

Project Name		Waterloo Wind Farn	า	Meeting Date	10 March 2016
Meeting / Subje	ct	Community Liaison	Group	Recorded By	МО
		Meeting 21		Total Pages	10
			1		
Facilitator:	Geo	orgina House (GH)	GH Planning		
Members:	Abb	y Walker-Schwartz (AWS)	Waterloo Resident		
	Am	anda Redden (AR)	Economic Development C and Mid North	Officer, Regional Developr	nent Australia Yorke
	Ang	jela Ruddenklau (ARu)	Economic Development C and Mid North	Officer, Regional Developr	nent Australia Yorke
	Bre	nda Sugars (BS)	Saddleworth Resident		
	Col	in Endean (CE)	ACF Climate Project, Tra	nsition Action Group	
	Dav	rid Busch (DB)	Waterloo Landowner		
	Dav	rid Clarke (DC)	Crystal Brook Resident		
	Gar	ry Fieldhouse (GF)	Gally's		
	Hei	di Hodge (HH)	Black Springs Resident		
	Joh	n Sugars(JS)	Saddleworth Resident		
	Mai	garet Wayman (MW)	Saddleworth Resident		
	Pet	er Wayman (PW)	Saddleworth Resident		
	Sal	y Fieldhouse (SF)	Gally's		
	Sue	Wurst (SW)	Clare Resident		
	Tre	vor White (TW)	Planning Consultant and	PhD Student	
EnergyAustralia/ Palisade	Mik	e Clee (MC)	SA Operations Manager,	EA	
	Clir	t Purkiss (CP)	Project Development Mar	nager, Palisade	
	Sar	ah Stent (SS)	Communications Adviser	, Palisade	
	Ste	ven Symons (SS)	Waterloo Wind Farm Ger	neral Manager	
Apologies	Hor	n Dan van Holst Pellekaan	Honourable Member for S	Stuart	
	Hor	Geoff Brock	Honourable Member for F	Frome	
	Anc	Irew Allchurch (AA)	Gilbert Group CFS and W	/aterloo Landowner	
	Anr	ne Brown (AB)	Greening Australia		
	Chr	is Mosey (CM)	Waterloo Landowner		
	Cin	dy Nolan (CN)	Clare Resident		
	Dav	rid Donnelly (DD)	Community Engagement	Lead, EA	
	Der	nni Russel (DR)	Dept. OF Environment, W	/ater, Natural Resources (DEWNR)
	Gle	nn Christie (GC)	Seed Collector and Reve	getation	
	Ker	ry Ward (KW)	Member NRM Group		
	Kel	y-Anne Saffin (KAS)	Regional Development A	ustralia Yorke and Mid No	rth
	Lis	Jones Inman (LJI)	Burra Resident		
	Pet	er Edson (PE)	Burra Resident		



	Pip Edson (PEd)	Burra Resident
Minute Taker	Marie Oatway (MO)	GH Planning

ltem	Торіс	Action By
1.	Welcome and Apologies – Georgina House	
1.1.	 Welcome GH welcomed members and guests to the March 2016 CLG Meeting. GH gave a special welcome to new guest to the CLG - Angela Ruddenklau. 	
1.2.	Apologies • Apologies received from: • Hon Geoff Brock • Kelly-Anne Saffin • Hon Dan van Holst Pellekaan • Peter Edson • Lis Jones Inman • Pip Edson • Denni Russel • Andrew Allchurch • Glenn Christie • David Donnelly • Kerry Ward • Anne Brown • Chris Mosey • Cindy Nolan • GH also thanked Ian Falkenberg and Jenny Turner for their involvement in the CLG in recent years and indicated that they would no longer be members due to other commitments. • Suggestion was made that GH approach the Burra Visitor Information Centre to see if a new person would be interested in joining the CLG as Paula Jones has moved to the Clare Visitor Information Centre. • Apologies were noted.	GH to contact Burra Visitor Information Centre and invite to join the CLG
1.3.	 Agenda and Housekeeping GH outlined today's agenda, which includes: Project updates from Mike Clee and Clint Purkiss A presentation by Trevor White on his PhD regarding community ownership and involvement in renewable energy Waterloo Wind Farm Community Fund update Schedule of CLG meetings for 2016 Other Business 	
2.	Review Minutes of Previous Meeting – Georgina House	
2.1.	 There were several actions arising from the previous minutes (17 December 2015). Waterloo Wind Farm Extension Project Update to be provided to members - actioned. GH to create a Calendar for CLG Meetings for 2016 avoiding school holidays and public holidays - actioned. Four meetings are proposed with meetings two and three being scheduled on a Tuesday and meetings one and four scheduled on a Thursday to accommodate the major preferences of members. GH to speak with John Faint and invite him to attend the March CLG meeting - actioned. John had instead chosen to talk directly with EA and Palisade regarding Waterloo & Districts Concerned Citizen issues. Minutes of the 17 December 2015 CLG Meeting were accepted as a true representation of the meeting. 	



