

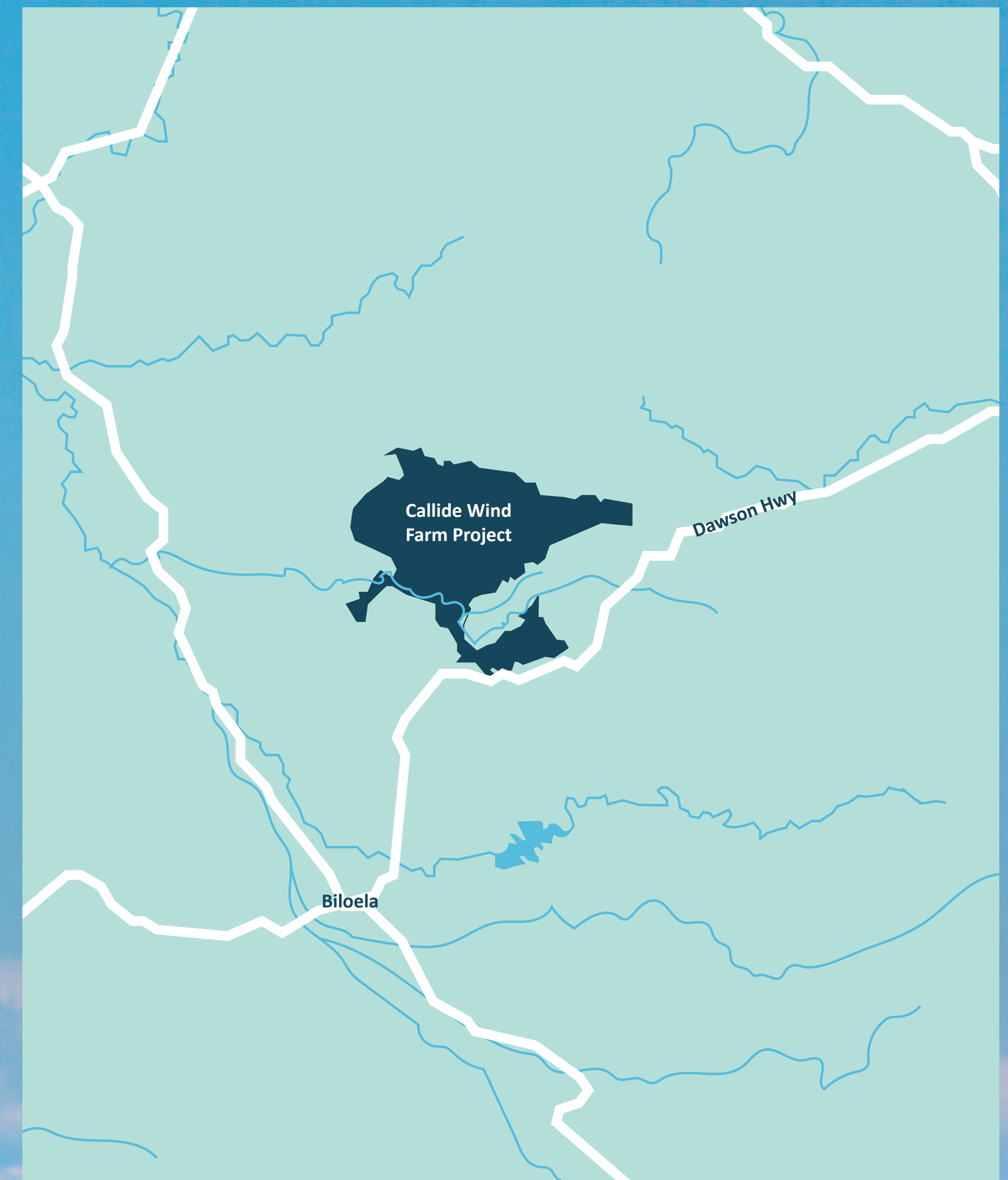
About the proposed Callide Wind Farm Project

The proposed Callide Wind Farm Project is located within the Banana Shire Council Local Government Area, approximately 22km north-northeast of Biloela and 75km south-southwest of Gladstone. The Project is to be developed across three properties and six freehold lots, over a series of low hills and ridge lines rising between 300m and 700m above sea level.

The Project site is around 20,000ha in area, of which around 5% will be used for the project and will include approximately 70 wind turbines along with associated infrastructure.

The generation capacity of the Project is anticipated to be approximately 430MW, producing enough energy to power around 130,000 average Queensland households.

The Project Site is located within Gaangalu Nation People country. DP Energy acknowledges the Gaangalu Nation as the Traditional Custodians of the Project Site. DP Energy pay our respects to their Elders past, present and emerging.





