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ENVIRONMENTAL IMPACT OF THE TALARA SPACE PORT PIURA: PERSPECTIVES AND CHALLENGES

Abstract

The development of the first spaceport in Talara, Piura represents a significant advance for the aerospace industry in Peru and South America. However, the implementation of this project carries significant environmental concerns that must be evaluated to ensure sustainable development. This study investigates the potential environmental impacts associated with the construction and operation of the Talara spaceport. Greenhouse gas emissions, noise pollution, waste generation, and the impact on local biodiversity are analyzed. Using environmental modeling and impact analysis methods, the main sources of pollution and their possible effects on the environment and human health are identified. Additionally, mitigation strategies are explored, including the use of clean technologies, proper waste management, and the implementation of biodiversity conservation programs. The results indicate that while the spaceport may generate certain levels of pollution, there are significant opportunities to minimize these impacts by adopting sustainable practices and advanced technologies. This study highlights the importance of careful planning and collaboration between government entities, the scientific community, and industry to ensure that the Talara spaceport contributes to economic development without compromising environmental health.