BLINK SOLAR

Long-term energy storage container for drone stations

Overview

Could a hydrogen fuel storage system be used for long-range drones?

The project will see the department’s National Renewable Energy Laboratory (NREL) and aerospace and defense titan Honeywell collaborate on a prototype hydrogen fuel storage system for long-range drones. But while most hydrogen fuel is stored as a gas or liquid, the partners are eyeing a mechanism to store solid hydrogen.

What is long duration energy storage (LDEs)?

Long Duration Energy Storage (LDES) enables extended storage of power and helps stabilize intermittent power supply when integrated with renewable energy. Technologies such as compressed air energy and thermal energy storage are being developed within the LDES field, offering low-cost solutions with substantial storage capacity.

Could a hydrogen tank be used on a drone?

Honeywell pointed out that hydrogen today is largely stored in bulky, compressed gas tanks, which are difficult to install on a compact drone. NREL added that the FLASH fuel storage system and a fuel cell could be bundled into a single, swappable cartridge—much like the electric battery cartridges many UAV operators are used to.

How much does energy storage cost?

Among them, gravity storage has the highest global average cost at USD 643 per kWh of storage2. The next highest is flow batteries at USD 444/kWh, followed by lithium-ion (Li-ion) batteries at USD 304/kWh and compressed air energy storage at USD 293/kWh. The lowest-cost technology is thermal energy storage at USD 232/kWh.

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The project will see the department's

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BLINK SOLAR

Phone: +48-22-555-9876

Email: info@blinkartdesign.pl

Website: https://www.blinkartdesign.pl

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