

Project Name	Waterloo Wind Farm	Meeting Date	22 August 2017
Meeting / Subject	Community Liaison Group	Recorded By	MO
	Meeting 26	Total Pages	6

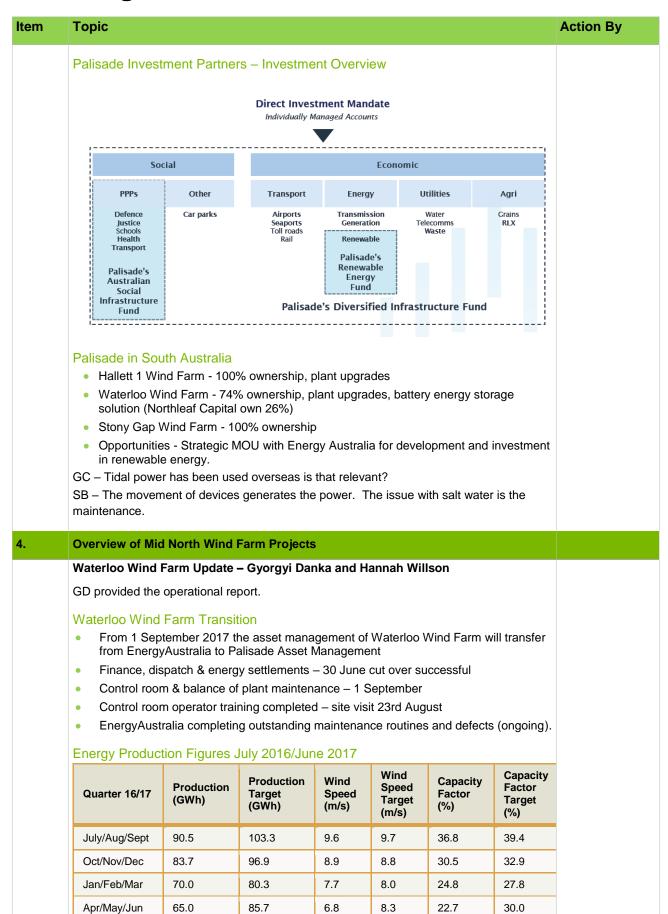
Facilitator:	Georgina House (GH)	GH Planning
Members:	Garry Fieldhouse (GF)	Gally's, Farrell Flat
	Sally Fieldhouse (SF)	Gally's, Farrell Flat
	David Clarke (DC)	Armagh Resident
	Sue Wurst (SW)	Clare Resident
	John Browne (JB)	Marrabel Committee District Association and Marrabel Rodeo Club
	Heidi Hodge (HH)	Farrell Flat Resident
	Terry McKeough (TMc)	Marrabel Community Group
	Liz McKeough (LMc)	Marrabel Community Group
	Pat Williams (PW)	Auburn Resident
	Lynn Wallace (LW)	Economic Development Officer, Mid North Region, Regional Development Australia Yorke and Mid North
	Margaret Wayman (MW)	Saddleworth Resident
	Peter Wayman (PW)	Saddleworth Resident
	Glenn Christie (GC)	Seed Collector and Revegetation
	Geoff Rowett (GR)	Marrabel Committee District Association and Marrabel Rodeo Club
Guests:	David Stevenson (DS)	CEO, Goyder Council
EnergyAustralia/ Palisade:	Steve Brown (SB)	GM, Renewables, Palisade
	Hannah Willson (HW)	Operations Manager – SA, Palisade
	Gyorgyi Danka (GD)	Asset Engineer, Renewables, Palisade Asset Management
Apologies:	Hon Dan van Holst Pellekaan	Honourable Member for Stuart
	Hon Geoff Brock	Honourable Member for Frome
	Clint Purkiss (CP)	Development Manager, Palisade Asset Management
	Andrew Allchurch (AA)	Gilbert Group CFS and Waterloo Landowner
	Colin Endean (CE)	ACF Climate Project, Transition Action Group
	Chris Mosey (CM)	Waterloo Landowner
	Kerry Ward (KW)	Member NRM Board
	Kelly-Anne Saffin (KAS)	CE, Regional Development Australia Yorke and Mid North
	Simon Millcock (SM)	CEO, Legatus Group
	Allison Millcock (AM)	Mid North Resident
	Angela Ruddenklau (ARU)	Project Officer, Yorke and Mid North, Primary Industries and Regions SA
	Trevor White (TW)	Planning Consultant and PhD Student
	Abby Walker-Schwartz (AWS)	Waterloo Resident



	Lis Jones Ingman (LJI)	Burra Resident
Minute Taker:	Marie Oatway (MO)	GH Planning

