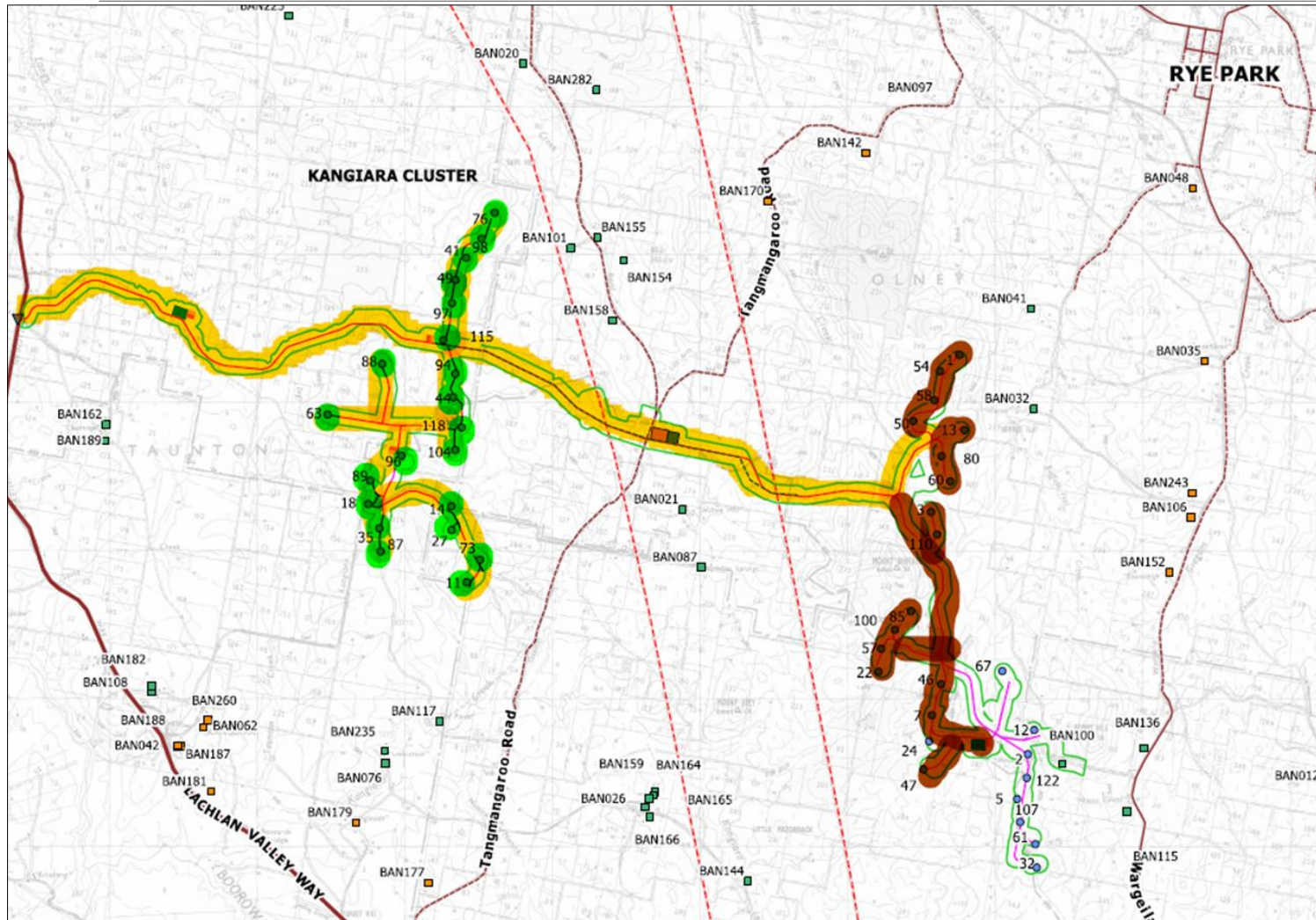


CCC Meeting 18<sup>th</sup> August 2020



CCC Meeting 18<sup>th</sup> August 2020

## BWF Construction Status as at JULY 31<sup>st</sup> 2020

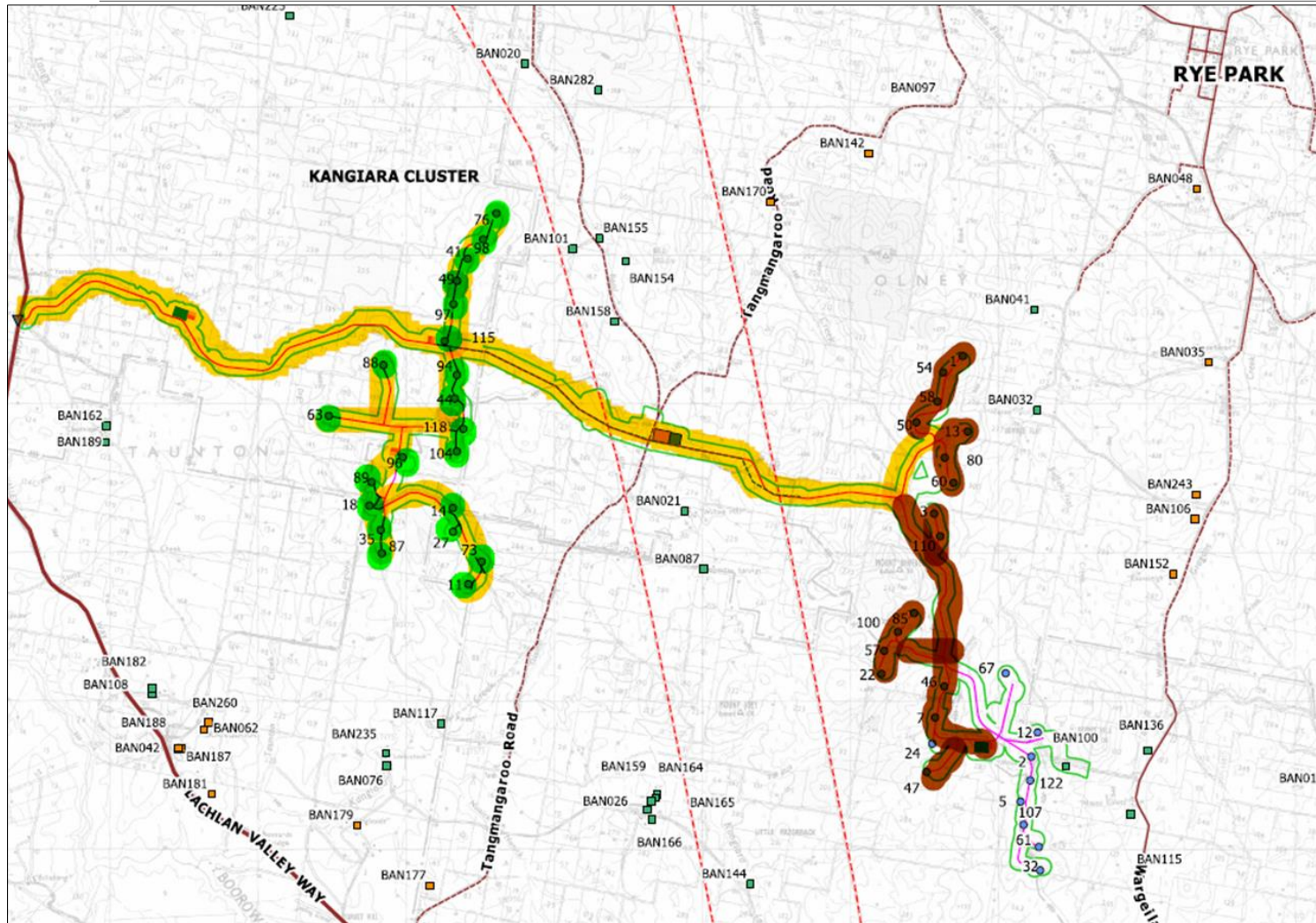


**Green Colour** – 21 WTG Foundations have been completed, backfilled in final stages of handover for WTG Deliveries and Installation Activities. Hardstand 6 nearing completion

