

# Meeting Record

<b>Project Name</b>	<b>Waterloo Wind Farm</b>	<b>Meeting Date</b>	<b>2 February 2017</b>
<b>Meeting / Subject</b>	<b>Community Liaison Group</b>	<b>Recorded By</b>	<b>MO</b>
	<b>Meeting 24</b>	<b>Total Pages</b>	<b>9</b>

<b>Facilitator:</b>	Georgina House (GH)	GH Planning
<b>Members:</b>	David Clarke (DC)	Armagh
	Garry Fieldhouse (GF)	Gally's, Farrell Flat
	Sally Fieldhouse (SF)	Gally's, Farrell Flat
	Kelly-Anne Saffin (KAS)	CE, Regional Development Australia Yorke and Mid North
	Lis Jones Ingham (LJI)	Burra Resident
	Sue Wurst (SW)	Clare Resident
	John Browne (JB)	Marrabel Committee District Association and Marrabel Rodeo Club
	Margaret Wayman (MW)	Saddleworth Resident
	Peter Wayman (PW)	Saddleworth Resident
	Geoff Rowett (GR)	Marrabel Committee District Association and Marrabel Rodeo Club
<b>EnergyAustralia/ Palisade:</b>	Steve Brown (SB)	General Manager, Renewables, Palisade Asset Management
	Gyorgyi Danka (GD)	Asset Engineer, Renewables, Palisade Asset Management
	Sarah Neville (SN)	Community Engagement Lead, Social Enterprise, EnergyAustralia
	Mike Clee (MC)	SA Operations Manager, EnergyAustralia
	Hannah Willson (HW)	Business Support Specialist – Energy, EnergyAustralia
<b>Apologies:</b>	Hon Dan van Holst Pellekaan	Honourable Member for Stuart
	Hon Geoff Brock	Honourable Member for Frome
	Abby Walker-Schwartz (AWS)	Waterloo Resident
	Angela Ruddenklau (ARu)	Economic Development Officer, RDA Yorke and Mid North
	Brenda Sugars (BS)	Saddleworth Resident
	John Sugars (JS)	Saddleworth Resident
	Trevor White (TW)	Planning Consultant and PhD Student
	Colin Endean (CE)	ACF Climate Project, Transition Action Group
	Heidi Hodge (HH)	Black Springs Resident
	Pat Williams (PW)	Auburn Resident
	Lindsay Ward (LW)	CEO, Palisade Asset Management
	Glenn Christie (GC)	Seed Collector and Revegetation
	Denni Russel (DR)	Dept. OF Environment, Water, Natural Resources (DEWNR)
	Anne Brown (AB)	Greening Australia
	Amanda Redden (AR)	Economic Development Officer, RDA Yorke and Mid North
	Lindsay Ward (LW)	CEO, Palisade Asset Management
	Clint Purkiss (CP)	Development Manager, Palisade Asset Management
	Sarah Stent (SS)	Communications Adviser, Palisade Asset Management
<b>Minute Taker</b>	Marie Oatway (MO)	GH Planning


