

Electrolyzers Market by Technology (Alkaline, Proton Exchange Membrane (PEM), Solid Oxide Electrolyzer, AEM), Application (Energy, Mobility, Industrial, Grid Injection), Power Rating (2,000 kW), Region - Global Forecast to 2030

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Abstracts

The global electrolyzers market is estimated to grow from USD 0.5 billion in 2023 to USD 57.2 billion by 2030; it is expected to record a CAGR of 97.7% during the forecast period. Growing investments in hydrogen-related infrastructure and projects from both the public and private sectors contribute to the growth of the electrolyzers industry. These investments accelerate the adoption and commercialization of electrolyzer technology. Government subsidies and regulatory frameworks aimed at promoting clean energy technologies further drive the growth of electrolyzers market.

“Alkaline Electrolyzers: The largest segment of the electrolyzers market, by technology
“

Based on Technology, the electrolyzers market has been segmented into alkaline electrolyzers (AE), proton exchange membrane (PEM), solid oxide electrolyzers (SOE), and anion exchange membrane (AEM). The alkaline electrolyzers segment is expected to be the largest segment during the forecast period. Alkaline electrolyzers are experiencing growth as it among the established and commercially proven electrolysis technologies. Hydrogen is being investigated as a clean energy source by industries such as chemicals, refineries, and transportation. Alkaline electrolyzers are crucial in supplying hydrogen to these industries to reduce carbon emissions. According to industry experts, the energy efficiency of devices based on alkaline electrolyzer technology ranges between 55 and 60 percent and is highly dependent on electrolyzer capacity and hydrogen delivery pressure.

“By Power Rating,

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 ELECTROLYZERS MARKET: SEGMENTATION

1.3.2 REGIONAL SCOPE

1.3.3 YEARS CONSIDERED

1.3.4 CURRENCY CONSIDERED

1.3.5 UNITS CONSIDERED

1.4 LIMITATIONS

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

1.7 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 ELECTROLYZERS MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of primary interviews

FIGURE 3 BREAKDOWN OF PRIMARIES

2.2 DATA TRIANGULATION

FIGURE 4 DATA TRIANGULATION METHODOLOGY

2.3 MARKET SIZE ESTIMATION

2.3.1 BOTTOM-UP APPROACH

FIGURE 5 ELECTROLYZERS MARKET: BOTTOM-UP APPROACH

2.3.2 TOP-DOWN APPROACH

FIGURE 6 ELECTROLYZERS MARKET: TOP-DOWN APPROACH

2.3.3 DEMAND-SIDE ANALYSIS

FIGURE 7 KEY METRICS CONSIDERED TO ANALYZE DEMAND FOR ELECTROLYZERS

2.3.3.1 Demand-side assumptions

2.3.3.2 Demand-side calculations

TABLE 1 GLOBAL MARKET SIZE ESTIMATION, BY TECHNOLOGY, 2022

2.3.4 SUPPLY-SIDE ANALYSIS

FIGURE 8 KEY METRICS CONSIDERED TO ASSESS SUPPLY OF ELECTROLYZERS

FIGURE 9 ELECTROLYZERS MARKET: SUPPLY-SIDE ANALYSIS

2.3.4.1 Supply-side assumptions

FIGURE 10 ELECTROLYZERS MARKET: MARKET SHARE ANALYSIS

2.4 FORECAST ASSUMPTIONS

2.5 RESEARCH LIMITATIONS

2.6 RISK ASSESSMENT

2.7 IMPACT OF RECESSION ON ELECTROLYZERS MARKET

3 EXECUTIVE SUMMARY

TABLE 2 ELECTROLYZERS MARKET SNAPSHOT

FIGURE 11 ALKALINE ELECTROLYZER SEGMENT TO DOMINATE ELECTROLYZERS MARKET, BY TECHNOLOGY, IN 2030

FIGURE 12 MOBILITY SEGMENT TO LEAD ELECTROLYZERS MARKET, BY APPLICATION, IN 2030

FIGURE 13 2,000 KW SEGMENT ACCOUNTED FOR LARGEST SHARE OF ELECTROLYZERS MARKET IN 2022

4.6 ELECTROLYZERS MARKET IN EUROPE, BY APPLICATION AND COUNTRY

FIGURE 20 MOBILITY APPLICATIONS AND GERMANY DOMINATED ELECTROLYZERS MARKET IN EUROPE IN 2022

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 21 ELECTROLYZERS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Favorable government initiatives and policies supporting green hydrogen production

