

Electrodialysis Equipment Industry Research Report 2024

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Abstracts

Electrodialysis (ED) is used in seawater desalination to produce salt, food, pharmaceutical, laboratory and recycling environments and others fields. ED is a Laboratory membrane separation process in which ions are transported through ion-permeable membranes, from one stream to another, under the influence of a voltage potential gradient. Two types of membranes are used: cationic-exchange membranes only allow cations to transport, and anion-exchange membranes only allow anions through. These membranes are impermeable to liquids. A large number of alternating cation and anion-exchange membranes are assembled to form diluate and concentrate compartments in what is known as an electrodialysis stack.

Electrodialysis (ED) is used to transport salt ions from one solution through ion-exchange membranes to another solution under the influence of an applied electric potential difference. This is done in a configuration called an electrodialysis cell. The cell consists of a feed (dilute) compartment and a concentrate (brine) compartment formed by an anion exchange membrane and a cation exchange membrane placed between two electrodes. In almost all practical electrodialysis processes, multiple electrodialysis cells are arranged into a configuration called an electrodialysis with alternating anion and cation exchange membranes forming the multiple electrodialysis cells.

According to APO Research, The global Electrodialysis Equipment market was valued at US\$ million in 2023 and is anticipated to reach US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

Global Electrodialysis Equipment key players include Evoqua Water Technologies LLC, GE Water & Process Technologies, EURODIA, etc. Global top three manufacturers hold a share about 30%.

Europe is the largest market, with a share over 20%, followed by United States and China, both have a share over 35 percent.

In terms of product, Continuous Electrodialysis is the largest segment, with a share over 55%. And in terms of application, the largest application is Seawater Desalination, followed by Foods/Pharmaceutical, Recycling Environments, Laboratory, etc.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Electrodialysis Equipment, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Electrodialysis Equipment.

The report will help the Electrodialysis Equipment manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, by Type, by Application, and by regions.

The Electrodialysis Equipment market size, estimations, and forecasts are provided in terms of sales volume (Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Electrodialysis Equipment market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period

2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

PCCell GmbH

Evoqua Water Technologies LLC

GE Water & Process Technologies

C-Tech Innovation Ltd

ASTOM

AGC ENGINEERING

FuMA-Tech

Hangzhou Iontech Environmental Technology Co

EURODIA

Saltworks Technologies Inc

Electrosynthesis Company

WGM Sistemas

Doromil

Innovative Enterprise

Shandong Tianwei Membrane Technology

Electrodialysis Equipment segment by Type

Continuous Electrodialysis

Batch Electrodialysis

Electrodialysis Equipment segment by Application

Seawater Desalination

Foods/Pharmaceutical

Recycling Environments

Laboratory

Others

Electrodialysis Equipment Segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players.

This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Electrodialysis Equipment market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Electrodialysis Equipment and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market

5. This report helps stakeholders to gain insights into which regions to target globally

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Electrodialysis Equipment.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different

market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Electrodialysis Equipment manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Electrodialysis Equipment by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Electrodialysis Equipment in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

Chapter 11: The main points and conclusions of the report.

Contents

1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
 - 1.5.1 Secondary Sources
 - 1.5.2 Primary Sources

2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Electrodialysis Equipment by Type
 - 2.2.1 Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.2.2 Continuous Electrodialysis
 - 2.2.3 Batch Electrodialysis
- 2.3 Electrodialysis Equipment by Application
 - 2.3.1 Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.3.2 Seawater Desalination
 - 2.3.3 Foods/Pharmaceutical
 - 2.3.4 Recycling Environments
 - 2.3.5 Laboratory
 - 2.3.6 Others
- 2.4 Global Market Growth Prospects
 - 2.4.1 Global Electrodialysis Equipment Production Value Estimates and Forecasts (2019-2030)
 - 2.4.2 Global Electrodialysis Equipment Production Capacity Estimates and Forecasts (2019-2030)
 - 2.4.3 Global Electrodialysis Equipment Production Estimates and Forecasts (2019-2030)
 - 2.4.4 Global Electrodialysis Equipment Market Average Price (2019-2030)