Item	Topic	Action By
1.	Welcome and Introductions- Georgina House	
1.1.	 Welcome GH welcomed members and guests to the August 2017 CLG Meeting. GH gave a special welcome to three new members: Terry and Liz McKeough, Marrabel Community Group Liz Wallace, Economic Development Officer, Mid North Region, Regional Development Australia Yorke and Mid North. GH welcomed David Stevenson who was formerly representing Legatas Group but is now CEO of Goyder Council. 	
1.2.	Apologies Apologies were noted.	
1.3.	Agenda and Housekeeping GH outlined today's agenda, which included: Introduction to Palisade and Palisade in SA An overview of the Mid North Wind Farm Projects (Waterloo and Stony Gap) Recommendations arising from the bushfire near Waterloo Wind Farm A presentation by Steve Brown on the Generation and Dispatch of Power in South Australia.	
2.	Review of Minutes of the Previous Meeting – Georgina House	
	 GH reported that all action items from the previous meeting have been attended to, including: Circulation of Windfarm Commissioner's presentation Continuing to plan future meetings topics. Minutes of the 9 May 2017 CLG Meeting were accepted as a true representation of the meeting. 	
3.	Introduction to Palisade and Palisade in SA – Steve Brown	
	SB provided an overview of Palisade and their interests in SA. Palisade Investment Partners An independent, specialist infrastructure manager Australian "mid-market" focus Unique risk management discipline Investors benefit from flexible access. Palisade Investment Partners — Ownership Structure Palisade is majority owned by management and staff which creates a strong alignment with investor interests.	







June 2017

 June results were largely driven by a climate driver known as the Southern Annular Mode (SAM).

http://www.wattclarity.com.au/2017/07/the-southern-annular-mode-sam-contributes-to-recent-wind-drought/

SW - Did that affect other windfarms in South Australia?

GD - Yes it affected all wind farms in South Australia.

What did this mean for Waterloo Wind Farm?

Production: Actual: 10,616 MWh Target: 29,626 MWh Wind Speed: Actual: 5.16 m/s Target: 8.48 m/s
Capacity Factor: Actual: 11.27 % Target: 31.46 %

July and August 2017

- FY18 is going very well so far good winds have seen good production.
- This means we are 28% above so far on our YTD target.

	July 2017	August 2017 (to 20 th Aug)
Production (MWh)	47,962	35,543
Wind Speed (m/s)	10.2	12.5
Capacity Factor (%)	49.26	58.38

Operations

- May and June were quiet operationally
 - o On 3rd June a DVAR unit termination failed.
- July:
 - On 3rd July WWF tripped 3 times in one day ElectraNet Runback Scheme
 - New AEMO constraint has been applied to wind generation in SA
 - WTG FF hydraulic hose leak
 - WTG AG slip ring arc flash
 - WTG CA fire suppression system.
- August
 - Planned HV maintenance undertaken each circuit taken offline for a work day each.
- DC When the turbines have been tripped, how long are you off the grid?
- GD We were offline for 2 hours but it can depend and is up to ElectraNet when we come back on.
- SB Windfarms can't provide frequency response or inertia, we follow frequency but wind farms can't maintain frequency. We need the gas online to provide the security for the system.
- SB Hornsdale 2 have an experiment at the moment to provide frequency control. If that is successful it is likely that all windfarms would need to do the same but right now we need large spinning masses.
- JB What brings it to the point that gas is fired up?
- ${\sf SB}$ AEMO has a rule that at least 3 gas fired generators are running at the same time in ${\sf SA}$.

Waterloo Battery

 Waterloo Wind Farm took part in the SA Government battery tender – Waterloo was not successful, Hornsdale was.



