

Application of photovoltaic panels in space

OverviewHistoryUsesImplementationIonizing radiation issues and mitigationTypes of solar cells typically usedSpacecraft that have used solar powerFuture usesSpacecraft operating in the inner Solar System usually rely on the use of power electronics-managed photovoltaic solar panels to derive electricity from sunlight. Outside the orbit of Jupiter, solar radiation is too weak to produce sufficient power within current solar technology and spacecraft mass limitations, so radioisotope thermoelectric generators (RTGs) are instead used as a power so...

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