

Artificial Photosynthesis Market by Application (Hydrocarbon, Hydrogen, Chemicals), Technology (Co-Electrolysis, Photo-Electro Catalysis, Nanotechnology, Hybrid Process), Region (North America, APAC, Europe, Rest of World) - Global Forecast to 2030

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Abstracts

The artificial photosynthesis market size will grow to USD 185 Million by 2030 from USD 62 Million in 2022, at a CAGR of 14.6% during the forecast period. The global artificial photosynthesis market is driven by the government fundings and grants for the research and development of artificial photosynthesis technology; global plans for net zero emissions. Growing demand of green H₂ and eco-friendly liquid fuels are expected to offer lucrative opportunities for the artificial photosynthesis market during the forecast period.

“Asia Pacific: The largest region in the artificial photosynthesis market.”

Asia Pacific is expected to dominate the global artificial photosynthesis market between 2022–2030. The region has been segmented, by country, into Japan, China, India, and South Korea. The region faces a tough challenge to reduce its carbon footprint from various fossil-fuel-powered operations, including power generation. Asia Pacific is one of the leading markets that has adopted green technologies to meet the targets set by the governments for reducing greenhouse gas emissions. Furthermore, countries such as Japan and South Korea are increasing their investments in innovative energy & fuel generation technologies, such as fuel cells, carbon recycling, and others

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier I–65%, Tier II–24%, and Tier III–11%

By Designation: C-Level–30%, Director Level–25%, and Others–45%

By Region: Asia Pacific–45%, North America–30%, and Europe–25%

Note: “Others” include research scholars, engineers, and technical head

The tier of the companies is defined on the basis of their total revenue as of 2017—Tier 1: USD 1 billion, Tier 2: from USD 1 billion to USD 500 million, and Tier 3:

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