

# Breakthrough solar panels that can withstand even the biggest storms

The French Center for Materials Formation has developed a solar panel system that can withstand even heavy storms.

Solar panels developed by researchers in France can adjust themselves in strong wind conditions such as hurricanes, opening up new prospects for clean energy. The study, published in the journal *Physics of Fluids*, shows that the panels can tilt at different angles to minimize stress from the wind, instead of remaining flat as before.



Current solar panels struggle in windy conditions.

They are 'teaching' solar panels to adapt to the wind, reducing damage and protecting energy production in high winds, according to researcher Elie Hachem. Solar panels play a vital role in renewable energy production, but they also face challenges, especially when faced with high winds that can cause significant damage and increase repair costs.

The traditional method involves tilting panels during storms, but this prevents them from producing electricity. The new system allows panels to self-correct and continue operating, reducing damage and insurance costs, making solar projects more viable.

The durability of panels is becoming increasingly important as solar farms expand. Reducing the risk of natural disasters will make solar energy a more affordable option for cities and businesses. With new technology, solar solutions like rooftop panels can not only help reduce electricity bills but also support the local renewable energy grid.



But new research may help address this problem.

The innovation is part of an effort to make renewable energy more sustainable. Technologies like solar tracking racks combined with wind-responsive systems will help cut pollution, reduce dependence on fossil fuels and improve air quality. Cleaner air means fewer respiratory problems and a better quality of life.

Organizations like Rewiring America are working to make clean energy more accessible to consumers, while others are focused on expanding the use of solar. Addressing issues like storm damage will allow solar to play a larger role in clean energy production. As these systems improve, we will move closer to a future with robust, reliable, and resilient renewable energy.

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