

Global Hydrogen-Based CCUS Technologies Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G9A711541D2CEN.html>

Date: August 2023

Pages: 105

Price: US\$ 4,480.00 (Single User License)

ID: G9A711541D2CEN

Abstracts

The global Hydrogen-Based CCUS Technologies market size is expected to reach \$ 6295.9 million by 2029, rising at a market growth of 25.9% CAGR during the forecast period (2023-2029).

CCUS (Carbon Capture, Utilization and Storage) carbon capture, utilization and storage technology

surgery. It is a new development trend of CCS (Carbon Capture and Storage) technology, that is, to purify the carbon dioxide emitted in the production process, and then put it into the new production process, which can be recycled instead of simply stored. Compared with CCS, carbon dioxide can be resourced, which can generate economic benefits and is more practical. Challenges of CCUS Technology

At present, CCUS technology is still in the initial stage of research and development and demonstration, and is facing difficulties and problems in the aspects of economy, market, technology, environment and policy. There are still many obstacles and challenges to achieve large-scale development.

1 Economic aspects

The important contribution of CCUS technology lies in its irreplaceable ability to reduce carbon emissions, but the cost is too high. Firstly, the investment cost of the CCUS project is huge, and the investment amount is tens of millions or even hundreds of millions of yuan; secondly, the installation of carbon capture devices will generate additional operation and maintenance costs; finally, for carbon utilization and storage, the price of captured CO₂ is too high. High, the price is very uneconomical for oil

production companies. With regard to the CCUS demonstration projects currently in operation in China, under such huge cost pressures, the corporate rate of return can only be maintained at 2% or below. If the emission reduction benefits cannot be realized, it will seriously affect the enthusiasm of enterprises to carry out CCUS demonstration projects.

2 Technical aspects

CCUS technology is a highly integrated collection, transportation, utilization and storage of various technologies, and it needs to promote the development of all links in an orderly and balanced manner. First of all, the introduction of the CCUS capture link will increase additional energy consumption. Under the current technical level, the primary energy consumption will increase by 10%~20% or even more, resulting in a great loss of efficiency. Secondly, because CO₂ is chemically inert and thermally stable, a large amount of energy must be re-invested in order to effectively convert and utilize CO₂, which limits the utilization of CO₂ as a resource, and it is necessary to find a suitable catalyst system. There are risks of uncertainty in the geological exploration of the second geological utilization and storage link. The information support for CO₂ geological storage is not enough, and the enterprise cannot make a comprehensive assessment of the stratum structure, storage potential, storage risk and detection plan, which increases the business risk of the enterprise. Finally, under the goal of carbon neutrality, CCUS technology needs to complete the cumulative emission reduction task of 17.5 to 31.5 billion tons of CO₂. However, most of the current CCUS demonstration projects can capture CO₂ from 10,000 to 100,000 tons, and there is a lack of large-scale, replicable A full-process integration demonstration project with obvious economic benefits. Therefore, research and development of low-cost, low-energy CCUS technology and large-scale full-process CCUS integration demonstration will promote the deployment and promotion of CCUS technology.

3 Market aspects

The development of the CCUS industry requires long-term and large capital investment. However, due to the high cost of CCUS emission reduction and the uncertainty of technology, companies are often unwilling to bear the risk of investing in CCUS research and development and demonstration alone. In addition, the global carbon market is in its infancy, there is no large-scale CO₂ demand market, the carbon tax policy is not clear, and it is impossible to measure the emission reduction capacity of this part economically. Therefore, the foundation for the commercial development of CCUS projects is weak, and many Businesses and potential investors balk at it. On the

other hand, the CCUS industry chain covers almost all links of energy production and consumption, such as electric power, steel, cement, petroleum, chemical industry and other industries. At present, there are few CCUS full-process demonstration projects, and there is a lack of cross-industry and cross-departmental cooperation models. There is a problem of poor connection between CO₂ capture projects and utilization and storage projects. Therefore, under the existing market environment and policy framework, how to reasonably solve the problem of cooperation and benefit distribution among multiple enterprises on the benefit chain will directly affect CCUS development process.

