



# Total investment cost of flow battery system project in Australia

How much does a vanadium flow battery energy storage system cost?

In a market announcement on Wednesday, parent company Australian Vanadium Ltd says analysis completed by VSUN Energy finds that a four-hour 100MW vanadium flow battery energy storage system (BESS) can deliver a levelised cost of storage (LCOS) of around \$A274/MWh.

How much will Australian flow batteries (AFB) invest in 2029?

\$549 million by 2029. This growth trajectory translates into substantial returns for early investors. Australian Flow Batteries (AFB) is seeking a \$5 million investment to support its growth and operations. To receive your personal copy of the full information memorandum please contact us.

How many battery storage projects commenced construction in 2025?

In addition to the six projects that reached financial commitment, a further three battery storage projects commenced construction in the first quarter of 2025, with a total of 840 MW /2.9 GWh in storage capacity /energy output.

Why are batteries so expensive in Australia?

Per kilowatt of power, batteries in Australia (in both the NEM and WEM) have increased in cost over time. But this is due to more recent projects being longer-duration: while the first Australian batteries were at one hour of duration or less, two-hour and four-hour batteries are now the norm.

Why should Australia invest in energy storage systems?

Energy storage systems, such as big batteries, are a critical part of Australia's future energy mix and act as a reliable back-up system allowing us to store renewable energy for when it is needed most and keep the lights on under all conditions. It's great to see the high levels of investment we've seen over the past couple of years continue.

Are flow batteries better than Li-ion batteries?

Flow batteries are also considered to be more reliable and safer than their Li-ion counterparts - including being highly resistant to catching on fire. On the other hand, lithium-ion batteries tend to be more compact and provide higher energy density than VFB technology.



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