5.2.1.2 Substantial financial support by public and private investors

5.2.1.3 Growing demand for green ammonia as sustainable fuel for power generation

5.2.2 RESTRAINTS

5.2.2.1 Limited availability of platinum group metals (PGMs)

TABLE 3 GLOBAL SHARES OF CRITICAL MATERIALS

5.2.2.2 Intermittency of renewable energy sources

5.2.3 OPPORTUNITIES

5.2.3.1 Increasing campaigns to achieve net zero and meet electrolyzer installation targets

5.2.3.2 Rising deployment of electrolyzers in onsite hydrogen refueling stations (HRS)

5.2.4 CHALLENGES

5.2.4.1 Lack of necessary infrastructure to bolster hydrogen markets

5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 22 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.4 SUPPLY CHAIN ANALYSIS

FIGURE 23 ELECTROLYZERS MARKET: SUPPLY CHAIN ANALYSIS

5.4.1 RAW MATERIAL PROVIDERS

5.4.2 PROCESSED MATERIAL PROVIDERS

5.4.3 SUBCOMPONENT PROVIDERS

5.4.4 ELECTROLYZER MANUFACTURERS

5.4.5 END USERS

TABLE 4 ROLE OF PARTICIPANTS IN ELECTROLYZERS ECOSYSTEM

5.5 ECOSYSTEM/MARKET MAP

FIGURE 24 ELECTROLYZERS MARKET MAP

5.6 TECHNOLOGY ANALYSIS

5.7 PATENT ANALYSIS

FIGURE 25 ELECTROLYZERS MARKET: PATENTS APPLIED AND GRANTED, 2012–2022

5.7.1 LIST OF MAJOR PATENTS

TABLE 5 ELECTROLYZERS: INNOVATIONS AND PATENT REGISTRATIONS, AUGUST 2018–NOVEMBER 2022

5.8 REGULATORY LANDSCAPE

5.8.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 6 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 7 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 8 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 9 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND

OTHER ORGANIZATIONS

5.8.2 ELECTROLYZERS MARKET: REGULATORY FRAMEWORK

TABLE 10 ELECTROLYZERS MARKET: REGULATORY FRAMEWORK, BY REGION

5.9 KEY CONFERENCES AND EVENTS

TABLE 11 ELECTROLYZERS MARKET: LIST OF KEY CONFERENCES AND EVENTS, 2023–2024

5.10 TRADE ANALYSIS

5.10.1 EXPORT SCENARIO

TABLE 12 EXPORT DATA FOR HS CODE 280410-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2022 (USD THOUSAND)

FIGURE 26 EXPORT DATA FOR HS CODE 280410-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2022 (USD THOUSAND)

5.10.2 IMPORT SCENARIO

TABLE 13 IMPORT DATA FOR HS CODE 280410-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2022 (USD THOUSAND)

FIGURE 27 IMPORT DATA FOR HS CODE 280410-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2022 (USD THOUSAND)

5.11 PRICING ANALYSIS

5.11.1 INDICATIVE PRICING ANALYSIS, BY TECHNOLOGY

TABLE 14 INDICATIVE PRICING ANALYSIS, BY TECHNOLOGY, 2022 (USD/KW)

5.11.2 AVERAGE SELLING PRICE TREND, BY REGION

TABLE 15 AVERAGE SELLING PRICE TREND, BY REGION, 2020–2023 (USD/KW)

5.12 CASE STUDY ANALYSIS

5.12.1 RWE PRODUCED HYDROGEN ON LARGE SCALE USING SUNFIRE'S ELECTROLYZER SYSTEM

5.12.2 STORAGE AND TRANSPORTATION OF RENEWABLE ENERGY FROM OFFSHORE TO ONSHORE IN NORTHWESTERN EUROPE AND UK

5.12.3 NATIONAL RENEWABLE ENERGY LABORATORY DEVELOPED HIGH-PERFORMANCE ELECTROLYZER COMPONENTS IN COLLABORATION WITH ELECTRIC HYDROGEN

5.13 PORTER'S FIVE FORCES ANALYSIS

FIGURE 28 ELECTROLYZERS MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 16 ELECTROLYZERS MARKET: PORTER'S FIVE FORCES ANALYSIS

