



ATOMOS NUCLEAR AND SPACE

SPLITTING THE ATOM TO CONNECT THE PLANETS

Atomos is a provider of in-space power technologies and transportation services for commercial, civil, and military space operations. We are developing a suite of spacecraft designed to move other spacecraft and maintain the orbital environment. We believe heavy-duty, long-duration space operations can only be enabled and sustained by robust and safe nuclear power technologies and a stable, scalable in-space transportation infrastructure. Our vision is to become the logistics provider of the solar system.

Companies capable of leveraging the scalability and superior performance of nuclear power technologies to improve time and resource efficiencies of in-space operations will enable themselves and their customers to outperform competitors whether they are in commercial markets, on scientific expeditions, or performing military operations. Nuclear-electric power and propulsion (NEPP) systems extend spacecraft capabilities to move faster, carry more, and operate longer than any other existing solution.



IN-SPACE TRANSPORTATION LOGISTICS

Atomos is building spacecraft to move other spacecraft, precision-placing new orbital assets, recovering misplaced satellites, removing defunct satellites, and opening access to deep space. Our electric-propulsion spacecraft are capable of operating longer, transferring more mass, and moving more efficiently than any other solution, leveraging new power technologies to reach unprecedentedly high levels of electrical power.

This strategic shift in space logistics enables entirely new capabilities and opens significant growth opportunities for launch providers and satellite operators, offering leading market players diversified logistics and deployment models to maintain competitiveness and deliver new value to their customers. We focus dominantly on providing in-space transportation services, allowing us to cultivate a lean company structure, streamline our operations to control costs, and keep to a tightly targeted customer acquisition plan. By targeting a niche, but fundamentally critical part of the logistics chain, we can most effectively serve our customers.

SPACE NUCLEAR POWER TECHNOLOGIES

Nuclear power and space travel are made for each other; nuclear technologies enable entirely new space-based transportation business models that can cost-effectively serve every existing class of spacecraft. Atomos is pioneering the commercialization of nuclear fission power systems for heavy-duty, long-duration space applications, developing a lightweight, fail-safe fission reactor that utilizes commercially-available nuclear fuels, improving performance and reducing production costs. Advances in sub-systems like power electronics and radiators enable integration into high-performance spacecraft and also open adjacent space and terrestrial markets.

Nuclear power technologies offer order-of-magnitude jumps in available electrical power compared to existing technologies in unobtrusive, compact form factors. The high power densities and long service lives characteristic of nuclear power technologies increase the available electrical power for space and surface operations and reduce the spacecraft thrust-to-mass ratio for electric propulsion vehicles, revolutionizing how we can explore and develop space.

TECHNOLOGY DEVELOPMENT & COMMERCIALIZATION TIMELINE

