Construction of all-vanadium liquid flow energy storage station

What is vanadium flow storage technology?

Vanadium flow storage technology uses the flow of vanadium electrolyte across an ion exchange membrane. The advantages of this type of storage are safety,scalability and long-term operation. Vanadium electrolyte used in this battery is non-flammable and the battery operates at room temperature.

Are vanadium flow batteries the future of energy storage?

"Due to their inherent advantages in large-scale energy storage, vanadium flow batteries have the potential to service the growing need for grid-scale energy storage solutions in Australia, supporting and stabilising the national electricity grid as renewable energy generators continue to roll out," Professor Talbot said.

How many substations are in the Advanced Energy station?

The advanced energy station includes twomajor subsystems: Station 1: 150MW/750MWh system connected via six 35kV lines to the planned 220kV substation. Station 2: 50MW/250MWh system connected via two 35kV lines to a separate 220kV substation.

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