Greenbank Battery

CS Energy is developing a large-scale battery in Greenbank, a suburb within the Logan City Council area, in an innovative partnership with Powerlink to deliver cleaner and more reliable energy for Queenslanders.

The battery will be located on Powerlink-owned land adjacent to the existing Greenbank Substation, located off Pub Lane, and will connect to the existing transmission infrastructure. The Greenbank Substation is a key element of the electricity network and offers excellent connections into the South-East Queensland power grid.

The Greenbank Battery will have a discharge capacity of 200 megawatts and store 400 megawatt hours of energy (200MW/400MWh). This means during the evening energy demand peak the battery can discharge 200MW, powering 28,000 homes for two hours before needing to recharge.

In addition to powering homes and businesses, the battery will also provide Powerlink with network support services to uphold system strength and security when required to avoid brown outs and black outs.

This project is unique, as it is the first of its kind where an energy company will collaborate with a transmission company to develop an asset for the benefit of both customers and the security and reliability of the power system.

The $300 million project will create up to 80 jobs during construction and support up to 32 jobs as part of Powerlink's activities.

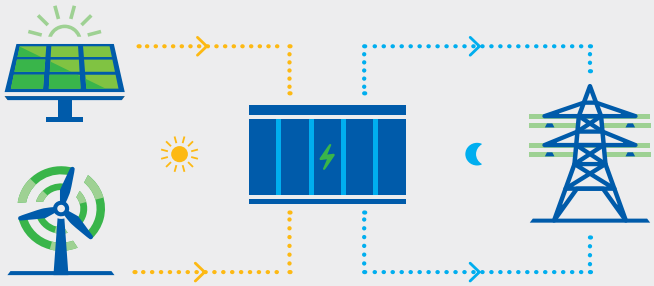
Fast facts

- **200MW/400MWh capacity**
- **$300 million investment**
- **Capacity to power 28,000 homes for two hours**
- **Operational early 2025**

How it works

The Greenbank Battery will store surplus solar energy produced during the day, and then release it during the evening peak when the sun is not shining and demand increases.

Batteries are also fast and flexible, able to turn on and off in a fraction of a second. And because they can ramp up and down quickly they are also able to rapidly respond when there is a sudden gap in electricity supply, helping to stabilise the grid and support system security and reliability.



Key milestones

- **Site selection and feasibility** – *completed* – 2022
- **Planning approvals** – *completed* – 2023
- **Site mobilisation commences** – September 2023
- **Arrival of first battery** – late-2024
- **Operational** – mid-2025

Further info

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CS energy