

Space Fuel Production Market Set to Reach \$2.3 Billion by 2029

The Business Research Company's Space Fuel Production Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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/EINPresswire.com/ -- What Is The Expected Cagr For The Space Fuel Production Market Through 2025?

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The [space fuel production market size](#) has seen a rapid expansion in the past several years. The forecast is for it to rise from \$1.41 billion in 2024 to \$1.55 billion in 2025, signifying a compound

annual growth rate (CAGR) of 10.6%. This significant historical growth is due to several factors including higher demand for exploration beyond our local space neighborhood, the emergence of reusable launching systems, expanded government space programs, the growth of commercial space transport systems, longer space mission requirements, and strategic pursuits of independence in extraterrestrial resources.



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Anticipating an expeditious surge over the upcoming years, the market for space fuel production is projected to attain

a value of \$2.30 billion by 2029, growing at a CAGR of 10.3%. This upswing for the predicted timeframe might be influenced by factors such as a mounting requirement for in-orbit refuelling, the escalation in moon and Mars missions, expansion of commercial space activities, government funds dedicated to sustainable space infrastructure, partnerships centred around space logistics hubs and the drive towards prolonged deep space exploration. Prominent trends foreseen for this period encompass progress in in-situ resource utilization, establishment of fuel plants on the moon and Mars, incorporation of stand-alone mining technologies, embracing of cryogenic storage advancements, monetization of orbital refuelling stations and the usage of environmentally-friendly propellants.

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What Are The Key Factors Driving Growth In The Space Fuel Production Market?

The [space fuel production market growth](#) is anticipated to be boosted by the rising investments in space activities. These activities involve human endeavors to explore and use outer space by executing tasks like satellite launch, missions, and delivering space-related services. The increment in investments is driven by the surging demand for communication and data services fueled by satellites. Space fuel production plays a pivotal part in these space activities as it allows effective spacecraft propulsion, in-orbit refueling, and extended duration missions. For instance, the World Economic Forum, a non-profit organization based in Switzerland, predicted in April 2024 that the space economy would escalate from \$630 billion in 2023 to \$1.8 trillion by 2035, indicating an average annual growth rate of 9%. Therefore, the spike in investments in space activities contributes to the advancement of the space fuel production market. The swelling number of satellite launches is anticipated to further spur the growth of the space fuel production market. Delivering functions like communication, location tracking, weather forecasts, and remote sensing are the key services provided by satellites. The rising demand for universal connectivity and access to data in remote regions are factors that are causing an upsurge in satellite launches. These launches necessitate the production of space fuel for efficient and sustainable propellants, orbital maneuvers, and long-term missions. As reported by the Government Accountability Office, a US-based government agency, as of spring 2022, the count of active satellites in orbit is nearly 5,500, with an expectation of an additional 58,000 to be launched by 2030. Consequently, the escalating number of satellite launches is stimulating the growth of the space fuel production market.

What Are The Top Players Operating In The Space Fuel Production Market?

Major players in the Space Fuel Production Global Market Report 2025 include:

- The Boeing Company
- Lockheed Martin Corporation
- Northrop Grumman Corporation
- Space Exploration Technologies Corp. (SpaceX)
- Blue Origin LLC
- Aerojet Rocketdyne Holdings Inc.
- Sierra Nevada Corporation
- United Launch Alliance LLC
- Relativity Space Inc.
- Firefly Aerospace Inc.

What Are The Major Trends That Will Shape The Space Fuel Production Market In The Future?

Leading firms in the space fuel production market are capitalizing on strategic alliances to improve their technological competencies, fast-track innovation, and collaboratively work on high-performing fuel systems for extended space missions. These strategic collaborations involve the mutual leveraging of strengths and resources of companies to attain shared benefits and triumphs. For example, in March 2022, Spain-based Tekniker technology center joined forces with the University of Cantabria, also in Spain, to roll out the HISRU project. This initiative aims to develop a reactor capable of transforming Mars' abundant CO₂ into methane fuel by using solar power and the greywater from astronauts. This creative system, designed to support the European Space Agency's upcoming Mars ventures, will lessen dependence on Earth-based supplies as it will facilitate direct fuel production on Mars. The practicality and efficacy of this reactor under Martian conditions will be evaluated through preliminary tests and the development of a prototype.

Comprehensive Segment-Wise Insights Into The Space Fuel Production Market

The space fuel production market covered in this report is segmented –

- 1) By Fuel Type: Hydrogen, Methane, Nuclear, Solar, Other Fuel Types
- 2) By Technology: In-Situ Resource Utilization, Chemical Propulsion, Electric Propulsion, Other Technologies
- 3) By Application: Spacecraft Propulsion, Satellite Power Systems, Space Stations, Other Applications
- 4) By End-User: Government And Defense, Commercial, Other End-Users

Subsegments:

- 1) By Hydrogen: Liquid Hydrogen, Compressed Hydrogen Gas, Metal Hydride Storage, Cryo-Compressed Hydrogen
- 2) By Methane: Liquid Methane, Compressed Methane Gas, Methane-Hydrogen Mix, Renewable Methane
- 3) By Nuclear: Fission-based Nuclear Fuel, Fusion-based Nuclear Fuel, Radioisotope Thermoelectric Generators (RTGs), Nuclear Thermal Propulsion (NTP)
- 4) By Solar: Photovoltaic Solar Fuel, Solar Thermal Fuel, Solar Hydrogen Production, Solar Biomass Conversion
- 5) By Other Fuel Types: Ionic Liquid Fuels, Solid Rocket Fuel, Electrochemical Propellants, Hybrid Rocket Fuels

View the full space fuel production market report:

<https://www.thebusinessresearchcompany.com/report/space-fuel-production-global-market-report>

Global Space Fuel Production Market - Regional Insights

For the year under discussion in the Space Fuel Production Global Market Report 2025, North

America held the position of the leading region. The forecast for its growth remains favorable. The report covers several regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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