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Item	Topic	Action By
<b>1.</b>	<b>Welcome and Apologies – Georgina House</b>	
1.1.	<p><b>Welcome</b></p> <ul style="list-style-type: none"> <li>GH welcomed members and guests to the February 2017 CLG Meeting.</li> <li>GH gave a special welcome to Geoff Rowett a new member attending his first meeting, and Gyorgyi Danka from Palisade.</li> </ul>	
1.2.	<p><b>Apologies</b></p> <ul style="list-style-type: none"> <li>Apologies are noted above.</li> </ul>	
1.3.	<p><b>Agenda and Housekeeping</b></p> <ul style="list-style-type: none"> <li>GH outlined today's agenda, which includes: <ul style="list-style-type: none"> <li>Overview of the Mid North Wind Farm Projects.</li> <li>Waterloo Wind Farm Community Fund 2017.</li> <li>An update by Steve Brown on the South Australian state-wide power outage.</li> </ul> </li> <li>GH drew members attention to two recent media releases, namely: <ul style="list-style-type: none"> <li>31 October 2016, "New turbines at Waterloo Wind Farm start production", from EA and Palisade; and</li> <li>12 December 2016, "AEMO publishes preliminary recommendations following the South Australian state-wide power outage", from the Australian Energy Market Operator (AEMO).</li> </ul> </li> <li>GH asked members if they had any other business to raise.</li> </ul> <p>DC - Asked if the recent fire could be covered in other business?</p> <p>GH - Yes the bushfire is covered under the report on Waterloo Wind Farm.</p> <p>GR - I would like a comment about noise levels and TV reception interference to gain an understanding of these areas.</p> <p>JB - Complimented SB on his presentation regarding the South Australian blackout and said that it was very informative and that he has been trying to spread the word and wished more people had heard it.</p> <p>DC - Neoen Australia who operate the Hornsdale Wind Farm near Jamestown are showing interest in another windfarm at Crystal Brook, 50 wind turbines with battery and solar.</p>	GH to plan a future topic covering noise levels and TV interference
<b>2.</b>	<b>Welcome and Apologies – Georgina House</b>	
	<p><b>Review of Previous Minutes</b></p> <ul style="list-style-type: none"> <li>There were two actions from the previous meeting, they were: <ul style="list-style-type: none"> <li>Page 3, Georgina to circulate the EA Reconciliation Action Plan (RAP) to members. One member did not receive this document, GH to arrange for a copy to be posted.</li> <li>Page 3, GH ask if any members would like to hear more about the RAP, if so this topic can be considered for a future meeting.</li> </ul> </li> </ul> <p>SW - Has the need for the RAP come up at any site?</p> <p>SN - We didn't need to prepare the RAP for any particular site but EA elected to prepare the document as a foundation for best practice given our commitment towards recognising diversity and inclusion across our business.</p> <p>JB - Are you aware of the indigenous culture associated with the Waterloo area?</p> <p>SN - We are in contact with the traditional land owners. Our contact, Vincent Branson, is the representative for the Ngadjuri Walpa Juri Lands and Heritage Association Inc. Vincent receives all CLG Agendas and Minutes and we are talking with him at present to see if we can arrange a local visit to the Waterloo area and his attendance at one of our CLG meetings.</p> <p>JB - I have heard of one family outside of Marrabel.</p>	


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	<p>LJI - I have a real interest in this and have contact with a family outside of Terowie.</p> <p>GH - I suggest we pencil in a future CLG agenda item around local Indigenous culture where we can welcome Vincent and gain an overview of the RAP and local indigenous culture.</p> <ul style="list-style-type: none"> <li>Minutes of the 25 October 2016 CLG Meeting were accepted as a true representation of the meeting.</li> </ul>	<p>SN to contact Vincent Branson and invite him to attend a future CLG Meeting.</p>
<b>3.</b>	<b>Overview of Mid North Wind Farm Projects –Mike Clee</b>	
<b>3.1</b>	<p><b>Waterloo Wind Farm Update – Mike Clee</b></p> <ul style="list-style-type: none"> <li>17th December WTG 'E FF' Generator failed. Vestas replaced the generator through the Christmas period. The WTG returned to service 7th January.</li> <li>27th January we experienced two termination failures connecting to the main transformer incomer circuit breaker. The wind farm was re-energised on the 30th with a maximum output of 99MW's. Acting in a proactive manner we have set a strategy to replace all terminations commencing 27th February 2017.</li> <li>All 'A' and 'D' circuit cable joints are scheduled for replacement with the new Trifurcated joints during the above Outage.</li> <li>Both of the above proactive works will be carried out over a 14 day period commencing 27th February. This will coincide with low wind periods and the least impact to the local farming community.</li> <li>All works during this last period have been performed with no Safety / Environment issues.</li> </ul> <p>GH – Mike, can you clarify when we talk about Waterloo Wind Farm from now on that we are including the Waterloo 2 extension as well?</p> <p>MC – Yes as far as we are concerned it is all Waterloo Wind Farm now not Waterloo 2.</p> <p>SW – What are the life of a tower and how far are we into their life at Waterloo?</p> <p>SB – The design life is 25 years. If the operating regime is lower then the life of the turbine is longer. The current plan is for 30 years as we move through it maybe out to 35 years but by then there might be different types of technology and more efficient turbines available. We are currently 6 ½ years in.</p> <p>MC – You can't just change a turbine over as you still need to get your return on the investment.</p> <p>GR – I am interested in your low wind comment, so is February classified as a low wind month?</p> <p>MC – Traditionally yes.</p> <p>GR – When you add the last 6 turbines on (Waterloo 2) were the cables changed?</p> <p>MC – The site originally was built to accommodate the extra turbines. From the end of Waterloo 1 we bought in new cabling and we also replaced some old cabling.</p> <p>GR – Why, because it wasn't up to specification?</p> <p>SB –Some of the old cabling was not designed to cope with the increased capacity of the six new turbines. This is an example of a change in technology over the past 6 years. We have had some poor cable joint design issues as well.</p> <p>LJI - How long have records been collected for wind speed – is it only since we have had windfarms?</p> <p>SB - The Bureau of Meteorology collects wind information, however we collect other useful data. We can show you our wind charts and traditionally it follows a pattern. We can show you the Waterloo wind charts for the past 6 years at a future meeting.</p> <p>MC - July/August is normally our windiest period but recently it has been later.</p> <p>GH - Has the farming industry been seeing the same effects?</p> <p>JB - Yes this year.</p>	<p>GH to plan a future topic on Waterloo Wind Diary.</p>

