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DEMAND ANALYSIS OF SPACE STATION FLEXIBLE SOLAR ARRAY'S APPLICATIONS AND  
FEASIBILITY EVALUATION OF THEIR POWER GENERATION PROGRAM

**Abstract**

With the deepening of China's manned space missions, the project of founding our independent research and construct space station has been gradually put on the agenda. The space station is different from the traditional satellites, which is large, more powerful, and has a longer life. These new characteristics require more power supply from the solar arrays. Though comparing the structures of different solar arrays and analyzing the practical applications of International Space Station, the demand analysis of flexible solar array was made and evaluated the feasibility of its power generation program to our space station. These works will make positive contribution to the selection of China's space station solar arrays in the future.