

Global GDL for Water Electrolyzer Market Growth 2024-2030

<https://marketpublishers.com/r/G4DC78A5BFCAEN.html>

Date: July 2024

Pages: 116

Price: US\$ 3,660.00 (Single User License)

ID: G4DC78A5BFCAEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

A porous transport layer, sometimes referred to as gas diffusion layer (GDL) or current collector, has multiple functionalities that influence performance and durability of the electrochemical device. When it comes to electrolysis, the process of splitting water into hydrogen and oxygen using an electrical current, it's important to have an effective gas diffusion layer. This is a layer that helps to evenly distribute the gases produced during electrolysis and enables the efficient operation of the electrolyzer. The gas diffusion layer is typically made of a porous material, such as carbon paper or metal net. This material allows the gases produced during electrolysis to pass through and be distributed evenly. The gas diffusion layer is placed on top of the electrolyte, which is a substance that conducts electricity and enables the electrolysis reaction to occur.

The global GDL for Water Electrolyzer market size is projected to grow from US\$ 278 million in 2024 to US\$ 5688 million in 2030; it is expected to grow at a CAGR of 65.4% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "GDL for Water Electrolyzer Industry Forecast" looks at past sales and reviews total world GDL for Water Electrolyzer sales in 2023, providing a comprehensive analysis by region and market sector of projected GDL for Water Electrolyzer sales for 2024 through 2030. With GDL for Water Electrolyzer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GDL for Water Electrolyzer industry.

This Insight Report provides a comprehensive analysis of the global GDL for Water

Electrolyzer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on GDL for Water Electrolyzer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GDL for Water Electrolyzer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GDL for Water Electrolyzer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global GDL for Water Electrolyzer.

Global key players of GDL for Water Electrolyzer include Bekaert, MeliCon GmbH, Toray, etc. The top three players hold a share over 28%. North America is the largest market, with a share about 68%. In terms of product type, Titanium Felt Type is the largest segment, occupied for a share of 91%. In terms of application, Electrolyzer above MW has a share about 53 percent.

This report presents a comprehensive overview, market shares, and growth opportunities of GDL for Water Electrolyzer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Carbon Paper Type

Titanium Felt Type

Others

Segmentation by Application:

Electrolyzers below MW

Electrolyzer above MW

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Bekaert

MeliCon GmbH

Toray

Toho Titanium

Stanford Advanced Materials

AvCarb

ZheJiang JiuYu Technology

Zhejiang Filter Technology

SGL

CeTech

JNTG

Key Questions Addressed in this Report

What is the 10-year outlook for the global GDL for Water Electrolyzer market?

What factors are driving GDL for Water Electrolyzer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do GDL for Water Electrolyzer market opportunities vary by end market size?

How does GDL for Water Electrolyzer break out by Type, by Application?

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