DP ENERGY

Renewable

Energy Is In Our Nature

About DP Energy

Based in Ireland, DP Energy is a privately owned company which has a long history of renewable energy development spanning close to 30 years. The company has a single, simple purpose; to develop renewable energy projects which are both sustainable and environmentally benign.

The Callide Wind Farm Project is being developed by DP Energy Australia, which is one of a number of sustainable energy companies operating under the DP Energy name and forming part of the DP Group. DP companies are active in Ireland, the United Kingdom, Canada and Australia. DP Energy develops renewable energy projects across a number of technology platforms including wind, solar photovoltaic and tidal energy as well as energy storage.

Project Description

Callide Wind Farm is proposed to be located in the Calliope Range approximately 22km north-northeast of Biloela and 75km south-southwest of Gladstone within the Banana Shire Council Local Government Area.

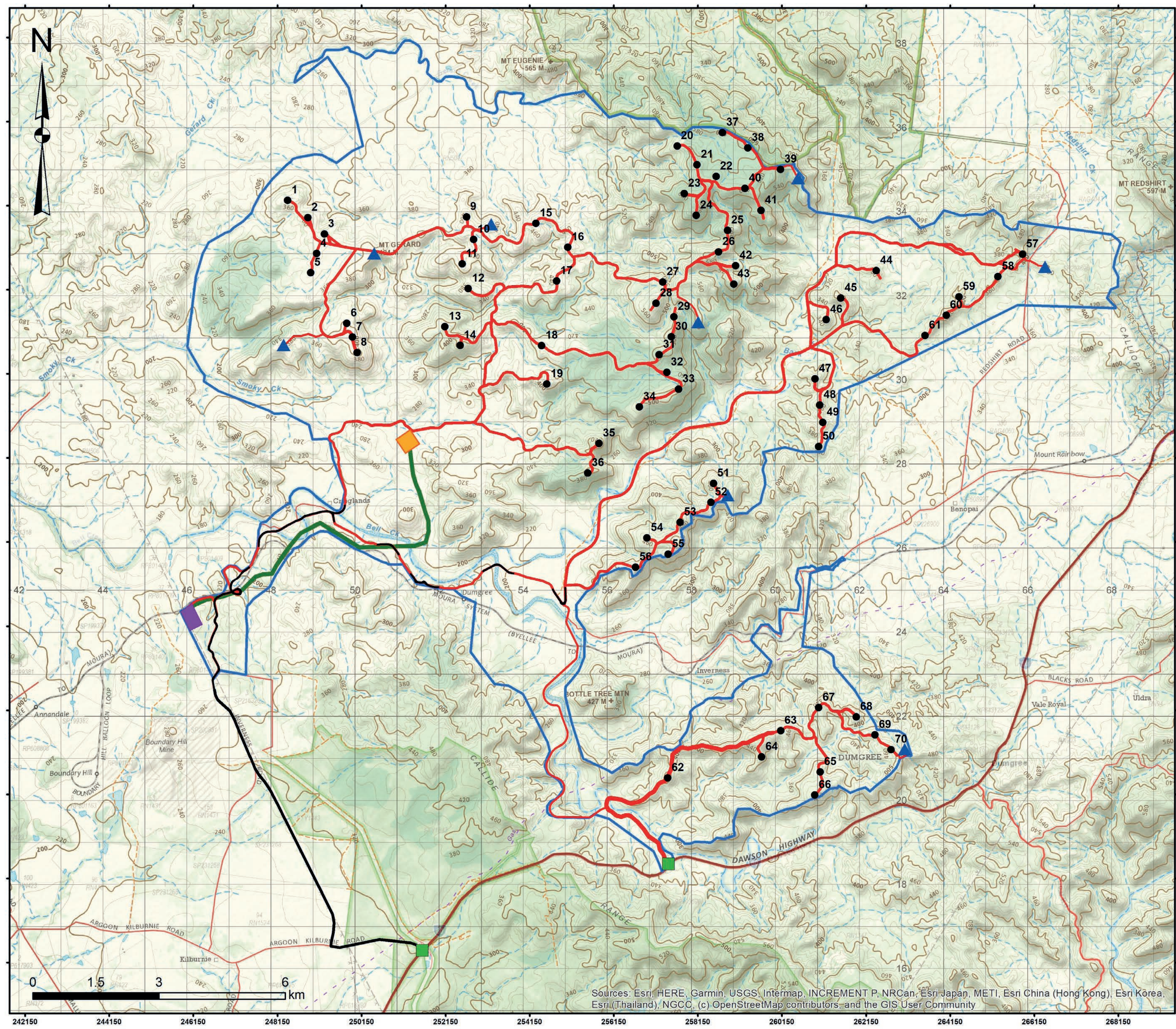
It will comprise of approximately 70 wind turbine generators to produce a total installed capacity in the region of 430MW. Connection to the national electricity grid is via a 275kV transmission line running in a north-south direction west of the site. A switchyard and a substation would be constructed as part the project. The Project will comprise of both permanent and temporary elements.

