

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

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.

Stepping away from conventional thinking, giant clams possess what could be the most efficient solar energy systems found on Earth.

Giant clams can make solar energy more efficient by achieving 67% photosynthetic light-use efficiency under natural tropical light.

What makes the clam's structure interesting isn't just this symbiotic relationship, but its efficiency. Food crops grown under high solar energy, similar to the tropical environment of the clam, only convert ...

An iridescent giant clam hooks up with algae to inspire a new, nature-based approach to solar cell technology.

Giant clams have the potential to revolutionize optimized solar storage in 2025. However, researchers must engineer a viable innovation for capturing and storing solar power for independent ...

Algae inside giant clams are arranged in vertical columns on their surfaces - a critical adaptation that allows them to absorb sunlight optimally. This arrangement, coupled with the light manipulation by ...

In research published in PRX Energy, Sweeney and her team studied the arrangement of the clams' symbiotic algae, which settle in tiny modified tubes extending up from the digestive system.

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# Italian Clam Photovoltaic Container

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