4 Environmental aspects

Due to the nature of CO₂ itself, any leakage of CO₂ in each link of CCUS technology will have an impact on the ecological environment. Under the current technical level, the environmental risks in the general capture and transportation links are small, and the main environmental risks come from the geological storage and utilization of CO₂. From the perspective of geological time scale, due to complex unforeseen and uncontrollable geological movements (such as earthquakes) and the corrosiveness of CO₂ to the formation, CO₂ leaks and escapes to the surface, forming a catastrophic suffocation area and a sudden increase in The greenhouse effect causes a series of environmental problems such as soil, groundwater and atmosphere near the leakage area, and poses a fatal threat to animals, plants and human health. This also seriously restricts the understanding and acceptance of CCUS by the government and the public.

Prospect of CCUS Technology Application

The technical links of CCUS are closely connected and complement each other. The front-end carbon capture link provides CO₂ for the utilization and storage link, the intermediate transportation link provides CO₂ transportation guarantee, and the back-end CO₂ utilization turns CO₂ into treasure, forming a downstream related industrial chain with commercial value. , to create a huge CO₂ demand market, to achieve a win-win situation of CO₂ fixation and economic benefits, which in turn will promote the development of carbon capture projects.

Most of the current carbon capture projects are industrialized centralized capture, and there are demonstration projects for pre-combustion, post-combustion, and oxygen-enriched combustion technologies; while CO₂ utilization and storage projects are mainly CO₂-EOR, resource utilization projects are rare . CO₂-EOR is a mature technology that has been applied by the oil industry for decades, and currently occupies a dominant

position in CCUS projects around the world, but its income is heavily dependent on oil prices, and its economic sustainability is poor. In terms of resource utilization of CO₂, it has been reported in the literature that only 1.1 million tons of CO₂ is industrially utilized and converted into chemicals every year, of which 90% is converted into urea, inorganic carbonate, etc., and very little is converted into other high-addition materials. valuable chemicals. At present, the vast majority of CO₂ resource utilization industries have not yet achieved commercial application, and have not established relevant industrial chain clusters. Despite the high cost and high energy consumption of carbon capture projects, the disconnection between them and the carbon utilization stage makes it difficult to generate economic benefits, which has become the fundamental reason restricting the development of carbon capture projects. Therefore, while researching and developing low-cost, low-energy carbon capture technology, we must accelerate the layout of CO₂ resource utilization, in order to accelerate the implementation, development and large-scale promotion of CCUS projects.

CO₂ Utilization Industry Development Trend

1. Utilization of high value-added carbon-based new materials

CO₂ conversion to manufacture high value-added carbon-based new materials (carbon nanotubes and graphene, etc.) will be part of an effective path to carbon neutrality such as coal power plants. It will provide a sustainable economic basis for overall carbon neutrality. Carbon nanomaterials have been widely used in lithium battery conductive pastes and conductive plastics, and can also be used in solar conductive silver pastes, anti-corrosion coatings, and thermal greases. At present, this technology has been successfully applied to industrial demonstration projects, with remarkable economic benefits. Due to the limited demand for high-tech materials, billions of tons of CO₂ need to find another way out. One of the important directions of green chemistry research is to regard CO₂, biomass, coal, oil, and natural gas as the five basic industrial raw materials, which are used to produce tens of thousands of daily-needed end products.

2. Chemical utilization

Incorporate CO₂ into the industrial system, together with biomass materials, coal, oil and natural gas, as the five basic raw materials of industry, and build a new CO₂ economic industrial chain, which is not only used to produce basic chemicals such as methanol and olefins, but also involves various intermediates Body and tens of thousands of end products (as shown in Figure 3). For example, Shanxi Clean Carbon Research Institute purifies CO₂ in industrial flue gas, not only converting it into chemical

products such as carbonate, ethylene glycol, and methanol fuel, but also using supercritical CO₂ to manufacture lightweight materials for aircraft and automobile interior parts, Energy-saving and environment-friendly products such as packaging materials. With technological progress and cost reduction, CO₂ resource utilization is gradually promoted, and the chemical industry is expected to accelerate greening.

CCUS is an enabler of least-cost low-carbon hydrogen production. CCUS can remove CO₂ from the atmosphere by combining it with bioenergy or direct air capture to balance emissions that are unavoidable or technically difficult to abate. Hydrogen technologies are technologies that relate to the production and use of hydrogen as a part hydrogen economy.

