Harrogate BESS

Frequently Asked Questions



This image is indicative of a Battery Energy Storage System (BESS) project.

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Frequently Asked Questions

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Project Overview	**What is the project?**	The proposed Harrogate BESS project would involve the construction and operation of a Battery Energy Storage System (BESS). A BESS uses rechargeable batteries to store electricity from the grid, during times of low demand for example, and then releases it when needed, such as during peak demand periods or power outages. By doing so, BESS aim at optimising and reducing energy costs in the long term. They also provide auxiliary services to the grid, improving its reliability and stability.
	Where is it located?	The proposed project would be located at 1201 Black Heath Rd Tungkillo, South Australia. Subject to obtaining the necessary approval, the Harrogate BESS would comprise of containerised battery units and control equipment associated with inverters and power transformers. The layout would be arranged in a grid pattern with enough space to allow access around each unit. The proposed project would be connected to Electranet's 275kV Tungkillo – Mt Barker transmission line.
	Why was the location chosen?	The site is within close proximity to a transmission line with capacity available. It is the ideal location for a BESS, as it will be able to store renewable electricity during times of low demand and release it back to the grid when needed.
	What is the investment value of the project?	The construction of the proposed project would have an estimated value of $475M.
	What's the status of the project?	The project is at an early development stage. All relevant assessments required to obtain the Associated Infrastructure Licence. This includes assessments and reports such as noise, community, cultural heritage, environmental impact assessment, traffic impact study and fire management.

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Frequently Asked Questions

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Project Overview	**Who approves the project?**	The assessment and approval of the proposed project is the responsibility of the State Government. The planning and approval assessment process ensures that the proposed project complies with state regulations, environmental standards, and community considerations. Consultation with relevant Local and State Government Departments is currently underway. Early community consultation with relevant stakeholders including Councils, neighbours, and community organisations will commence soon.
Project Ownership	**Who owns the project?**	Potentia Energy (Previously known as Enel Green Power Australia) is the owner of the Harrogate BESS project.
	Who is Potentia Energy?	Potentia Energy is a joint venture entity co-owned by Enel Green Power and INPEX. The company is currently operating over 1.1 GW of renewable energy assets across Australia. Potentia Energy has rights secured for a development pipeline of over 9 GW across Australia and is committed to an ambitious growth agenda, targeting a significant increase to its installed capacity across wind, solar, storage and hybrid projects across Australia. Potentia Energy is committed to accelerating Australia's energy transition, driving the potential for a sustainable future.
	Who owns the land where the proposed project is situated?	The land is owned by a local landholder. Potentia Energy has a long-term commercial lease agreement in place for the construction and operation of renewable energy projects on the site.

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Project Construction	**Who would construct the proposed project?**	Potentia Energy would manage the construction phase of the project and would engage with construction contractors to undertake the construction works. Local subcontractors would be prioritised whenever possible.
	How many jobs would be created during construction?	Typically for a project of this nature, approximately 80 to 120 construction staff would be expected to be on site during construction peaks. Potentia Energy would work closely with the main construction contractors to identify local capability and capacity for construction roles and prioritise local engagement where possible.
	Will there be apprenticeships and traineeships available during the construction phase?	Potentia Energy would work closely with the main construction contractors to identify on site trainee and apprenticeship opportunities where possible.
	What transmission infrastructure will be built for the project?	The existing Emeroo substation would be extended to allow the connection of Emeroo BESS. Medium-Voltage cables will run from the project site to the extension, where a new High Voltage transformer will be installed.
Project Operation	**Who will operate the project?**	Potentia Energy would manage the operational phase of the project, mainly remotely. An Operations & Maintenance (O&M) contractor would be engaged to manage the operations and maintenance activities on site.
	When will the project start operating?	Operation of the proposed project is targeted to commence in the second half of 2027

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Project Operation	**How long will the project operate for?**	The approximate timeframe for the operational life of the project is 20 to 30 years.
	What will happen at the end of the lifecycle of the BESS?	Potentia Energy will adhere to the waste hierarchy and comply with all relevant environmental legislation in effect at the time. Primary efforts will focus on reusing, recycling, or donating materials whenever it is safe to do so. At the end of operation, the site would be restored to its original condition, and all materials used will be removed and treated appropriately.
Project Benefits and Impacts	**What benefits will there be for the local community from the project?**	Potentia Energy is committed to a Creating Shared Value (CSV) approach during construction and operation of all of its renewable energy assets. CSV means Potentia Energy intends to work closely with the local community to enhance the economic and social conditions in the local area to all projects and proactively share benefits within the local community. Potentia Energy's overall objective is for the proposed project to be considered as an integrated and valued component of the social and economic fabric of the local community. Potentia Energy is committed to local sourcing where feasible. It's anticipated the proposed project would create local employment and supply opportunities, with approximately 80-120 construction staff anticipated to be on site during construction peaks; and a small operational and maintenance team for the operational phase.

More Information:

Visit the project webpage

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