

# Power-to-Gas Market: US\$ 30.27 Billion Growth, Size, and Forecast Overview (2024-2031) | Aquahydrex, Inc., EXYTRON GmbH

*Power-to-gas market size was valued at US\$ 30.27 billion in 2022 and is anticipated to witness a compound annual growth rate (CAGR) of 12.2% from 2024 to 2031*

BURLINGAME, CA, UNITED STATES,  
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EINPresswire.com/ -- The latest market intelligence report published by CMI with the title "Global Power-to-Gas Market 2024, Growth Opportunities, and Forecast" provides actionable insights on Energy industry. The report provides demand analysis, industry insights, competitive intelligence, and customer database.



Power-to-Gas Market Insights

The Research report on Power-to-Gas Market presents a complete judgment of the market through strategic insights on future trends, growth factors, supplier landscape, demand landscape, Y-o-Y growth rate, CAGR, pricing analysis. It also provides and a lot of business matrices including Porters Five Forces Analysis, PESTLE Analysis, Value Chain Analysis, 4 Ps' Analysis, Market Attractiveness Analysis, BPS Analysis, Ecosystem Analysis.

## Key opportunities

### 1. Integration with Renewable Energy Sources

The Power-to-Gas (PtG) technology offers a valuable solution for integrating intermittent renewable energy sources, such as wind and solar, into the energy grid. By converting excess electricity into hydrogen or synthetic natural gas, PtG systems can help balance supply and demand, making it easier to manage fluctuations in renewable energy generation.

### 2. Hydrogen Economy Development

As the global shift towards a hydrogen economy gains momentum, the Power-to-Gas market stands to benefit significantly. Hydrogen produced through PtG can serve as a clean fuel for

transportation, industrial processes, and heating. The increasing focus on decarbonizing sectors such as heavy industry and shipping creates substantial demand for hydrogen, presenting growth opportunities for PtG technologies.

### 3. Energy Storage Solutions

Power-to-Gas systems provide an effective long-term energy storage solution, addressing one of the critical challenges of renewable energy—storage. By converting electricity to gas, these systems can store energy for extended periods, ensuring reliability and security of energy supply. This capability is particularly attractive for utilities and grid operators looking to enhance energy resilience.

### 4. Carbon Neutrality and Emission Reduction Goals

With countries and companies setting ambitious carbon neutrality targets, the Power-to-Gas market offers a pathway to reduce greenhouse gas emissions. PtG technologies can utilize captured carbon dioxide (from industrial processes) to produce synthetic fuels, thus contributing to circular economy initiatives. This alignment with global sustainability goals enhances the attractiveness of PtG projects.

### 5. Government Support and Investment

Many governments are recognizing the importance of PtG technologies in achieving energy transition goals and are providing funding, grants, and favorable policies to encourage development. Investments in research, infrastructure, and pilot projects are creating a supportive environment for the Power-to-Gas market to thrive. Collaborations between public and private sectors can further accelerate market growth.

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\*Note: Sample of the report provides details on the scope and coverage, table of contents, research methodology, and Sample Framework of the report. Actual report of 150+ is available for purchase to all the interested stakeholders.

Detailed Segmentation and Classification of the report (Market Size and Forecast – 2031, Y-o-Y growth rate, and CAGR):

- By Technology:

- Electrolysis

- Alkaline Electrolysis (AEL)

- Polymer Electrolyte Membrane (PEM) Electrolysis

- Solid Oxide Electrolyser Cell (SOEC)

- Methanation

- Catalytic

- Biological

- By Product:

Hydrogen

Methane

- By End User:

Gas Grid

Steel Industry

Transportation

Others

- By Regions and Countries

- o North America

- o Europe

- o Asia-Pacific

- o South America

- o Middle East & Africa

Following are the players analyzed in the report:

- Aquahydrex Inc.

- MAN Energy Solutions

- Electrochaea GmbH

- ITM Power PLC

- EXYTRON GmbH

- Hydrogenics Corporation

- Hitachi Zosen Corporation

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Deep-dive Analysis:

The Report provides deep-dive qualitative and quantitative analysis on Power-to-Gas Market for all the regions and countries covered below:

- North America (the United States, Canada, and Mexico)

- Europe (Germany, France, Italy, United Kingdom, SCANDIVAN, Benelux, Russia, and Rest of Europe)

- Asia-Pacific (Japan, South Korea, India, China, Southeast Asia, and Australia)

- South America (Brazil, Argentina, and Rest of South America)

- Middle East & Africa (Saudi Arabia, UAE, Israel, South Africa, and Rest of the Middle East & Africa)

- Each Country is covered in detail, and report provides qualitative and quantitative analysis on Power-to-Gas Market on each country.

The research provides answers to the following key questions:

1. What is the estimated growth rate of the market for the forecast period 2024-2031? What will be the market size during the estimated period?
2. What are the key driving forces responsible for shaping the fate of the Power-to-Gas market during the forecast period?
3. Who are the major market vendors and what are the winning strategies that have helped them occupy a strong foothold in the Power-to-Gas market?
4. What are the prominent market trends influencing the development of the Power-to-Gas market across different regions?
5. What are the major threats and challenges likely to act as a barrier in the growth of the Power-to-Gas market?
6. What are the major opportunities the market leaders can rely on to gain success and profitability?

Key insights provided by the report that could help you take critical strategic decisions?

- Regional report analysis highlighting the consumption of products/services in a region also shows the factors that influence the market in each region.
- Reports provide opportunities and threats faced by suppliers in the Power-to-Gas and tubes industry around the world.
- The report shows regions and sectors with the fastest growth potential.
- A competitive environment that includes market rankings of major companies, along with new product launches, partnerships, business expansions, and acquisitions.
- The report provides an extensive corporate profile consisting of company overviews, company insights, product benchmarks, and SWOT analysis for key market participants.
- This report provides the industry's current and future market outlook on the recent development, growth opportunities, drivers, challenges, and two regional constraints emerging in advanced regions.

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Author of this marketing PR:

Priya Pandey is a dynamic and passionate PR writer with over three years of expertise in content writing and proofreading. Holding a bachelor's degree in biotechnology, Priya has a knack for making the content engaging. Her diverse portfolio includes writing contents and documents across different industries, including food and beverages, information and technology, healthcare, chemical and materials, etc. Priya's meticulous attention to detail and commitment

to excellence make her an invaluable asset in the world of content creation and refinement.

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#### □ Contact Us:

Mr. Shah

Coherent Market Insights Pvt. Ltd.

+1 206-701-6702

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