3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Electrodialysis Equipment Production by Manufacturers (2019-2024)

- 3.2 Global Electrodialysis Equipment Production Value by Manufacturers (2019-2024)
- 3.3 Global Electrodialysis Equipment Average Price by Manufacturers (2019-2024)
- 3.4 Global Electrodialysis Equipment Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Electrodialysis Equipment Key Manufacturers, Manufacturing Sites & Headquarters
- 3.6 Global Electrodialysis Equipment Manufacturers, Product Type & Application
- 3.7 Global Electrodialysis Equipment Manufacturers, Date of Enter into This Industry
- 3.8 Global Electrodialysis Equipment Market CR5 and HHI
- 3.9 Global Manufacturers Mergers & Acquisition

4 MANUFACTURERS PROFILED

4.1 PCCell GmbH

- 4.1.1 PCCell GmbH Electrodialysis Equipment Company Information

- 4.1.2 PCCell GmbH Electrodialysis Equipment Business Overview

- 4.1.3 PCCell GmbH Electrodialysis Equipment Production, Value and Gross Margin (2019-2024)

- 4.1.4 PCCell GmbH Product Portfolio

- 4.1.5 PCCell GmbH Recent Developments

4.2 Evoqua Water Technologies LLC

- 4.2.1 Evoqua Water Technologies LLC Electrodialysis Equipment Company Information

- 4.2.2 Evoqua Water Technologies LLC Electrodialysis Equipment Business Overview

- 4.2.3 Evoqua Water Technologies LLC Electrodialysis Equipment Production, Value and Gross Margin (2019-2024)

- 4.2.4 Evoqua Water Technologies LLC Product Portfolio

- 4.2.5 Evoqua Water Technologies LLC Recent Developments

4.3 GE Water & Process Technologies

- 4.3.1 GE Water & Process Technologies Electrodialysis Equipment Company Information

- 4.3.2 GE Water & Process Technologies Electrodialysis Equipment Business Overview

- 4.3.3 GE Water & Process Technologies Electrodialysis Equipment Production, Value and Gross Margin (2019-2024)

- 4.3.4 GE Water & Process Technologies Product Portfolio

- 4.3.5 GE Water & Process Technologies Recent Developments

4.4 C-Tech Innovation Ltd

- 4.4.1 C-Tech Innovation Ltd Electrodialysis Equipment Company Information

- 4.4.2 C-Tech Innovation Ltd Electrodialysis Equipment Business Overview
- 4.4.3 C-Tech Innovation Ltd Electrodialysis Equipment Production, Value and Gross Margin (2019-2024)
- 4.4.4 C-Tech Innovation Ltd Product Portfolio
- 4.4.5 C-Tech Innovation Ltd Recent Developments
- 4.5 ASTOM
 - 4.5.1 ASTOM Electrodialysis Equipment Company Information
 - 4.5.2 ASTOM Electrodialysis Equipment Business Overview
 - 4.5.3 ASTOM Electrodialysis Equipment Production, Value and Gross Margin (2019-2024)
 - 4.5.4 ASTOM Product Portfolio
 - 4.5.5 ASTOM Recent Developments
- 4.6 AGC ENGINEERING
 - 4.6.1 AGC ENGINEERING Electrodialysis Equipment Company Information
 - 4.6.2 AGC ENGINEERING Electrodialysis Equipment Business Overview
 - 4.6.3 AGC ENGINEERING Electrodialysis Equipment Production, Value and Gross Margin (2019-2024)
 - 4.6.4 AGC ENGINEERING Product Portfolio
 - 4.6.5 AGC ENGINEERING Recent Developments
- 4.7 FuMA-Tech
 - 4.7.1 FuMA-Tech Electrodialysis Equipment Company Information
 - 4.7.2 FuMA-Tech Electrodialysis Equipment Business Overview
 - 4.7.3 FuMA-Tech Electrodialysis Equipment Production, Value and Gross Margin (2019-2024)
 - 4.7.4 FuMA-Tech Product Portfolio
 - 4.7.5 FuMA-Tech Recent Developments
- 4.8 Hangzhou Iontech Environmental Technology Co
 - 4.8.1 Hangzhou Iontech Environmental Technology Co Electrodialysis Equipment Company Information
 - 4.8.2 Hangzhou Iontech Environmental Technology Co Electrodialysis Equipment Business Overview
 - 4.8.3 Hangzhou Iontech Environmental Technology Co Electrodialysis Equipment Production, Value and Gross Margin (2019-2024)
 - 4.8.4 Hangzhou Iontech Environmental Technology Co Product Portfolio
 - 4.8.5 Hangzhou Iontech Environmental Technology Co Recent Developments
- 4.9 EURODIA
 - 4.9.1 EURODIA Electrodialysis Equipment Company Information
 - 4.9.2 EURODIA Electrodialysis Equipment Business Overview
 - 4.9.3 EURODIA Electrodialysis Equipment Production, Value and Gross Margin

