



## CLARKE CREEK WIND FARM UPDATE

Capricorn Enterprise – Industry Lunch

Thursday October 29<sup>th</sup> 2020

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

## **Moorabool Wind Farm Victoria**

GW136 3.4MW  
321MW Rated Capacity

## **Stockyard Hill Wind Farm Victoria**

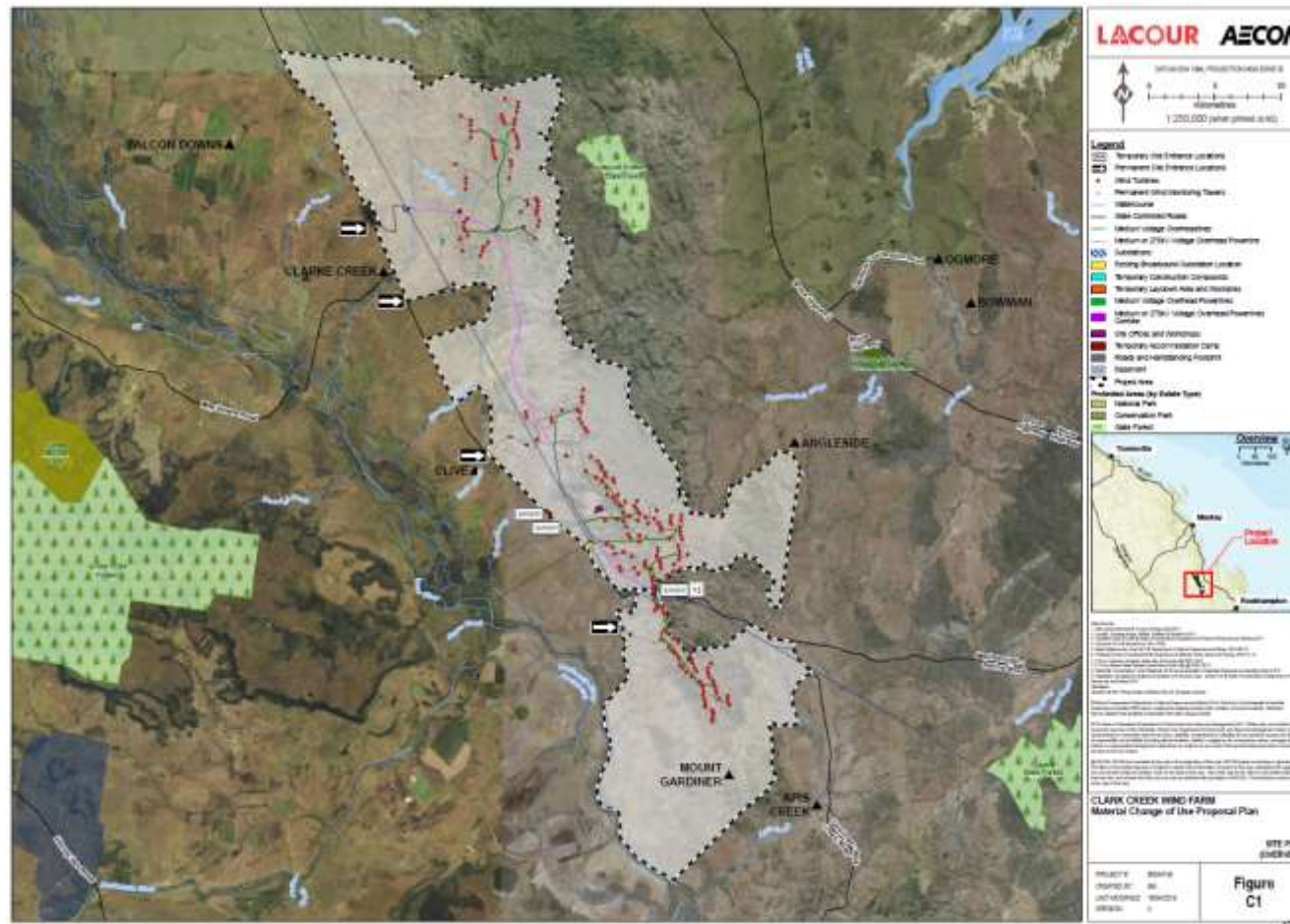
GW140 3.6MW  
530MW Rated Capacity

## **Cattle Hill Wind Farm Tasmania**

GW140 3.4MW  
148MW Rated Capacity



# 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, all going well, will commence early 2021( offsite roads) and be complete by end of 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.
- Early 2021 - Likely off-site road works commence
- Late 2021 - Target for Construction commencing

