



Stratospheric wind and solar power

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Renewable energy depends on sunlight, wind, and other environmental energy sources. How could climate change and geoengineering with stratospheric aerosol injection (SAI) affect ...

Current stratospheric airships generally employ photovoltaic cycle energy systems. Accurately calculating their power generation is significant for airships" overall design and mission ...

Our findings provide important insights for building future climate-resilient power systems while reducing system costs.

The extra layer of scrutiny for wind and solar contrasts with actions by the Trump administration to make it easier and cheaper for companies to produce oil, coal, gas and nuclear power.

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In a pair of studies, published in Earth System Dynamics and Earth's Future, we explore the potential impact that deploying SAI could have on the potential to generate wind and solar ...

We demonstrate that these phenomena are related to the perturbations induced on the polar vortex in the stratosphere, in direct relation to the quality of the insolation, the power of solar...

Abstract Wind renewable energy (WRE) is an essential component of the global sustainable energy portfolio. Recently, there has been increasing discussion on the potential ...

Limited by the energy density, energy storage represented by Lithium-ion battery cannot meet the increasing energy requirements of diverse payloads on solar-powered stratospheric airship ...

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In this paper, the hybrid fuel cell/battery system for stratospheric airship is presented. The relationship between the real wind field and the demand power is illustrated.

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