

Global Electrolyzer Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Electrolyzer market size will reach 392.12 Million USD in 2025 and is projected to reach 1,202.43 Million USD by 2032, with a CAGR of 17.36% (2025-2032). Notably, the China Electrolyzer market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

An electrolyzer is an electrochemical device that employs electrical energy to facilitate the splitting of water (H₂O) into its constituent elements, hydrogen (H₂) and oxygen (O₂), through a process known as electrolysis. It consists of two electrodes submerged in an electrolyte solution, typically water with an electrolyte like potassium hydroxide, and when an electric current is applied, water molecules are dissociated into hydrogen ions and hydroxide ions. Hydrogen gas is generated at the cathode, while oxygen gas is produced at the anode. Electrolyzers play a crucial role in the production of clean and sustainable hydrogen fuel, which is valuable for various applications, including fuel cells, energy storage, and transportation, as it offers an environmentally friendly alternative to fossil fuels and can contribute to reducing greenhouse gas emissions when generated using renewable energy sources.

The major global manufacturers of Electrolyzer include Cummins, Teledyne Energy Systems, Suzhou Jingli, McPhy, TianJin Mainland, Siemens, Nel Hydrogen, Toshiba, Yangzhou Chungdean Hydrogen Equipment, Elogen, ITM Power, Idroenergy Spa,

Erredue SpA, Kobelco Eco-Solutions, ShaanXi HuaQin, EM Solution, Beijing Zhongdian, H2B2, Elchemtech, Verde LLC, Shandong Saksay Hydrogen Energy, ELB Elektrolyse technik GmbH, Asahi Kasei, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Electrolyzer. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Electrolyzer market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Electrolyzer market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Electrolyzer industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Electrolyzer Include:

Cummins

Teledyne Energy Systems

Suzhou Jingli

McPhy

TianJin Mainland

Siemens

Nel Hydrogen

Toshiba

Yangzhou Chungdean Hydrogen Equipment

Elogen

ITM Power

Idroenergy Spa

Erredue SpA

Kobelco Eco-Solutions

ShaanXi HuaQin

EM Solution

Beijing Zhongdian

H2B2

Elchemtech

Verde LLC

Shandong Saksay Hydrogen Energy

ELB Elektrolyse technik GmbH

Asahi Kasei

Electrolyzer Product Segment Include:

Traditional Alkaline Electroliser

PEM Electroliser

Electrolyzer Product Application Include:

Power Plants

Steel Plant

Electronics and Photovoltaics

Industrial Gases

Energy Storage or Fueling for FCEV's

Power to Gas

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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