



400 kWh off-grid energy storage

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Dutch startup Kitepower has unveiled the Kitepower Hawk, an innovative solution integrating wind energy generation with a cutting-edge self-charging battery system; the company announced

The Hawk system combines an Airborne Wind Energy System (AWE) with battery energy storage, providing a sustainable alternative to diesel generators. The revolutionary technology offers a mobile and off-grid renewable energy solution for various applications, including construction sites, agriculture, and small island communities.

The Hawk kite generates 30 kilowatts (kW) of energy, storing it directly in a substantial 400 kilowatts-per-hour (kWh) lithium-ion battery. This unique system enables renewable energy to be both mobile and accessible, serving as an independent power source that can operate without reliance on the grid.

Johannes Peschel, CEO of Kitepower, emphasized the significance of the Hawk, stating, "The system is a perfect solution for smaller businesses in agriculture and construction looking for a sustainable way to generate electricity."

The ground station then uses approximately 10 kW of that power to reel the kite back in, completing the cycle. This process allows the Hawk to produce electricity for around 80 percent of the time, ensuring high efficiency and reliability.

The Hawk system opens new possibilities for sustainable energy solutions, especially in agriculture, construction, and small island communities. Its ease of installation, day-and-night operation, and high efficiency make it attractive for businesses seeking a reliable and eco-friendly electricity source.

In parallel with Kitepower's developments, industry collaborations highlight the potential of airborne wind energy. Volkswagen Group Charging and Enerkite, a Brandenburg-based company, are working on a project focused on mobile charging stations using kite technology.

This project involves a wing, similar to a flying kite, generating electricity through eight-shaped paths in the wind. Startups like Kitepower and established players like Volkswagen showcase the ongoing innovation in renewable energy solutions.

While pricing and availability details are yet to be revealed, the Hawk system represents a significant advancement in the field of renewable energy, harnessing the power of the wind to drive sustainable development in various industries.

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