

## SolarInnovate Energy Solutions

# Factory roof wind power generation system



## Overview

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Can a rooftop wind energy generator be used for industrial buildings?

This could produce more than 100 percent of a building's electrical needs, especially when installed on large, flat rooftop buildings like warehouses, offices, or apartment buildings. Using aerodynamic first principles, a new type of rooftop wind energy generator matches solar power for industrial buildings.

Can a rooftop wind energy generator match solar power for industrial buildings?

Using aerodynamic first principles, a new type of rooftop wind energy generator matches solar power for industrial buildings. Every once in a while, an elegant piece of engineering hits the technology scene. Such is the case with a vertical rooftop wind generator that uses aerodynamic first principles to harvest wind to create electrical energy.

What is a vertical rooftop wind generator?

Such is the case with a vertical rooftop wind generator that uses aerodynamic first principles to harvest wind to create electrical energy. Aeromine Technologies is a startup company located in Houston, Texas, that was started by Texas Tech University professor Carsten H. Westergaard.

What is wind my roof?

In partnership with VINCI Energies, the Wind my Roof startup has developed an original power generation solution involving a compact wind turbine installed on building roof-tops. Antoine Brichot, co-founder of the startup, and Antoine de Broves, technical and innovation manager at Omexom, outline their collaboration which began in 2017.

Is rooftop wind energy a good idea?

Rooftop wind energy is also attractive because it can provide energy after dark if the wind blows. The problem is that traditional wind turbine designs

with blades that spin about a horizontal axis and will fit on most rooftops cannot be made large enough to provide sufficient energy.

How does wind power benefit a factory?

This wind generation can then be directly fed into the factory's electrical infrastructure, reducing the need for grid-supplied electricity. To maximize the benefits of wind power, manufacturers are optimizing turbine siting and deploying advanced blade designs that enhance energy capture.

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