# WTG Foundation completed and backfilled



# BWF Construction Status as at JULY 31<sup>st</sup> 2020



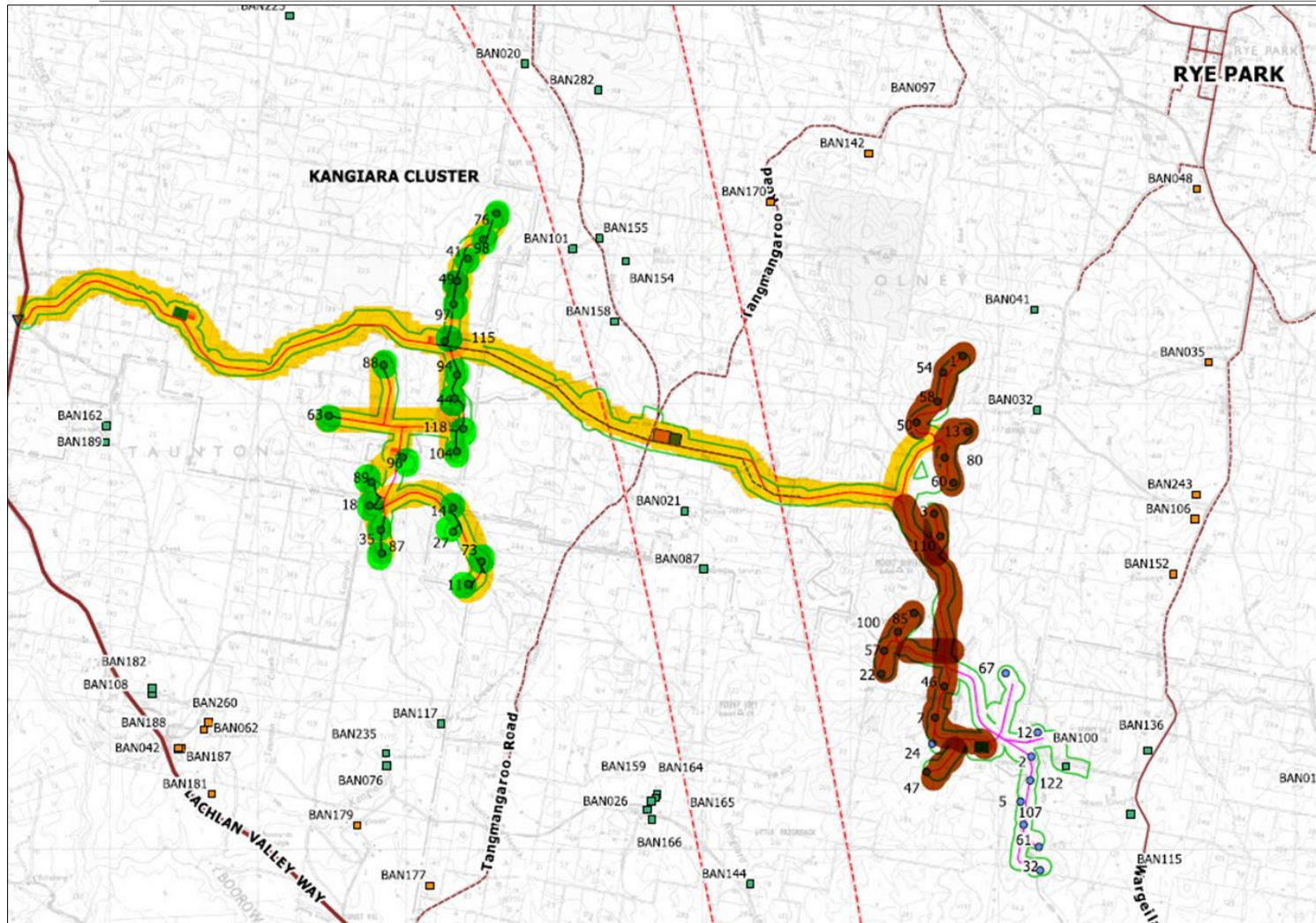
**Green Colour** – 21 WTG Foundations have been completed, backfilled in final stages of handover for WTG Deliveries and Installation Activities. Hardstand 6 nearing completion

