

# **Global Transparent Electronics Market Size study & Forecast, by Product (Transparent Displays, Transparent Solar Panels, Smart Windows), by End-user (Automotive, Building Infrastructure, Consumer Electronics) and Regional Analysis, 2022-2029**

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## **Abstracts**

The global Transparent Electronics Market is valued at approximately USD XX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX % over the forecast period 2022-2029. Transparent electronics is a new field that aims to create 'invisible' electronic circuits and optoelectronic devices. The technology involves using transparent materials to replace the normally opaque semiconductor materials that serve as the foundation for electronic device fabrication. These devices are made using two different technologies: Transparent Conducting Oxides (TCOs) and Thin Film Transistors (TFTs). The Transparent Electronics market is expanding because of factors such as the rising growth of electronic devices and adoption of touch-enabled devices.

According to Statista in 2022, the consumer electronic market is growing annually with a growth rate of around 2.17 %. It includes smartphones, touch-enabled devices, and so on. Also, per person revenue generation is around USD 143.60 billion in 2023. Whereas rising adoption of transparent solar panels and technological advancement and innovations create lucrative opportunities for the market. In April 2019, LG, which has not yet introduced a foldable smartphone, was successful in obtaining a patent for a foldable display that is also largely transparent. No matter how the user holds the phone, touch input would be available on both the front and back of the device. A back camera system with several lenses is also described in the patent. However, high functioning costs hamper the market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Transparent Electronics Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America dominated the market in terms of revenue, owing to the increasing demand from touch-enabled electronic devices such as smartphones, tablets, and wearables devices. Whereas the Asia Pacific is expected to grow with the highest CAGR during the forecast period, owing to factors such as increasing penetration of market players and growth activities in the forecast period.

Major market players included in this report are:

BOE Technology Group Co.

Brite Solar Inc.

ClearLED Ltd.

Corning Incorporated

LG Electronics Inc.

Shenzhen AuroLED Technology Co.,Ltd

Shenzhen Nexnovo Technology Co., Ltd

Street Communication Inc.

Ubiquitous Energy Inc.

Panasonic Corporation

Recent Developments in the Market:

In May 2019, Tianma Microelectronics Co. displayed new display technologies at the Embedded World trade show in Germany. Tianma Microelectronics Co. unveiled a new OLED prototype, a 10.3-inch 91-PPI transparent AMOLED panel with up to 50% transparency and high brightness.

In September 2019, Huawei licenced a smartphone with an under-screen camera, flash, LED indicator, light emitter, and sensor. The phone is said to have a partially transparent display that spans the width of the device, just below the selfie camera. The transparent display portion only becomes semi-transparent between 50 and 99%, allowing status bar icons to be visible. Users will be able to easily adjust the transparency of the screen by gently touching it.

Global Transparent Electronics Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Product, End-User, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Transparent Displays

Transparent Solar Panels

Smart Windows

By End-user:

Automotive

Building Infrastructure

Consumer Electronics

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India  
Japan  
Australia  
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RoLA  
Rest of the World

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