

Elaine Battery Energy Storage System

Project Details



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The proposed Elaine Battery Energy Storage System (BESS) is designed to store and release energy and provide grid support services. It includes battery units, inverters, associated infrastructure, grid connection, access roads, vegetation screening and security fencing.

It is located on the unnamed road, adjacent to the Elaine Terminal Station, approximately 5km North-West of Elaine, within the Moorabool Shire Council. The site has an area of approximately 4Ha and is currently used for agricultural grazing.

The BESS has a capacity of 200MW/800MWh and is able to store up to 4 hours of energy. It is proposed to connect to the Elaine Terminal Station and more broadly into the wider electricity network as part of the National Electricity Market (NEM).

It represents a \$400-\$500 Million project investment, resulting in the provision of 140 jobs during construction and 3 in operation.

The BESS will compliment renewable energy sources, such as the nearby Lal Lal Wind Farm, while ensuring reliable and affordable electricity supply. In doing so, it will assist in maintaining grid stability and contribute to Australia's energy transition and reduction in emissions.



Location of the proposed Elaine BESS

Site Suitability

- ✓ Proximity to Elaine Terminal Station reduces the need for long distance power lines and visual impacts.
- ✓ Significant distance to closest dwellings (over 1km away).
- ✓ Relatively flat topographical conditions.
- ✓ Minimal native vegetation removal required.
- ✓ Minimal environmental impacts and ground disturbance.
- ✓ Located outside regional settlement areas.
- ✓ Adjacent to the electricity grid.
- ✓ Access to main roads for the transportation of project infrastructure.
- ✓ Located in the South West Victorian Renewable Energy Zone (REZ).

Design Considerations



Design will follow detailed guidelines as established by the CFA to mitigate and manage bushfire risks.



Design and layout will be undertaken in accordance with detailed noise impact assessments to minimise impacts for local residents.



Vegetation screening and use of muted colours will assist in reducing visual impact.