5.13.1 THREAT OF SUBSTITUTES

5.13.2 BARGAINING POWER OF SUPPLIERS

5.13.3 BARGAINING POWER OF BUYERS

5.13.4 THREAT OF NEW ENTRANTS

5.13.5 INTENSITY OF COMPETITIVE RIVALRY

5.14 KEY STAKEHOLDERS AND BUYING CRITERIA

5.14.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 29 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE APPLICATIONS

TABLE 17 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE APPLICATIONS (%)

5.14.2 BUYING CRITERIA

FIGURE 30 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS

TABLE 18 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS

5.15 TECHNO-ECONOMIC ROADMAP FOR ELECTROLYZERS

5.16 CHINA VS. GLOBAL COMPETITIVE LANDSCAPE, BY ELECTROLYZER MANUFACTURING CAPACITY

6 ELECTROLYZERS MARKET, BY TECHNOLOGY

6.1 INTRODUCTION

FIGURE 31 ELECTROLYZERS MARKET SHARE, BY TECHNOLOGY, 2022 (%)

TABLE 19 ELECTROLYZERS MARKET, BY TECHNOLOGY, 2020–2022 (KW)

TABLE 20 ELECTROLYZERS MARKET, BY TECHNOLOGY, 2023–2030 (KW)

TABLE 21 ELECTROLYZERS MARKET, BY TECHNOLOGY, 2020–2022 (USD MILLION)

TABLE 22 ELECTROLYZERS MARKET, BY TECHNOLOGY, 2023–2030 (USD MILLION)

6.2 ALKALINE ELECTROLYZER (AE)

6.2.1 PREFERENCE FOR MATURE AND COST-EFFECTIVE TECHNOLOGY TO CONTRIBUTE TO SEGMENTAL GROWTH

TABLE 23 ALKALINE ELECTROLYZER (AE): ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 24 ALKALINE ELECTROLYZER (AE): ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 25 ALKALINE ELECTROLYZER (AE): ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 26 ALKALINE ELECTROLYZER (AE): ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

6.3 PROTON EXCHANGE MEMBRANE (PEM)

6.3.1 HIGH FLEXIBILITY AND ABILITY TO COUPLE WITH DYNAMIC AND INTERMITTENT RENEWABLE ENERGY SOURCES TO DRIVE SEGMENTAL GROWTH

TABLE 27 PROTON EXCHANGE MEMBRANE (PEM): ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 28 PROTON EXCHANGE MEMBRANE (PEM): ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 29 PROTON EXCHANGE MEMBRANE (PEM): ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 30 PROTON EXCHANGE MEMBRANE (PEM): ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

6.4 SOLID OXIDE ELECTROLYZER (SOE)

6.4.1 GROWING NEED FOR ENERGY-EFFICIENT EQUIPMENT IN HYDROGEN PRODUCTION TO FOSTER SEGMENTAL GROWTH

TABLE 31 SOLID OXIDE ELECTROLYZER (SOE): ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 32 SOLID OXIDE ELECTROLYZER (SOE): ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 33 SOLID OXIDE ELECTROLYZER (SOE): ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 34 SOLID OXIDE ELECTROLYZER (SOE): ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

6.5 ANION EXCHANGE MEMBRANE (AEM)

6.5.1 ADVANTAGES SUCH AS SUSTAINABLE AND LOW-COST HYDROGEN PRODUCTION TO PROPEL SEGMENTAL GROWTH

TABLE 35 ANION EXCHANGE MEMBRANE (AEM): ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 36 ANION EXCHANGE MEMBRANE (AEM): ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 37 ANION EXCHANGE MEMBRANE (AEM): ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 38 ANION EXCHANGE MEMBRANE (AEM): ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

7 ELECTROLYZERS MARKET, BY POWER RATING

7.1 INTRODUCTION

FIGURE 32 ELECTROLYZERS MARKET SHARE, BY POWER RATING, 2022 (%)

TABLE 39 ELECTROLYZERS MARKET, BY POWER RATING, 2020–2022 (USD MILLION)

TABLE 40 ELECTROLYZERS MARKET, BY POWER RATING, 2023–2030 (USD MILLION)

7.2 2,000 KW

7.4.1 SURGING INVESTMENTS IN HIGH-CAPACITY HYDROGEN GENERATION

PLANTS TO FUEL MARKET GROWTH

8 ELECTROLYZERS MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 33 ELECTROLYZERS MARKET, BY APPLICATION, 2022 (%)

TABLE 41 ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (KW)

TABLE 42 ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (KW)