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5.	Overview of M	lid North Win	nd Farm Projec	ts – Clint Purkiss	s/Mike Clee		
.1	Waterloo Wind	d Farm Upda	te – Mike Clee				
	MC provided	d an update o	n Waterloo Win	d Farm.			
	 MC presented 	ed Waterloo V	Vind Farm wind	generation Year t	to Date (refer ta	able below).	
	2015 / 2016	WTG* Actual (GWh)	WTG Target (GWh)	WTG Actual Wind Speed (m/s)	WTG Wind Speed Target (m/s)	Capacity Factor Actual (Average %)	Capacity Factor Forecast (Average %
	July	33.4	32.3	9.4	9.8	41.1	39.7
	August	27.9	31.9	8.2	9.7	34.3	39.2
	September	25.7	25.7	8.0	9.7	32.5	39.4
	October	25.6	25.6	8.2	9.0	31.3	33.9
	November	19.9	26.1	7.4	8.8	24.9	32.6
	December	25.1	25.9	8.3	8.6	30.4	31.4
	January	24.0	22.4	7.8	7.8	29.0	27.1
	February	18.9	20.8	7.4	8.1	24.5	27.9
	March						
	April						
	May						
	June						
	tracking at -	8.17% agains acking at -8%	t plan. below due to lo	198.8 GWhr again wer winds but this	C C		
	elsewhere and is not specific to Waterloo Wind Farm.All wind turbine service lifts have been inspected, following the re-installation of the						
				spected, following cation. All service			
	-	-		s, all Blockstops w sheets will be reco			
	the 'B' Circu scheduled o	it cable joints	, the remaining Due to one day	to 14th Feb. Due three joints were o being declared a	changed out. Th	nis work was	
			-	issues to report.			
	CE – There hav service?	ve been a lot	of cable joints r	eplaced how many	y old ones are s	still in	

 $\rm MC-A$ dozen or so joints haven't been replaced, we do have a proactive plan to address this matter, and we have the equipment if there is a failure.



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3.2	Stony Gap Update – Mike Clee	
	 MC provided an update on the Stony Gap Wind Farm Project. 	
	 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). 	
	• With an agreed RET target, and more political certainty in achieving carbon emissions reduction, the development of Stony Gap remains a key focus for EnergyAustralia throughout 2016.	
	• EA has agreed terms on a key land option extension, and refreshed the Connection Options Analysis, and are in the process of getting updated EPC quotes (Engineer Procure Construct).	
	 Development pathway to be finalised in Q1 2016. 	
	AWS – How long have you got on Stony Gap until you need to apply again? MC/CP- 5 years from the time of the approval (which was December 2014).	
3.3	Waterloo Extension Update (Waterloo Wind Farm Stage 2) – Clint Purkiss	
	Project Specifics	
	CP provided an update on the Waterloo Extension Project.	
	 The Waterloo Extension includes 6 new turbines to be located immediately south of existing Waterloo Wind Farm. 	
	• Extends wind farm approx. 2.5 km towards Marrabel.	
	 Involves private land – two landholders and a further 12 homes within 2km. 	
	 Vestas V117 turbine selected – latest model produces energy more efficiently. 	
	Cabling along full array.	
	 Temporary metmast – currently Cat 2 Development Application. 	
	 \$43m investment – approx. \$2.3m secured for local businesses. 	
	• Specialist project team is managing construction. Vestas are managing construction. They have mobilised to site and started pegging.	
	EnergyAustralia continues to operate existing site.	
	 Construction started 1st week March and will take approx. 9 months from site establishment to full demobilisation. 	
	• The blades are coming from Germany, towers from Portland, controls from Denmark and scheduled to arrive in Australia by June.	
	SF – What do you mean by \$2.3m secured for local business? CP – OTM contract – local civil component of works.	
	AWS – There is some concern in the community that the guyed wires of the metmast will be as noisy as they were last time. CP –The ,met mast has no recognised noise sources, this temporary met mast is a different design this time and about 20 metres smaller.	
	CE – How temporary is the metmast? CP – The metmast is needed to take meteorological measurements (datapoints) associated with a variety of winds. It can depend on how many months it will take to observe the various wind types. It needs to stay in place until data can be verified (3 months to 9 months potentially).	
	HH – The trimming/loss of the roadside vegetation, has that been surveyed? CP – Yes, and there is a need to remove 3 trees in total. This has been covered in the approved application under the SEB application to the Native vegetation Council in accordance with approval from CGVC	



