

Hydrogen Storage Market 2019: Global Analysis, Share, Trends, Application Analysis and Forecast To 2024

Hydrogen Storage Market, Size, Share, Market Intelligence, Company Profiles And Trends Forecast To 2024

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Description

WGR Research examines the way in which hydrogen storage materials and technologies market is changing and how it has evolved. This analysis includes a detailed survey of new organizations (innovators) in the market as well as existing organizations. At the industry level, WGR Research identifies, examines, describes, and provides global and regional market sizes for 2015 and forecasts demand from 2016 through 2021.

Hydrogen is identified as a key future energy source. However, storing hydrogen can be a challenge and requires development of advanced storage methods. Hence, the hydrogen storage space requires the presence of companies that are specialized in various hydrogen storage technologies. WGR Research defines hydrogen storage technologies as various forms of materials, storage media and technology used to store hydrogen in a form that can be used as energy source as and when required.

Hydrogen can be stored physically or can be stored using chemical or material-based methods. Physical storage currently dominates the market, and in physical form, hydrogen can be stored as either a gas or a liquid. Materials-based hydrogen storage includes metal hydride, chemical hydrogen storage and sorbent materials.

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Hydrogen storage is the key enabling technology for the advancement of hydrogen and fuel cell technologies in various end-user industries such as chemicals, oil refining, metal processing, and transportation. Of these, the chemicals end-user segment accounts for the majority of the market; however, the transportation end-user segment is witnessing the strongest growth in all geographical regions.

To calculate and segment the market, WGR Research has considered physical, chemical and material-based storage technologies for the hydrogen storage market. Along with product and solutions revenue, WGR Research has also considered services revenue that a company reports within its total revenue. The report includes distinct types of companies such as:

- Hydrogen production, fuel cell and hydrogen storage material and technology providers.
- Manufacturers of industrial gases and related products.
- Metal and advanced material manufacturers.
- Others, including storage (such as high-pressure cylinder) suppliers and manufacturers.

However, stand-alone service providers that most often provide post-sales services are out of the scope of this report. Services that are not directly related to hydrogen storage technologies such as education, consulting, training, etc., are beyond the scope of this report. Further, other forms of energy storage providers (companies) are beyond the scope of this report and hence are not covered.

The report begins by introducing the reader to how the market for hydrogen storage materials and technologies has evolved over time and how various factors impact the market. Building on this, the study proceeds to identify the following:

- Primary forces with a direct impact on the hydrogen storage materials and technologies markets.
- Secondary forces that have an indirect impact.
- Key funding and financing in this space.
- Some key challenges that may hinder the growth of this market.
- Key trends visible in the market.
- Leading applications of hydrogen storage technologies, along with leading end-user segments.
- Demand in APAC, North America, Europe, MEA, and South America for hydrogen storage technologies.

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Report Includes:

- An overview of the global markets for hydrogen storage materials technologies.
- Analyses of global market trends, with data from 2015 and 2016, and projections of CAGRs through 2021.
- Analyses of the market by storage type, application, and end user/industry.
- Detailed discussion of the impact of the key trends and key stakeholders in the market.
- In-depth patent analysis of hydrogen storage material technologies that are currently under investigation or new in the market.
- Profiles of manufacturers of hydrogen storage materials technologies.

APAC is the most prominent region in the hydrogen storage materials and technologies market. In APAC, China, Japan, South Korea, Australia, and India are the leading countries in the market. APAC is followed by North America, and the U.S. is the major revenue generating region for the hydrogen storage materials and technologies market in North America. North America is followed by Europe, MEA and South America. APAC and South America (the developing regions) are witnessing the strongest growth. However, South America and MEA have very low penetration compared to other regions.

In the analysis presented in this report, WGR Research identified the following key points:

- Global demand for hydrogen storage materials and technologies market is estimated to have reached \$3.4 billion in 2015.
- Global demand is expected to increase from \$3.6 billion in 2016 to about \$5.4 billion in 2021.
- Total geographically and technology-wide compound annual growth rate (CAGR) is projected to be 8.1% over the forecast period of 2016 through 2021, indicating a strong growth market.

Comprehensive Company Profiles of Major Players in the Industry

Ad-Venta
Air Liquide S.A.
American Elements
Areva S.A.

Cella Energy Ltd
Electro Power Systems S.A.
Enstorage Inc.
Gkn Plc.
Hexagon Composites A.S.A.
Hydrexia Pty. Ltd.
Hydrogen In Motion (H2m)
Hydrogenics
Hydrogenous Technologies GmbH
Hysilabs
Linde Ag
Luxfer Holdings Plc
McpHy Energy S.A.
Plug Power Inc.
Pragma Industries S.A.S.
Praxair Inc.

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Contact Us: Sales@Wiseguyreports.Com Ph: +1-646-845-9349 (Us) Ph: +44 208 133 9349 (Uk)

NORAH TRENT
WISE GUY RESEARCH CONSULTANTS PVT LTD
+1 646-845-9349
[email us here](#)

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