



Images: AGL's 250 MW grid-scale battery at Torrens Island South Australia

Kangaroo Valley Battery

Fact sheet



What is the Kangaroo Valley Battery?

AGL Energy Ltd is seeking development consent to construct, operate and maintain a grid scale battery with a capacity of up to 350 megawatts (MW) and 1,400 Megawatt hour (MWh), which will consist of battery modules and connection infrastructure, as well as any required road and access upgrades.

Where is the proposed Battery?

AGL is proposing the Kangaroo Valley Battery be located approximately 3 kilometres northwest of the Kangaroo Valley town centre at 325 Bendeela Road, Kangaroo Valley. The proposed site is in excellent proximity to the Transgrid 330kV switching station and provides for robust connection to the electricity network.

How do grid-scale batteries work?

Grid-scale batteries, also known as Battery Energy Storage Systems, are a collection of smaller battery units that are wired together to make one large battery. These large battery systems are connected to the grid and respond quickly to changes in electricity supply or demand. A grid-scale battery is typically charged during the day when there's excess energy, from other energy sources like wind and solar, and releases it when demand for energy is high. Scan the QR code to watch how grid-scale batteries work.



Why is AGL developing batteries?

Grid-scale batteries play an important role in Australia's energy transition by helping keep the electricity grid in balance as we shift to a renewable

energy system. Batteries can respond quickly to address an energy shortfall, supply the grid, and stabilise it. As the amount of renewable energy generation increases in the energy mix, grid-scale batteries help support a more stable and reliable energy system.

What technologies does AGL use for batteries, and what do they look like?

Battery technology is evolving rapidly. The current industry standard is lithium iron phosphate batteries. We assess new battery types as they become available. Grid scale batteries are an orderly arrangement of multiple battery units. The battery units are enclosed in custom designed, dust and waterproof units made of steel that are light-coloured to reflect heat.



Each unit has its own thermal management system to maintain stable operating conditions. The full setup includes secure battery containers, inverters, transformers and other equipment to manage energy flow. There are also control rooms for monitoring and operations. Vegetation screening is used where needed to reduce visual impact.

How long do batteries last, and what happens when they reach the end of their life?

Grid-scale batteries usually last around 20 years, depending on how they are used and the local environment. At end-of-life, batteries are decommissioned through a structured process involving disconnection, safe removal, and recycling or disposal of components. AGL follows strict environmental and safety protocols during decommissioning. In line with regulatory requirements, the site will also be rehabilitated.

This may involve restoring vegetation, managing soil and water quality, and ensuring the site is safe and stable again.

Do grid-scale batteries increase bushfire risk and how is fire prevention handled?

While the risk of batteries causing a bushfire is low, we understand it may be a concern for local communities. AGL designs its battery systems with fire safety as a top priority. We work with fire safety experts and carry out detailed risk assessments to ensure we meet safety standards. Each battery unit is housed in a fire-resistant container designed to withstand high temperatures. Units are spaced apart to help prevent fire from spreading, and we use non-flammable materials and coolants to reduce the chance of ignition. Around each site, there's an Asset Protection Zone, which is a cleared and managed area that helps protect against bushfires. Every site also has a detailed emergency response plan that outlines how we respond in the unlikely event of a fire.

Do batteries have noise impacts on the local environment?

Most noise and vibration impacts happen during construction, due to earthworks, equipment installation, and vehicle movements. Once operating, the battery makes low-level noise from its cooling fans. During the planning assessment process, AGL carries out an analysis of noise and vibration impacts. This includes measuring current background noise levels and assessing how the project might change the noise environment during both construction and operation. Noise levels can vary depending on location, terrain, weather and existing background noise. If predicted noise levels exceed the limits set by government policies, AGL will introduce measures to reduce the impact, such as changing the layout or adding acoustic barriers.

Do batteries have the potential to pollute the local environment?



All battery projects must comply with regulatory requirements. We manage potential local impacts through detailed environmental management plans. These plans include practical steps to manage stormwater, securely store chemicals, and use fire suppression systems that do not contain harmful long-lasting substances. Battery systems are purpose-built to safely store and handle chemicals, and each site includes containment features such as bunding, spill trays, drainage systems and water capture mechanisms. These are designed to prevent leaks and ensure that, even in rare cases of a leak, liquids are safely contained and do not harm the surrounding environment.

How do local communities benefit from battery projects?

AGL is committed to ensuring that communities hosting our battery projects share in the benefits. We work closely with community members, Traditional Custodians and local councils to identify benefit sharing arrangements that reflect local priorities. Battery projects also bring local economic opportunities. These include jobs in construction, electrical and civil works, site maintenance, logistics and environmental management. Where possible, we prioritise local suppliers and contractors to support the local economy.

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