation, Sumitomo Corporation, Heliatek GmbH, AU Optronics Corporation, Covestro AG, Evonik Industries AG (RAG-Stiftung), BASF SE, AGC, Inc., and H. C. Starck, Inc. (H.C. Starck GmbH).

Scope of the Study

Market Segmentation:

By Material

Semiconductor

Conductive

Dielectric & Substrate

By Application

Display

Lighting

Battery

Conductive Ink

Others

By Country

US

Canada

Mexico

Rest of North America

Companies Profiled

Koninklijke Philips N.V.

Sony Corporation

Sumitomo Corporation

Heliatek GmbH

AU Optronics Corporation

Covestro AG

Evonik Industries AG (RAG-Stiftung)

BASF SE

AGC, Inc.

H. C. Starck, Inc. (H.C. Starck GmbH)

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