Chemical Merchant Hydrogen Generation Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

Market Report | 2024-08-28 | 100 pages | Global Market Insights

AVAILABLE LICENSES:

- Single User $4850.00
- Multi User $5350.00
- Enterprise User $8350.00

Report description:

The Global Chemical Merchant Hydrogen Generation Market, valued at USD 13.6 billion in 2023, is projected to grow at a CAGR of 7.5% from 2024 to 2032. The demand for clean fuel is expanding into specialty chemicals, electronic materials, and hydrogenation processes, accelerating the adoption of consistent and flexible supply solutions. Technological advancements in SMR and electrolysis methods are enhancing efficiency and reducing costs in hydrogen production.

Investments in SMR innovations and electrolyzer technologies, including proton exchange membrane (PEM) and solid oxide electrolyzers, aim to make hydrogen production cost-effective and scalable. Chemical companies are increasingly sourcing clean energy from specialized suppliers to reduce capital expenditures, operational risks, and management complexities.

Chemical firms are adopting adaptable and scalable delivery models, allowing them to adjust hydrogen supply based on production shifts, seasonal demand changes, or expansions without dedicated production facilities. By focusing on core competencies, many companies are outsourcing hydrogen supply, streamlining operations, and mitigating risks associated with proprietary hydrogen production plants.

The overall chemical merchant hydrogen generation market is classified based on process and region.

The steam reformer segment of the chemical merchant hydrogen generation industry is set to exceed USD 22 billion by 2032. This growth is driven by steam reformers' efficiency, operational reliability, and integration with carbon capture technologies. The demand for cost-effective hydrogen production methods, particularly using natural gas as feedstock, and the extended operational lifespan and low maintenance needs of steam reformers further cement their adoption.

The Asia Pacific region's chemical merchant hydrogen generation market is on track to surpass USD 15.5 billion by 2032. Rapid industrialization and urbanization in countries like China, India, and Southeast Asian nations are increasing the demand for a reliable hydrogen supply. Supportive growth policies, such as China's Hydrogen Energy and Fuel Cell Technology Roadmap and Japan's Basic Hydrogen Strategy, are laying the groundwork for an expansive hydrogen infrastructure. The region's commitment to reducing carbon emissions and increasing clean energy usage will further bolster market growth.

Leading industry players are investing in R&D to enhance hydrogen production technologies, including refining steam reforming processes, developing efficient catalysts, and integrating carbon capture and storage (CCS) technologies. They are also expanding

production capacities to meet the growing hydrogen demand by building new facilities and upgrading existing ones. Additionally, companies are entering new geographic regions to access emerging markets. By establishing production facilities and distribution networks in various regions, they can effectively respond to regional demand variations and reach new customer bases.

Table of Contents:

Chemical Merchant Hydrogen Generation Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

Market Report | 2024-08-28 | 100 pages | Global Market Insights

To place an Order with Scotts International:

- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User	$4850.00
	Multi User	$5350.00
	Enterprise User	$8350.00
	VAT	
	Total	

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	
Zip Code*		Country*	
		Date	2026-03-03
		Signature