



CLARKE CREEK WIND FARM UPDATE

Capricorn Enterprise – Industry Lunch

Friday October 25th 2019

Rockhampton

David Brown – Snr Project Manager,

Clarke Creek Wind Farm



Goldwind Australia

Established in 2009

- 140 Employees
- 360MW wind + 10MW solar under operation
- 1,000MW wind + 20MW solar under construction
- >1,000MW under development
- Local staff, Sydney & Melbourne
- Project staff deployed locally in regional NSW, VIC and TAS.
- Strong relationship with key subcontractors
- In-house planning experts
- Advanced grid solutions

Goldwind Key Projects

Operating

Mortons Lane Wind Farm **Victoria**

GW82 1.5MW
19.5MW Rated Capacity



Gullen Range Wind Farm **New South Wales**

GW82 1.5MW + GW100 2.5MW
165.5MW Rated Capacity



Gullen Range Solar Farm **New South Wales**

Gullen Range Wind Farm
grid connection 10MW
22,000MWh/yr Capacity



White Rock Wind Farm **New South Wales**

GW121 2.5MW
175MW Rated Capacity



Goldwind Key Projects Under Construction

White Rock Solar Farm

New South Wales

White Rock Wind Farm
grid connection 20MW
44,000MWh/yr Capacity



White Rock Solar Farm

Moorabool Wind Farm

Victoria

GW136 3.4MW
321MW Rated Capacity



Moorabool Wind Farm

Stockyard Hill Wind Farm

Victoria

GW140 3.6MW
530MW Rated Capacity



Stockyard Hill Wind Farm

Cattle Hill Wind Farm

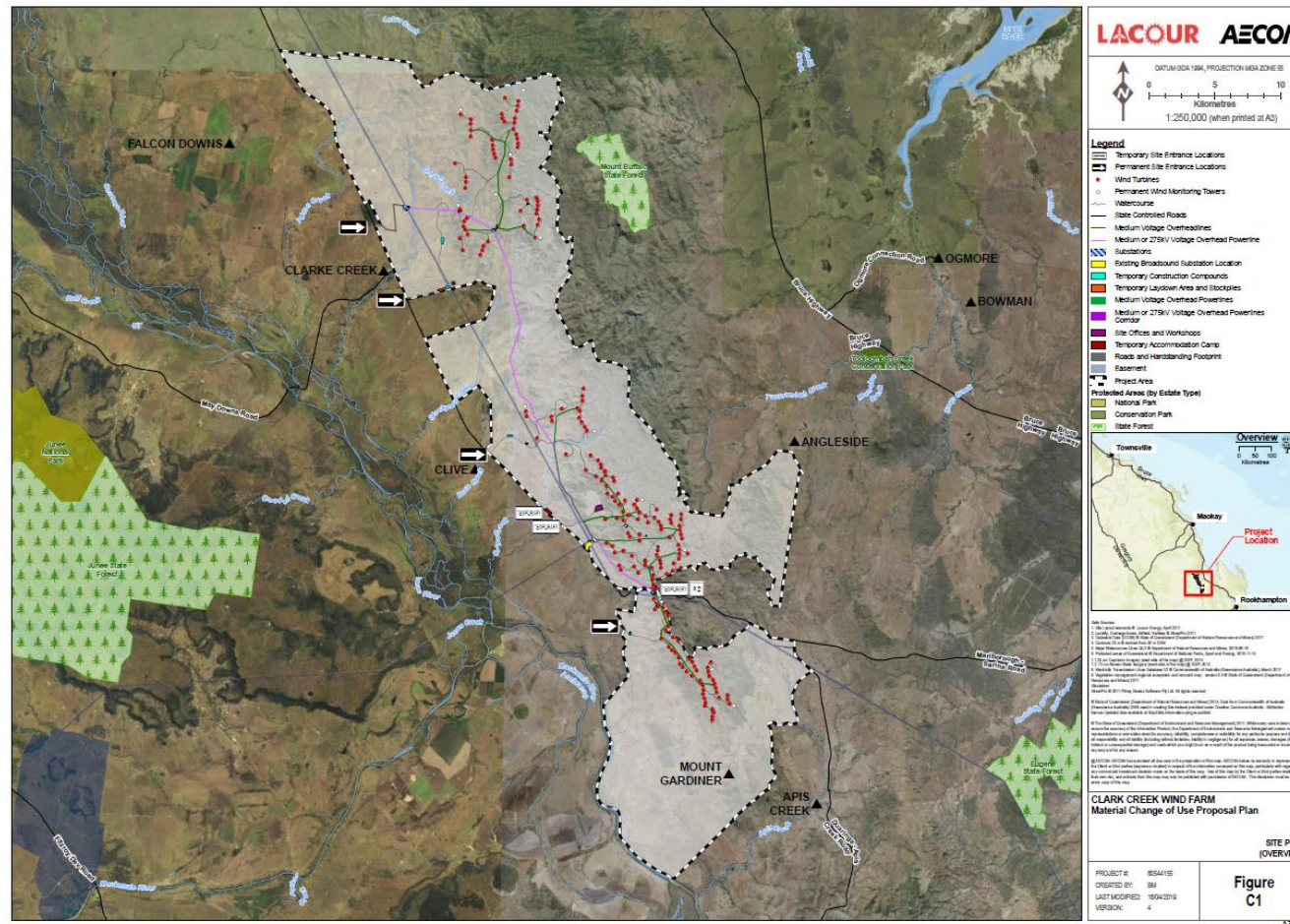
Tasmania

GW140 3.4MW
148MW Rated Capacity



Cattle Hill Wind Farm

Clarke Creek Wind Farm Overview



- Largest wind project in the Southern Hemisphere
- Project is approximately 170km north of Rockhampton;
