



MODERNIZATION SOLAR

All-vanadium liquid flow battery has been commercialized





Overview

What is vanadium flow battery technology?

Vanadium Flow Batteries use vanadium flow battery technology, a rechargeable flow battery technology that stores energy using the ability of vanadium to exist in solution in four different oxidation states. This property of vanadium allows it to produce batteries with.

Are vanadium flow batteries better than lithium-ion batteries?

Vanadium flow batteries are gaining attention in the media, various industries, and even the general public for the many benefits over lithium-ion batteries. Those benefits include longer life, very little degradation of performance over time, and a much wider operating temperature range. All of which significantly reduces the cost of ownership.

Are vanadium flow batteries recyclable?

With vanadium flow batteries, all parts and components have a recyclability factor close to 100%. The electrolyte can be processed and reused; 100% of the vanadium can be extracted and reused for other applications with no impact on primary mining. Also, these batteries contain no toxic metals such as lead, cadmium, zinc, and nickel.

How much does a vanadium flow battery cost?

“The battery pack portion of it is less than \$200/kWh. Power electronics and servicing over 15 to 20 years take the price up to roughly \$300/kWh. However, it would not be accurate to compare a vanadium flow battery cost alone to the cost of lithium battery plus power electronics and 15 to 20 years servicing.”



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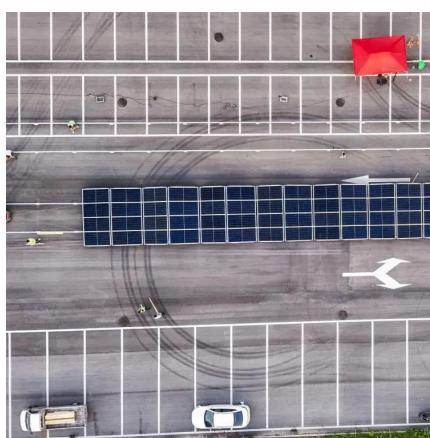


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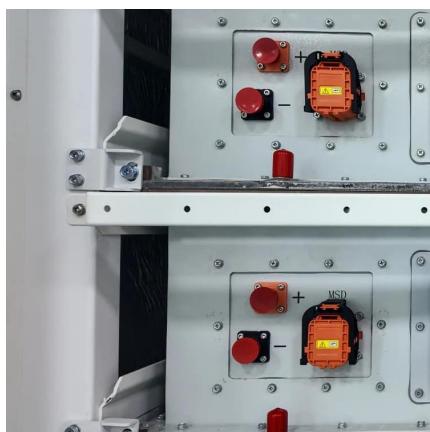
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