Artist's impression of the Byellee BESS

Byellee BESS

Project Overview

August 2025

About the Project

Eku Energy seeks to develop Byellee BESS together with our co-development partner Atria Energy who have extensive experience in developing large-scale BESS and solar farms across Australia. We are proposing a utility-scale lithium-ion battery energy storage system with an indicative capacity of 300MW / 1.2GWh. Byellee BESS is located adjacent to the Byellee River, near Gladstone in Central Queensland with a direct connection to the Byellee River Substation. The project is anticipated to be in operations in 2028.

Battery storage is critical to deliver energy security. It is designed to store and release electricity and provide support to stabilise the grid in Central Queensland.

Proposal overview

The proposed Byellee BESS site is adjacent to Gladstone City in the Gladstone Regional Council Area in Central Queensland, just over 1 kilometre south-west of the Byellee River Substation. The project will generate electricity into the National Electricity Market (NEM) Queensland Region with a proposed operational life of 20+ years.

In addition to soaking up excess energy when demand is low and dispatching it when demand is high, the Byellee BESS will provide essential grid services to support energy security and stable operations of the electricity network.

The BESS site will house battery containers, medium voltage transformers, ring main unit, switching and control buildings, substation and high-voltage transformer.

The next phase of design will be informed by proposed technology selection, detailed project footprint and planning requirements, alongside ongoing engagement with the local community and stakeholders.

Community engagement

Eku Energy is committed to engaging openly and transparently with the local community throughout the development process. We understand the importance of providing clear information, listening to local feedback and ensuring community members have the opportunity to ask questions and share their views.

In one of our recent visits of Gladstone and Calliope, we received valuable feedback in relation to the name of the project stipulating it is located in Calliope, when it is in fact situated in Byellee, directly adjacent to the existing Calliope River Substation. Conventionally, BESS projects are named after the substation they connect into, which is Calliope River Substation in this case. Yet, thanks to this great insight, we have now decided to rename the project to Byellee BESS.

In addition to the formal public notification required as part of the Development Application - Eku Energy will also undertake proactive engagement activities, including:

- Door knocking nearby landholders
- Hosting local community drop-in information sessions
- Offering face-to-face meetings with interested community members and stakeholders.

Details about upcoming community engagement sessions will be advertised in the local newspaper and published on the Eku Energy website.

About Eku Energy

Eku Energy is deeply committed to our mission of accelerating the global energy transition by delivering safe, secure and reliable energy storage solutions that provide cost effective clean energy. With offices in Sydney, Melbourne as well as London and Tokyo, we have global expertise paired with deep local knowledge. Find out more on ekuenergy.com.

Sitemap of Byellee BESS

Safety

Eku Energy's absolute priority is creating a safe work environment. During construction and operations, we will have measures in place, including traffic management, environmental controls and continuous health and safety checks to minimise risks.

Community benefits sharing

Eku Energy aims to be a proactive member of the local community and seeks to engage with community members to create positive, lasting impacts. We are committed to ensuring our benefit sharing approach is collaborative, tailored, transparent and aligned to local needs and aspirations. We are engaging with Gladstone Regional Council, local residents and First Nations groups to discuss opportunities for benefit sharing that are best suited to regional communities.

Contact us

If you would like to stay informed or have questions or feedback about the proposed development, we welcome you to contact us via the details below at any time.

byellee@ekuenergy.com

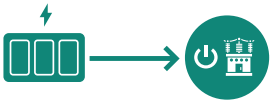
1800 989 687

ekuenergy.com/byellee

Advantages for every household

Keeping the lights on when things go wrong
When part of the grid fails, batteries instantly step in to keep power flowing and the lights on.

Easing peak demand
Batteries charge when demand is low and release energy during peak times, helping prevent blackouts.



Emergency backup and grid restart
In a blackout, batteries power up essential systems and help restart the grid.

Ready for tomorrow
As energy use grows, with more digital solutions, devices and AI powered platforms, batteries flexibly store and release power to keep the grid stable and reliable.