

Title: Wind tube water spray power generation

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Water is funneled into a pressurized pipeline with a narrow nozzle at one end. The water sprays out of the nozzle in a jet, striking the double-cupped buckets attached to the wheel.

Wind energy pumping water is an innovative method that harnesses wind power to move and distribute water for various purposes. It involves converting the kinetic energy of wind into ...

Precision spray nozzles for renewable energy--boost output 8-25%, cut water use 60-85%, extend equipment life, and support sustainability goals.

A novel renewable hybrid system was developed that combines the Venturi principle and a wind power rotor to achieve water evaporation, power generation, and collection of condensed ...

This study presents the development of a novel hybrid wind power generator-water distillation system with the objective of providing sustainable solutions for impoverished isolated...

The invention relates to a power supply device for applying a wind and hydrogen new energy technology to a water-saving spray irrigation system, belonging to the technical field of new...

Here, by encapsulating deionized DI water into a fluorinated ethylene-propylene tube, a versatile and high-performance water-tube-based TENG (WT-TENG) is developed.

To enhance the efficiency of medium to low-temperature geothermal power systems, we designed a novel in-tube spray evaporative condenser. Experimental setups for single-tube heat ...

Sprays are widely distributed in nature and industry, but how to convert the energy inherent in sprays into electricity in an efficient and low-cost way is challenging. Herein, we ...

The dependence of output performance on the tube length, wall thickness, tube diameter, spray pressure, tube



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material, and liquid type was systematically investigated.

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