

Global In-situ Resource Utilization (ISRU) Technology Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global In-situ Resource Utilization (ISRU) Technology market size was valued at US\$ 578 million in 2025 and is forecast to a readjusted size of US\$ 2679 million by 2032 with a CAGR of 24.4% during review period.

In-situ resource utilization (ISRU) technology refers to the direct use of locally available resources in the outer space environment. Through engineering methods such as collection, extraction, processing, and conversion, it produces materials that can support space missions, including oxygen, fuel, water, building materials, and metal structural components. This reduces the cost and dependence on transporting supplies from Earth, improving the sustainability of deep space exploration, lunar base construction, and long-term Mars colonization. It is one of the core foundational technologies for the future deep space economy and planetary base construction.

ISRU technology is widely considered a key prerequisite for humanity to enter an 'extraterrestrial economic system,' and its long-term prospects are closely related to lunar base construction, Mars landing missions, and the normalization of deep space exploration. With NASA's Artemis program, ESA's Moon Village concept, and commercial space companies advancing lunar mining and resource utilization experiments, ISRU is gradually moving from theoretical research to engineering verification. In the next 10-20 years, ISRU is expected to be the first to achieve water ice extraction and oxygen/fuel production on the moon, forming an 'extraterrestrial resupply station' and significantly reducing the cost of deep space missions. In the longer term, applications such as Mars atmospheric oxygen production (MOXIE path), asteroid mining, and lunar surface 3D printing will drive the formation of a complete

'extraterrestrial resources-energy-manufacturing' industrial closed loop, enabling human space activities to shift from 'complete dependence on Earth resupply' to 'partial self-sufficiency' and giving rise to a potential trillion-dollar space resource economy.

This report is a detailed and comprehensive analysis for global In-situ Resource Utilization (ISRU) Technology market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global In-situ Resource Utilization (ISRU) Technology market size and forecasts, in consumption value (\$ Million), 2021-2032

Global In-situ Resource Utilization (ISRU) Technology market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global In-situ Resource Utilization (ISRU) Technology market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global In-situ Resource Utilization (ISRU) Technology market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for In-situ Resource Utilization (ISRU) Technology

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global In-situ Resource Utilization (ISRU) Technology 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 Blue Origin, Lockheed Martin, ispace, NASA, Paragon Space Development Corporation, Intuitive Machines, Airbus Defence and Space, ESA, Canadian Space Agency, Interlune, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

In-situ Resource Utilization (ISRU) Technology market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Water ISRU

Gas ISRU

Mineral ISRU

Metal ISRU

Energy ISRU

Market segment by Functional Chain

Resource Exploration and Mapping

Mining and Extraction

Physical/Chemical Extraction

In-situ Manufacturing

Energy and Propellant Production

Market segment by Technology Maturity

Concept Study Phase

Ground Validation Phase

Space Demonstration Phase

Commercial Application Phase

Market segment by Application

Lunar ISRU

Mars ISRU

Others

Market segment by players, this report covers

Blue Origin

Lockheed Martin

ispace

NASA

Paragon Space Development Corporation

Intuitive Machines

Airbus Defence and Space

ESA

Canadian Space Agency

Interlune

KIGAM

CASC

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe In-situ Resource Utilization (ISRU) Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of In-situ Resource Utilization (ISRU) Technology, with revenue, gross margin, and global market share of In-situ Resource Utilization (ISRU) Technology from 2021 to 2026.

Chapter 3, the In-situ Resource Utilization (ISRU) Technology competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with

consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and In-situ Resource Utilization (ISRU) Technology market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of In-situ Resource Utilization (ISRU) Technology.