## Next Steps

- ICN registration of interested contractors (closed)
- Complete Wind Turbine & BOP Tenders (complete)





# Local Business Participation Program

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

## Stage One – Expressions of interest

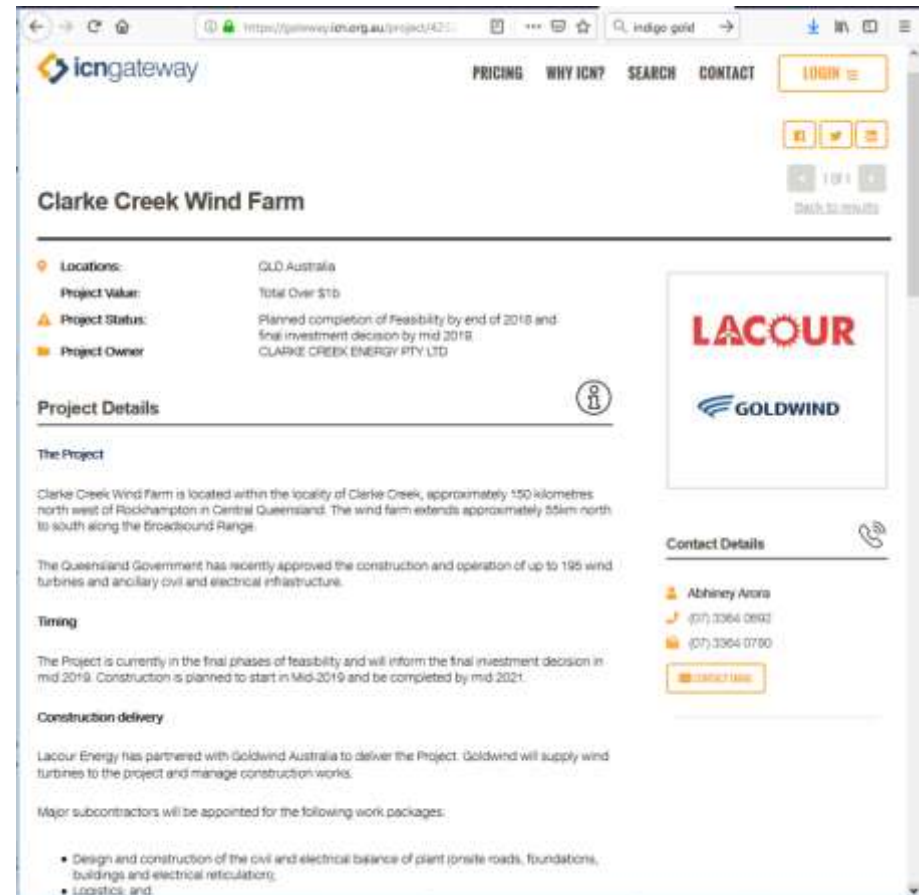
- ICN Gateway  
<https://clarkecreekwindfarm.icn.org.au>

