

Power-to-gas Market by technology (Electrolysis and Methanation), Capacity (Less than 100 kW, 100–999kW, 1000 kW and Above), End-User (Commercial, Utilities, and Industrial), and Region (North America, Europe, Asia Pacific) - Global Forecast to 2024

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Abstracts

The power-to-gas market is expected to reach USD 42 million by 2024, at a CAGR of 10.1% from 2019 to 2024

The global power-to-gas market is projected to reach USD 42 million by 2024 from an estimated USD 26 million in 2019, at a CAGR of 10.1% during the forecast period. There is an increase in need of effective utilization of renewable energy sources and also integrated the management of power and gas network. Power-to-gas technology plays a vital role by effectively managing the excess renewable energy and converting it to hydrogen. It hence offers opportunities for the potential use of hydrogen in mobility solutions as well as as a natural gas substitute.

“Electrolysis technology of Power-to-gas dominate the global market”

The electrolysis segment of the power-to-gas market is expected to be the largest market, by technology, during the forecast period The growth of the market is driven by the electrolysis technologies ability to store excess renewable energy from solar and wind during peak hour generation for meeting future peak demands.

“1000 kW and Above segment power-to-gas dominate the global market “

The 1000 kW and Above segment, by capacity is estimated to be the fastest-growing during the forecast period. This growth is attributed to the increasing demand for hydrogen for electricity, and new vehicle technologies such as fuel cell-based transportation.

“Europe to lead the global power-to-gas market in terms of growth rate.”

The power-to-gas market in Europe is projected to grow at the fastest rate during the forecast period. Growing power-to-gas projects dominate the market in countries such as Germany, France, Denmark, and the Netherlands for effective utilization of renewable energy sources, predominantly wind energy.

Besides Europe, North America was one of the largest markets for power-to-gas. The demand for power-to-gas in North America is driven mainly by the demand for hydrogen for commercial applications such as fuel cell transportation.

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier I–55%, Tier II–13%, and Tier III–15%

By Designation: C-Level–60%, Director Level–20%, and Others–20%

By Region: Europe- 73%, North America- 18%, Asia Pacific- 9%

Note: Others includes sales managers, marketing managers, product managers, and product engineers.

The tier of the companies is defined on the basis of their total revenue as of 2017; Tier 1: USD 1 billion, Tier 2: from USD 1 billion to USD 500 million, and Tier 3:

Contents

1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

1.2 DEFINITION

1.2.1 POWER-TO-GAS MARKET, BY TECHNOLOGY: INCLUSIONS & EXCLUSIONS

1.2.2 POWER-TO-GAS MARKET, BY END-USER: INCLUSIONS & EXCLUSIONS

1.3 MARKET SCOPE

1.3.1 MARKET SEGMENTATION

1.3.2 YEARS CONSIDERED FOR THE STUDY

1.4 CURRENCY

1.5 LIMITATIONS

1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

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 Break-up of primaries

2.2 SCOPE

2.3 MARKET SIZE ESTIMATION

2.3.1 DEMAND-SIDE ANALYSIS

2.3.1.1 Key Assumptions

2.3.1.2 Calculation

2.3.2 FORECAST

2.3.3 SUPPLY-SIDE ANALYSIS

2.3.3.1 Assumptions and Calculations

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN THE POWER-TO-GAS MARKET

4.2 POWER-TO-GAS MARKET, BY REGION

4.3 POWER-TO-GAS MARKET, BY TECHNOLOGY

- 4.4 EUROPE POWER-TO-GAS MARKET, BY CAPACITY & COUNTRY
- 4.5 POWER-TO-GAS MARKET, BY END-USER

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

- 5.2.1.1 Effective utilization of renewable energy resources
- 5.2.1.2 Integrated management of power & gas networks

5.2.2 RESTRAINTS

- 5.2.2.1 High capital cost of power-to-gas systems
- 5.2.2.2 Low efficiency and energy loss

5.2.3 OPPORTUNITIES

- 5.2.3.1 Potential use of hydrogen in mobility solutions
- 5.2.3.2 Hydrogen can be used as a substitute for natural gas

5.2.4 CHALLENGES

- 5.2.4.1 Regulation limit for hydrogen blending in the natural gas network
- 5.2.4.2 Availability of low-cost natural gas and battery technologies