Chapter 13, to describe In-situ Resource Utilization (ISRU) Technology research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of In-situ Resource Utilization (ISRU) Technology by Type

1.3.1 Overview: Global In-situ Resource Utilization (ISRU) Technology Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Type in 2025

1.3.3 Water ISRU

1.3.4 Gas ISRU

1.3.5 Mineral ISRU

1.3.6 Metal ISRU

1.3.7 Energy ISRU

1.4 Classification of In-situ Resource Utilization (ISRU) Technology by Functional Chain

1.4.1 Overview: Global In-situ Resource Utilization (ISRU) Technology Market Size by Functional Chain: 2021 Versus 2025 Versus 2032

1.4.2 Global In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Functional Chain in 2025

1.4.3 Resource Exploration and Mapping

1.4.4 Mining and Extraction

1.4.5 Physical/Chemical Extraction

1.4.6 In-situ Manufacturing

1.4.7 Energy and Propellant Production

1.5 Classification of In-situ Resource Utilization (ISRU) Technology by Technology Maturity

1.5.1 Overview: Global In-situ Resource Utilization (ISRU) Technology Market Size by Technology Maturity: 2021 Versus 2025 Versus 2032

1.5.2 Global In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Technology Maturity in 2025

1.5.3 Concept Study Phase

1.5.4 Ground Validation Phase

1.5.5 Space Demonstration Phase

1.5.6 Commercial Application Phase

1.6 Global In-situ Resource Utilization (ISRU) Technology Market by Application

1.6.1 Overview: Global In-situ Resource Utilization (ISRU) Technology Market Size by Application: 2021 Versus 2025 Versus 2032

1.6.2 Lunar ISRU

1.6.3 Mars ISRU

1.6.4 Others

1.7 Global In-situ Resource Utilization (ISRU) Technology Market Size & Forecast

1.8 Global In-situ Resource Utilization (ISRU) Technology Market Size and Forecast by Region

1.8.1 Global In-situ Resource Utilization (ISRU) Technology Market Size by Region: 2021 VS 2025 VS 2032

1.8.2 Global In-situ Resource Utilization (ISRU) Technology Market Size by Region, (2021-2032)

1.8.3 North America In-situ Resource Utilization (ISRU) Technology Market Size and Prospect (2021-2032)

1.8.4 Europe In-situ Resource Utilization (ISRU) Technology Market Size and Prospect (2021-2032)

1.8.5 Asia-Pacific In-situ Resource Utilization (ISRU) Technology Market Size and Prospect (2021-2032)

1.8.6 South America In-situ Resource Utilization (ISRU) Technology Market Size and Prospect (2021-2032)

1.8.7 Middle East & Africa In-situ Resource Utilization (ISRU) Technology Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Blue Origin

2.1.1 Blue Origin Details

2.1.2 Blue Origin Major Business

2.1.3 Blue Origin In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.1.4 Blue Origin In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Blue Origin Recent Developments and Future Plans

2.2 Lockheed Martin

2.2.1 Lockheed Martin Details

2.2.2 Lockheed Martin Major Business

2.2.3 Lockheed Martin In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.2.4 Lockheed Martin In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Lockheed Martin Recent Developments and Future Plans

2.3 ispace

2.3.1 ispace Details

2.3.2 ispace Major Business

2.3.3 ispace In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.3.4 ispace In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 ispace Recent Developments and Future Plans

2.4 NASA

2.4.1 NASA Details

2.4.2 NASA Major Business

2.4.3 NASA In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.4.4 NASA In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 NASA Recent Developments and Future Plans

2.5 Paragon Space Development Corporation

2.5.1 Paragon Space Development Corporation Details

2.5.2 Paragon Space Development Corporation Major Business

2.5.3 Paragon Space Development Corporation In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.5.4 Paragon Space Development Corporation In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Paragon Space Development Corporation Recent Developments and Future Plans

2.6 Intuitive Machines

2.6.1 Intuitive Machines Details

2.6.2 Intuitive Machines Major Business

2.6.3 Intuitive Machines In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.6.4 Intuitive Machines In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Intuitive Machines Recent Developments and Future Plans

2.7 Airbus Defence and Space

2.7.1 Airbus Defence and Space Details

2.7.2 Airbus Defence and Space Major Business

2.7.3 Airbus Defence and Space In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.7.4 Airbus Defence and Space In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Airbus Defence and Space Recent Developments and Future Plans

2.8 ESA

2.8.1 ESA Details

2.8.2 ESA Major Business

2.8.3 ESA In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.8.4 ESA In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 ESA Recent Developments and Future Plans

2.9 Canadian Space Agency

2.9.1 Canadian Space Agency Details

2.9.2 Canadian Space Agency Major Business

2.9.3 Canadian Space Agency In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.9.4 Canadian Space Agency In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Canadian Space Agency Recent Developments and Future Plans