Item	Topic	Action By
	Waterloo is looking into the possibility of 50MW/50MWh battery – a joint venture with EnergyAustralia. Initial thinking is that the battery will be located on the laydown area. Out — Proposition to a layout be the possibility of 50MW/50MWh battery – a joint venture with EnergyAustralia.	
	GH – Do you think the Hornsdale battery will go ahead? SB – It will certainly go ahead, the timeframe is tight. They guarantee it will be up and running in 3 months once the contracts are signed.	
	GH - How long will it last?	
	SB – Approximately 2 hours but that is all that is needed to give it time to get the gas generators started.	
	Stony Gap	
	 Palisade Investment Partners have completed the purchase of the Stony Gap development project from EnergyAustralia. 	
	 Palisade are looking at contracting options for the energy and LGC's to progress the project to the next stage. 	
	Community Engagement – Hannah Wilson	
	 HW gave an update on the money that went to the Saddleworth Bowling Club for the purchase of a Defibrillator machine as well as training on how to use it. 	
	 PW shared with the group an update on the Gleeson Wetlands and mentioned that school groups are visiting the wetlands. He showed the quality of the signs that will be going up soon. 	
	GR – Where are the Gleeson Wetlands?	
	PW – Behind Knappsteins Winery.	
	 HW reported that Waterloo Wind Farm had supported various community events in the area in recent months. 	
	 "Battle of the Birds" – held on Saturday 30th July, 2017 the inaugural Waterloo Windfarm Cup. 	
	 The Waterloo Wind Farm has committed \$21,000 towards the Gilbert Valley clubs for courts repairs and resurfacing this year and has pledged ongoing commitment for netball development into the future. 	
	 Employee Mark Hendry Apex Outback Postie Bike Ride raised \$104,000 	
	travelling 1000km in 4 days. Rally of the Heartland – Waterloo Wind Farm hosted a community breakfast as part of the "Rally of the Heartland" and 180 people attended.	
	 Details of the Community Fund for 2018 will be announced at the next meeting with time line and application information. 	
5.	Recommendations arising from bushfire near Waterloo Wind Farm – Hannah Wilson	
	 HW shared the report by the CFS on recommendations arising from the bushfire near the Waterloo Wind Farm in January 2017. The report will be circulated with the minutes of the meeting. 	GH to circulate CFS report with minutes
	 The review specifically examined the application of aerial firefighting in and around an operating windfarm. Following an analysis of the fire, and particularly the use of aircraft operating near wind turbines, several observations were made to further improve the operating knowledge of windfarm operators and fire agencies on the application and utility of aerial firefighting in and around windfarms in bushfire operations. 	
	 While ground and aircraft firefighting resources operated successfully around and within the Waterloo Windfarm several lessons were learnt that can further improve the safe and effective operation of aircraft and wind turbines during bushfires. 	
	 Six observations were made that can be implemented to enable safe interaction between firefighting aircraft and wind turbines. 	



Item	Topic	Action By
6.	Generation and Dispatch in South Australia – Steve Brown	
	 Steve Brown presented to the group on power generation and dispatch in South Australia. Steve used a live energy website to illustrate his points. 	
	SW – With the political uncertainty and the energy price and the rules and regulations do you feel hopeful about windfarms?	
	SB – I feel hopeful of the Australian energy situation, AEMO are now managing the industry and the industry is working hard to ensure stability. I think prices will come down, and an interconnector between NSW and SA would further assist. In another 5 years we will be in a much better position.	
	DC – You mentioned a new interconnector?	
	SB – There is one planned coming from NSW into Robertstown.	
	GC – Does solar show up in the live feed?	
	SB – There is a whole swag of solar that we generate that doesn't appear on the live feed.	
-	Other Rusiness and Next Meeting - Georgina House	
7.	Other Business and Next Meeting – Georgina House	
	 HH was going to talk about her recent trip to Sweden and their wind farm management but she was happy to defer her talk until next meeting. 	HH talk deferred to next meeting
	 GH informed the CLG of research being led by Flinders University about wind farm noise and sleep study. Waterloo Wind Farm was contacted in regards to the research. 	
	 SB advised that the Waterloo Wind Farm had declined to participate in the Flinders University study given their previous participation in a targeted, 2 month study conducted by SA EPA. The results from the EPA study found that where detectable, sound emissions from the wind farm were well below EPA Wind Farm Noise Guidelines. Waterloo Wind Farm believe that sufficient independent evidence has been provided that sound emissions from Waterloo Wind Farm pose no health concerns." 	
	SW – Has another windfarm taken up the challenge?	
	SB – I don't know, I hope so.	
	Other suggested topics for our future meeting are:	
	Waterloo Wind Farm Wind Diary	
	 Noise and TV reception 	
	 Indigenous Culture. 	
	 The date of the next CLG Meeting was planned to be Thursday 2nd November 2017 but due to availability of several people IT HAS BEEN DECIDED TO CHANGE THE DATE OF THE NEXT CLG MEETING TO THURSDAY 16TH NOVEMBER 2017. Also the meeting will be held at the Waterloo Wind Farm. 	
	CLG Meeting	
	Thursday, 16th November 2017	
	4.15pm, for a 4.30pm START and running through to 6.30pm	
	Waterloo Wind Farm	
	GH thanked all for their attendance.	
	 Minutes of this meeting will be distributed to all for review. 	
	 One week will be provided for members to review draft minutes and provide any feedback to Georgina House. 	
	 Once finalised, the minutes will be placed on the Waterloo Wind Farm Website and circulated to other key stakeholders. 	
	Meeting Closed	

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Review of a 2017 South Australian Bushfire that impacted the Waterloo Windfarm and the application of Aerial Firefighting, CFS, June