

Chinchilla Battery

The Chinchilla Battery is a grid-scale battery that stores energy when it is plentiful, and releases it back into the electricity grid when it's needed most.

The battery is located next to CS Energy's Kogan Creek Power Station in the Western Downs. It has a relatively small footprint (100m x 150m) and is connected to the grid via Powerlink's 275 kV Banana Bridge Substation.

Large-scale batteries are an important next step in creating a more flexible and diversified energy portfolio for CS Energy and our owners the people of Queensland.

The Chinchilla Battery has a discharge capacity of 100 megawatts and can store 200 megawatt hours of energy (100MW/200MWh). This means during the evening energy demand peak, the battery can discharge 100MW of electricity to power 33,000 homes for two hours.

CS Energy is further diversifying the energy mix at the Kogan Creek site with the addition of the gas-fired Brigalow Peaking Power Plant, which is now under construction.

Fast facts

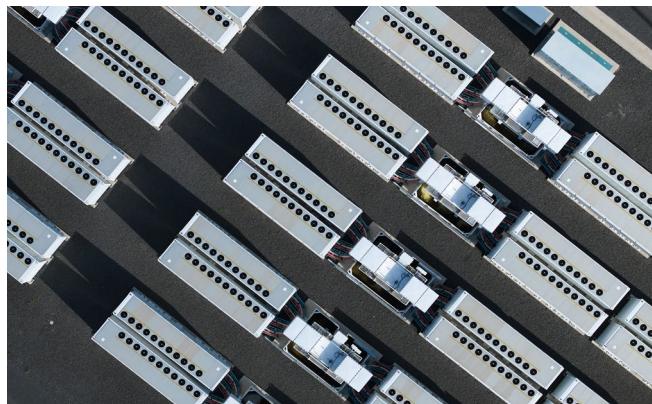
- **100MW/200MWh storage**
- **Tesla Megapack technology**
- **\$150 million investment**
- **Capacity to power 33,000 homes for two hours**
- **Commenced operations July 2024**
- **Located on the traditional lands of the Barunggam people**

How it works

There's often a surplus of solar and wind energy produced in Queensland during daylight hours.

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

Batteries are 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.



About Tesla Megapack

The Chinchilla Battery is made up of 80 Tesla Megapack 2 systems, with each one housed in a rectangular enclosure.

Megapack is made up of the battery module, paired with its own inverter and associated heat management systems and wiring.

The Megapack is one of the safest battery storage products of its kind. Units undergo extensive fire testing and include integrated safety systems, and specialised monitoring software. They are compliant with major safety standards, with the battery cells meeting the global UL 1642 standard.

Timeline

- **Site selection, feasibility and planning approvals** – 2021
- **Construction** – 2022–2023
- **Commissioning** – early 2024
- **Operational** – July 2024



**Deliver safe, reliable, affordable
and sustainable energy for Queensland**

CS
energy