2.10 Interlune

2.10.1 Interlune Details

2.10.2 Interlune Major Business

2.10.3 Interlune In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.10.4 Interlune In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Interlune Recent Developments and Future Plans

2.11 KIGAM

2.11.1 KIGAM Details

2.11.2 KIGAM Major Business

2.11.3 KIGAM In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.11.4 KIGAM In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 KIGAM Recent Developments and Future Plans

2.12 CASC

2.12.1 CASC Details

2.12.2 CASC Major Business

2.12.3 CASC In-situ Resource Utilization (ISRU) Technology Product and Solutions

2.12.4 CASC In-situ Resource Utilization (ISRU) Technology Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 CASC Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global In-situ Resource Utilization (ISRU) Technology Revenue and Share by Players (2021-2026)

3.2 Market Share Analysis (2025)

3.2.1 Market Share of In-situ Resource Utilization (ISRU) Technology by Company Revenue

3.2.2 Top 3 In-situ Resource Utilization (ISRU) Technology Players Market Share in 2025

3.2.3 Top 6 In-situ Resource Utilization (ISRU) Technology Players Market Share in 2025

3.3 In-situ Resource Utilization (ISRU) Technology Market: Overall Company Footprint Analysis

3.3.1 In-situ Resource Utilization (ISRU) Technology Market: Region Footprint

3.3.2 In-situ Resource Utilization (ISRU) Technology Market: Company Product Type Footprint

3.3.3 In-situ Resource Utilization (ISRU) Technology Market: Company Product Application Footprint

3.4 New Market Entrants and Barriers to Market Entry

3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global In-situ Resource Utilization (ISRU) Technology Consumption Value and Market Share by Type (2021-2026)

4.2 Global In-situ Resource Utilization (ISRU) Technology Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Application (2021-2026)

5.2 Global In-situ Resource Utilization (ISRU) Technology Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2021-2032)

6.2 North America In-situ Resource Utilization (ISRU) Technology Market Size by Application (2021-2032)

6.3 North America In-situ Resource Utilization (ISRU) Technology Market Size by Country

6.3.1 North America In-situ Resource Utilization (ISRU) Technology Consumption Value by Country (2021-2032)

6.3.2 United States In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

6.3.3 Canada In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

6.3.4 Mexico In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2021-2032)

7.2 Europe In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2021-2032)

7.3 Europe In-situ Resource Utilization (ISRU) Technology Market Size by Country

7.3.1 Europe In-situ Resource Utilization (ISRU) Technology Consumption Value by Country (2021-2032)

7.3.2 Germany In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

7.3.3 France In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

7.3.4 United Kingdom In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

7.3.5 Russia In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

7.3.6 Italy In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2021-2032)

8.2 Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2021-2032)

8.3 Asia-Pacific In-situ Resource Utilization (ISRU) Technology Market Size by Region

8.3.1 Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value

by Region (2021-2032)

8.3.2 China In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

8.3.3 Japan In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

8.3.4 South Korea In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

8.3.5 India In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

8.3.7 Australia In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2021-2032)

9.2 South America In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2021-2032)

9.3 South America In-situ Resource Utilization (ISRU) Technology Market Size by Country

9.3.1 South America In-situ Resource Utilization (ISRU) Technology Consumption Value by Country (2021-2032)

9.3.2 Brazil In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

9.3.3 Argentina In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2021-2032)

10.2 Middle East & Africa In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2021-2032)

10.3 Middle East & Africa In-situ Resource Utilization (ISRU) Technology Market Size by Country

10.3.1 Middle East & Africa In-situ Resource Utilization (ISRU) Technology Consumption Value by Country (2021-2032)

10.3.2 Turkey In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

10.3.4 UAE In-situ Resource Utilization (ISRU) Technology Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 In-situ Resource Utilization (ISRU) Technology Market Drivers

11.2 In-situ Resource Utilization (ISRU) Technology Market Restraints

11.3 In-situ Resource Utilization (ISRU) Technology Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 In-situ Resource Utilization (ISRU) Technology Industry Chain

12.2 In-situ Resource Utilization (ISRU) Technology Upstream Analysis

12.3 In-situ Resource Utilization (ISRU) Technology Midstream Analysis

12.4 In-situ Resource Utilization (ISRU) Technology Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Functional Chain, (USD Million), 2021 & 2025 & 2032