The main permanent wind farm components of the current indicative layout include the following:

- 70 wind turbines with a tip height of approximately 235m
- 275kV Switchyard to connect into the existing Calvale (or Callide) to Stanwell 275kV overhead transmission lines
- electrical overhead export connection approximately 10km west from the site substation to the switching station adjacent to Powerlink's existing 275kV transmission line
- 33 to 275kV site substation containing switchgear, transformers, energy storage and grid services equipment, offices, welfare facilities and workshop
- hard stand areas for wind turbine construction
- 140km of wind farm site tracks
- 73km of underground 33kV cabling (linking wind turbines)
- 52km of overhead 33kV cabling (linking turbine clusters to site substation)
- eight meteorological masts around 160m in height
- two accesses from the public highway.

The main temporary components of the Project will be as follows:

- two construction compounds
- wash down facilities
- laydown areas
- concrete batching plant
- guyed meteorological masts approximately 100m in height.



Callide Wind Farm

Project Layout

- Legend**
- Project Boundary
 - Wind Turbines
 - Permanent Anemometers
 - Main Access (Inverness Rd)
 - Tracks
 - Substation
 - Export Connection Corridor
 - Switching Station
 - State Road Access Points

Notes:
Indicative Layout Only


Ver	Date	Drawn by	Checked	Approved
V5	18/07/2022	AM	BM	BM

Coordinate System: GDA2020 MGA Zone 56 Size: A3

Scale: 1:85,000 Printed @ A3

Filename:
Callide Wind Farm Indicative Project Layout 18Jul2022

Source: opendata@resources.qld.gov.au
Department of Natural Resources, Mines and Energy
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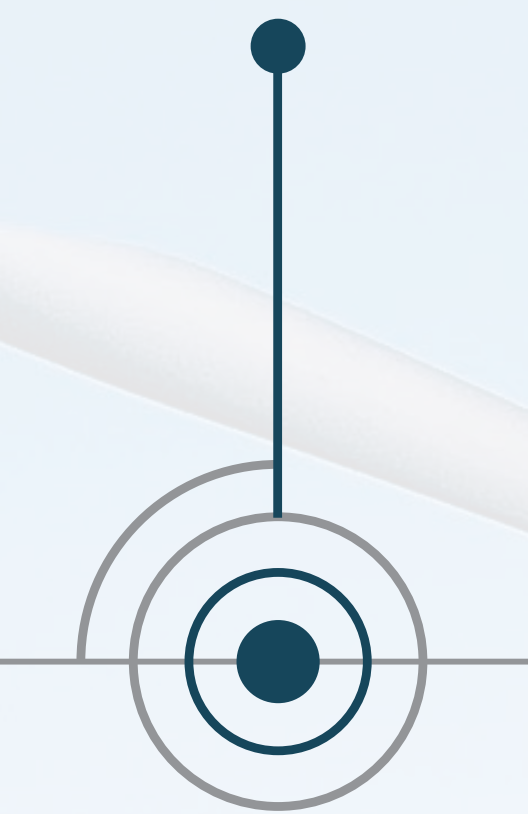