Item	Торіс	Action By
	DB – When were the turbine parts ordered? CP – There is a 26 week lead time for ordering and a 12 week delivery timeframe. The deposit was paid in October 2015, very competitive at the moment and if we didn't pay when we did we would have lost our manufacturing spot.	
	AWS – How many of landowners within 2km are not financially gaining from the turbines? CP – Most of the parties on the eastern side are involved in some way. A number of houses have changed hands recently and some are uninhabitable.	
	AWS – How many houses are there within 5km of the new turbines? How have they been consulted?	
	CP - I will take the question on the number of houses on notice. Landowners in the local area have been provided information in the form of project updates and follow-up meetings have been offered to those interested, there are a number of meetings planned with various parties.	
	HH – What is the zone for the surrounding land? CP – It is a primary production zone, well outside the rural residential zone.	
	March Scheduled Works	
	• Temporary construction facilities, including one site entry on Steelton Road East.	
	• Earthworks to establish private access track and turbine hardstands along the ridgeline to prepare for delivery and installation of turbines June/July.	
	• Some minor adjustments to Steelton Road East will be completed to enlarge a turning corner for larger vehicles.	
	• Trimming of road side vegetation – in line with Council requirements – will also be done at this time.	
	• Works will occur between the operating hours of 7am and 6pm Monday to Friday. Work outside normal hours will require separate approvals.	
	• Works are to be carried out by Vestas, our main contractor, and OTM Civil Engineering.	
	Management of Potential Community Issues	
	Proximity to residents	
	 Planning framework sets a 1km setback to address visual amenity for non-involved parties - expansion complies comprehensively. 	
	• 2 houses just over 1km from the wind farm. Both landholders receive payment for turbines on their property.	
	• Further, 10 residential properties located within two kilometres of new turbines, some of which are also involved (5 of).	
	• From a spatial perspective, noise is a key compliance requirement - heavily regulated and managed by EPA under strict guidelines that have been developed by the leading international and domestic authorities in noise, health and environmental protection.	
	No oversail due to turbine setback.	
	 Shadow flicker potential to impact 1 house (stakeholder) – impact will be mitigated by vegetation and based on the worst case scenario modelling exercise i.e. zero cloud, rotor and window always aligned, the whole façade of the house is a window and always windy etc 	
	Noise	
	New turbines must comply with SA EPA's Environmental Noise Guidelines.	
	• Regulations limit noise to very low levels - designed to ensure operations don't unduly add to rural soundscape.	



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	 By law, Waterloo may only emit very low levels of sound (40dB or 5dB above ambient background noise). 	
	• While still audible, sufficiently low that sound output is often indistinguishable from other noises in the environment, like the wind or rain.	
	• Noise at all locations will comply with the noise limits within the Primary Production Zone and be assessed by the EPA and an Independent Acoustic Consultant not previously used for the development stage to confirm noise levels remain within regulations.	
	• V117 turbines omit a lower level of noise than the existing V90 turbines.	
	AWS – Do you do pre-sound monitoring? CP – Yes we have done that already twice, that is part of understanding the baseline ambient environment.	
	AWS – Do you do sound monitoring once you put the turbines up? CP – Absolutely, and there is post construction compliance requirements that need to be approved by the SA EPA.	
	Turbine height & selection	
	• New turbines taller than existing (80m v 87m) and larger blade length (45m v 57.5m).	
	• Same ridgeline new turbines are to be sited on is lower, will appear at the same height as existing.	
	• Variation application to remove stipulated turbine make & model approved in August 2013.	
	• This removed stipulation of Vestas V90 to enable use of quieter, more efficient turbine.	
	CGVC & EPA will review to ensure compliance.	
	Flora and fauna	
	 Species potentially include Pygmy Blue Tongue Lizard and the Flinders Worm Lizard. Targeted field surveys failed to detect either species on the site. Plans in place to avoid impact during construction. 	
	• All nest sites for Wedge Tailed Eagles checked prior to construction. After construction, wedge tail eagle monitoring will continue as it currently does on site.	
	 Areas of protected Peppermint Box mapped and excluded from actual construction work zones. 	
	• Fencing to prevent construction vehicles from disturbing species and understory.	
	HH/DB – Have ecological surveys been undertaken? If you find a Pygmy Blue Tongue Lizard or Flinders Worm Lizard on the site what happens? CP – Surveys have been undertaken about 3 times over the past 6 years. If fauna was identified in an area of the site the Stop Work Procedure would be implemented, where work would stop and the ecologist would be contacted immediately. If it was found to be either of the above species, further work would be required, to ensure the proposed construction zone did not contain any more individuals, it would potentially be relocated to a suitable environmental site away from the construction area, but this would be determined by the experts i.e. Mark Hutchinson and Mike Bull. This would be a managed process involving ecological advice.	
	Transport	
	Construction will see increase in vehicle movements on local roads.	
	• Site access predominantly via Rickets Rd/Steelton Rd for sites travelling along the Barrier Highway and MR 45 to Steelton Rd for vehicles utilising the quarry for materials.	
	Safety a priority.	