Table 3. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Technology Maturity, (USD Million), 2021 & 2025 & 2032

Table 4. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Region (2021-2026) & (USD Million)

Table 6. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Region (2027-2032) & (USD Million)

Table 7. Blue Origin Company Information, Head Office, and Major Competitors

Table 8. Blue Origin Major Business

Table 9. Blue Origin In-situ Resource Utilization (ISRU) Technology Product and Solutions

Table 10. Blue Origin In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 11. Blue Origin Recent Developments and Future Plans

Table 12. Lockheed Martin Company Information, Head Office, and Major Competitors

Table 13. Lockheed Martin Major Business

Table 14. Lockheed Martin In-situ Resource Utilization (ISRU) Technology Product and Solutions

Table 15. Lockheed Martin In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 16. Lockheed Martin Recent Developments and Future Plans

Table 17. ispace Company Information, Head Office, and Major Competitors

Table 18. ispace Major Business

Table 19. ispace In-situ Resource Utilization (ISRU) Technology Product and Solutions

Table 20. ispace In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 21. NASA Company Information, Head Office, and Major Competitors

Table 22. NASA Major Business

Table 23. NASA In-situ Resource Utilization (ISRU) Technology Product and Solutions

Table 24. NASA In-situ Resource Utilization (ISRU) Technology Revenue (USD Million),

Gross Margin and Market Share (2021-2026)

Table 25. NASA Recent Developments and Future Plans

Table 26. Paragon Space Development Corporation Company Information, Head Office, and Major Competitors

Table 27. Paragon Space Development Corporation Major Business

Table 28. Paragon Space Development Corporation In-situ Resource Utilization (ISRU) Technology Product and Solutions

Table 29. Paragon Space Development Corporation In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Paragon Space Development Corporation Recent Developments and Future Plans

Table 31. Intuitive Machines Company Information, Head Office, and Major Competitors

Table 32. Intuitive Machines Major Business

Table 33. Intuitive Machines In-situ Resource Utilization (ISRU) Technology Product and Solutions

Table 34. Intuitive Machines In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Intuitive Machines Recent Developments and Future Plans

Table 36. Airbus Defence and Space Company Information, Head Office, and Major Competitors

Table 37. Airbus Defence and Space Major Business

Table 38. Airbus Defence and Space In-situ Resource Utilization (ISRU) Technology Product and Solutions

Table 39. Airbus Defence and Space In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Airbus Defence and Space Recent Developments and Future Plans

Table 41. ESA Company Information, Head Office, and Major Competitors

Table 42. ESA Major Business

Table 43. ESA In-situ Resource Utilization (ISRU) Technology Product and Solutions

Table 44. ESA In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. ESA Recent Developments and Future Plans

Table 46. Canadian Space Agency Company Information, Head Office, and Major Competitors

Table 47. Canadian Space Agency Major Business

Table 48. Canadian Space Agency In-situ Resource Utilization (ISRU) Technology Product and Solutions

Table 49. Canadian Space Agency In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Canadian Space Agency Recent Developments and Future Plans
Table 51. Interlune Company Information, Head Office, and Major Competitors
Table 52. Interlune Major Business
Table 53. Interlune In-situ Resource Utilization (ISRU) Technology Product and Solutions
Table 54. Interlune In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 55. Interlune Recent Developments and Future Plans
Table 56. KIGAM Company Information, Head Office, and Major Competitors
Table 57. KIGAM Major Business
Table 58. KIGAM In-situ Resource Utilization (ISRU) Technology Product and Solutions
Table 59. KIGAM In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 60. KIGAM Recent Developments and Future Plans
Table 61. CASC Company Information, Head Office, and Major Competitors
Table 62. CASC Major Business
Table 63. CASC In-situ Resource Utilization (ISRU) Technology Product and Solutions
Table 64. CASC In-situ Resource Utilization (ISRU) Technology Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 65. CASC Recent Developments and Future Plans
Table 66. Global In-situ Resource Utilization (ISRU) Technology Revenue (USD Million) by Players (2021-2026)
Table 67. Global In-situ Resource Utilization (ISRU) Technology Revenue Share by Players (2021-2026)
Table 68. Breakdown of In-situ Resource Utilization (ISRU) Technology by Company Type (Tier 1, Tier 2, and Tier 3)
Table 69. Market Position of Players in In-situ Resource Utilization (ISRU) Technology, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 70. Head Office of Key In-situ Resource Utilization (ISRU) Technology Players
Table 71. In-situ Resource Utilization (ISRU) Technology Market: Company Product Type Footprint
Table 72. In-situ Resource Utilization (ISRU) Technology Market: Company Product Application Footprint
Table 73. In-situ Resource Utilization (ISRU) Technology New Market Entrants and Barriers to Market Entry
Table 74. In-situ Resource Utilization (ISRU) Technology Mergers, Acquisition, Agreements, and Collaborations
Table 75. Global In-situ Resource Utilization (ISRU) Technology Consumption Value (USD Million) by Type (2021-2026)

