Cellcube energy storage system

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The CellCube energy storage system allows a clean, emission-free and quick provision of power, can be charged very quickly and is ready for use immediately. It distinguishes itself through high safety, storage...

CellCube stores energy by way of a vanadium redox flow battery, a brainchild of NASA in the 1970s. Named after Vanadis, the Norse goddess of beauty, vanadium is a silvery, ductile metal known for its brilliant...

Vanadium redox flow battery (VRFB) developer Enerox, better known by its CellCube brand, has set up a subsidiary in Colorado, US, to bring its product to the North American market.

It established CellCube Inc. in Denver on 4 May in response to what it calls the “…exploding market demand in North America for long-duration energy storage”.

Alexander Schoenfeldt, CEO of CellCube Austria and USA commented: "Being a global leader in this space we are very enthusiastic about our new presence in North America, as it will allow us to build and use local supply chain and engage with our business and R& D partners in the US more easily. As a result, we will offer the best in class product in North America in a very sustainable and innovative way."

The company manufacturers modular VRFB battery energy storage systems (BESS), with its three pre-configured systems offering four, six and eight-hour duration in 250kW stages. Its system can also be configured to provide a duration of up to 24 hours. It says a typical number of cycles over its battery’s lifetime at 100% discharge is 20,000. See a datasheet here.

Though it has not announced any orders in the North America market yet, it has taken steps to shore up the supply chain. In February, it quintupled an electrolyte supply deal with Arkansas-based US Vanadium. Two months earlier, it followed peer Invinity Energy System in striking a deal with Munich Re to offer 20 year performance guarantees backed by the insurer.

The US Department of Defense Defense Innovation Unit will try out "prototype advanced energy systems" based around long-duration energy storage (LDES) technologies.

With the aim of creating resilient and decentralised energy systems for field installations and logistics applications, the Defense Innovation Unit (DIU) will deploy two types of flow battery technology and mobile power systems.

Called Extended Duration for Storage Installations (EDSI), the ability of a vanadium redox flow battery (VRFB) system from Austrian company CellCube, a zinc-bromine flow battery from Australian company Redflow and mobile power solutions from US company DD Dannar will be installed in field trials through the

project.

Each technology will face strict criteria on which they will be assessed, the Department of Defense (DoD) said on Tuesday (3 October). They must provide at least 50kW of power, and no more than 1MW, for durations of eight consecutive hours (400kWh to 1,000kWh).

In addition to providing the essential backup power that will help military installations and operations to ride through causes of disruptions to power supply such as extreme weather events, the technologies could enable the military services to increase their consumption of renewable energy and better manage their energy use overall.

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