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Project Stages

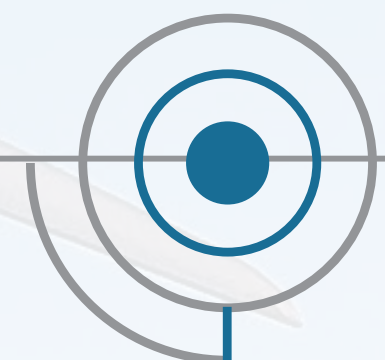
Site Selection
Project Feasibility



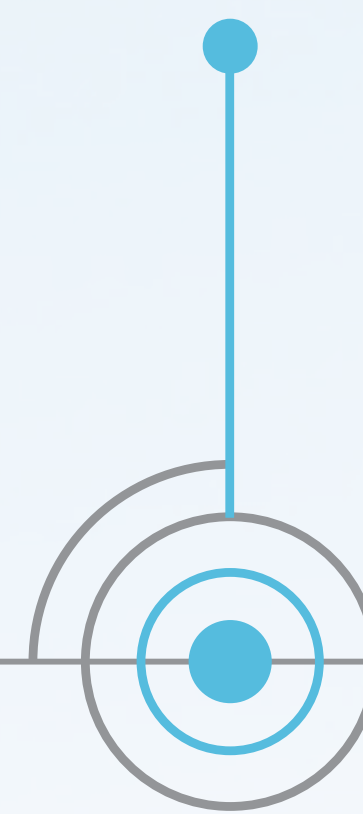
Completed

Development
Application

Assessments
Consultation
Design

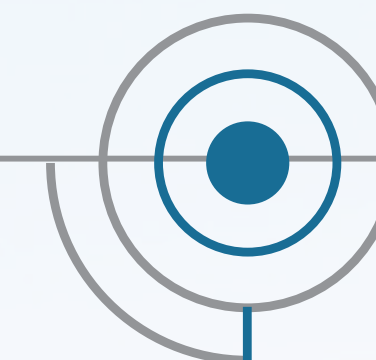


Current



Q4 2022

Construction



Q1 2024

Operation



Q4 2025



Development Application and Assessments

DP Energy are currently undertaking impact assessments to refine the Project design and are intending to lodge a development application with the State Assessment Referral Agency later this year (Q4 2022) for assessment under the Planning Act 2016 (Qld) by the chief executive of the Department of State Development, Infrastructure, Local Government and Planning. The Project will be assessed under relevant State Development Assessment Provisions (SDAP), including State code 23: Wind farm development.

Design and assessment works currently being undertaken include environmental assessments, wind resource measurements, grid connection studies, and civil and technical studies.

Key impact assessments that are being undertaken and that will form part of the development application include:

- Ecology
- Cultural Heritage
- Noise
- Aviation
- Visual Amenity
- Traffic and Transport
- Stormwater
- Shadow Flicker
- Telecommunications

Additionally, the Project has been deemed to be a controlled action under the Federal Environment Protection and Biodiversity Conservation Act 1999 and is currently being assessed. The Project's potential impacts to Matters of National Environmental Significance is currently being assessed by the Department of Climate Change, Energy, the Environment and Water.

Project Benefits

The project offers a range of environmental and economic benefits including:

Environmental:

- Over 1 million tonnes greenhouse gas emissions avoided per year
- Enough energy to power over 120,000 homes
- Contributes to Net Zero by 2050

Economic:

- Approximately 280 local/regional direct jobs during construction
- Approximately 30 operation jobs
- Around twice as many indirect local jobs created throughout construction.

Local Opportunities

The proposed Callide Wind Farm will create direct employment opportunities during construction and operation, as well as indirect opportunities through increased demand for local products, materials and services.

During construction, there are a range of skills and services that will be sought with opportunities for local suppliers and workers across a range of specialties including:

- | | | |
|------------------------------|---------------------------|--------------------|
| • Civil works | • Electrical works | • Accommodation |
| • Excavation and earthmoving | • Engineering | • Water services |
| • Plant and truck | • Fencing | • Waste management |
| • Trenching | • Safety | • Labour |
| • Steel work | • Logistics and transport | • Operation. |
| • Concreting | • Food and catering | |

Further details about upcoming opportunities will become available as the project progresses.

A preferred main contractor will be appointed closer to construction who will manage the procurement processes of employment and various contracts for goods and services.

You can register your interest via the Project website: www.callidewindfarm.com.au/employment/
Your details will be recorded and provided to the main contractor when appointed before construction.



Technology

Wind power works by converting the kinetic energy of the wind into electrical energy through the use of a wind turbine generator. The energy in the wind turns the blades of the wind turbine around a rotor, this rotor is connected to the main shaft which spins a series of gears connected to the generator. The generator then converts the wind's energy into electricity.

The Callide Wind Farm design is currently based on wind turbine generators with a 170m rotor diameter and a height of 250m from ground level to the blade tip in the vertical position.

The turbines will be configured such that the blades will all rotate in the same direction. They will not carry any symbols or other lettering except where required under legislation. Numbers will be added to the base of each tower to aid service engineers during the operational phase of the Project.

Indicative details of the turbines can be found in the table below.

Component	Approximate Dimension
Number of Wind Turbines	70
Power Output	6MW/turbine
Rotor Speed	11 - 13rpm (at rated power output)
Height (to blade tip)	250m
Rotor Diameter	170m
Hub Height	165m
Tower Base Diameter	7.8m
Tower Top Diameter	3.6m
Tower and Blade Finish	Light Grey, non-reflective matt (RAL 7035)

Wind turbine generator foundations will vary not only as a function of the selected turbine model and the site wind conditions but also as a function of the specific ground conditions at each wind turbine location. A typical foundation of a turbine this size would require an area of approximately 22m in diameter to be excavated to a depth of around 3m. The concrete foundation would consist of approximately 900m³ of concrete with around 40 tonnes of reinforcing steel.