**Yellow Colour** – Track significantly completed.

# Track significantly completed



# BWF Construction Status as at JULY 31<sup>st</sup> 2020



**Green Colour** – 21 WTG Foundations have been completed, backfilled in final stages of handover for WTG Deliveries and Installation Activities. Hardstand 6 nearing completion

**Yellow Colour** – Track significantly completed.

**Brown** track - construction works are in progress in varying stages.

# Track works in progress and at varying stages



# WTG Nacelle Preparation





# Substation Completion

Energisation scheduled for 17/08/2020



# Works commenced on the Operation and Maintenance Facilities



## Next 3 Months:

---



- Continue pouring of foundations in the Eastern Cluster;



## Next 3 Months:

- Continue pouring of foundations in the Eastern Cluster;
- Delivery and Installation of Wind Turbine Components;



## Next 3 Months:



- Continue pouring of foundations in the Eastern Cluster;
- Delivery and Installation of Wind Turbine Components;
- Bulk Civil Construction activities; and



## Next 3 Months:



- Continue pouring of foundations in the Eastern Cluster;
- Delivery and Installation of Wind Turbine Components;
- Bulk Civil Construction activities; and
- Continue cabling and installation of Underground and Over-head Services.



## Site Numbers:

---



Currently 250+ personnel on site.

Will see demobilisation of the substation crew but increasing numbers for the WTG Installation program.

# Local Suppliers used up to 31 July 2020



Location	Resource
Boorowa	Site Shed Roof
	Civil & Fencing works
	Plant & equipment hire
	Bulk earthworks
	Food & accommodation
	Cleaning services
	Miscellaneous
Boorowa, Yass, Young	Concrete Bedding Sand Road Base
Bowning	Waste Removal Water pumping
Cootamundra	Civil; Plant and Equipment Hire Labour hire
Goulburn	Civil; Plant and Equipment Hire Supply of road base material.
Jugiong	Coarse Dust Road Base Stone Drainage Rock
Nanima - Murrumbateman	Trucks Water Delivery



# Local Suppliers used up to 31 July 2020



Location	Resource
Boorowa	Site Shed Roof
	Civil & Fencing works
	Plant & equipment hire
	Bulk earthworks
	Food & accommodation
	Cleaning services
	Miscellaneous
Boorowa, Yass, Young	Concrete Bedding Sand Road Base
Bowning	Waste Removal Water pumping
Cootamundra	Civil; Plant and Equipment Hire Labour hire
Goulburn	Civil; Plant and Equipment Hire Supply of road base material.
Jugiong	Coarse Dust Road Base Stone Drainage Rock
Nanima - Murrumbateman	Trucks Water Delivery

Location	Resource
Yass	Personnel
	MV parts and repairs
	Steel Fabrication
	Miscellaneous
	Fencing Weed Control
	General Hardware
	Bobcat
	General Steel, Welding and Fabrication
	Fire Extinguisher Testing / Tagging
	Accommodation & Food
Young	Signage
	Miscellaneous
	Plant and Equipment Hire
	Vegetation clearing and mulching
	Electrical – WTG earthing
Consumables	

# Supplies from other areas

Wider region	
Location	Resource
East Wagga Wagga	Miscellaneous
Queanbeyan	Civil works Plant and Equipment Hire Bulk earthworks
Tumut	Civil works Plant and Equipment Hire

# Supplies from other areas

Wider region	
Location	Resource
East Wagga Wagga	Miscellaneous
Queanbeyan	Civil works Plant and Equipment Hire Bulk earthworks
Tumut	Civil works Plant and Equipment Hire

ACT	
Location	Resource
Fyshwick	Crowd Barriers
	GPS Base Station
	Civil; Site survey and Setout services Skip Bins and Rubbish Removal
Mitchell	Miscellaneous Items
	Surveyors
	Form Ply LVL
Ngunawal	Plumbing works
Weston	Civil; Form Reo Pour Subcontractor.