6 POWER-TO-GAS MARKET, BY TECHNOLOGY

6.1 INTRODUCTION

6.2 ELECTROLYSIS

6.2.1 GROWING DEMAND FOR GREEN HYDROGEN IS DRIVING THE MARKET

- 6.2.1.1 Alkaline water electrolysis
- 6.2.1.2 PEM
- 6.2.1.3 SOEC

6.3 METHANATION

6.3.1 GROWING DEMAND FOR SNG IS DRIVING THE MARKET

- 6.3.1.1 Chemical
- 6.3.1.2 Biological

7 POWER-TO-GAS MARKET, BY CAPACITY

7.1 INTRODUCTION

7.2 1,000 KW AND ABOVE

7.2.1 METHANATION OF HYDROGEN FOR ENERGY TRANSITION IS EXPECTED TO DRIVE THIS SEGMENT

7.3 100–999 KW

7.3.1 FOCUS ON HYDROGEN BLENDING WITH NATURAL GAS IS DRIVING THIS SEGMENT

7.4 LESS THAN 100 KW

7.4.1 MAJORITY OF THE POWER-TO-GAS PILOT DEMONSTRATION PROJECTS ARE DRIVING THIS SEGMENT

8 POWER-TO-GAS MARKET, BY END-USER

8.1 INTRODUCTION

8.2 UTILITIES

8.2.1 NATURAL GAS BLENDING AND RENEWABLE ENERGY INTEGRATION ARE EXPECTED TO DRIVE THE UTILITIES SEGMENT

8.3 INDUSTRIAL

8.3.1 HYDROGEN USED FOR FEEDSTOCK PURPOSE AND IN OIL & GAS REFINERIES IS DRIVING THE INDUSTRIAL SEGMENT

8.4 COMMERCIAL

8.4.1 FUEL CELL BASED TRANSPORT AND USE OF HYDROGEN FOR COMMERCIAL SPACE HEATING ARE DRIVING THE COMMERCIAL SEGMENT

9 POWER-TO-GAS MARKET, BY REGION

9.1 INTRODUCTION

9.2 EUROPE

9.2.1 BY TECHNOLOGY

9.2.2 BY CAPACITY

9.2.3 BY END-USER

9.2.4 BY COUNTRY

9.2.4.1 Germany

9.2.4.1.1 Need to integrate fluctuating renewable energy sources and increase flexibility of grid operations is driving the market

9.2.4.2 UK

9.2.4.2.1 Growing demand for hydrogen as a substitute for natural gas is driving the demand for power-to-gas technologies

9.2.4.3 France

9.2.4.3.1 Need to decarbonize gas and power networks is driving the demand for power-to-gas technology

9.2.4.4 Denmark

9.2.4.4.1 High share of wind power and well-developed subsidies drive the power-to-

gas projects

9.2.4.5 The Netherlands

9.2.4.5.1 Need to reduce natural gas consumption and produce green hydrogen is driving the market

9.2.4.6 Switzerland

9.2.4.6.1 Support for solar PV expansion is driving the power-to-gas market

9.2.4.7 Rest of Europe

9.2.4.7.1 Need for large-scale energy storage projects is driving the power-to-gas market

9.3 NORTH AMERICA

9.3.1 BY TECHNOLOGY

9.3.2 BY CAPACITY

9.3.3 BY END-USER

9.3.4 BY COUNTRY

9.3.4.1 US

9.3.4.1.1 Need for operational flexibility and demand for hydrogen in commercial sector are driving the market

9.3.4.2 Canada

9.3.4.2.1 Low-carbon fuel standard and need for grid regulation services are driving the market

9.4 ASIA PACIFIC

9.4.1 BY TECHNOLOGY

9.4.2 BY CAPACITY

9.4.3 BY END-USER

9.4.4 BY COUNTRY

9.4.4.1 China

9.4.4.1.1 Hydrogen economy initiatives are driving the power-to-gas market

9.4.4.2 Japan

9.4.4.2.1 Need for grid stability and development of a hydrogen economy are driving the market

9.4.4.3 Australia

9.4.4.3.1 Hydrogen export opportunities are driving the power-to-gas market

9.4.4.4 Rest of Asia Pacific

9.4.4.4.1 Support policies for renewable energy generation are driving the power-to-gas market

10 COMPETITIVE LANDSCAPE

10.1 INTRODUCTION

- 10.2 MARKET SHARE ANALYSIS
- 10.3 COMPETITIVE SCENARIO
 - 10.3.1 CONTRACTS & AGREEMENTS
 - 10.3.2 MERGERS & ACQUISITIONS
 - 10.3.3 NEW PRODUCT DEVELOPMENTS
 - 10.3.4 OTHERS
- 10.4 COMPETITIVE LEADERSHIP MAPPING
 - 10.4.1 VISIONARY LEADERS
 - 10.4.2 INNOVATORS
 - 10.4.3 DYNAMIC
 - 10.4.4 EMERGING