TABLE 43 ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 44 ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

8.2 ENERGY

TABLE 45 ENERGY: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 46 ENERGY: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 47 ENERGY: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 48 ENERGY: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

TABLE 49 ENERGY: ELECTROLYZERS MARKET, BY TYPE, 2020–2022 (KW)

TABLE 50 ENERGY: ELECTROLYZERS MARKET, BY TYPE, 2023–2030 (KW)

TABLE 51 ENERGY: ELECTROLYZERS MARKET, BY TYPE, 2020–2022 (USD MILLION)

TABLE 52 ENERGY: ELECTROLYZERS MARKET, BY TYPE, 2023–2030 (USD MILLION)

8.2.1 POWER GENERATION

8.2.1.1 Increasing use of green hydrogen to store excess energy generated from renewable energy sources to drive segmental growth

8.2.2 COMBINED HEAT AND POWER (CHP)

8.2.2.1 Shift toward green hydrogen-based CHP plants to reduce emissions to contribute to segmental growth

8.3 MOBILITY

8.3.1 RISING GOVERNMENT INVESTMENTS SUPPORTING TRANSITION TO CLEAN FUELS TO FUEL MARKET GROWTH

TABLE 53 MOBILITY: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 54 MOBILITY: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 55 MOBILITY: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 56 MOBILITY: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

MILLION)

8.4 INDUSTRIAL

TABLE 57 INDUSTRIAL: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 58 INDUSTRIAL: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 59 INDUSTRIAL: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 60 INDUSTRIAL: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

TABLE 61 INDUSTRIAL: ELECTROLYZERS MARKET, BY TYPE, 2020–2022 (KW)

TABLE 62 INDUSTRIAL: ELECTROLYZERS MARKET, BY TYPE, 2023–2030 (KW)

TABLE 63 INDUSTRIAL: ELECTROLYZERS MARKET, BY TYPE, 2020–2022 (USD MILLION)

TABLE 64 INDUSTRIAL: ELECTROLYZERS MARKET, BY TYPE, 2023–2030 (USD MILLION)

8.4.1 CHEMICALS INDUSTRY

8.4.1.1 Growing demand for green ammonia and methanol to propel segmental growth

8.4.2 OTHER INDUSTRIES

8.5 GRID INJECTION

8.5.1 INCREASED PENETRATION OF RENEWABLES IN ENERGY SYSTEMS TO FOSTER MARKET GROWTH

TABLE 65 GRID INJECTION: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 66 GRID INJECTION: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 67 GRID INJECTION: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 68 GRID INJECTION: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

9 ELECTROLYZERS MARKET, BY REGION

9.1 INTRODUCTION

FIGURE 34 EUROPE ACCOUNTED FOR LARGEST SHARE OF ELECTROLYZERS MARKET IN 2022

TABLE 69 ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 70 ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 71 ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 72 ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

9.2 EUROPE

FIGURE 35 EUROPE: ELECTROLYZERS MARKET SNAPSHOT

9.2.1 IMPACT OF RECESSION ON ELECTROLYZERS MARKET IN EUROPE

9.2.2 EUROPE: ELECTROLYZERS PROJECT LIST

TABLE 73 EUROPE: ELECTROLYZERS PROJECT LIST

9.2.3 BY TECHNOLOGY

TABLE 74 EUROPE: ELECTROLYZERS MARKET, BY TECHNOLOGY, 2020–2022 (USD MILLION)

TABLE 75 EUROPE: ELECTROLYZERS MARKET, BY TECHNOLOGY, 2023–2030 (USD MILLION)

9.2.4 BY APPLICATION

TABLE 76 EUROPE: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 77 EUROPE: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.2.5 BY COUNTRY

TABLE 78 EUROPE: ELECTROLYZERS MARKET, BY COUNTRY, 2020–2022 (KW)

TABLE 79 EUROPE: ELECTROLYZERS MARKET, BY COUNTRY, 2023–2030 (KW)

TABLE 80 EUROPE: ELECTROLYZERS MARKET, BY COUNTRY, 2020–2022 (USD MILLION)

TABLE 81 EUROPE: ELECTROLYZERS MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

9.2.5.1 Germany

9.2.5.1.1 Ongoing large-scale green hydrogen projects to propel market

TABLE 82 GERMANY: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 83 GERMANY: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.2.5.2 UK

9.2.5.2.1 Rise in electrolyzer manufacturing capacity to drive market

TABLE 84 UK: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 85 UK: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.2.5.3 France