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Item	Topic	Action By
	<p>GR - The last 4 years have been different – I think it is cyclic, people blame aerosols etc. but I think it is cyclic.</p> <p><b>Grass Fire Event – 17 January 2017</b></p> <ul style="list-style-type: none"> <li>● MC informed the CLG that there had been a grass fire in the vicinity of Waterloo Wind Farm on 17 January 2017, the event unfolded as follows:               <ul style="list-style-type: none"> <li>○ 13:55 CFS Alert – Grass Fire – Waterloo South Australia</li> <li>○ 14:01 CFS Gilbert Group Officer (Andrew Allchurch) advised of fire on the Wind Farm. Water bombers are being deployed and requested 14 turbines be shut down and where safe to open all access gates.</li> <li>○ 14:02 Site personnel instructed to return to the office facility. Personnel were aware of the fire and were on their way down, opening all access gates along the way.</li> <li>○ 14:05 EnergyAustralia stopped the required turbines.</li> <li>○ 14:17 EnergyAustralia stopped another 4 turbines to ensure adequate air space available.</li> <li>○ 15:15 At the height of the fire there were:                   <ul style="list-style-type: none"> <li>○ 32 CFS Trucks</li> <li>○ 240 People</li> <li>○ 25 Farmer Fire Units</li> <li>○ 4 Fixed Wing Aircraft – Water Bombers</li> <li>○ 1 Surveillance Helicopter</li> <li>○ Wind Turbine Hard Stands were used for Incident Control Base</li> <li>○ Wind Farm road infrastructure played a vital role for controlling the fire</li> </ul> </li> <li>○ 18:00 CFS advised – All clear to restart Wind Turbines – 15 Wind Turbines re-started</li> <li>○ 11:00 on 18th January - The 3 remaining Wind Turbines were re-started.</li> </ul> </li> <li>● Safety for ALL was paramount and at the front of all actions taken.</li> </ul>	
		
	<ul style="list-style-type: none"> <li>● Water Bombers were able to safely manoeuvre through the Wind Farm to perform their duties.</li> <li>● There was tremendous collaboration and communication between all parties – great to see the local community working so well together.</li> </ul>	

