

# Sydney Flow Battery Australia





## Overview

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### Could flow batteries reshape Australia's Energy Future?

Enter flow batteries —a homegrown technology that could reshape Australia’s energy future. Unlike lithium-ion batteries, which max out at four to six hours of storage, flow batteries can store energy for up to 12 hours, making them a game-changer for balancing solar and wind power. And here’s the kicker—this tech isn’t imported.

### Are flow batteries coming to Australia?

But they are, finally, arriving in earnest. This year, the Australian government launched a national battery strategy to expand domestic manufacturing of batteries. This A\$500 million strategy will focus on the well-known lithium-ion batteries which power phones and cars. But it will also include flow batteries.

### Are flow batteries a good choice for Australia's grid-scale batteries?

To date, most of Australia’s grid-scale batteries use chemistries such as lithium-ion. But as our grid shifts to renewables, we’ll need longer duration storage to eliminate the need for fossil fuel backup generators. That’s a task well suited to flow batteries. Related article: [Horizon Power’s vanadium flow battery passes factory tests.](#)

### Can we use flow batteries?

We can also use flow batteries. These are a lesser-known cross between a conventional battery and a fuel cell. Flow batteries can feed energy back to the grid for up to 12 hours - much longer than lithium-ion batteries which only last four to six hours. I was one of the inventors of one of the main types of flow battery in the 1980s.



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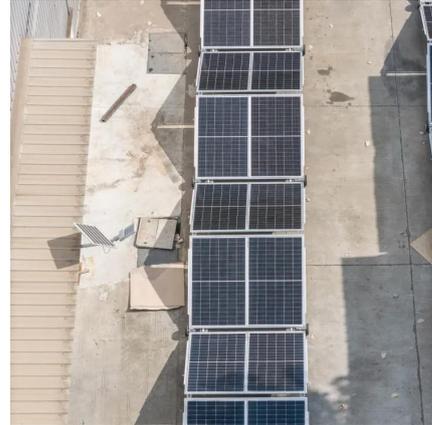
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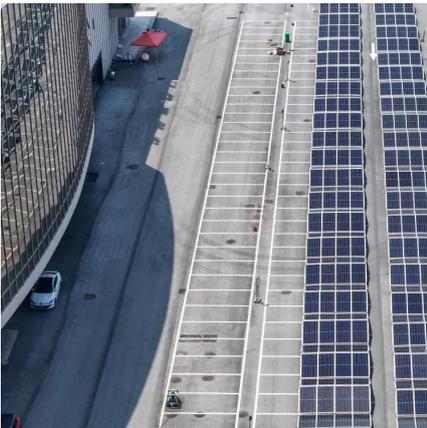
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