## 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

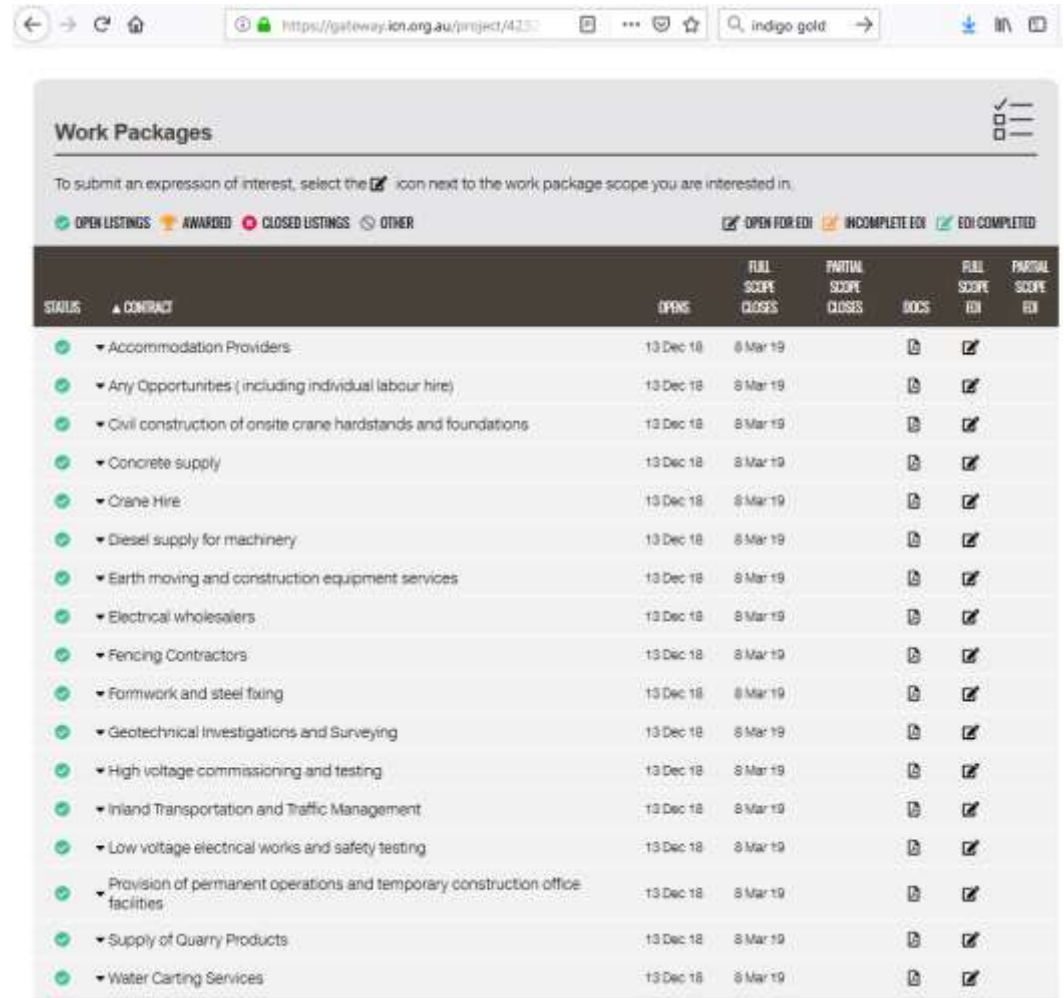
- The main contractor and/or major subcontractor may engage suppliers and subcontractors



The screenshot shows the ICN Gateway website for the Clarke Creek Wind Farm project. The page includes a navigation menu with 'PRICING', 'WHY ICN?', 'SEARCH', and 'CONTACT'. The main content area displays project details for 'Clarke Creek Wind Farm' in QLD, Australia, with a project value over \$1b and a planned completion of feasibility by end of 2018. The project owner is Clarke Creek Energy Pty Ltd. The page also features logos for LACOUR and GOLDWIND, and contact details for Abhiney Arora, including phone numbers (07) 3364 0892 and (07) 3364 0700. A 'CONTACT US' button is visible. The page is titled 'Clarke Creek Wind Farm' and includes a 'Back to results' link.

