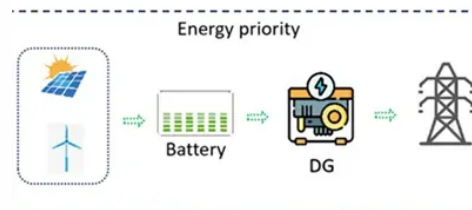


Solar energy system modification



Overview

Solar Radiation Modification (SRM) refers to deliberate, large-scale actions intended to decrease global average surface temperatures by increasing the reflection of sunlight away from the Earth. SRM is not considered a substitute for climate mitigation efforts, which include decarbonization and. Undertaking modifications necessitates a thorough understanding of existing systems, limiting variables, and evaluating both cost and benefits. However, most simulations to date assume SRM to be an additive component to the climate change. The quest for clean and sustainable energy sources has positioned solar power as a cornerstone in the global shift away from fossil fuels. Harnessing the sun's boundless energy holds immense potential for powering our homes, businesses, and entire communities. It includes cirrus cloud thinning (allowing more sun-light to escape out from the at-mosphere), ground- or ocean/ ice-surface-based Albedo mod-ification (creating more reflec-tive ground surfaces), marine cloud brightening, stratospher-ic aerosol.



Article Content

Solar radiation modification

OverviewContextHistoryMethodsCostEffectsGovernanceSupport for research

Solar radiation modification (SRM) (or solar geoengineering) is a group of large-scale approaches to reduce global warming by increasing the amount of sunlight that is reflected away from Earth and back to space. It is not intended to replace efforts to reduce greenhouse gas emissions, but rather to complement them as a potential way to limit global warming. SRM is a form of geoengineering.

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Solar radiation modification

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WHAT IS SOLAR RADIATION MODIFICATION WHY IT ...

N WHAT IS SOLAR RADIATION MODIFICATION WHY IT MATTERS: Solar Radiation Modification (SRM)¹ – also called “solar geoengineering” – is an umbrella term for technologies aimed at reducing...

Solar Energy Resources

A curated list of government-funded resources and guides on solar energy technologies to make it easier for you to find information about solar.

Retrofit A Home Solar Energy System When You Need More Power

If you need more energy for your home, retrofit a solar energy system to meet your energy goals with many options like panels, inverters, and optimizers.

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