- Wind and Solar Farm are separate projects;
- Up to 195 wind turbines located on the Broadsound Range (length ~ 55 km);

Clarke Creek Wind Farm Overview

The total project investment is around \$1.5 Billion;

Powering 600,000 Queensland homes, around 4% of Queensland Electricity.

Planning & Development achieved

Construction to commence early 2020 and be complete by 2023;

Estimated 300 - 350 jobs during the 30 - 36 months construction period and 20 full time jobs during operations.

Project Status

Project Milestones Completed

- Land access agreements
- State Government Development Approval
- Federal Government Environmental Approval (EPBC Act)
- Detailed Wind Modelling
- Database of over 700 companies and individuals potential suppliers and employees

Current Feasibility Work

- Geotechnical drilling and test pits
- Grid connection
- Refined road and electrical cabling design
- Preparation of lead contractor tender packages



Project Timeline (Indicative)

Future Project Milestones

- Now – Final Tendering for Balance of Plant (Civil and Electrical) work.
- Late 2019 - Likely off-site road works commence
- Early 2020 - Target for Construction commencing

Next Steps

- ICN registration of interested contractors (Now)
- Complete Wind Turbine & BOP Tenders (early 2020)



Local Business Participation Program

- Identify capacity in the local community.
- Maximise opportunities for local suppliers to participate.

Stage One – Expressions of interest

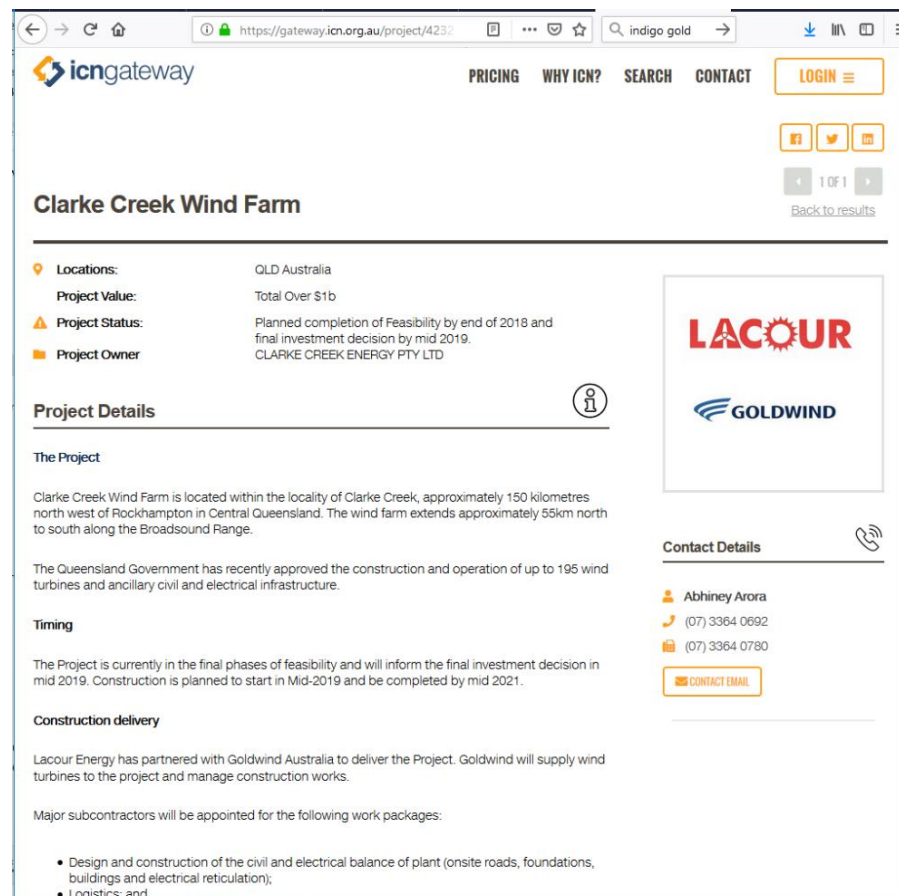
- ICN Gateway
<https://clarkecreekwindfarm.icn.org.au>