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	 <p>MC – Hannah was at Waterloo Wind Farm at the time of the grass fire and I want to congratulate her, all the staff, and the CFS for a job well done and great communication.</p> <p>GH – How long does it take to shut down a turbine?</p> <p>HW – We logged on in Pt Lincoln and had them all shut down in 5 minutes – once they get that signal it is immediate. Each turbine was locked down into “bunny ears” mode.</p> <p>HW – Because it is the first grass fire near a wind farm where water bombers were deployed, the aviation arm of CFS have asked us to work with them to help them prepare an Aviation Procedure. Once developed this procedure may be rolled out state wide and nationally.</p> <p>DC – It is very interesting that there is an anti-group that claimed that water bombers can’t go near wind farms.</p> <p>JB – Was there any damage to the wind farm infrastructure?</p> <p>MC - No – 2 tripped off (stopped operating) when they detected smoke – but that is normal.</p> <p>SB – They trip off because they detect the smoke.</p> <p>JB – What was the damage to fencing and paddocks?</p> <p>HW – 60 hectares were burnt – the Aussie broadband and new Emergency Services tower is near there but still able to communicate throughout the event.</p> <p>DC – Which part of the wind farm was involved?</p> <p>HW – The north end of B Circuit, Quin Gap, Tothill Belt – 3 turbines in from the northern end.</p> <p>GH – Maybe we could get an update on the CFS Aviation Procedure once it is available.</p> <p>GH – Was there anything that should have been done differently or better?</p> <p>MC – On the face of it no – everything was handled really well.</p>	<p>GH and HW to monitor progress of CFS Aviation Procedure and report on at a future meeting.</p>

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3.2	<p><b>Stony Gap Update – Mike Clee</b></p> <ul style="list-style-type: none"> <li>Stony Gap still represents the most cost effective, large scale renewable energy development option currently available to EnergyAustralia (and arguably in the NEM based on indicative cost modelling).</li> <li>The development of Stony Gap remains a key focus for EnergyAustralia, and we are currently working with partners to achieve financial close on the project by mid-2017.</li> </ul> <p>LJI – How many years do EA have to build to the planning approval?</p> <p>GH – The normal expectation is to substantially commence within 3 years.</p> <p>MC – The good thing is that it is not on the back burner.</p> <p>GR – Waterloo Wind Farm feeds into the Robertstown line, will Stony Gap as well?</p> <p>MC – Yes it will.</p> <p>JB – Today the turbines are barely moving - are they generating power like that?</p> <p>GD – 3.5m per second is the cut in speed (wind speed where the turbines start generating) for Stage 1 turbines. 3m per second is the cut in speed for Stage 2 turbines, but generally if they are moving very slowly like that they are not generating power.</p> <p>GR – How is the development of battery technology going?</p> <p>SB – Palisade has started looking into it, it is not commercially viable yet, but if we wait until it is commercially viable we are not going to catch the benefit of being the first. We have a spare circuit breaker at Waterloo and we are starting to think about that for battery storage, it is early days. If we don't get onto it in the next 1-2 years we are going to be behind, the technology is already there.</p>	
4.	<p><b>Waterloo Wind Farm Community Fund 2017 – Mike Clee</b></p>	
	<ul style="list-style-type: none"> <li>In 2017 the Waterloo Wind Farm Community Fund will provide \$30,000 towards local initiatives that benefit the local community.</li> <li>Projects will continue focus on the following key themes: <ul style="list-style-type: none"> <li>Community pride: Youth support, health, education and social engagement.</li> <li>Benefiting the environment: conservation and rehabilitation.</li> <li>Supporting the local economy: Training, employment and local economic growth.</li> </ul> </li> <li><b>Applications will open on Monday 6 March and close on Friday 31 March 2017.</b></li> <li>We wish to form a CLG sub-committee to review the applications and provide recommendations prior to our next CLG meeting in May 2017.</li> </ul> <p>GH - Last year we had a sub-committee of 4 people. Who would like to nominate to be on the sub-committee this year?</p> <ul style="list-style-type: none"> <li>The following people indicated they would like to form the sub-committee: <ul style="list-style-type: none"> <li>Sue Wurst</li> <li>Abby Walker-Schwartz</li> <li>John Browne</li> <li>Sally Fieldhouse</li> </ul> </li> <li>Heidi Hodge is willing to be “first reserve” for the sub-committee if required.</li> </ul> <p>MC – The main thing is that we have a mixture of applications from across the local community. We want to put the funds where it will be best used.</p> <p>KAS – Are you happy that we advise the timeline dates to the community via local community networks and via Facebook?</p> <p>HW – Yes, if people want to know more give them my number and I am happy to talk to them.</p> <p>SN – An ad will go in the two local newspapers – The Northern Argus and Plains Producer.</p> <p>GH – I will circulate a flyer to all CLG members once it is available.</p>	<p>HW and GH to organise sub-committee meeting (likely early May 2017)</p> <p>GH to circulate flyer promoting the community fund to CLG members.</p>



