



Wind powered microgrid

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Dallas-based Hover Energy, which makes wind-powered microgrids with solar and storage, is going to begin commercial-scale production in January 2023. And potential customers can feel confident about the resiliency of the company's rooftop-mounted microgrids -one survived 105 mph winds during Hurricane Ian.

It's installed as an array on the windward edge of a building's roof. The aerodynamic design uses the building as a sail and delivers commercial-scale power.

The energy captured by both sources is directed to Hover's Integrated Energy Management System where the energy is combined, cleaned, and converted into three-phase AC power that is directly linked to the building management system.

Excess power, such as power generated at night, can be stored in batteries. Hover Energy says tests have proved that its microgrid can offset 100% of a building's power consumption in most cases. Time of use remains the only challenging factor, as with any microgrid.

The company partnered with global electronics manufacturer Jabil in 2017 in order to test its rooftop array system. Hover Energy installed its first array system on Jabil's building in St. Petersburg, Florida, in 2021, to test it out.

There is constant experimentation in the renewable energy sector, but only a small percentage of these ideas make it through testing and are made available to the market at scale.

Hover spent nearly 8 years in R& D, followed by two years of rigorous testing at our installation site in St. Petersburg, Florida. We know of no other wind technology that has survived two hurricanes (i.e. Ian) and is still functioning properly.

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Michelle Lewis is a writer and editor on Electrek and an editor on DroneDJ, 9to5Mac, and 9to5Google. She lives in White River Junction, Vermont. She has previously worked for Fast Company, the Guardian, News Deeply, Time, and others. Message Michelle on Twitter or at michelle@9to5mac. Check out her personal blog.

Hover Energy, a Dallas-based wind power technology company, will begin commercial scale production in January 2023 of its residential and commercial 36 kW wind-powered microgrid that includes solar and energy



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storage. Production will take place the company's facility in Memphis, Tennessee.

The company's Hover Array System is a rooftop-mounted microgrid combining wind, solar and energy storage with the company's Integrated Energy Management System (IEMS) software platform. The IEMS system integrates energy generated by both wind (alternating current) and solar (direct current) into a unified 480 volt, 3-phase direct drive power system to provide back-up power to building owners and residential customers.

Hover's consumer wind turbine is mounted along the windward-facing edges of the rooftop, able to generate continuous power during the day. The company said it produces a multiple of power per square foot that is considerably more than a comparably sized rooftop solar system. The wind technology uses an "aerodynamic design that uses the building as a sail" to deliver commercial scale power.

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Web: <https://www.hollanddutchtours.nl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

