Rotating reflectors in solar power plants

Orbiting reflectors offer the possibility of illuminating large terrestrial solar power plants to enhance their output, particularly at dawn and dusk when their output is low but energy spot prices ...

Given the large number of reflectors being constructed, the cost to purchase a single reflector from this large production run would be relatively small, compared with developing and manufacturing a ...

Orbiting Solar Reflectors (OSRs) can be used to reflect sunlight locally to terrestrial solar power plants to enhance solar energy generation. Displaced polar orbits can, in principle, change the...

"A referencearchitecture for orbiting solar reflectors to enhance terrestrial solar power plant output", Advances in Space Research, Vol. 72, No. 4, pp. 1304-1348, 2023

A system for rotating a set of reflectors (10i) of a concentrating solar power plant comprises hinge elements (11) staggering the reflectors (10i) along a line (1) and providing a...

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The objective of this study is to examine the suitability of various reflector shapes and height of the tower for the existing heliostat field, at UTP solar site, for a minimum radiation spread and low beam travel ...

Scientists in the United Kingdom have proposed using orbiting solar reflectors to enhance the electricity yield of terrestrial solar power plants. They claim this new technology may be ...

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