



Can clams be raised under photovoltaic panels





Overview

Giant clams can make solar energy more efficient by achieving 67% photosynthetic light-use efficiency under natural tropical light. New research from Yale University indicates that one organism has developed a way to convert at least 67% of the sunlight that hits it into usable energy: the giant clam. In a new study, Yale researcher Alison Sweeney found that giant clams in the Western Pacific may be the most efficient solar energy system on the planet. Solar panel and biorefinery designers could learn a thing or two from iridescent giant clams living near tropical coral reefs, according to a new study. The study highlights the vibrant colors of giant clams, which are not only visually stunning but also play a crucial role in coral reef ecosystems, particularly in the Southeast Pacific. Amanda Holt from Yale University, and Dr. Interesting! These incredible creatures are filled with.



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[Giant clams may hold the answers to making solar energy more](#)

Solar panel and biorefinery designers could learn a thing or two from iridescent giant clams living near tropical coral reefs, according to a new Yale-led study.

[Giant Clams: The Unexpected Pioneers of Solar Efficiency](#)

Giant clams, often overlooked in the discussion of renewable energy, are becoming the focus of intense scientific scrutiny. These marine marvels possess a sophisticated system of ...



[Giant clams inspire breakthroughs in solar energy efficiency](#)

By incorporating structures that mimic the iridocytes of giant clams, solar panels could improve their ability to absorb and convert sunlight into energy. "This research is exciting because it shows how ...

[Giant Clams: Nature's Most Efficient Solar Energy ...](#)

"The truth is that clams are more efficient at solar energy conversion than any existing solar panel technology."

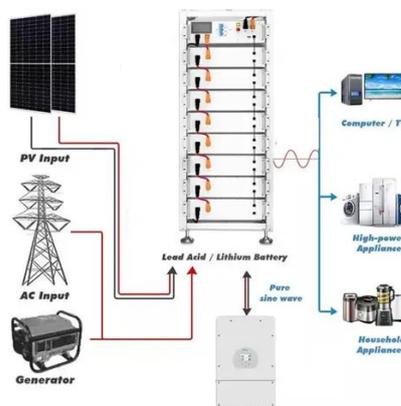


Giant, Sparkly Clams Hide the Most Efficient Solar Panels Ever Found

In the new study, the researchers resolved this discrepancy by factoring in a quirk of clam behavior: there is evidence that clams might inflate and deflate their mantle throughout the day.

Solar Panel Efficiency Improvements Mimicking Giant Clam Algae

By studying the arrangement of the algae within the clams, scientists could potentially enhance solar panel efficiency, making them more effective in harnessing solar energy.



Giant, Sparkly Clams Hide the Most Efficient Solar ...

In the new study, the researchers resolved this discrepancy by ...

Giant Clams Can Make Solar Energy More



[Efficient, says researchers](#)

Researchers discovered that giant clams can make solar energy more efficient. Photosymbiotic giant clams have vertical columns of single-celled algae that absorb sunlight.



[How to increase solar energy efficiency with giant clams](#)

Scientists discover why giant clams are nearly twice as efficient as our best photovoltaics at capturing solar energy.

[Giant clams could inspire better solar power systems](#)

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