

Global In-situ Resource Utilization (ISRU) Technology Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global In-situ Resource Utilization (ISRU) Technology market size is predicted to grow from US\$ 550 million in 2025 to US\$ 2739 million in 2032; it is expected to grow at a CAGR of 25.9% from 2026 to 2032.

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.

United States market for In-situ Resource Utilization (ISRU) Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for In-situ Resource Utilization (ISRU) Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for In-situ Resource Utilization (ISRU) Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key In-situ Resource Utilization (ISRU) Technology players cover Blue Origin, Lockheed Martin, ispace, NASA, Paragon Space Development Corporation, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'In-situ Resource Utilization (ISRU) Technology Industry Forecast' looks at past sales and reviews total world In-situ Resource Utilization (ISRU) Technology sales in 2025, providing a comprehensive analysis by region and market sector of projected In-situ Resource Utilization (ISRU) Technology sales for 2026 through 2032. With In-situ Resource Utilization (ISRU) Technology sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world In-situ Resource Utilization (ISRU) Technology industry.

This Insight Report provides a comprehensive analysis of the global In-situ Resource Utilization (ISRU) Technology landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on In-situ Resource Utilization (ISRU) Technology portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global In-situ Resource Utilization (ISRU) Technology market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for In-situ Resource Utilization (ISRU) Technology and

breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global In-situ Resource Utilization (ISRU) Technology.

This report presents a comprehensive overview, market shares, and growth opportunities of In-situ Resource Utilization (ISRU) Technology market by product type, application, key players and key regions and countries.

Segmentation by Type:

Water ISRU

Gas ISRU

Mineral ISRU

Metal ISRU

Energy ISRU

Segmentation by Functional Chain:

Resource Exploration and Mapping

Mining and Extraction

Physical/Chemical Extraction

In-situ Manufacturing

Energy and Propellant Production

Segmentation by Technology Maturity:

Concept Study Phase

Ground Validation Phase

Space Demonstration Phase

Commercial Application Phase

Segmentation by Application:

Lunar ISRU

Mars ISRU

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Blue Origin

Lockheed Martin

ispace

NASA

Paragon Space Development Corporation

Intuitive Machines

Airbus Defence and Space

ESA

Canadian Space Agency

Interlune

KIGAM

CASC

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