

Off-grid energy storage victoria

The energy storage targets will include short, medium and long duration energy storage systems, allowing energy to be moved around during the day to meet demand and to be supplied through longer duration imbalances.

Short and medium duration storage (< 8 hours) will include grid-scale batteries and household batteries that are aggregated to operate as virtual power plants. Long duration storage (> 8 hours) may include for example pumped hydroelectricity generation, long-duration battery systems and other emerging technologies like compressed air storage and molten salts.

Non-aggregated household batteries provide flexibility to store excess energy generated, allowing the property owner to then utilise it in the evening or when the sun is not shining. However, these systems are not set up to dispatch energy or services to the National Electricity Market and therefore they will not contribute to the energy storage targets.

The firm capacity delivered by Victoria's energy storage targets will provide reliable, affordable and clean energy as Victoria's ageing and increasingly unreliable coal generation is replaced with new renewable energy.

For 2023/24, renewable energy was 37.8% of Victoria's electricity generation – and we've closed out the financial year with a pipeline of projects that puts Victoria well on track to achieve our next goal of 40% renewable electricity by 2025.

Victoria's electricity sector greenhouse gas emissions have fallen from around 60.3 million tonnes (Mt) of CO₂-e in 2014/15 to around 38.7 Mt of CO₂-e in 2023/24.

The strong pipeline of renewable energy and energy storage projects under construction or undergoing commissioning, combined with continuing strong investment in rooftop PV systems, has Victoria well placed to achieve its 2025 target of 40% renewable electricity generation and tracking well towards its 2030 energy storage target of at least 2.6 GW.

Cheaper, Cleaner, Renewable: Our Plan for Victoria's Electricity Future outlines the actions we are taking to ensure our state achieves its renewable energy and storage targets.

The Victorian Renewable Energy Target auctions VRET1 and VRET2 help us meet our renewable energy targets by providing long-term contracts that create investment certainty to build new energy generation projects.



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It is important that renewable energy developments deliver benefits for host communities. Our guide for developers outlines requirements to undertake respectful and considered engagement with host communities; as part of any project and deliver long-term benefits.

We acknowledge and respect Victorian Traditional Owners as the original custodians of Victoria's land and waters, their unique ability to care for Country and deep spiritual connection to it. We honour Elders past and present whose knowledge and wisdom has ensured the continuation of culture and traditional practices.

We are committed to genuinely partner, and meaningfully engage, with Victoria's Traditional Owners and Aboriginal communities to support the protection of Country, the maintenance of spiritual and cultural practices and their broader aspirations in the 21st century and beyond.

Contact us for free full report

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