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5.	<b>Other Business – Georgina House</b>	
5.1	<p><b>SA System Black Presentation by Steve Brown</b></p> <ul style="list-style-type: none"> <li>• AEMO released a preliminary report in December 2016 and a final report is expected to be published in March 2017 with more detailed information from the investigations into the SA state-wide power outage including recommendations and generator performance standards. The recommendations are expected to be wide-spread and much greater than just application to South Australia.</li> <li>• In reading the December 2016 report many people in the industry are concerned that AEMO have allowed market pressures to reduce the requirements on generators across the network.</li> <li>• Some of the recommendations being considered are technical and would have an impact on the operation of wind farms such as Waterloo (for example: lowering of our trip setting).</li> <li>• SB is meeting with AEMO/ElectraNet next week to discuss the preliminary recommendations further.</li> <li>• SB will provide an update presentation at the next CLG Meeting.</li> </ul>	SB to present an update at next CLG Meeting.
5.2	<p><b>Passing of Professor Michael Bull</b></p> <ul style="list-style-type: none"> <li>• GH regretfully advised members of the sad news of the passing of Professor Michael Bull.</li> <li>• Professor Bull spoke to the CLG several years ago about his amazing research and conservation work undertaken in relation to the Pygmy Blue Tongue Lizard.</li> <li>• Professor Bull's work in biodiversity and ecology is internationally lauded, and he was particularly well known for his contribution to understanding the behaviour and conservation of lizards. Professor Bull of Flinders University greatly assisted our understanding of the Pygmy Blue Tongue Lizard which was thought to be extinct until one was found by accident in the belly of a brown snake killed on a road near Burra in 1992.</li> <li>• The Professor will be sadly missed and the CLG extends its best wishes to his family and colleagues. We will continue to monitor and learn from the research being undertaken in relation to the Pygmy Blue Tongue Lizard.</li> </ul>  	GH to monitor the progress of research into the Pygmy Blue Tongue Lizard.

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5.3	<p><b>National Wind Farm Commissioner Presentation</b></p> <ul style="list-style-type: none"> <li>GH advised members that the National Wind Farm Commissioner presented to the COAG Energy Council on 14 December 2016. The presentation covered: <ul style="list-style-type: none"> <li>The role of the Commissioner</li> <li>Achievements to date</li> <li>Complaint statistics</li> <li>State Government considerations for improvement</li> </ul> </li> <li>The Commissioner's presentation can be viewed at <a href="http://www.nwfc.gov.au">www.nwfc.gov.au</a></li> <li>GH suggested that the CLG may wish to discuss the Commissioner's presentation (and future presentations) at a future meeting.</li> <li>GH reminded CLG members that the Commissioner has been appointed for a 3 year term (commencing November 2015) to: <ul style="list-style-type: none"> <li>Facilitate the handling of complaints from concerned community residents about planned and operating wind farms;</li> <li>Identify and promote best practices for industry and government to adopt with regard to the planning and operation of wind farms; and</li> <li>Improve information access and transparency about proposed and operating wind farms.</li> </ul> </li> </ul>	GH to place on future meeting agenda.
5.4	<p><b>Community Energy Congress – Melbourne 2017</b></p> <ul style="list-style-type: none"> <li>GH provided a reminder that a Community Energy Conference is being held in Melbourne on 27-28 February 2017.</li> <li>GH thought Colin Endean was planning on attending this event. If so perhaps he might report back on key themes covered at the Conference.</li> </ul>	
5.5	<p><b>Yorke and Mid North Regional Forum</b></p> <ul style="list-style-type: none"> <li>GH mentioned that the Annual Yorke and Mid North Regional Forum will be held at Clare on Friday 31 March 2017, 9.00am-2.30pm.</li> <li>KAS advised the group that the forum theme this year is: 'Our Mega Future' and will focus on the 'mega' drivers for the region. it is a free event and everyone is welcome. Check out the website and register if you are interested.</li> <li>Steve Brown will be one of the speakers at the event. <a href="https://www.trybooking.com/Embed.aspx?eid+243819">https://www.trybooking.com/Embed.aspx?eid+243819</a></li> </ul>	
5.6	<p><b>Topics for Future CLG Meetings</b></p> <ul style="list-style-type: none"> <li>GH invited CLG members to suggest topics of interest for future meetings. A wide range of interesting topics were suggested and GH will work with Palisade and EA to follow up and plan topics for upcoming meetings to be held in 2017.</li> </ul> <p><b>Topics suggested by CLG Members for Future Meetings</b></p> <ol style="list-style-type: none"> <li><b>SA system black power failure</b> - Update by Steve Brown, Palisade on the SA system black power failure that occurred on 28 Sept 2016 following the AEMO's (Australian Energy Market Operator) fourth and final report expected to be published in March 2017.</li> <li><b>Noise and TV reception</b> – Report on noise and TV reception conditions that apply to Waterloo Wind Farm, this report will be provided in the context of Waterloo 2 conditions and will include explanation of the pre and post reviews associated with Waterloo 2.</li> <li><b>CFS Aviation Procedure</b> – Report on the Aviation Procedure being developed by CFS in collaboration with EA following the good coordination that occurred during the Feb 2017 bushfire event. This procedure is likely to be applied state-wide and potentially nationally once developed.</li> </ol>	GH to plan and incorporate suggested topics into future CLG Meetings.