# Local Business Participation Program

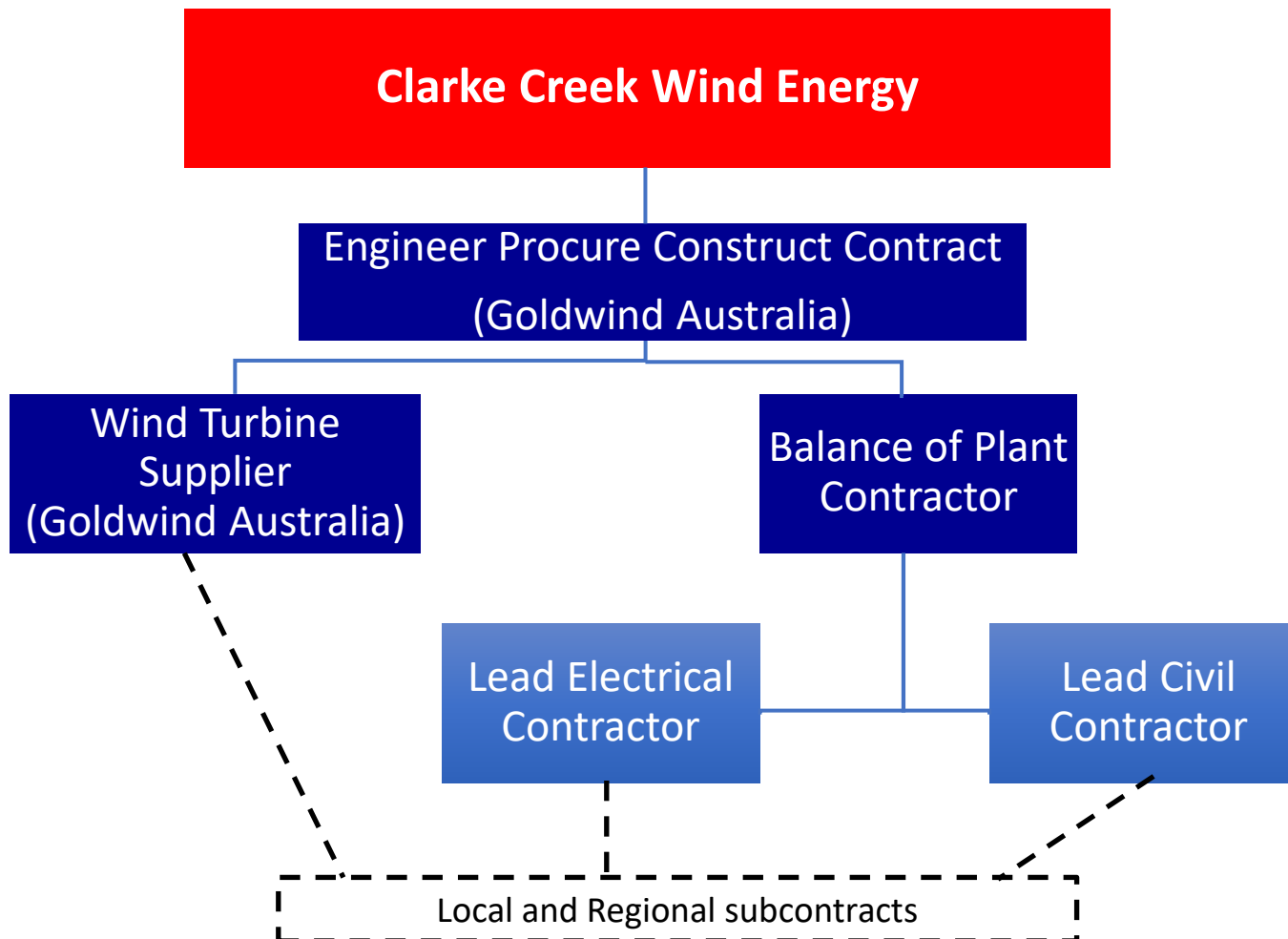
- 17 work packages.
- Closing date was extended to October 9<sup>th</sup> 2020.
- Over 800 expressions of interest from over 380 unique companies (Australia wide).



The screenshot shows a web browser window with the URL <https://gateway.ion.org.au/project/425>. The page title is "Work Packages". Below the title, there is a message: "To submit an expression of interest, select the  icon next to the work package scope you are interested in." There are filters for "OPEN LISTINGS", "AWARDED", "CLOSED LISTINGS", and "OTHER". On the right, there are filters for "OPEN FOR EDI", "INCOMPLETE EDI", and "EDI COMPLETED".

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

# 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



**~120,000m<sup>3</sup> 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**



**~1,100,000m<sup>2</sup> of hardstands to be constructed**

**Further information:**  
**[www.clarkecreekwindandsolar.com.au](http://www.clarkecreekwindandsolar.com.au)**