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Global Perovskite Solar Cell Market Size study, By Structure (Planar and Mesoporous), By Product (Rigid and Flexible), By Method (Solution Method, Vapor-Deposition Method and Vapor-Assisted Solution Method) and By End Use (Aerospace, Industrial Automation, Consumer Electronics, Energy), and Regional Forecasts 2022-2028

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Abstracts

Global Perovskite Solar Cell Market is valued approximately USD XX million in 2021 and is anticipated to grow with a healthy growth rate of more than XX % over the forecast period 2022-2028.

The Perovskite Solar Cell can be defined as thin-film devices built with layers of materials, either printed or coated from liquid inks or vacuum-deposited. Perovskite materials have excellent light absorption, charge-carrier mobilities, and lifetimes. These cells offer high power conversion efficiencies (PCE), but their stability is limited compared to other photovoltaic (PV) technologies. Perovskite material decomposes when it reacts with moisture and oxygen. The growing Industrial Automation sector and rising end use applications in various industries as well as recent expansion activities from leading market players are factors that are accelerating the global market demand. For instance, according to Statista – in 2020, global industrial automation market was valued at USD 175 billion. The market is projected to grow at a compound annual growth rate (CAGR) of around nice percent between 2020 and 2025 to reach to USD 265 billion. Furthermore, leading market players are working towards new expansion projects to leverage the growing adoption of Perovskite Solar Cells. For instance, in June 2021, Polish perovskite solar cell manufacturer Saule Technologies commissioned its new cell factory in Wroc?aw, in western Poland. The manufacturing facility spread

across an area of approximately 5,000 square metres. Also, growing concern over carbon emission reduction and increasing number of Research & Development efforts are anticipated to act as a catalyzing factor for the market demand during the forecast period. However, presence of toxic material and high cost associated with the product as well as limited operational lifetimes impede the growth of the market over the forecast period of 2022-2028.

The key regions considered for the global Perovskite Solar Cell Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is the leading region across the world in terms of market share owing to the growing penetration of IoT devices and presence of leading market players in the region. Whereas, Asia Pacific is anticipated to exhibit a significant growth rate over the forecast period 2022-2028. Factors such as the thriving growth of renewable energy sector and increasing penetration of leading market players, would create lucrative growth prospects for the global Perovskite Solar Cell Market across the Asia Pacific region.

Major market players included in this report are:
Oxford Photovoltaics
FrontMaterials Co. Ltd.
Solaronix SA
Xiamen Weihua Solar Co. Ltd.
Fraunhofer ISE
Dyesol
Saule Technologies
FlexLink Systems Inc.
Polyera Corporation
New Energy Technologies Inc

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 eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available 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 Structure

Planar
Mesoporous
By Product
Rigid
Flexible
By Method
Solution Method
Vapor-Deposition Method
Vapor-Assisted Solution Method
By End Use
Aerospace
Industrial Automation
Consumer Electronics
Energy
By Region:
North America
U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

Furthermore, years considered for the study are as follows:

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Historical year – 2018, 2019, 2020
Base year – 2021
Forecast period – 2022 to 2028

Target Audience of the Global Perovskite Solar Cell Market in Market Study:

Key Consulting Companies & Advisors
Large, medium-sized, and small enterprises
Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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