This report studies the global Hydrogen-Based CCUS Technologies demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen-Based CCUS Technologies, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydrogen-Based CCUS Technologies that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrogen-Based CCUS Technologies total market, 2018-2029, (USD Million)

Global Hydrogen-Based CCUS Technologies total market by region & country, CAGR, 2018-2029, (USD Million)

U.S. VS China: Hydrogen-Based CCUS Technologies total market, key domestic companies and share, (USD Million)

Global Hydrogen-Based CCUS Technologies revenue by player and market share 2018-2023, (USD Million)

Global Hydrogen-Based CCUS Technologies total market by Type, CAGR, 2018-2029, (USD Million)

Global Hydrogen-Based CCUS Technologies total market by Application, CAGR, 2018-2029, (USD Million).

This reports profiles major players in the global Hydrogen-Based CCUS Technologies market based on the following parameters – company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Exxonmobil Corporation, Schlumberger, Linde AG, BASF, General Electric, Siemens, Honeywell UOP, Equinor and Aker Solutions, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydrogen-Based CCUS Technologies market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Hydrogen-Based CCUS Technologies Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen-Based CCUS Technologies Market, Segmentation by Type

Carbon Capture and Storage (CCS)

Carbon Capture and Utilization (CCU)

Carbon Capture and Conversion (CCC)

Global Hydrogen-Based CCUS Technologies Market, Segmentation by Application

Oil and Gas

Power Generation

Others

Companies Profiled:

Exxonmobil Corporation

Schlumberger

Linde AG

BASF

General Electric

Siemens

Honeywell UOP

Equinor

Aker Solutions

Shell

Fluor

Sinopec

Key Questions Answered

1. How big is the global Hydrogen-Based CCUS Technologies market?
2. What is the demand of the global Hydrogen-Based CCUS Technologies market?
3. What is the year over year growth of the global Hydrogen-Based CCUS Technologies market?
4. What is the total value of the global Hydrogen-Based CCUS Technologies market?
5. Who are the major players in the global Hydrogen-Based CCUS Technologies market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Hydrogen-Based CCUS Technologies Introduction
- 1.2 World Hydrogen-Based CCUS Technologies Market Size & Forecast (2018 & 2022 & 2029)
- 1.3 World Hydrogen-Based CCUS Technologies Total Market by Region (by Headquarter Location)
 - 1.3.1 World Hydrogen-Based CCUS Technologies Market Size by Region (2018-2029), (by Headquarter Location)
 - 1.3.2 United States Hydrogen-Based CCUS Technologies Market Size (2018-2029)
 - 1.3.3 China Hydrogen-Based CCUS Technologies Market Size (2018-2029)
 - 1.3.4 Europe Hydrogen-Based CCUS Technologies Market Size (2018-2029)
 - 1.3.5 Japan Hydrogen-Based CCUS Technologies Market Size (2018-2029)
 - 1.3.6 South Korea Hydrogen-Based CCUS Technologies Market Size (2018-2029)
 - 1.3.7 ASEAN Hydrogen-Based CCUS Technologies Market Size (2018-2029)
 - 1.3.8 India Hydrogen-Based CCUS Technologies Market Size (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Hydrogen-Based CCUS Technologies Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Hydrogen-Based CCUS Technologies Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World Hydrogen-Based CCUS Technologies Consumption Value (2018-2029)
- 2.2 World Hydrogen-Based CCUS Technologies Consumption Value by Region
 - 2.2.1 World Hydrogen-Based CCUS Technologies Consumption Value by Region (2018-2023)
 - 2.2.2 World Hydrogen-Based CCUS Technologies Consumption Value Forecast by Region (2024-2029)
- 2.3 United States Hydrogen-Based CCUS Technologies Consumption Value (2018-2029)
- 2.4 China Hydrogen-Based CCUS Technologies Consumption Value (2018-2029)
- 2.5 Europe Hydrogen-Based CCUS Technologies Consumption Value (2018-2029)
- 2.6 Japan Hydrogen-Based CCUS Technologies Consumption Value (2018-2029)