11 COMPANY PROFILE

(Business Overview, Offerings, Recent Developments, SWOT Analysis, and MnM View)*

- 11.1 HYDROGENICS
- 11.2 ITM POWER
- 11.3 MCPHY ENERGY
- 11.4 SIEMENS
- 11.5 MAN ENERGY SOLUTIONS
- 11.6 NEL HYDROGEN
- 11.7 THYSSENKRUPP
- 11.8 ELECTROCHAEA
- 11.9 EXYTRON
- 11.10 GREENHYDROGEN
- 11.11 HITACHI ZOSEN INOVA ETOGAS
- 11.12 INERATEC
- 11.13 SOCALGAS
- 11.14 UNIPER
- 11.15 MICROPYROS
- 11.16 CARBOTECH
- 11.17 POWER-TO-GAS HUNGARY
- 11.18 AQUAHYDREX
- 11.19 FUELCELL ENERGY
- 11.20 AVACON

*Details on Business Overview, Offerings, Recent Developments, SWOT Analysis, and MnM View might not be captured in case of unlisted companies.

12 APPENDIX

12.1 INSIGHTS OF INDUSTRY EXPERTS

12.2 DISCUSSION GUIDE

12.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

12.4 AVAILABLE CUSTOMIZATIONS

12.5 RELATED REPORTS

12.6 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 POWER-TO-GAS MARKET SNAPSHOT

TABLE 2 AMOUNT OF HYDROGEN DIRECTLY INJECTED INTO THE GAS NETWORK ACCORDING TO THE LEGAL REGULATIONS (%)

TABLE 3 ENERGY PRICES IN COUNTRIES (USD/UNIT) – 2018

TABLE 4 POWER-TO-GAS MARKET, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 5 ELECTROLYSIS: GLOBAL POWER-TO-GAS MARKET, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 6 ELECTROLYSIS: EUROPE POWER-TO-GAS MARKET, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 7 ELECTROLYSIS: NORTH AMERICA POWER-TO-GAS MARKET, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 8 ELECTROLYSIS: ASIA PACIFIC POWER-TO-GAS MARKET, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 9 METHANATION: GLOBAL POWER-TO-GAS MARKET, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 10 METHANATION: EUROPE POWER-TO-GAS MARKET, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 11 METHANATION: NORTH AMERICA POWER-TO-GAS MARKET, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 12 METHANATION: ASIA PACIFIC POWER-TO-GAS MARKET, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 13 POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2019–2024 (USD THOUSAND)

TABLE 14 1,000 KW AND ABOVE: POWER-TO-GAS MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 15 EUROPE: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 16 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 17 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 18 100–999 KW: POWER-TO-GAS MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 19 EUROPE: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024

(USD THOUSAND)

TABLE 20 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 21 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 22 LESS THAN 100 KW: POWER-TO-GAS MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 23 EUROPE: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 24 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 25 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 26 POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 27 UTILITIES: POWER-TO-GAS MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 28 EUROPE: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 29 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 30 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 31 INDUSTRIAL: POWER-TO-GAS MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 32 EUROPE: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 33 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 34 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 35 COMMERCIAL: POWER-TO-GAS MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 36 EUROPE: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 37 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 38 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 39 POWER-TO-GAS MARKET, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 40 EUROPE: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 41 EUROPE: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 42 EUROPE: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 43 EUROPE: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 44 GERMANY: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 45 GERMANY: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 46 GERMANY: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024 (USD THOUSAND)

TABLE 47 GERMANY: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 48 GERMANY: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 49 THE UK: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 50 THE UK: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 51 THE UK: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024 (USD THOUSAND)

TABLE 52 THE UK: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 53 THE UK: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 54 FRANCE: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 55 FRANCE: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 56 FRANCE: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024 (USD THOUSAND)

TABLE 57 FRANCE: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 58 FRANCE: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 59 DENMARK: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 60 DENMARK: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 61 DENMARK: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024 (USD THOUSAND)