Stage Two – Industry Briefing Session

- More information on bidding process; opportunity to meet key project personnel.
- Database provided to main contractor and major subcontractors.

Stage Three – engagement of contractors

- The main contractor and/or major subcontractor may engage suppliers and subcontractors



The screenshot shows the ICN Gateway website for the Clarke Creek Wind Farm project. The page includes a navigation bar with links for PRICING, WHY ICN?, SEARCH, and CONTACT, along with a LOGIN button. The main content area is titled "Clarke Creek Wind Farm" and lists key project details:

- Locations:** QLD Australia
- Project Value:** Total Over \$1b
- Project Status:** Planned completion of Feasibility by end of 2018 and final investment decision by mid 2019.
- Project Owner:** CLARKE CREEK ENERGY PTY LTD

Below this, the "Project Details" section is visible, starting with "The Project" description: "Clarke Creek Wind Farm is located within the locality of Clarke Creek, approximately 150 kilometres north west of Rockhampton in Central Queensland. The wind farm extends approximately 55km north to south along the Broadsound Range."


Other sections include "Timing" (stating the project is in the final phases of feasibility) and "Construction delivery" (stating Lacour Energy has partnered with Goldwind Australia). A "Contact Details" sidebar on the right lists Abhiney Arora with contact numbers (07) 3364 0692 and (07) 3364 0780, and a "CONTACT EMAIL" button.








Local Business Participation Program




















































- 17 work packages.
- Closing date extended from 8th March 2019.
- Over 700 expressions of interest from over 380 unique companies (Australia wide).

