

Asia Pacific Green Hydrogen Market Forecast to 2030 - Regional Analysis - by Technology (Alkaline Electrolysis and PEM Electrolysis), Renewable Source (Wind Energy and Solar Energy), and End-Use Industry (Chemical, Power, Food & Beverages, Medical, Petrochemicals, and Others)

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Abstracts

The Asia Pacific green hydrogen market is expected to grow from US\$ 1,092.91 million in 2022 to US\$ 25,976.41 by 2030. It is estimated to grow at a CAGR of 48.6% from 2022 to 2030.

Growing Establishment of Large Green Hydrogen Plants Fuels Asia Pacific Green Hydrogen Market

The establishment of large-scale green hydrogen plants attracts significant investments from both the public and private sectors. In June 2023, a group of companies announced their plan to invest US\$ 79.75 in a project for the development of a hydrogen production facility and a hydrogen liquefaction facility in Queensland, Australia. The group of companies includes Iwatani Corporation (Japan), Kansai Electric Power Company (Japan), Marubeni Corporation (Japan), Keppel Infrastructure (Singapore), and Stanwell Corporation (Australia).

Large-sized green hydrogen plants require dedicated infrastructure, including hydrogen production facilities, storage systems, and transportation networks. The establishment of such plants drives the requirement for a robust infrastructure that supports the distribution and utilization of green hydrogen. For instance, in June 2023, Larsen & Toubro announced its plan to set up infrastructure for the world's largest green hydrogen plant in Saudi Arabia, which is being built by NEOM Green Hydrogen Company (NGHC). Thus, a rise in infrastructure development is expected to create a favorable environment for the adoption of green hydrogen in different sectors, which is

likely to offer growth opportunities to the market players during the forecast period.

Asia Pacific Green Hydrogen Market Overview

Asia Pacific is witnessing intense competition among companies aiming to establish green hydrogen production bases, recognizing its potential as a next-generation power source. Leading the charge are Western and regional companies teaming up for massive projects. Danish multinational Orsted, a major offshore wind power company, is exploring entry into the green hydrogen market. The company partnered with South Korean steelmaker POSCO for an offshore wind power project in May 2021. It is studying the feasibility of green hydrogen production. Western oil companies are also making significant investments in the region. For instance, in June 2022, BP became the largest shareholder in the Asian Renewable Energy Hub (AREH) project in Australia, aiming to produce up to 1.6 metric ton of green hydrogen annually and secure a 10% share of the global market.

Asia Pacific Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)

Asia Pacific Green Hydrogen Market Segmentation

The Asia Pacific green hydrogen market is segmented into technology, renewable source, end-use industry, and country.

Based on technology, the Asia Pacific green hydrogen market is bifurcated into alkaline electrolysis and PEM electrolysis. The alkaline electrolysis segment accounted a larger share of the Asia Pacific green hydrogen market in 2022.

By renewable source, the Asia Pacific green hydrogen market is divided into wind energy and solar energy. The solar energy segment held a larger share of the Asia Pacific green hydrogen market in 2022.

By end use, the Asia Pacific green hydrogen market is segmented into chemical, power, food & beverages, medical, petrochemicals, and others. In 2022, the power segment held a largest share of the Asia Pacific green hydrogen market.

Based on country, the Asia Pacific green hydrogen market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific green hydrogen market in 2022.

Air Products & Chemicals Inc, Cummins Inc, Engie SA, L'Air Liquide SA, Linde Plc, Nel ASA, Siemens Energy AG, and Toshiba Energy Systems & Solutions Corp are some of the leading companies operating in the Asia Pacific green hydrogen market.

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