TABLE 62 DENMARK: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 63 DENMARK: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 64 THE NETHERLANDS: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 65 THE NETHERLANDS: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 66 THE NETHERLANDS: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024 (USD THOUSAND)

TABLE 67 THE NETHERLANDS: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 68 THE NETHERLANDS: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 69 SWITZERLAND: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 70 SWITZERLAND: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 71 SWITZERLAND: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024 (USD THOUSAND)

TABLE 72 SWITZERLAND: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 73 SWITZERLAND: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 74 REST OF EUROPE: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 75 REST OF EUROPE: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 76 REST OF EUROPE: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024 (USD THOUSAND)

TABLE 77 REST OF EUROPE: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 78 REST OF EUROPE: POWER-TO-GAS MARKET SIZE, BY END-USER,

2017–2024 (USD THOUSAND)

TABLE 79 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 80 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 81 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 82 NORTH AMERICA: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 83 US: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 84 US: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 85 US: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024 (USD THOUSAND)

TABLE 86 US: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 87 US: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 88 CANADA: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 89 CANADA: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 90 CANADA: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024 (USD THOUSAND)

TABLE 91 CANADA: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 92 CANADA: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 93 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 94 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 95 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024 (USD THOUSAND)

TABLE 96 ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 97 CHINA: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 98 CHINA: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS, 2017–2024
(USD THOUSAND)

TABLE 99 CHINA: POWER-TO-GAS MARKET SIZE, BY METHANATION, 2017–2024
(USD THOUSAND)

TABLE 100 CHINA: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024
(USD THOUSAND)

TABLE 101 CHINA: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024
(USD THOUSAND)

TABLE 102 JAPAN: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY, 2017–2024
(USD THOUSAND)

TABLE 103 JAPAN: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS,
2017-2024 (USD THOUSAND)

TABLE 104 JAPAN: POWER-TO-GAS MARKET SIZE, BY METHANATION,
2017–2024 (USD THOUSAND)

TABLE 105 JAPAN: POWER-TO-GAS MARKET SIZE, BY CAPACITY, 2017–2024
(USD THOUSAND)

TABLE 106 JAPAN: POWER-TO-GAS MARKET SIZE, BY END-USER, 2017–2024
(USD THOUSAND)

TABLE 107 AUSTRALIA: POWER-TO-GAS MARKET SIZE, BY TECHNOLOGY,
2017–2024 (USD THOUSAND)

TABLE 108 AUSTRALIA: POWER-TO-GAS MARKET SIZE, BY ELECTROLYSIS,
2017–2024 (USD THOUSAND)

TABLE 109 AUSTRALIA: POWER-TO-GAS MARKET SIZE, BY METHANATION,
2017–2024 (USD THOUSAND)

TABLE 110 AUSTRALIA: POWER-TO-GAS MARKET SIZE, BY CAPACITY,
2017–2024 (USD THOUSAND)

TABLE 111 AUSTRALIA: POWER-TO-GAS MARKET SIZE, BY END-USER,
2017–2024 (USD THOUSAND)

TABLE 112 REST OF ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY
TECHNOLOGY, 2017–2024 (USD THOUSAND)

TABLE 113 REST OF ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY
ELECTROLYSIS, 2017–2024 (USD THOUSAND)

TABLE 114 REST OF ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY
METHANATION, 2017–2024 (USD THOUSAND)

TABLE 115 REST OF ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY
CAPACITY, 2017–2024 (USD THOUSAND)

TABLE 116 REST OF ASIA PACIFIC: POWER-TO-GAS MARKET SIZE, BY END-
USER, 2017–2024 (USD THOUSAND)

TABLE 117 DEVELOPMENTS BY KEY PLAYERS IN THE MARKET, MAY

2015–AUGUST 2019

List Of Figures

LIST OF FIGURES

FIGURE 1 POWER-TO-GAS MARKET: RESEARCH DESIGN

FIGURE 2 MAIN METRICS CONSIDERED WHILE CONSTRUCTING AND ASSESSING

THE DEMAND FOR THE POWER-TO-GAS MARKET

FIGURE 3 YEAR-ON-YEAR CAPACITY ADDITION OF POWER-TO-GAS TECHNOLOGIES IS

THE DETERMINING FACTOR FOR THE GLOBAL POWER-TO-GAS MARKET

FIGURE 4 THE NUMBER OF NEW ELECTROLYSIS OR METHANATION PROJECTS IS

THE DETERMINING FACTOR FOR THE GLOBAL POWER-TO-GAS MARKET

FIGURE 5 EUROPE DOMINATED THE POWER-TO-GAS MARKET IN 2018

FIGURE 6 ELECTROLYSIS SEGMENT IS EXPECTED TO HOLD THE LARGEST SHARE OF THE POWER-TO-GAS MARKET, BY TECHNOLOGY, DURING THE FORECAST PERIOD