(2019-2024)

4.9.4 EURODIA Product Portfolio

4.9.5 EURODIA Recent Developments

4.10 Saltworks Technologies Inc

4.10.1 Saltworks Technologies Inc Electrolysis Equipment Company Information

4.10.2 Saltworks Technologies Inc Electrolysis Equipment Business Overview

4.10.3 Saltworks Technologies Inc Electrolysis Equipment Production, Value and Gross Margin (2019-2024)

4.10.4 Saltworks Technologies Inc Product Portfolio

4.10.5 Saltworks Technologies Inc Recent Developments

4.11 Electrosynthesis Company

4.11.1 Electrosynthesis Company Electrolysis Equipment Company Information

4.11.2 Electrosynthesis Company Electrolysis Equipment Business Overview

4.11.3 Electrosynthesis Company Electrolysis Equipment Production, Value and Gross Margin (2019-2024)

4.11.4 Electrosynthesis Company Product Portfolio

4.11.5 Electrosynthesis Company Recent Developments

4.12 WGM Sistemas

4.12.1 WGM Sistemas Electrolysis Equipment Company Information

4.12.2 WGM Sistemas Electrolysis Equipment Business Overview

4.12.3 WGM Sistemas Electrolysis Equipment Production, Value and Gross Margin (2019-2024)

4.12.4 WGM Sistemas Product Portfolio

4.12.5 WGM Sistemas Recent Developments

4.13 Doromil

4.13.1 Doromil Electrolysis Equipment Company Information

4.13.2 Doromil Electrolysis Equipment Business Overview

4.13.3 Doromil Electrolysis Equipment Production, Value and Gross Margin (2019-2024)

4.13.4 Doromil Product Portfolio

4.13.5 Doromil Recent Developments

4.14 Innovative Enterprise

4.14.1 Innovative Enterprise Electrolysis Equipment Company Information

4.14.2 Innovative Enterprise Electrolysis Equipment Business Overview

4.14.3 Innovative Enterprise Electrolysis Equipment Production, Value and Gross Margin (2019-2024)

4.14.4 Innovative Enterprise Product Portfolio

4.14.5 Innovative Enterprise Recent Developments

4.15 Shandong Tianwei Membrane Technology

4.15.1 Shandong Tianwei Membrane Technology Electrodialysis Equipment Company Information

4.15.2 Shandong Tianwei Membrane Technology Electrodialysis Equipment Business Overview

4.15.3 Shandong Tianwei Membrane Technology Electrodialysis Equipment Production, Value and Gross Margin (2019-2024)

4.15.4 Shandong Tianwei Membrane Technology Product Portfolio

4.15.5 Shandong Tianwei Membrane Technology Recent Developments

5 GLOBAL ELECTRODIALYSIS EQUIPMENT PRODUCTION BY REGION

5.1 Global Electrodialysis Equipment Production Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

5.2 Global Electrodialysis Equipment Production by Region: 2019-2030

5.2.1 Global Electrodialysis Equipment Production by Region: 2019-2024

5.2.2 Global Electrodialysis Equipment Production Forecast by Region (2025-2030)

5.3 Global Electrodialysis Equipment Production Value Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

5.4 Global Electrodialysis Equipment Production Value by Region: 2019-2030

5.4.1 Global Electrodialysis Equipment Production Value by Region: 2019-2024

5.4.2 Global Electrodialysis Equipment Production Value Forecast by Region (2025-2030)

5.5 Global Electrodialysis Equipment Market Price Analysis by Region (2019-2024)

5.6 Global Electrodialysis Equipment Production and Value, YOY Growth

5.6.1 North America Electrodialysis Equipment Production Value Estimates and Forecasts (2019-2030)

5.6.2 Europe Electrodialysis Equipment Production Value Estimates and Forecasts (2019-2030)

5.6.3 China Electrodialysis Equipment Production Value Estimates and Forecasts (2019-2030)