2.7 South Korea Hydrogen-Based CCUS Technologies Consumption Value (2018-2029)

2.8 ASEAN Hydrogen-Based CCUS Technologies Consumption Value (2018-2029)

2.9 India Hydrogen-Based CCUS Technologies Consumption Value (2018-2029)

3 WORLD HYDROGEN-BASED CCUS TECHNOLOGIES COMPANIES COMPETITIVE ANALYSIS

3.1 World Hydrogen-Based CCUS Technologies Revenue by Player (2018-2023)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Hydrogen-Based CCUS Technologies Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Hydrogen-Based CCUS Technologies in 2022

3.2.3 Global Concentration Ratios (CR8) for Hydrogen-Based CCUS Technologies in 2022

3.3 Hydrogen-Based CCUS Technologies Company Evaluation Quadrant

3.4 Hydrogen-Based CCUS Technologies Market: Overall Company Footprint Analysis

3.4.1 Hydrogen-Based CCUS Technologies Market: Region Footprint

3.4.2 Hydrogen-Based CCUS Technologies Market: Company Product Type Footprint

3.4.3 Hydrogen-Based CCUS Technologies Market: Company Product Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers, Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF THE WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Hydrogen-Based CCUS Technologies Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Hydrogen-Based CCUS Technologies Market Size Comparison (2018 & 2022 & 2029) (by Headquarter Location)

4.1.2 United States VS China: Hydrogen-Based CCUS Technologies Revenue Market Share Comparison (2018 & 2022 & 2029)

4.2 United States Based Companies VS China Based Companies: Hydrogen-Based CCUS Technologies Consumption Value Comparison

4.2.1 United States VS China: Hydrogen-Based CCUS Technologies Consumption

Value Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Hydrogen-Based CCUS Technologies Consumption

Value Market Share Comparison (2018 & 2022 & 2029)

4.3 United States Based Hydrogen-Based CCUS Technologies Companies and Market Share, 2018-2023

4.3.1 United States Based Hydrogen-Based CCUS Technologies Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Hydrogen-Based CCUS Technologies Revenue, (2018-2023)

4.4 China Based Companies Hydrogen-Based CCUS Technologies Revenue and Market Share, 2018-2023

4.4.1 China Based Hydrogen-Based CCUS Technologies Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Hydrogen-Based CCUS Technologies Revenue, (2018-2023)

4.5 Rest of World Based Hydrogen-Based CCUS Technologies Companies and Market Share, 2018-2023

4.5.1 Rest of World Based Hydrogen-Based CCUS Technologies Companies, Headquarters (States, Country)

4.5.2 Rest of World Based Companies Hydrogen-Based CCUS Technologies Revenue, (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Hydrogen-Based CCUS Technologies Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Carbon Capture and Storage (CCS)

5.2.2 Carbon Capture and Utilization (CCU)

5.2.3 Carbon Capture and Conversion (CCC)

5.3 Market Segment by Type

5.3.1 World Hydrogen-Based CCUS Technologies Market Size by Type (2018-2023)

5.3.2 World Hydrogen-Based CCUS Technologies Market Size by Type (2024-2029)

5.3.3 World Hydrogen-Based CCUS Technologies Market Size Market Share by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Hydrogen-Based CCUS Technologies Market Size Overview by Application:

2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Oil and Gas

6.2.2 Power Generation

6.2.3 Others

6.3 Market Segment by Application

6.3.1 World Hydrogen-Based CCUS Technologies Market Size by Application (2018-2023)

6.3.2 World Hydrogen-Based CCUS Technologies Market Size by Application (2024-2029)

6.3.3 World Hydrogen-Based CCUS Technologies Market Size by Application (2018-2029)

7 COMPANY PROFILES

7.1 Exxonmobil Corporation

7.1.1 Exxonmobil Corporation Details

7.1.2 Exxonmobil Corporation Major Business

7.1.3 Exxonmobil Corporation Hydrogen-Based CCUS Technologies Product and Services

7.1.4 Exxonmobil Corporation Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)

7.1.5 Exxonmobil Corporation Recent Developments/Updates

7.1.6 Exxonmobil Corporation Competitive Strengths & Weaknesses

7.2 Schlumberger

7.2.1 Schlumberger Details

7.2.2 Schlumberger Major Business

7.2.3 Schlumberger Hydrogen-Based CCUS Technologies Product and Services

7.2.4 Schlumberger Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)

7.2.5 Schlumberger Recent Developments/Updates

7.2.6 Schlumberger Competitive Strengths & Weaknesses

7.3 Linde AG

7.3.1 Linde AG Details

7.3.2 Linde AG Major Business

7.3.3 Linde AG Hydrogen-Based CCUS Technologies Product and Services

7.3.4 Linde AG Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)

7.3.5 Linde AG Recent Developments/Updates

- 7.3.6 Linde AG Competitive Strengths & Weaknesses
- 7.4 BASF
 - 7.4.1 BASF Details
 - 7.4.2 BASF Major Business
 - 7.4.3 BASF Hydrogen-Based CCUS Technologies Product and Services
 - 7.4.4 BASF Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)
 - 7.4.5 BASF Recent Developments/Updates
 - 7.4.6 BASF Competitive Strengths & Weaknesses
- 7.5 General Electric
 - 7.5.1 General Electric Details
 - 7.5.2 General Electric Major Business
 - 7.5.3 General Electric Hydrogen-Based CCUS Technologies Product and Services
 - 7.5.4 General Electric Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)
 - 7.5.5 General Electric Recent Developments/Updates
 - 7.5.6 General Electric Competitive Strengths & Weaknesses
- 7.6 Siemens
 - 7.6.1 Siemens Details
 - 7.6.2 Siemens Major Business
 - 7.6.3 Siemens Hydrogen-Based CCUS Technologies Product and Services
 - 7.6.4 Siemens Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)
 - 7.6.5 Siemens Recent Developments/Updates
 - 7.6.6 Siemens Competitive Strengths & Weaknesses
- 7.7 Honeywell UOP
 - 7.7.1 Honeywell UOP Details
 - 7.7.2 Honeywell UOP Major Business
 - 7.7.3 Honeywell UOP Hydrogen-Based CCUS Technologies Product and Services
 - 7.7.4 Honeywell UOP Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)
 - 7.7.5 Honeywell UOP Recent Developments/Updates
 - 7.7.6 Honeywell UOP Competitive Strengths & Weaknesses
- 7.8 Equinor
 - 7.8.1 Equinor Details
 - 7.8.2 Equinor Major Business
 - 7.8.3 Equinor Hydrogen-Based CCUS Technologies Product and Services
 - 7.8.4 Equinor Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)

- 7.8.5 Equinor Recent Developments/Updates
- 7.8.6 Equinor Competitive Strengths & Weaknesses
- 7.9 Aker Solutions
 - 7.9.1 Aker Solutions Details
 - 7.9.2 Aker Solutions Major Business
 - 7.9.3 Aker Solutions Hydrogen-Based CCUS Technologies Product and Services
 - 7.9.4 Aker Solutions Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)
 - 7.9.5 Aker Solutions Recent Developments/Updates
 - 7.9.6 Aker Solutions Competitive Strengths & Weaknesses
- 7.10 Shell
 - 7.10.1 Shell Details
 - 7.10.2 Shell Major Business
 - 7.10.3 Shell Hydrogen-Based CCUS Technologies Product and Services
 - 7.10.4 Shell Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)
 - 7.10.5 Shell Recent Developments/Updates
 - 7.10.6 Shell Competitive Strengths & Weaknesses
- 7.11 Fluor
 - 7.11.1 Fluor Details
 - 7.11.2 Fluor Major Business
 - 7.11.3 Fluor Hydrogen-Based CCUS Technologies Product and Services
 - 7.11.4 Fluor Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)
 - 7.11.5 Fluor Recent Developments/Updates
 - 7.11.6 Fluor Competitive Strengths & Weaknesses
- 7.12 Sinopec
 - 7.12.1 Sinopec Details
 - 7.12.2 Sinopec Major Business
 - 7.12.3 Sinopec Hydrogen-Based CCUS Technologies Product and Services
 - 7.12.4 Sinopec Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023)
 - 7.12.5 Sinopec Recent Developments/Updates
 - 7.12.6 Sinopec Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Hydrogen-Based CCUS Technologies Industry Chain
- 8.2 Hydrogen-Based CCUS Technologies Upstream Analysis