9.2.5.3.1 Rising government focus on hydrogen R&D projects to fuel market growth

TABLE 86 FRANCE: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 87 FRANCE: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030

(USD MILLION)

9.2.5.4 Denmark

9.2.5.4.1 Substantial efforts to decarbonize mobility sector to support market growth

TABLE 88 DENMARK: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022

(USD MILLION)

TABLE 89 DENMARK: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030

(USD MILLION)

9.2.5.5 Austria

9.2.5.5.1 Strong focus on decarbonizing steel and chemicals industries to foster market growth

TABLE 90 AUSTRIA: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022

(USD MILLION)

TABLE 91 AUSTRIA: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030

(USD MILLION)

9.2.5.6 Netherlands

9.2.5.6.1 Availability of subsidies to enhance electrolyzer capacity to fuel market growth

TABLE 92 NETHERLANDS: ELECTROLYZERS MARKET, BY APPLICATION,

2020–2022 (USD MILLION)

TABLE 93 NETHERLANDS: ELECTROLYZERS MARKET, BY APPLICATION,

2023–2030 (USD MILLION)

9.2.5.7 Norway

9.2.5.7.1 Accelerated demand for electrolyzers for industrial applications to drive market

TABLE 94 NORWAY: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022

(USD MILLION)

TABLE 95 NORWAY: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030

(USD MILLION)

9.2.5.8 Rest of Europe

TABLE 96 REST OF EUROPE: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 97 REST OF EUROPE: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.3 NORTH AMERICA

9.3.1 IMPACT OF RECESSION ON ELECTROLYZERS MARKET IN NORTH AMERICA

9.3.2 NORTH AMERICA: ELECTROLYZERS PROJECT LIST

TABLE 98 NORTH AMERICA: ELECTROLYZERS PROJECT LIST

9.3.3 BY TECHNOLOGY

TABLE 99 NORTH AMERICA: ELECTROLYZERS MARKET, BY TECHNOLOGY, 2020–2022 (USD MILLION)

TABLE 100 NORTH AMERICA: ELECTROLYZERS MARKET, BY TECHNOLOGY, 2023–2030 (USD MILLION)

9.3.4 BY APPLICATION

TABLE 101 NORTH AMERICA: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 102 NORTH AMERICA: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.3.5 BY COUNTRY

TABLE 103 NORTH AMERICA: ELECTROLYZERS MARKET, BY COUNTRY, 2020–2022 (KW)

TABLE 104 NORTH AMERICA: ELECTROLYZERS MARKET, BY COUNTRY, 2023–2030 (KW)

TABLE 105 NORTH AMERICA: ELECTROLYZERS MARKET, BY COUNTRY, 2020–2022 (USD MILLION)

TABLE 106 NORTH AMERICA: ELECTROLYZERS MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

9.3.5.1 US

9.3.5.1.1 National Hydrogen Strategy to support market growth

TABLE 107 US: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 108 US: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.3.5.2 Canada

9.3.5.2.1 Presence of hydro-powered electrolyzer facilities to contribute to market growth

TABLE 109 CANADA: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 110 CANADA: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.4 ASIA PACIFIC

FIGURE 36 ASIA PACIFIC: ELECTROLYZERS MARKET SNAPSHOT

9.4.1 IMPACT OF RECESSION ON ELECTROLYZERS MARKET IN ASIA PACIFIC

9.4.2 ELECTROLYZERS PROJECT LIST IN ASIA PACIFIC

TABLE 111 ASIA PACIFIC: ELECTROLYZERS PROJECT LIST

9.4.3 BY TECHNOLOGY

TABLE 112 ASIA PACIFIC: ELECTROLYZERS MARKET, BY TECHNOLOGY, 2020–2022 (USD MILLION)

TABLE 113 ASIA PACIFIC: ELECTROLYZERS MARKET, BY TECHNOLOGY, 2023–2030 (USD MILLION)

9.4.4 BY APPLICATION

TABLE 114 ASIA PACIFIC: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 115 ASIA PACIFIC: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.4.5 BY COUNTRY

TABLE 116 ASIA PACIFIC: ELECTROLYZERS MARKET, BY COUNTRY, 2020–2022 (KW)

TABLE 117 ASIA PACIFIC: ELECTROLYZERS MARKET, BY COUNTRY, 2023–2030 (KW)