Table 76. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Share by Type (2021-2026)

Table 77. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Forecast by Type (2027-2032)

Table 78. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2021-2026)

Table 79. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Forecast by Application (2027-2032)

Table 80. North America In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2021-2026) & (USD Million)

Table 81. North America In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2027-2032) & (USD Million)

Table 82. North America In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2021-2026) & (USD Million)

Table 83. North America In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2027-2032) & (USD Million)

Table 84. North America In-situ Resource Utilization (ISRU) Technology Consumption Value by Country (2021-2026) & (USD Million)

Table 85. North America In-situ Resource Utilization (ISRU) Technology Consumption Value by Country (2027-2032) & (USD Million)

Table 86. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2021-2026) & (USD Million)

Table 87. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2027-2032) & (USD Million)

Table 88. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2021-2026) & (USD Million)

Table 89. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2027-2032) & (USD Million)

Table 90. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value by Country (2021-2026) & (USD Million)

Table 91. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value by Country (2027-2032) & (USD Million)

Table 92. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2021-2026) & (USD Million)

Table 93. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value by Type (2027-2032) & (USD Million)

Table 94. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value by Application (2021-2026) & (USD Million)

Table 95. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption

Value by Application (2027-2032) & (USD Million)

Table 96. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption

Value by Region (2021-2026) & (USD Million)

Table 97. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption

Value by Region (2027-2032) & (USD Million)

Table 98. South America In-situ Resource Utilization (ISRU) Technology Consumption

Value by Type (2021-2026) & (USD Million)

Table 99. South America In-situ Resource Utilization (ISRU) Technology Consumption

Value by Type (2027-2032) & (USD Million)

Table 100. South America In-situ Resource Utilization (ISRU) Technology Consumption

Value by Application (2021-2026) & (USD Million)

Table 101. South America In-situ Resource Utilization (ISRU) Technology Consumption

Value by Application (2027-2032) & (USD Million)

Table 102. South America In-situ Resource Utilization (ISRU) Technology Consumption

Value by Country (2021-2026) & (USD Million)

Table 103. South America In-situ Resource Utilization (ISRU) Technology Consumption

Value by Country (2027-2032) & (USD Million)

Table 104. Middle East & Africa In-situ Resource Utilization (ISRU) Technology

Consumption Value by Type (2021-2026) & (USD Million)

Table 105. Middle East & Africa In-situ Resource Utilization (ISRU) Technology

Consumption Value by Type (2027-2032) & (USD Million)

Table 106. Middle East & Africa In-situ Resource Utilization (ISRU) Technology

Consumption Value by Application (2021-2026) & (USD Million)

Table 107. Middle East & Africa In-situ Resource Utilization (ISRU) Technology

Consumption Value by Application (2027-2032) & (USD Million)

Table 108. Middle East & Africa In-situ Resource Utilization (ISRU) Technology

Consumption Value by Country (2021-2026) & (USD Million)

Table 109. Middle East & Africa In-situ Resource Utilization (ISRU) Technology

Consumption Value by Country (2027-2032) & (USD Million)

Table 110. Global Key Players of In-situ Resource Utilization (ISRU) Technology

Upstream (Raw Materials)