8.3 Hydrogen-Based CCUS Technologies Midstream Analysis

8.4 Hydrogen-Based CCUS Technologies Downstream Analysis

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Hydrogen-Based CCUS Technologies Revenue by Region (2018, 2022 and 2029) & (USD Million), (by Headquarter Location)
- Table 2. World Hydrogen-Based CCUS Technologies Revenue by Region (2018-2023) & (USD Million), (by Headquarter Location)
- Table 3. World Hydrogen-Based CCUS Technologies Revenue by Region (2024-2029) & (USD Million), (by Headquarter Location)
- Table 4. World Hydrogen-Based CCUS Technologies Revenue Market Share by Region (2018-2023), (by Headquarter Location)
- Table 5. World Hydrogen-Based CCUS Technologies Revenue Market Share by Region (2024-2029), (by Headquarter Location)
- Table 6. Major Market Trends
- Table 7. World Hydrogen-Based CCUS Technologies Consumption Value Growth Rate Forecast by Region (2018 & 2022 & 2029) & (USD Million)
- Table 8. World Hydrogen-Based CCUS Technologies Consumption Value by Region (2018-2023) & (USD Million)
- Table 9. World Hydrogen-Based CCUS Technologies Consumption Value Forecast by Region (2024-2029) & (USD Million)
- Table 10. World Hydrogen-Based CCUS Technologies Revenue by Player (2018-2023) & (USD Million)
- Table 11. Revenue Market Share of Key Hydrogen-Based CCUS Technologies Players in 2022
- Table 12. World Hydrogen-Based CCUS Technologies Industry Rank of Major Player, Based on Revenue in 2022
- Table 13. Global Hydrogen-Based CCUS Technologies Company Evaluation Quadrant
- Table 14. Head Office of Key Hydrogen-Based CCUS Technologies Player
- Table 15. Hydrogen-Based CCUS Technologies Market: Company Product Type Footprint
- Table 16. Hydrogen-Based CCUS Technologies Market: Company Product Application Footprint
- Table 17. Hydrogen-Based CCUS Technologies Mergers & Acquisitions Activity
- Table 18. United States VS China Hydrogen-Based CCUS Technologies Market Size Comparison, (2018 & 2022 & 2029) & (USD Million)
- Table 19. United States VS China Hydrogen-Based CCUS Technologies Consumption Value Comparison, (2018 & 2022 & 2029) & (USD Million)
- Table 20. United States Based Hydrogen-Based CCUS Technologies Companies,

Headquarters (States, Country)

Table 21. United States Based Companies Hydrogen-Based CCUS Technologies Revenue, (2018-2023) & (USD Million)

Table 22. United States Based Companies Hydrogen-Based CCUS Technologies Revenue Market Share (2018-2023)

Table 23. China Based Hydrogen-Based CCUS Technologies Companies, Headquarters (Province, Country)

Table 24. China Based Companies Hydrogen-Based CCUS Technologies Revenue, (2018-2023) & (USD Million)

Table 25. China Based Companies Hydrogen-Based CCUS Technologies Revenue Market Share (2018-2023)

Table 26. Rest of World Based Hydrogen-Based CCUS Technologies Companies, Headquarters (States, Country)

Table 27. Rest of World Based Companies Hydrogen-Based CCUS Technologies Revenue, (2018-2023) & (USD Million)

Table 28. Rest of World Based Companies Hydrogen-Based CCUS Technologies Revenue Market Share (2018-2023)

Table 29. World Hydrogen-Based CCUS Technologies Market Size by Type, (USD Million), 2018 & 2022 & 2029

Table 30. World Hydrogen-Based CCUS Technologies Market Size by Type (2018-2023) & (USD Million)

Table 31. World Hydrogen-Based CCUS Technologies Market Size by Type (2024-2029) & (USD Million)

Table 32. World Hydrogen-Based CCUS Technologies Market Size by Application, (USD Million), 2018 & 2022 & 2029

Table 33. World Hydrogen-Based CCUS Technologies Market Size by Application (2018-2023) & (USD Million)

Table 34. World Hydrogen-Based CCUS Technologies Market Size by Application (2024-2029) & (USD Million)

Table 35. Exxonmobil Corporation Basic Information, Area Served and Competitors

Table 36. Exxonmobil Corporation Major Business

Table 37. Exxonmobil Corporation Hydrogen-Based CCUS Technologies Product and Services

