# Wind-driven circular track power generation

This study demonstrates the harvesting of wind energy by a wind-rolling triboelectric nanogenerator (WR-TENG). The WR-TENG generates electricity from wind as a lightweight dielectric...

Airloom Energy is presenting its alternative wind power generation technology at CES 2026, positioning the system as a potential solution for powering data centers that are experiencing ...

The Airloom generates energy with vertical blades, called wings, connected to an oval track. The 10-meter wings operate like a horizontal-axis wind turbine and travel the track like a roller ...

Built on 150 years of industrial knowledge, the turbine features vertical blades that rotate along an oval track mounted on posts. The entire device can fit into the back of a semi-trailer.

Already a very efficient power source, bigger, longer lasting turbines, made from "green" steel are set to make wind power even more attractive. What to do with the used blades poses ...

The invention relates to a circular-orbit wind power generating device which is innovatively provided with a circular-orbit and an axle center to enable a giant vertical wind machine to...

Is there a better design in the wings? Enter Airloom. It uses a circular track that can vary in size from metres to kilometres. The towers that track stand 25 metres high and wings replace ...

Rotational WTENGs resemble traditional electromagnetic wind turbines, utilizing wind cups or wind wheels to capture wind energy. The captured energy is subsequently converted into ...

Freely rotating cylindrical shell enclosed in a circular track, integrating aerodynamic guide vanes to stabilize rolling motion, enhance charge transfer efficiency, and improve wind energy ...

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