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Title: Multi-directional wind gathering micro-wind power generation technology

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In this paper, we propose a novel wind energy harvester (WEH) using a wind vane and PVDF film to convert the multidirectional wind energy in the grid into electricity.

The proposed configuration sheds light on developing multi-directional and multi-modal VIV-based energy harvesters adapted to wind ...

The proposal is developed in four phases: (1) identify activities that generate wind, (2) collect data on wind speed and direction, (3) perform a ...

The TENG-WIV simultaneously harvests multi-directional wind energy and realizes wind direction monitoring in the agricultural environment, providing meteorological information such as ...

O-Wind is a bladeless, 3D-omnidirectional turbine that captures chaotic urban winds from any direction (horizontal and vertical). It's quiet, safe, wildlife-friendly, and ...

A unique oscillating wind-driven triboelectric nanogenerator (OWTENG) based on the sphere's vortex-induced vibration (VIV) behavior is ...

Compared to hybrid harvesters with limited functionality, this paper introduces a novel triboelectric-electromagnetic hybrid generator (TEHG) ...

The present invention relates to a wind power generator, and more particularly, to a multi-directional wind power generator capable of maximizing the use of the wind as well as...

A novel multi-layered triboelectric-electromagnetic hybrid generator (TEHG) for broadband wind energy collection and wind vector monitoring was built.



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The wind turbine at the large scale systems with an enormous towers are expensive, annoying to the wildlife and limited in the middle east culture, the new tech

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