TotalEnergies H2
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Planning & Design

PROJECT INFORMATION:

Project Status: In development

Location: Bracewell, Queensland

BESS capacity: 500MW/4 hour

Technology: Battery Energy Storage System

The East End Battery Energy Storage System (BESS) is a proposed 500MW/4 hour project located near Bracewell.

East End BESS will be a standalone energy storage system located in a cleared grazing rural area of Bracewell, which will connect into the existing 275kV Powerlink transmission lines. Approximately 25km southwest of Gladstone, the nearest neighour is over 5km away from the project.

The BESS will used advanced Lithium Iron Posphate (LFP) batteries (or similar), inverters and transformers to form up to 447 containerised battery units. At approximately 6m long, 3m wide, and 3m high, the containers will be finished in neutral colours to visually integrate into the surrounding landscape.

In addition to the battery units, the East End BESS will include up to 149 power conversion systems, which convert the direct current (DC) electricity from the batteries into alternating current (AC) for the grid. The site will also feature an onsite high-voltage substation, which is crucial for increasing the electricity voltage to transmission levels. The substation will feature transformers, switchgear, and control systems.

Construction is anticipated to commence in late 2027.

What is the planning pathway?

TE H2 will seek planning approval for the East End BESS through the Queensland State Assessment and Referral Agency (SARA). TE H2 may also refer the project to the Federal Government under the Environmental Protection & Biodiversity Conservation (EPBC) Act to ascertain whether it requires assessments for potential impacts on matters of national environmental significance.

Technical and environmental assessments have already been undertaken. For more information, view the *East End BESS Considering Environment* factsheet.

As the final design and construction for the East End BESS is refined, further permits and secondary approvals may be required.

TE H2 will keep the local community, landowners, neighbours and interested stakeholders updated as the project progresses through approvals.

Fast facts

- No neighbour within 5km
- Up to 447 BESS containers
- Up to 149 power conversion units
- Construction from late 2027

Indicative Concept Design*

**The artists impression shows a visualisation of how the BESS could look. This concept design is indicative only and is subject to change based on further technical studies, engineering design, planning approvals and feedback from local communities and stakeholders.*

Project design

In addition to the containers, conversion systems and substation, the East End BESS project site will also have dedicated switchrooms for electrical control, storage facilities for spare parts, and a central control room for real-time monitoring. A security fence will also delineate the site. Below is a concept design of the BESS container.

Contact Us

If you would like to chat with a member of the East End BESS development team, you can contact us on:

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