



Italian Clam solar Container

Why do giant clams have iridescent insides? Giant clams' iridescent insides form a powerful system for taking in sunlight. Join Our Community of Science Lovers! I agree my information will be processed in accordance with the Scientific American and Springer Nature Limited Privacy Policy. How do clams grow? The clam's algae form a distinctive orderly pattern, arranged in thin columns that stretch from each iridocyte down into the flesh. "The clam basically plants them as if it were an agricultural field," Sweeney says. (The algae also travel between clams in pellets of poop.) and three times that of a tropical leaf. Do clams inflate and deflate during the day? 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. This could let the clams further optimize their sunlight exposure, the scientists determined--allowing them to clock in at a modeled 67 percent efficiency. Do clams eat algae? The rest of the incoming light is absorbed, and much of it is channeled to photosynthetic algae the clams cultivate within their bodies as a food source. Giant, Sparkly Clams Hide the Most Efficient Solar Giant clams' iridescent insides form a powerful system for taking in sunlight. These Giant Sparkly Clams Hide the Best Solar Panels Ever Discover how giant iridescent clams in tropical reefs have evolved the most efficient natural solar panels. Giant clams could inspire better solar power systems 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. How to increase solar energy efficiency with giant clams As scientists are experimenting with how best to combine cropland with solar panels, it's easy to imagine how Sweeney's team's insights from giant clams could inspire new 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 Giant clams may be the most efficient solar energy In a new study led by Yale University, experts suggest that the solution to solar energy efficiency may lie beneath the tropical coral reefs. Stepping away from conventional thinking, giant clams possess what 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 Unearthing Solar Cell Inspiration from Giant Clams: Insights from In an unexpected twist, inspiration for boosting solar panel efficiency may come from the vibrant, giant clams inhabiting the waters of the Western Pacific Ocean. Are Giant Clams the Key to Optimized Solar Energy Storage in Giant clams have the potential to revolutionize optimized solar storage in . However, researchers must engineer a viable innovation for capturing and storing solar power Giant Clams Can Make Solar Energy More Giant clams can make solar energy more efficient by achieving 67% photosynthetic light-use efficiency under natural tropical light. Giant, Sparkly Clams Hide the Most Efficient Solar Panels Ever Giant clams' iridescent insides form a powerful system for taking in sunlight. Giant clams may be the most efficient solar energy systems on In a new study led by Yale University, experts suggest that the solution to solar energy efficiency may lie beneath the tropical coral reefs.



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