← → ↺ 🏠 <https://gateway.icn.org.au/project/4232> indigo gold →

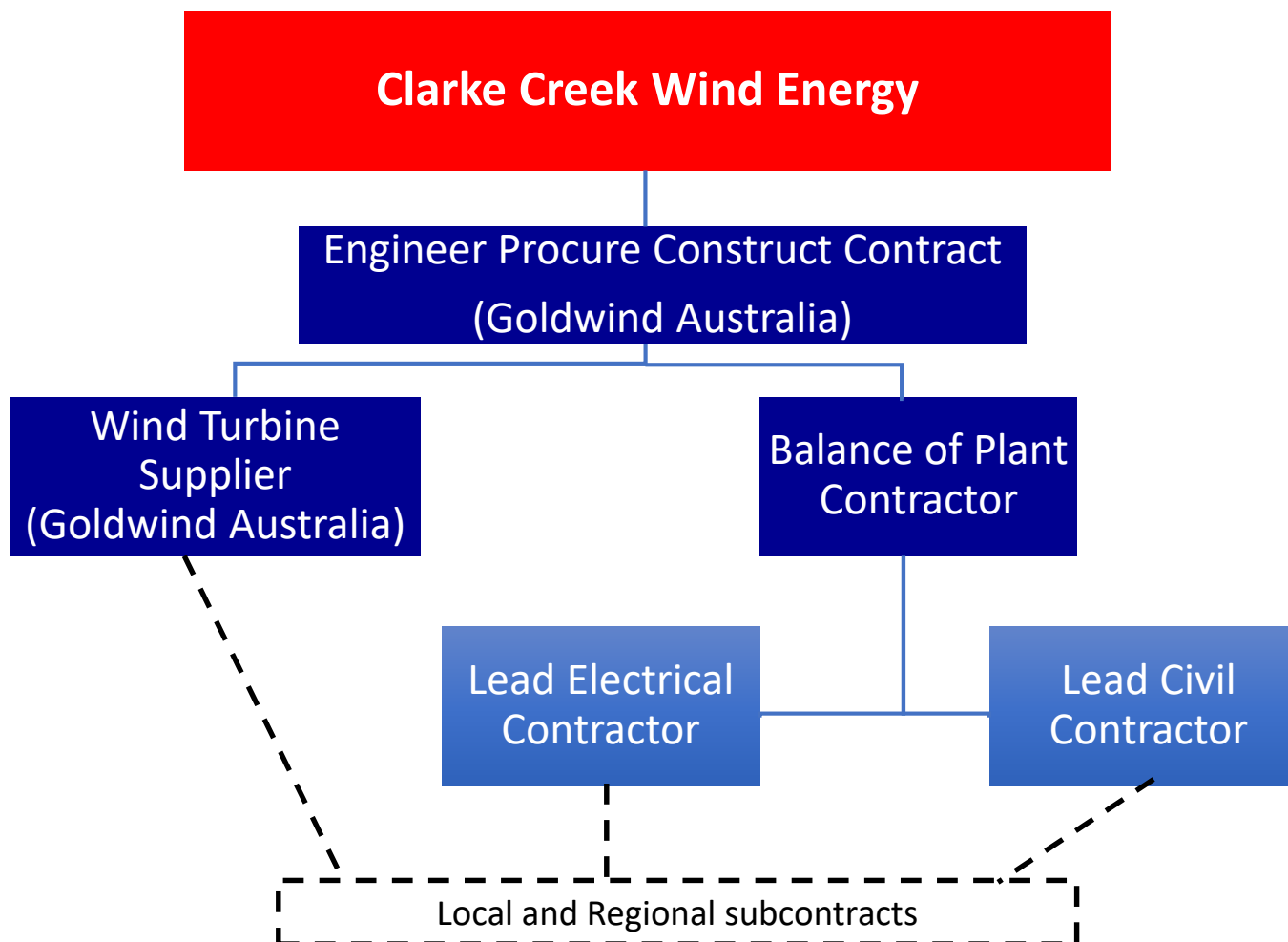
Work Packages

To submit an expression of interest, select the  icon next to the work package scope you are interested in.

 OPEN LISTINGS
  AWARDED
  CLOSED LISTINGS
  OTHER
  OPEN FOR EOI
  INCOMPLETE EOI
  EOI COMPLETED

STATUS	▲ CONTRACT	OPENS	FULL SCOPE CLOSES	PARTIAL SCOPE CLOSES	DOCS	FULL SCOPE EOI	PARTIAL SCOPE EOI
	▼ Accommodation Providers	13 Dec 18	8 Mar 19				
	▼ Any Opportunities (including individual labour hire)	13 Dec 18	8 Mar 19				
	▼ Civil construction of onsite crane hardstands and foundations	13 Dec 18	8 Mar 19				
	▼ Concrete supply	13 Dec 18	8 Mar 19				
	▼ Crane Hire	13 Dec 18	8 Mar 19				
	▼ Diesel supply for machinery	13 Dec 18	8 Mar 19				
	▼ Earth moving and construction equipment services	13 Dec 18	8 Mar 19				
	▼ Electrical wholesalers	13 Dec 18	8 Mar 19				
	▼ Fencing Contractors	13 Dec 18	8 Mar 19				
	▼ Formwork and steel fixing	13 Dec 18	8 Mar 19				
	▼ Geotechnical Investigations and Surveying	13 Dec 18	8 Mar 19				
	▼ High voltage commissioning and testing	13 Dec 18	8 Mar 19				
	▼ Inland Transportation and Traffic Management	13 Dec 18	8 Mar 19				
	▼ Low voltage electrical works and safety testing	13 Dec 18	8 Mar 19				
	▼ Provision of permanent operations and temporary construction office facilities	13 Dec 18	8 Mar 19				
	▼ Supply of Quarry Products	13 Dec 18	8 Mar 19				
	▼ Water Carting Services	13 Dec 18	8 Mar 19				

Indicative Contracting Structure



Construction Management

Balance of Plant



Civil - Earthworks

- Surveying, Clearing & Stripping
- Road construction
- Hardstand construction
- O & M Building



Foundations

- Excavation
- Steel reinforcement
- Concrete pour
- Backfill & Rehabilitation



Electrical

- UG Cable Installation
- Kiosk Installation
- Substation Construction

Construction Management

Logistics / Installation / Commissioning



Logistics

- Delivery
- Traffic Management
- Coordination



Installation

- Mechanical & Electrical works
- Pre-install erection
- Main Crane erection



Commissioning

- Inspections
- Testing
- Energisation/Generation

Construction – Some facts & figures



~120,000m³ of concrete to be poured



~120km of 33 kV underground cable to be laid



~170,000 tonnes of turbine components to be lifted



~ 250km of access tracks to be constructed



~1,100,000m² of hardstands to be constructed

Further information:
www.clarkecreekwindandsolar.com.au