Table 38. Exxonmobil Corporation Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)

Table 39. Exxonmobil Corporation Recent Developments/Updates

Table 40. Exxonmobil Corporation Competitive Strengths & Weaknesses

Table 41. Schlumberger Basic Information, Area Served and Competitors

Table 42. Schlumberger Major Business

- Table 43. Schlumberger Hydrogen-Based CCUS Technologies Product and Services
- Table 44. Schlumberger Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 45. Schlumberger Recent Developments/Updates
- Table 46. Schlumberger Competitive Strengths & Weaknesses
- Table 47. Linde AG Basic Information, Area Served and Competitors
- Table 48. Linde AG Major Business
- Table 49. Linde AG Hydrogen-Based CCUS Technologies Product and Services
- Table 50. Linde AG Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 51. Linde AG Recent Developments/Updates
- Table 52. Linde AG Competitive Strengths & Weaknesses
- Table 53. BASF Basic Information, Area Served and Competitors
- Table 54. BASF Major Business
- Table 55. BASF Hydrogen-Based CCUS Technologies Product and Services
- Table 56. BASF Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 57. BASF Recent Developments/Updates
- Table 58. BASF Competitive Strengths & Weaknesses
- Table 59. General Electric Basic Information, Area Served and Competitors
- Table 60. General Electric Major Business
- Table 61. General Electric Hydrogen-Based CCUS Technologies Product and Services
- Table 62. General Electric Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 63. General Electric Recent Developments/Updates
- Table 64. General Electric Competitive Strengths & Weaknesses
- Table 65. Siemens Basic Information, Area Served and Competitors
- Table 66. Siemens Major Business
- Table 67. Siemens Hydrogen-Based CCUS Technologies Product and Services
- Table 68. Siemens Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 69. Siemens Recent Developments/Updates
- Table 70. Siemens Competitive Strengths & Weaknesses
- Table 71. Honeywell UOP Basic Information, Area Served and Competitors
- Table 72. Honeywell UOP Major Business
- Table 73. Honeywell UOP Hydrogen-Based CCUS Technologies Product and Services
- Table 74. Honeywell UOP Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 75. Honeywell UOP Recent Developments/Updates

- Table 76. Honeywell UOP Competitive Strengths & Weaknesses
- Table 77. Equinor Basic Information, Area Served and Competitors
- Table 78. Equinor Major Business
- Table 79. Equinor Hydrogen-Based CCUS Technologies Product and Services
- Table 80. Equinor Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 81. Equinor Recent Developments/Updates
- Table 82. Equinor Competitive Strengths & Weaknesses
- Table 83. Aker Solutions Basic Information, Area Served and Competitors
- Table 84. Aker Solutions Major Business
- Table 85. Aker Solutions Hydrogen-Based CCUS Technologies Product and Services
- Table 86. Aker Solutions Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 87. Aker Solutions Recent Developments/Updates
- Table 88. Aker Solutions Competitive Strengths & Weaknesses
- Table 89. Shell Basic Information, Area Served and Competitors
- Table 90. Shell Major Business
- Table 91. Shell Hydrogen-Based CCUS Technologies Product and Services
- Table 92. Shell Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 93. Shell Recent Developments/Updates
- Table 94. Shell Competitive Strengths & Weaknesses
- Table 95. Fluor Basic Information, Area Served and Competitors
- Table 96. Fluor Major Business
- Table 97. Fluor Hydrogen-Based CCUS Technologies Product and Services
- Table 98. Fluor Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 99. Fluor Recent Developments/Updates
- Table 100. Sinopec Basic Information, Area Served and Competitors
- Table 101. Sinopec Major Business
- Table 102. Sinopec Hydrogen-Based CCUS Technologies Product and Services
- Table 103. Sinopec Hydrogen-Based CCUS Technologies Revenue, Gross Margin and Market Share (2018-2023) & (USD Million)
- Table 104. Global Key Players of Hydrogen-Based CCUS Technologies Upstream (Raw Materials)
- Table 105. Hydrogen-Based CCUS Technologies Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Hydrogen-Based CCUS Technologies Picture

Figure 2. World Hydrogen-Based CCUS Technologies Total Market Size: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Hydrogen-Based CCUS Technologies Total Market Size (2018-2029) & (USD Million)