FIGURE 7 1,000 KW AND ABOVE SEGMENT IS EXPECTED TO LEAD THE POWER-TO-GAS MARKET, BY CAPACITY, DURING THE FORECAST PERIOD

FIGURE 8 UTILITIES SEGMENT IS EXPECTED TO LEAD THE POWER-TO-GAS MARKET, BY END-USER, DURING THE FORECAST PERIOD

FIGURE 9 INTEGRATED MANAGEMENT OF POWER AND GAS NETWORK IS EXPECTED TO DRIVE THE POWER-TO-GAS MARKET, 2019–2024

FIGURE 10 EUROPEAN POWER-TO-GAS MARKET IS EXPECTED TO GROW AT THE HIGHEST CAGR DURING THE FORECAST PERIOD

FIGURE 11 ELECTROLYSIS SEGMENT IS EXPECTED TO DOMINATE THE POWER-TO-GAS MARKET, BY TECHNOLOGY, BY 2024

FIGURE 12 1,000 KW AND ABOVE SEGMENT AND GERMANY DOMINATED THE POWER-TO-GAS MARKET, BY CAPACITY & COUNTRY, IN 2018

FIGURE 13 UTILITIES SEGMENT IS EXPECTED TO DOMINATE THE POWER-TO-GAS MARKET, BY END-USER, BY 2024

FIGURE 14 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 15 RENEWABLE NET CAPACITY ADDITION BY RESOURCES (IN GW), 2011–2018

FIGURE 16 EXCESS PRODUCTION OF RENEWABLE ENERGY, (KTOE) 2011–2018

FIGURE 17 WORLD NATURAL GAS CONSUMPTION, 2011–2016

FIGURE 18 WORLD NATURAL GAS CONSUMPTION, 2011–2016

FIGURE 19 SOLAR PV POWER GENERATION, (IN TWH) 2018

FIGURE 20 STOCK OF FUEL CELL VEHICLES IN 2017

FIGURE 21 US NATURAL GAS CONSUMPTION BY SECTOR, (TRILLION CUBIC FEET) 2018

FIGURE 22 POWER-TO-GAS MARKET, BY TECHNOLOGY, 2019–2024 (USD THOUSAND)

FIGURE 23 1,000 KW AND ABOVE SEGMENT IS EXPECTED TO DOMINATE THE MARKET DURING THE FORECAST PERIOD

FIGURE 24 UTILITIES SEGMENT IS EXPECTED TO DOMINATE THE MARKET DURING

THE FORECAST PERIOD

FIGURE 25 REGIONAL SNAPSHOT: THE MARKET IN EUROPE IS EXPECTED TO GROW

AT THE HIGHEST CAGR DURING THE FORECAST PERIOD

FIGURE 26 POWER-TO-GAS MARKET SHARE (VALUE), BY REGION, 2018

FIGURE 27 EUROPE SNAPSHOT

FIGURE 28 NORTH AMERICA: REGIONAL SNAPSHOT

FIGURE 29 KEY DEVELOPMENTS IN THE POWER-TO-GAS MARKET DURING 2015–2019

FIGURE 30 MARKET SHARE ANALYSIS, 2018

FIGURE 31 POWER-TO-GAS MARKET (GLOBAL) COMPETITIVE LEADERSHIP MAPPING, 2018

FIGURE 32 HYDROGENICS: COMPANY SNAPSHOT

FIGURE 33 ITM POWER: COMPANY SNAPSHOT

FIGURE 34 MCPHY ENERGY: COMPANY SNAPSHOT

FIGURE 35 SIEMENS: COMPANY SNAPSHOT

FIGURE 36 NEL.HYDROGEN: COMPANY SNAPSHOT

FIGURE 37 THYSSENKRUPP: COMPANY SNAPSHOT

FIGURE 38 UNIPER : COMPANY SNAPSHOT

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