

Topics (T)

Space Technology for Climate Adaptation and Mitigation [2] (6B)

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## SPACE EXPLORATION AND SUSTAINABLE TECHNOLOGY

**Abstract**

Space exploration has a significant impact on scientific, economic, political, and social development. Therefore, it is important to recognize the advances in sustainable technologies that have developed as a result of space exploration. The main goal of this research project was to identify the sustainable technologies that have developed from space exploration. Derived from the analysis of this discoveries, this research project identified successful cases that highlight how space exploration has influenced the development of sustainable technologies. This paper details the contribution of the study and application of solar cells in sustainable technologies; the incipient technological development of carbon dioxide reactors and their connection to space exploration. Space exploration is essential to the development of sustainable technologies, as it promotes research and scientific projects that will allow us to take advantage, responsibly, of natural resources. The well-being of future generations, as well as their ability to continue satisfying their needs while protecting the environment, depends on our ability to promote science that is beneficial to society.