Figure 4. World Hydrogen-Based CCUS Technologies Revenue Market Share by Region (2018, 2022 and 2029) & (USD Million) , (by Headquarter Location)

Figure 5. World Hydrogen-Based CCUS Technologies Revenue Market Share by Region (2018-2029), (by Headquarter Location)

Figure 6. United States Based Company Hydrogen-Based CCUS Technologies Revenue (2018-2029) & (USD Million)

Figure 7. China Based Company Hydrogen-Based CCUS Technologies Revenue (2018-2029) & (USD Million)

Figure 8. Europe Based Company Hydrogen-Based CCUS Technologies Revenue (2018-2029) & (USD Million)

Figure 9. Japan Based Company Hydrogen-Based CCUS Technologies Revenue (2018-2029) & (USD Million)

Figure 10. South Korea Based Company Hydrogen-Based CCUS Technologies Revenue (2018-2029) & (USD Million)

Figure 11. ASEAN Based Company Hydrogen-Based CCUS Technologies Revenue (2018-2029) & (USD Million)

Figure 12. India Based Company Hydrogen-Based CCUS Technologies Revenue (2018-2029) & (USD Million)

Figure 13. Hydrogen-Based CCUS Technologies Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Hydrogen-Based CCUS Technologies Consumption Value (2018-2029) & (USD Million)

Figure 16. World Hydrogen-Based CCUS Technologies Consumption Value Market Share by Region (2018-2029)

Figure 17. United States Hydrogen-Based CCUS Technologies Consumption Value (2018-2029) & (USD Million)

Figure 18. China Hydrogen-Based CCUS Technologies Consumption Value (2018-2029) & (USD Million)

Figure 19. Europe Hydrogen-Based CCUS Technologies Consumption Value (2018-2029) & (USD Million)

- Figure 20. Japan Hydrogen-Based CCUS Technologies Consumption Value (2018-2029) & (USD Million)
- Figure 21. South Korea Hydrogen-Based CCUS Technologies Consumption Value (2018-2029) & (USD Million)
- Figure 22. ASEAN Hydrogen-Based CCUS Technologies Consumption Value (2018-2029) & (USD Million)
- Figure 23. India Hydrogen-Based CCUS Technologies Consumption Value (2018-2029) & (USD Million)
- Figure 24. Producer Shipments of Hydrogen-Based CCUS Technologies by Player Revenue (\$MM) and Market Share (%): 2022
- Figure 25. Global Four-firm Concentration Ratios (CR4) for Hydrogen-Based CCUS Technologies Markets in 2022
- Figure 26. Global Four-firm Concentration Ratios (CR8) for Hydrogen-Based CCUS Technologies Markets in 2022
- Figure 27. United States VS China: Hydrogen-Based CCUS Technologies Revenue Market Share Comparison (2018 & 2022 & 2029)
- Figure 28. United States VS China: Hydrogen-Based CCUS Technologies Consumption Value Market Share Comparison (2018 & 2022 & 2029)
- Figure 29. World Hydrogen-Based CCUS Technologies Market Size by Type, (USD Million), 2018 & 2022 & 2029
- Figure 30. World Hydrogen-Based CCUS Technologies Market Size Market Share by Type in 2022
- Figure 31. Carbon Capture and Storage (CCS)
- Figure 32. Carbon Capture and Utilization (CCU)
- Figure 33. Carbon Capture and Conversion (CCC)
- Figure 34. World Hydrogen-Based CCUS Technologies Market Size Market Share by Type (2018-2029)
- Figure 35. World Hydrogen-Based CCUS Technologies Market Size by Application, (USD Million), 2018 & 2022 & 2029
- Figure 36. World Hydrogen-Based CCUS Technologies Market Size Market Share by Application in 2022
- Figure 37. Oil and Gas
- Figure 38. Power Generation
- Figure 39. Others
- Figure 40. Hydrogen-Based CCUS Technologies Industrial Chain
- Figure 41. Methodology
- Figure 42. Research Process and Data Source

I would like to order

Product name: Global Hydrogen-Based CCUS Technologies Supply, Demand and Key Producers, 2023-2029

Product link: <https://marketpublishers.com/r/G9A711541D2CEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G9A711541D2CEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