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	<p>4. <b>Indigenous Culture</b> – Introduction to Vincent Branson who is the Representative for the Ngadjuri Walpa Juri Lands and Heritage Association Inc., and presentation of some aspects of the EA Reconciliation Action Plan.</p> <p>5. <b>National Wind Farm Commissioner Report</b> – Summary of the achievements of the National Wind Farm Commissioner, such as his Dec 2016 presentation to COAG Energy Council. Potentially invite the Commissioner to a CLG Meeting.</p> <p>6. <b>Load Profile Case Studies</b> – Steve Brown will present case studies on the interface between wind farms, interstate interconnectors, gas plants, base loads – what and how they interact.</p> <p>7. <b>Waterloo Wind Farm Wind Diary</b> – Report on wind information and wind generation over the past 6 years (over the life of Waterloo Wind Farm), and consideration of any patterns or trends.</p> <p>8. <b>Community Ownership and Involvement in Renewable Energy Projects</b> – Update by Trevor White on his PhD looking at community ownership options.</p> <p>9. <b>Waterloo Wind Farm Community Fund Overview</b> – Overview of where the money has gone and how it has been used (what, who, when, where).</p> <p>10. <b>Palisade Company Overview</b> – Overview on Palisade, who are they, what do they do, and an overview of energy projects they are involved in.</p>	
<b>6.</b>	<b>Next Meeting and Close – Georgina House</b>	
	<ul style="list-style-type: none"> <li>● CLG Meetings for the rest of 2017 are scheduled as follows: <ul style="list-style-type: none"> <li>○ <b>Tuesday, 9 May 2017 – 4.30pm to 6.30pm at Gally’s.</b></li> <li>○ <b>Tuesday 22 August 2017 - 4.30pm to 6.30pm at Gally’s</b></li> <li>○ <b>Thursday 2 November 2017 - 4.30pm to 6.30pm at Gally’s</b></li> </ul> </li> <li>● GH thanked all for their attendance.</li> <li>● Minutes of this meeting will be distributed to all for review.</li> <li>● One week will be provided for members to review draft minutes and provide any feedback to Georgina House.</li> <li>● Once finalised, the minutes will be placed on the Waterloo Wind Farm Website and circulated to other key stakeholders.</li> </ul> <p style="text-align: center;"><b>Meeting Closed</b></p>	

### Georgina House Contact Details:

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### Attachments:

- List of Suggested CLG Meeting Topics for 2017.
- Pygmy Blue Tongue Lizard Brochure.
- Draft Agenda for CLG Meeting on 9 May 2017.