# Supplies from other areas



Wider region	
Location	Resource
East Wagga Wagga	Miscellaneous
Queanbeyan	Civil works Plant and Equipment Hire Bulk earthworks
Tumut	Civil works Plant and Equipment Hire

ACT	
Location	Resource
Fyshwick	Crowd Barriers
	GPS Base Station
	Civil; Site survey and Setout services Skip Bins and Rubbish Removal
Mitchell	Miscellaneous Items
	Surveyors
	Form Ply LVL
Ngunawal	Plumbing works
Weston	Civil; Form Reo Pour Subcontractor.

NSW	
Location	Resource
Yass	Site-based team OHL Team
Newcastle (DIDO's) Brisbane (FIFO's)	
Melrose Park	Civil works Access track, hardstand and road testing.
Baulkham Hills	Civil works Plant and Equipment Hire
St Marys	Civil works supply and delivery of steel reinforcement.
Regent's Park	Civil works Hold down bolt supply.
Mortdale	Structural and Civil works

# Supplies from other areas



Wider region	
Location	Resource
East Wagga Wagga	Miscellaneous
Queanbeyan	Civil works Plant and Equipment Hire Bulk earthworks
Tumut	Civil works Plant and Equipment Hire

ACT	
Location	Resource
Fyshwick	Crowd Barriers
	GPS Base Station
	Civil; Site survey and Setout services
	Skip Bins and Rubbish Removal
Mitchell	Miscellaneous Items
	Surveyors
	Form Ply
	LVL
Ngunawal	Plumbing works
Weston	Civil; Form Reo Pour Subcontractor.

NSW	
Location	Resource
Yass	Site-based team
Newcastle (DIDO's)	OHL Team
Brisbane (FIFO's)	
Melrose Park	Civil works Access track, hardstand and road testing.
Baulkham Hills	Civil works Plant and Equipment Hire
St Marys	Civil works supply and delivery of steel reinforcement.
Regent's Park	Civil works Hold down bolt supply.
Mortdale	Structural and Civil works

INTERSTATE	
Resource	
	Civil works
	Electrical
	UG Trenching and Cable Reticulation
	WTG Foundation Excavations
	OHL Stringing
	Design / Engineering
	Plant and Equipment Hire
	Provision of on-site Ecologist support

**Approximate numbers of local and regional people directly employed on the BWF site**



Boorowa.....	40+
Bowning.....	3
Cootamundra.....	15
Goulburn.....	4
Yass.....	11
Young.....	7
ACT.....	30
Wider Region.....	79
<b>TOTAL.....</b>	<b>189</b>



# Transgrid utilise locally based

**resources** - (Substation and overhead power lines)



This is an *indicative* and *conservative* example only and does NOT include rent paid

For example:

50-60 people accommodated in Yass and Boorowa.

Average spend per person = (approx.) \$200+ each week

= between approx:

\$ 10,000 and \$ 12,000 per week

\$ 43,000 and \$ 52,000 per month

\$130,000 and \$156,000 per quarter

Fuel:-

(Say) 15 diesel vehicles x 50 ltrs pw x \$1.20 per litre

= approx:

\$ 900 per week

\$ 3,900 per month

\$11,700 per quarter



## Downer utilise locally based resources

Downer currently has about 200 people working on site from all over Australia, including the local area.

Contractors /office staff travel from Boorowa, Young, Yass, Bowring, Jugiong, and Cootamundra every day.

Of those who are not from the local area, there are approximately 21 people staying in Boorowa, others in Yass.





## Downer utilise locally based resources

This is an *indicative* and *conservative* example only and does NOT include rent paid

For example:—

60-80 people accommodated in Yass and Boorowa.

Average spend per person = (approx.) \$200+ each week

= between (approx.):

\$ 12,000 and \$ 16,000 per week

\$ 52,000 and \$ 69,300 per month

\$156,000 and \$208,000 per quarter

Fuel:-

(Say) 30 diesel vehicles x 50 ltrs pw x \$1.20 per litre

= approx:

\$ 1,800 per week

\$ 7,800 per month

\$23,400 per quarter



## GE utilise locally based resources

---

At this point in time, there are some GE Management personnel on site.

More personnel and resources are due to arrive in the next period.

Those numbers will be reported at next CCC meeting.







# Bango Wind Farm