TABLE 118 ASIA PACIFIC: ELECTROLYZERS MARKET, BY COUNTRY, 2020–2022 (USD MILLION)

TABLE 119 ASIA PACIFIC: ELECTROLYZERS MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

9.4.5.1 China

9.4.5.1.1 Increasing investments in large-scale projects and low-cost of electrolyzers to propel market

TABLE 120 CHINA: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 121 CHINA: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.4.5.2 Japan

9.4.5.2.1 Rising number of hydrogen refueling stations and hydrogen vehicles to drive market

TABLE 122 JAPAN: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 123 JAPAN: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.4.5.3 Australia

9.4.5.3.1 Implementation of National Hydrogen Strategy to boost market growth

TABLE 124 AUSTRALIA: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 125 AUSTRALIA: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.4.5.4 Rest of Asia Pacific

TABLE 126 REST OF ASIA PACIFIC: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 127 REST OF ASIA PACIFIC: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.5 ROW

9.5.1 IMPACT OF RECESSION ON ELECTROLYZERS MARKET IN ROW

9.5.2 ROW: ELECTROLYZERS PROJECT LIST

TABLE 128 ROW: ELECTROLYZERS PROJECT LIST

9.5.3 BY TECHNOLOGY

TABLE 129 ROW: ELECTROLYZERS MARKET, BY TECHNOLOGY, 2020–2022 (USD MILLION)

TABLE 130 ROW: ELECTROLYZERS MARKET, BY TECHNOLOGY, 2023–2030 (USD MILLION)

9.5.4 BY APPLICATION

TABLE 131 ROW: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 132 ROW: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.5.5 BY COUNTRY

TABLE 133 ROW: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (KW)

TABLE 134 ROW: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (KW)

TABLE 135 ROW: ELECTROLYZERS MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 136 ROW: ELECTROLYZERS MARKET, BY REGION, 2023–2030 (USD MILLION)

9.5.5.1 Egypt

9.5.5.1.1 Rising government investments in green hydrogen projects to contribute to market growth

TABLE 137 EGYPT: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 138 EGYPT: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.5.5.2 GCC countries

9.5.5.2.1 Saudi Arabia

9.5.5.2.1.1 Implementation of national hydrogen strategy to boost demand

TABLE 139 SAUDI ARABIA: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 140 SAUDI ARABIA: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.5.5.2.2 Other GCC countries

TABLE 141 OTHER GCC COUNTRIES: ELECTROLYZERS MARKET, BY

APPLICATION, 2020–2022 (USD MILLION)

TABLE 142 OTHER GCC COUNTRIES: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

9.5.5.3 Other countries

TABLE 143 OTHER COUNTRIES: ELECTROLYZERS MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 144 OTHER COUNTRIES: ELECTROLYZERS MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 145 KEY DEVELOPMENTS IN ELECTROLYZERS MARKET, 2019–2023

