



Canadian all-vanadium battery energy storage company

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What is a vanadium flow battery system?

Vanadium flow battery systems are ideally suited to stabilize isolated microgrids, integrating solar and wind power in a safe, reliable, low-maintenance, and environmentally friendly manner. VRB Energy grid-scale energy storage systems allow for flexible, long-duration energy storage with proven high performance.

How many MWh can a vanadium flow battery store?

It can store 8.4 megawatt hours (MWh) of solar power, and is the only vanadium flow battery deployed at scale in Canada. Harper, an engineer by training, began working with flow batteries in 2005 at VRB Energy, the original licensee of the all-vanadium technology in North America, which was sold to Prudent Energy in 2009.

How many Albertans use a vanadium flow battery?

It is the only vanadium flow battery deployed at scale in Canada, with a storage capacity of 8.4 megawatts of solar power serving the electricity needs of 7,000 Albertans. (Photo courtesy Invinity Energy Systems) Since the spring of 2023, more than 7,000 Albertans have gotten their power from a shed north of Medicine Hat.

What is vanadium solid-state batteries (vssb)?

Our proprietary vanadium solid-state batteries (VSSB) technology defines a new class of battery energy storage infrastructure, delivering ultra-safe, high-power solutions with a manufacturing model built for rapid global rollout.

Prudent Energy is the designer, manufacturer, and integrator of the patented Vanadium Redox Battery Energy Storage System (VRB-ESS(TM)), a long-life, advanced "flow battery" system.

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