5.6.4 Japan Electrodialysis Equipment Production Value Estimates and Forecasts (2019-2030)

5.6.5 Brazil Electrodialysis Equipment Production Value Estimates and Forecasts (2019-2030)

6 GLOBAL ELECTRODIALYSIS EQUIPMENT CONSUMPTION BY REGION

6.1 Global Electrodialysis Equipment Consumption Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

6.2 Global Electrodialysis Equipment Consumption by Region (2019-2030)

6.2.1 Global Electrodialysis Equipment Consumption by Region: 2019-2030

6.2.2 Global Electrodialysis Equipment Forecasted Consumption by Region (2025-2030)

6.3 North America

6.3.1 North America Electrodialysis Equipment Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.3.2 North America Electrodialysis Equipment Consumption by Country (2019-2030)

6.3.3 U.S.

6.3.4 Canada

6.4 Europe

6.4.1 Europe Electrodialysis Equipment Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.4.2 Europe Electrodialysis Equipment Consumption by Country (2019-2030)

6.4.3 Germany

6.4.4 France

6.4.5 U.K.

6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific Electrodialysis Equipment Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.5.2 Asia Pacific Electrodialysis Equipment Consumption by Country (2019-2030)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa Electrodialysis Equipment Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.6.2 Latin America, Middle East & Africa Electrodialysis Equipment Consumption by Country (2019-2030)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

7 SEGMENT BY TYPE

7.1 Global Electrodialysis Equipment Production by Type (2019-2030)

7.1.1 Global Electrodialysis Equipment Production by Type (2019-2030) & (Units)

7.1.2 Global Electrodialysis Equipment Production Market Share by Type (2019-2030)

7.2 Global Electrodialysis Equipment Production Value by Type (2019-2030)

7.2.1 Global Electrodialysis Equipment Production Value by Type (2019-2030) & (US\$ Million)

7.2.2 Global Electrodialysis Equipment Production Value Market Share by Type (2019-2030)

7.3 Global Electrodialysis Equipment Price by Type (2019-2030)

8 SEGMENT BY APPLICATION

8.1 Global Electrodialysis Equipment Production by Application (2019-2030)

8.1.1 Global Electrodialysis Equipment Production by Application (2019-2030) & (Units)

8.1.2 Global Electrodialysis Equipment Production by Application (2019-2030) & (Units)

8.2 Global Electrodialysis Equipment Production Value by Application (2019-2030)

8.2.1 Global Electrodialysis Equipment Production Value by Application (2019-2030) & (US\$ Million)

8.2.2 Global Electrodialysis Equipment Production Value Market Share by Application (2019-2030)

8.3 Global Electrodialysis Equipment Price by Application (2019-2030)

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

9.1 Electrodialysis Equipment Value Chain Analysis

9.1.1 Electrodialysis Equipment Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Electrodialysis Equipment Production Mode & Process

9.2 Electrodialysis Equipment Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Electrodialysis Equipment Distributors

9.2.3 Electrodialysis Equipment Customers

10 GLOBAL ELECTRODIALYSIS EQUIPMENT ANALYZING MARKET DYNAMICS

10.1 Electrolysis Equipment Industry Trends

10.2 Electrolysis Equipment Industry Drivers

10.3 Electrolysis Equipment Industry Opportunities and Challenges

10.4 Electrolysis Equipment Industry Restraints

11 REPORT CONCLUSION

12 DISCLAIMER

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