10.1.1 PRODUCT PORTFOLIO

10.1.2 REGIONAL FOCUS

10.1.3 STRATEGIC DEVELOPMENT/PARTNERSHIP

10.1.4 INVESTMENT AND EXPANSION/PRODUCT LAUNCH

10.2 MARKET SHARE ANALYSIS OF KEY PLAYERS

TABLE 146 ELECTROLYZERS MARKET: DEGREE OF COMPETITION

FIGURE 37 MARKET SHARE ANALYSIS OF TOP PLAYERS, 2022

10.3 MARKET EVALUATION FRAMEWORK

TABLE 147 MARKET EVALUATION FRAMEWORK, 2019–2023

10.4 FIVE-YEAR REVENUE ANALYSIS OF TOP MARKET PLAYERS

FIGURE 38 ELECTROLYZERS MARKET: REVENUE ANALYSIS OF TOP MARKET PLAYERS, 2018–2022

10.5 COMPANY EVALUATION MATRIX

10.5.1 STARS

10.5.2 EMERGING LEADERS

10.5.3 PERVASIVE PLAYERS

10.5.4 PARTICIPANTS

FIGURE 39 ELECTROLYZERS MARKET: COMPANY EVALUATION MATRIX, 2022

10.6 COMPANY FOOTPRINT

TABLE 148 TECHNOLOGY FOOTPRINT: KEY PLAYERS

TABLE 149 APPLICATION FOOTPRINT: KEY PLAYERS

TABLE 150 POWER RATING FOOTPRINT: KEY PLAYERS

TABLE 151 REGION FOOTPRINT: KEY PLAYERS

TABLE 152 OVERALL COMPANY FOOTPRINT: KEY PLAYERS

10.7 START-UPS/SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) EVALUATION MATRIX

10.7.1 PROGRESSIVE COMPANIES

10.7.2 RESPONSIVE COMPANIES

10.7.3 DYNAMIC COMPANIES

10.7.4 STARTING BLOCKS

FIGURE 40 ELECTROLYZERS MARKET: START-UPS/SMES EVALUATION MATRIX, 2022

10.8 COMPETITIVE BENCHMARKING

TABLE 153 ELECTROLYZERS MARKET: LIST OF KEY START-UPS/SMES

TABLE 154 TECHNOLOGY COMPETITIVE BENCHMARKING: START-UPS/SMES

10.9 RECENT DEVELOPMENTS

10.9.1 DEALS

TABLE 155 ELECTROLYZERS MARKET: DEALS, 2019–2023

10.9.2 PRODUCT LAUNCHES

TABLE 156 ELECTROLYZERS MARKET: PRODUCT LAUNCHES, 2019–2023

10.9.3 OTHERS

TABLE 157 ELECTROLYZERS MARKET: OTHERS, 2019–2023

11 COMPANY PROFILES

11.1 KEY PLAYERS

(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

11.1.1 THYSSENKRUPP NUCERA

TABLE 158 THYSSENKRUPP NUCERA: COMPANY OVERVIEW

FIGURE 41 THYSSENKRUPP NUCERA: COMPANY SNAPSHOT

TABLE 159 THYSSENKRUPP NUCERA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 160 THYSSENKRUPP NUCERA: PRODUCT/SOLUTION/SERVICE SPECIFICATIONS

TABLE 161 THYSSENKRUPP NUCERA: DEALS

TABLE 162 THYSSENKRUPP NUCERA: OTHERS

11.1.2 JOHN COCKERILL

TABLE 163 JOHN COCKERILL: COMPANY OVERVIEW

TABLE 164 JOHN COCKERILL: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 165 JOHN COCKERILL: PRODUCT/SOLUTION/SERVICE SPECIFICATIONS

TABLE 166 JOHN COCKERILL: DEALS

TABLE 167 JOHN COCKERILL: OTHERS

11.1.3 NEL ASA

TABLE 170 NEL ASA: PRODUCT/SOLUTION/SERVICE SPECIFICATIONS

TABLE 171 NEL ASA: PRODUCT LAUNCHES

TABLE 172 NEL ASA: DEALS

TABLE 173 NEL ASA: OTHERS

11.1.4 SIEMENS ENERGY

TABLE 174 SIEMENS ENERGY: COMPANY OVERVIEW

FIGURE 43 SIEMENS ENERGY: COMPANY SNAPSHOT

TABLE 175 SIEMENS ENERGY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 176 SIEMENS ENERGY: PRODUCT/SOLUTION/SERVICE SPECIFICATIONS

TABLE 177 SIEMENS ENERGY: DEALS

TABLE 178 SIEMENS ENERGY: OTHERS

11.1.5 PLUG POWER INC.

TABLE 179 PLUG POWER INC.: COMPANY OVERVIEW

TABLE 180 PLUG POWER INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 181 PLUG POWER INC.: PRODUCT/SOLUTION/SERVICE SPECIFICATIONS

TABLE 182 PLUG POWER INC.: DEALS

TABLE 183 PLUG POWER INC.: OTHERS

11.1.6 ENAPTER S.R.L.

TABLE 184 ENAPTER S.R.L.: COMPANY OVERVIEW

FIGURE 45 ENAPTER S.R.L.: COMPANY SNAPSHOT

TABLE 185 ENAPTER S.R.L.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 186 ENAPTER S.R.L.: PRODUCT/SOLUTION/SERVICE SPECIFICATIONS

TABLE 187 ENAPTER S.R.L.: PRODUCT LAUNCHES

TABLE 188 ENAPTER S.R.L.: DEALS

TABLE 189 ENAPTER S.R.L.: OTHERS

11.1.7 CUMMINS INC.

TABLE 190 CUMMINS INC.: COMPANY OVERVIEW

FIGURE 46 CUMMINS INC.: COMPANY SNAPSHOT

TABLE 191 CUMMINS INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 192 CUMMINS INC.: DEALS

