

Electrolyzers Market by Technology (Alkaline, Proton Exchange Membrane (PEM), Solid Oxide Electrolyzer, AEM), Application (Energy, Mobility, Industrial, Grid Injection), Power Rating (2,000 kW), Region - Global Forecast to 2030

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Abstracts

The global electrolyzers market is estimated to grow from USD 0.5 billion in 2023 to USD 57.2 billion by 2030; it is expected to record a CAGR of 97.7% during the forecast period. Growing investments in hydrogen-related infrastructure and projects from both the public and private sectors contribute to the growth of the electrolyzers industry. These investments accelerate the adoption and commercialization of electrolyzer technology. Government subsidies and regulatory frameworks aimed at promoting clean energy technologies further drive the growth of electrolyzers market.

“Alkaline Electrolyzers: The largest segment of the electrolyzers market, by technology
“

Based on Technology, the electrolyzers market has been segmented into alkaline electrolyzers (AE), proton exchange membrane (PEM), solid oxide electrolyzers (SOE), and anion exchange membrane (AEM). The alkaline electrolyzers segment is expected to be the largest segment during the forecast period. Alkaline electrolyzers are experiencing growth as it among the established and commercially proven electrolysis technologies. Hydrogen is being investigated as a clean energy source by industries such as chemicals, refineries, and transportation. Alkaline electrolyzers are crucial in supplying hydrogen to these industries to reduce carbon emissions. According to industry experts, the energy efficiency of devices based on alkaline electrolyzer technology ranges between 55 and 60 percent and is highly dependent on electrolyzer capacity and hydrogen delivery pressure.

“By Power Rating,

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*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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