Table 111. Global In-situ Resource Utilization (ISRU) Technology Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. In-situ Resource Utilization (ISRU) Technology Picture
- Figure 2. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Type in 2025
- Figure 4. Water ISRU
- Figure 5. Gas ISRU
- Figure 6. Mineral ISRU
- Figure 7. Metal ISRU
- Figure 8. Energy ISRU
- Figure 9. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Functional Chain, (USD Million), 2021 & 2025 & 2032
- Figure 10. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Functional Chain in 2025
- Figure 11. Resource Exploration and Mapping
- Figure 12. Mining and Extraction
- Figure 13. Physical/Chemical Extraction
- Figure 14. In-situ Manufacturing
- Figure 15. Energy and Propellant Production
- Figure 16. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Technology Maturity, (USD Million), 2021 & 2025 & 2032
- Figure 17. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Technology Maturity in 2025
- Figure 18. Concept Study Phase
- Figure 19. Ground Validation Phase
- Figure 20. Space Demonstration Phase
- Figure 21. Commercial Application Phase
- Figure 22. Global In-situ Resource Utilization (ISRU) Technology Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 23. In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Application in 2025
- Figure 24. Lunar ISRU Picture
- Figure 25. Mars ISRU Picture
- Figure 26. Others Picture
- Figure 27. Global In-situ Resource Utilization (ISRU) Technology Consumption Value,

(USD Million): 2021 & 2025 & 2032

Figure 28. Global In-situ Resource Utilization (ISRU) Technology Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 29. Global Market In-situ Resource Utilization (ISRU) Technology Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)

Figure 30. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Region (2021-2032)

Figure 31. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Region in 2025

Figure 32. North America In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 35. South America In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 37. Company Three Recent Developments and Future Plans

Figure 38. Global In-situ Resource Utilization (ISRU) Technology Revenue Share by Players in 2025

Figure 39. In-situ Resource Utilization (ISRU) Technology Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 40. Market Share of In-situ Resource Utilization (ISRU) Technology by Player Revenue in 2025

Figure 41. Top 3 In-situ Resource Utilization (ISRU) Technology Players Market Share in 2025

Figure 42. Top 6 In-situ Resource Utilization (ISRU) Technology Players Market Share in 2025

Figure 43. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Share by Type (2021-2026)

Figure 44. Global In-situ Resource Utilization (ISRU) Technology Market Share Forecast by Type (2027-2032)

Figure 45. Global In-situ Resource Utilization (ISRU) Technology Consumption Value Share by Application (2021-2026)

Figure 46. Global In-situ Resource Utilization (ISRU) Technology Market Share Forecast by Application (2027-2032)

Figure 47. North America In-situ Resource Utilization (ISRU) Technology Consumption

Value Market Share by Type (2021-2032)

Figure 48. North America In-situ Resource Utilization (ISRU) Technology Consumption

Value Market Share by Application (2021-2032)

Figure 49. North America In-situ Resource Utilization (ISRU) Technology Consumption

Value Market Share by Country (2021-2032)

Figure 50. United States In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Type (2021-2032)

Figure 54. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Application (2021-2032)

Figure 55. Europe In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 57. France In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Type (2021-2032)

Figure 62. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Application (2021-2032)

Figure 63. Asia-Pacific In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Region (2021-2032)

Figure 64. China In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 65. Japan In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 66. South Korea In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 67. India In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 68. Southeast Asia In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 69. Australia In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 70. South America In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Type (2021-2032)

Figure 71. South America In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Application (2021-2032)

Figure 72. South America In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Type (2021-2032)

Figure 76. Middle East & Africa In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Application (2021-2032)

Figure 77. Middle East & Africa In-situ Resource Utilization (ISRU) Technology Consumption Value Market Share by Country (2021-2032)

Figure 78. Turkey In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 79. Saudi Arabia In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 80. UAE In-situ Resource Utilization (ISRU) Technology Consumption Value (2021-2032) & (USD Million)

Figure 81. In-situ Resource Utilization (ISRU) Technology Market Drivers

Figure 82. In-situ Resource Utilization (ISRU) Technology Market Restraints

Figure 83. In-situ Resource Utilization (ISRU) Technology Market Trends

Figure 84. Porters Five Forces Analysis

Figure 85. In-situ Resource Utilization (ISRU) Technology Industrial Chain

Figure 86. Methodology

Figure 87. Research Process and Data Source

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