Battery solution 400 kWh

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Developed by Honeywell, the flow battery is currently being tested by U.S. utility Duke Energy. The battery can reach a storage capacity of 12 MWh and be used through a modular approach in large scale renewable energy projects.

The battery is designed as a “safe” plug-and-play solution, as it is equipped with a non-flammable electrolyte. Its total rated active power at 25 degrees Celsius is 1 MW and the storage capacity ranges from 4 to 12 MWh. The device''s discharge duration is between 4 and 12 hours and DC-DC round-trip efficiency ranges from 70 to 75%.

The manufacturer claims the battery can operate for over 20,000 cycles and at operating temperatures between -10 and 50 degrees Celsius. “The battery is designed with recyclable components and does not degrade over time,” it said in a statement. “It maintains system performance, providing a reliable and cost-efficient system for 20 years.”

The novel battery technology will be tested by U.S. utility Duke Energy at its Emerging Technology and Innovation Center in Mount Holl, in North Carolina, where a 400 kWh device will be installed.

Honeywell said the battery solution may also be used in combination with its system for process, business and asset management - Experion PKS - and its remote monitoring solution Honeywell Forge, without providing more technical details on the battery technology.

“By partnering with Duke, we can implement this [innovative] energy storage technology at scale and bring to market a revolutionary flow battery to meet growing energy storage demands while assisting companies in meeting their carbon-neutral goals,” said Honeywell vice president Ben Owens.

While you do make a very valid point about where Honeywell have positioned their product it is as well to remember that mega-scale projects drive costs down faster than small ones. To start at the small end makes it very challenging to amortise development costs, leading to a product that has a limited market due to the price it would have to be sold at to get a return on the capital invested. Domestic flow batteries will come when the LCOE is low enough to compete with grid supplied power, that is battery plus solar makes economic sense.

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