



Clarke Creek Wind Farm - Stage 2

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Project overview

We are pleased to share an update on Clarke Creek Wind Farm - Stage 2, a project located 150km north-west of Rockhampton and 150km south of Mackay, on the land of the Barada Kabalbara Yetimarala (BKY) peoples.

The proposed wind farm is in the advanced planning stage, and currently includes 94 turbines, with an expected capacity of 564MW. Once operational, it is expected to generate enough electricity to power around 350,000 Australian homes and avoid 625,000 tonnes of carbon emissions annually. In addition to the wind farm, the project includes the development of a 400MW solar farm and Battery Energy Storage System.

Over the past year, the development of the wind farm has included activities such as:

- ecology surveys to further our understanding of biodiversity values and how best to minimise impacts

- updating and optimising the project layout which includes wind turbine locations and associated infrastructure
- starting electrical grid connection studies to support the project's connection application to Powerlink
- additional wind monitoring across the project area
- starting surveys to identify and manage cultural heritage on the land on which the project is located
- landowner and community engagement to ensure local knowledge is used in the delivery of the project.



564MW

Expected capacity



350k

Expected homes powered



625k

Expected tonnes of emissions avoided

Wind monitoring

Light Detection and Ranging (LIDAR) systems measure wind by sending laser beams into the air and observing how they bounce off tiny particles. As these particles move with the wind, they change the frequency of the laser light, allowing us to calculate wind speed and direction.

The Squadron Energy team has installed LIDAR units to support other data collection methods such as meteorological masts. Dependable wind data is crucial for any wind farm project and by strategically placing devices in prime locations, we have ensured the accurate collection of wind data for the project.

These efforts have allowed us to gather important insights into the wind patterns in the area and will help with maximising the efficiency of turbine placement.



A meteorological mast is used to monitor wind speeds and directions



Timo Benz, Renewables Engineer installing a LIDAR



A Light Detection and Ranging System (LIDAR)

Community engagement

St Lawrence Wetlands Weekend Festival

Squadron Energy is proud to support the St Lawrence Wetlands Weekend Festival, which celebrates community spirit and sustainability initiatives. Held amidst the picturesque backdrop of local wetlands, festival attendees were eager to learn about the development and impact of renewable energy projects like Clarke Creek Wind Farm – Stage 2.

The festival’s central theme is the appreciation of local produce, artistry, and small businesses. Attendees had the chance to enjoy a lunch curated by chef Matt Golinski, showcasing the region’s culinary delights and commitment to sustainability.

A standout moment at the festival was the regenerative tree planting event, an important part of the “Healing Mixed Water on Koinmerburra Country” program. This initiative was supported by Squadron Energy as a major sponsor of the event, recognising the importance of protecting and restoring the wetlands - a critical ecosystem with deep cultural significance to the Koinjmail people.



The Squadron Energy team at the St Lawrence Wetlands Weekend Festival



Squadron Energy led tree planting initiative

Marlborough Agricultural Show

Marlborough’s 38th Annual Agricultural Show in April was a fantastic display of community spirit and agricultural excellence.

Squadron Energy was able to bring the breast screening bus to this year’s event, offering vital health services to attendees. We also supported the ever-popular Dog Jump Show, which provided great fun and laughter for all.

Congratulations to the organisers for putting together such a well-coordinated and successful event!



Pippa and her owners at the Squadron Energy Dog Jump Show

Valkyrie School’s 50th anniversary celebration

Squadron Energy also supported Valkyrie State School’s 50th anniversary celebration, which attracted 400 attendees in a community of just 70.

This event highlights the important role that schools play in fostering community cohesion and learning.

Healthy Harold

Thanks to the support of Squadron Energy, Healthy Harold hit the road in Central Queensland in May, hosting health education workshops at both Clarke Creek Primary School and Marlborough State School.

Clarke Creek School Principal, Ash-Lee Snow, expressed gratitude to Squadron Energy for their ongoing support, noting that the visit from Healthy Harold was a highlight for both students and staff.

"The Healthy Harold program provides a fun and interactive way to promote healthy habits among our students, equipping them with the knowledge and skills they need to make informed choices and lead healthier lives," she said.

The Secretary of Life Education Central Queensland emphasised that Squadron Energy's support was crucial in ensuring Healthy Harold could deliver essential wellbeing programs to regional students.

"The support from Squadron Energy has enabled our team, which is managed by volunteers, to bring our iconic Mobile Learning Centre and specialist educators to Clarke Creek for the first time in a number of years," she said.

We are proud to have helped promote health education and this partnership highlights how corporate organisations can play pivotal roles in local communities.



Clarke Creek primary school students with Healthy Harold



Clarke Creek primary school students with Healthy Harold

Community sponsorship

Local community groups are encouraged to apply for community sponsorships through our website. For more information and to apply, please scan the QR code or visit www.squadronenergy.com/communitysponsorship.

Want to meet the project team in person? We will be at the Clarke Creek campdraft on 22 - 25 August. We hope to see you there!

Get in touch by emailing clarkecreek2@squadronenergy.com. If you would prefer a callback, just let us know.



Contact us

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