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Title: BESS Telecom Energy Storage Virtual Power Station

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What services does Bess offer?

BESS can deliver a suite of advanced grid services critical for system strength and stability: Synthetic Inertia and Virtual Synchronous Machine (VSM): Mimics synchronous generator behavior to stabilise frequency. Power Oscillation Damping: Controls inter-area oscillations that threaten grid stability.

Could Bess be a virtual transmission in Australia?

Image: Fluence. Rob Hills, APAC vice-president of engineering and commissioning at Fluence, explains the potential of BESS as virtual transmission in Australia. Australia stands at the forefront of the global energy transition, with ambitious decarbonisation targets and increasing renewable energy penetration.

Can battery energy storage systems be used as virtual transmission?

One of the most promising developments is the use of battery energy storage systems (BESS) as virtual transmission--a concept increasingly referred to as storage-as-transmission assets (SATA). This approach is already being actively deployed in Germany and elsewhere.

What is a large-scale Bess project in Germany?

In Germany, transmission system operators (TSOs) including TenneT and TransnetBW are deploying three large-scale BESS to act as grid boosters. A 250MW/250MWh project by TransnetBW will be used to ease grid congestion driven by coincident wind energy output by taking over the n-1 requirement.

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