TABLE 193 CUMMINS INC.: OTHERS

11.1.8 ITM POWER PLC

TABLE 194 ITM POWER PLC: COMPANY OVERVIEW

FIGURE 47 ITM POWER PLC: COMPANY SNAPSHOT

TABLE 195 ITM POWER PLC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 196 ITM POWER PLC: DEALS

TABLE 197 ITM POWER PLC: OTHERS

11.1.9 MCPHY ENERGY S.A.

TABLE 198 MCPHY ENERGY S.A.: COMPANY OVERVIEW

FIGURE 48 MCPHY ENERGY S.A.: COMPANY SNAPSHOT

TABLE 199 MCPHY ENERGY S.A.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 200 MCPHY ENERGY S.A.: DEALS

TABLE 201 MCPHY ENERGY S.A.: OTHERS

11.1.10 PERIC HYDROGEN TECHNOLOGIES CO., LTD

TABLE 202 PERIC HYDROGEN TECHNOLOGIES CO., LTD.: COMPANY OVERVIEW

TABLE 203 PERIC HYDROGEN TECHNOLOGIES CO., LTD.:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 204 PERIC HYDROGEN TECHNOLOGIES CO., LTD.: DEALS

11.1.11 LONGI

TABLE 205 LONGI: COMPANY OVERVIEW

FIGURE 49 LONGI: COMPANY SNAPSHOT

TABLE 206 LONGI: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 207 LONGI: PRODUCT LAUNCHES

TABLE 208 LONGI: DEALS

TABLE 209 LONGI: OTHERS

11.1.12 SUNFIRE GMBH

TABLE 210 SUNFIRE GMBH: COMPANY OVERVIEW

TABLE 211 SUNFIRE GMBH: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 212 SUNFIRE GMBH: DEALS

TABLE 213 SUNFIRE GMBH: OTHERS

11.1.13 BLOOM ENERGY

TABLE 214 BLOOM ENERGY: COMPANY OVERVIEW

TABLE 215 BLOOM ENERGY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 216 BLOOM ENERGY: PRODUCT/SOLUTION/SERVICE SPECIFICATIONS

TABLE 217 BLOOM ENERGY: DEALS

TABLE 218 BLOOM ENERGY: OTHERS

11.1.14 H-TEC SYSTEMS GMBH

TABLE 219 H-TEC SYSTEMS GMBH: COMPANY OVERVIEW

TABLE 220 H-TEC SYSTEMS GMBH: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 221 H-TEC SYSTEMS GMBH: PRODUCT LAUNCHES

TABLE 222 H-TEC SYSTEMS GMBH: DEALS

TABLE 223 H-TEC SYSTEMS GMBH: OTHERS

11.1.15 BEIJING SINOHY ENERGY CO., LTD

TABLE 224 BEIJING SINOHY ENERGY CO., LTD.: COMPANY OVERVIEW

TABLE 225 BEIJING SINOHY ENERGY CO., LTD.:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 226 BEIJING SINOHY ENERGY CO., LTD.: DEALS

11.1.16 ASAHI KASEI CORPORATION

TABLE 227 ASAHI KASEI CORPORATION: COMPANY OVERVIEW

FIGURE 51 ASAHI KASEI CORPORATION: COMPANY SNAPSHOT

TABLE 228 ASAHI KASEI CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 229 ASAHI KASEI CORPORATION: DEALS

TABLE 230 ASAHI KASEI CORPORATION: OTHERS

11.1.17 NEXT HYDROGEN

TABLE 231 NEXT HYDROGEN: COMPANY OVERVIEW

FIGURE 52 NEXT HYDROGEN: COMPANY SNAPSHOT

TABLE 232 NEXT HYDROGEN: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 233 NEXT HYDROGEN: DEALS

TABLE 234 NEXT HYDROGEN: OTHERS

11.2 OTHER PLAYERS

11.2.1 OXEON ENERGY, LLC

11.2.2 GREEN HYDROGEN SYSTEMS

11.2.3 ERRE DUE S.P.A.

11.2.4 HYDROGENPRO

11.2.5 IGAS ENERGY GMBH

11.2.6 TOPSOE

11.2.7 H2E POWER

11.2.8 OHMIUM

*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

12 APPENDIX

12.1 INSIGHTS FROM INDUSTRY EXPERTS

12.2 DISCUSSION GUIDE

12.3 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

12.4 CUSTOMIZATION OPTIONS

12.5 RELATED REPORTS

12.6 AUTHOR DETAILS

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