Solar powered wind turbines

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Energy company IBIS Power can’t seem to choose between wind turbines and solar panels to power up buildings with renewable energy, so they just combine both for PowerNEST. The design team devises a rooftop system that fuses wind and solar hardware to provide electricity to medium- and high-rise buildings.

A wind turbine with spinning sloped rotors sits below grids of solar panels, and the two boost each other’s capabilities. Since they both produce energy, PowerNEST claims that their technology is poised to capture 10 times more electricity than rooftop solar panels alone.

The promises PowerNEST bears when companies install their technology include meeting new emission standards, cutting electricity bills, and lowering carbon footprint. ‘You can achieve off-grid energy independence and reduce the world’s use of gasoline and fossil fuels with PowerNEST,’ the company says.

PowerNEST by IBIS Power adds perimeter fins around the architecture of the wind turbine to help channel the wind from outside into the turbine’s quarters. The energy company says that the entire PowerNEST structure funnels airflow using the Venturi Effect to dramatically increase wind speed over the turbine.

‘A bi-facial solar canopy captures more sunlight, at more angles, than a normal solar installation. The entire system can be adapted to optimize energy capture in your local weather conditions. That is how PowerNEST silently generates enough electricity to fully power a 15-story residential building,’ the company says.

The Venturi effect that the energy company is aiming for is dubbed to add 40 to 60 percent more wind flow to the wind turbine, creating power even in a slight breeze. The solar panels are angled bi-facially to generate energy above and below while being cooled by the air.

The combo of wind turbines and solar panels captures more energy, in more weather conditions, than other on-site systems as the company claims. PowerNEST can cater to any residential, commercial, or public building so long as it has a flat roof. The company says that while a 50-square-meter space is required, the more roof space there is, the more energy output the system can provide.

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