ltem	Торіс	Action By
	 Drivers instructed to move safely and be mindful of local vehicles on roads. 	
	 Local school bus routes mapped, times avoided. 	
	Dust will be managed.	
	• Large vehicle movements: March-May with quarry materials/concrete, then June/July with delivery of turbines.	
	 Some roadside vegetation to be trimmed in line with Council procedures. 	
	 Signage to be erected – includes tel. no. 	
	HH – You mentioned that dust will be managed?	
	CP – Yes a water cart is proposed on key occasions such as concrete pour days. We are planning to inform the local community of the peak days when heavy vehicles will be frequenting the area using the local newspaper and we are considering offering an SMS system that can inform residents of what is happening at the site and when, advising red flag days (heavy vehicle use).	
	SF – How many properties have their driveway on Steelton Rd? CP – There are no properties that have their driveway on that road, and the route avoids the Waterloo township which has been a purposeful evolution from stage 1 where this caused much angst.	
	Enquires and Complaints	
	 There are multiple channels for community enquiries and complaints. 	
	• There is a new Enquiries & Complaints Procedure and a focus on timeliness, investigation and response, and there are now channels to pass on to 3rd party or regulator.	
	• SS commented that there have been around 10 complaints to date received by wind farm and these are being managed through site visits. The complaints general relate to noise or the proposed transport route for heavy vehicles associated with Waterloo Stage 2.	
	 The contact number for Waterloo wind farm is 0408 547 869. 	
	Communication and Community Engagement	
	 New website up and running www.waterloowindfarm.com.au 	
	 New email contact hello@waterloowindfarm.com.au 	
	 Meetings with approx. 40 key stakeholders and community groups provided valuable feedback. Conversations ongoing. 	
	 Board attended last CLG meeting to increase understanding of community needs. 	
	 CGVC Council presentation and update, Meeting with Wind Farm Commissioner in March. 	
	 Site tour and briefing for landholders and Vestas. 	
	 Meetings with CFS to plan bushfire response. 	
	 Meetings with residents that have expressed concerns / wanted more information – ongoing. 	
	 Project Update delivered via Aust Post to all houses within 10km radius – further drops planned. 	GH to circulate a
	 Local advertisement in Northern Argus, Flinders News. 	copy of the local
	 Media coverage of OTM Civil and Keppel Prince appointment. 	advertisement in the Northern
	Responding to media enquiries.	Argus and
	 Support for Marrabel Bull Ride to introduce key project personnel / show intent to help region. 	Flinders News to the CLG



Item	Торіс	Action By
	SS – Have members seen the update in the Northern Argus and Flinders News? Did you find it useful?	
	There was a mixed response to members seeing the update in the local papers. Other potential local papers to consider are the Plains Producer and Burra Broadcaster.	
	SS - What specific key messages do members suggest we focus on in future updates? (e.g. noise compliance, bushfire management, economic benefits?) SW – Perhaps worth reiterating the fact that everything complies with EPA and is retested to make sure that it complies when putting out updates.	
	SS - We are also in discussions with the Waterloo & District Concerned Citizens Group. Their key issues include night time disturbance, community division, and lack of consultation. Letters and phone calls have been made to address the issues, and we will provide further information to members. We have conducted meetings with local groups to inform their members of the Waterloo Extension. Community groups met with include Waterloo, Saddleworth, Manoora and Marrabel.	
	DB – Who has been trained to operate the CFS truck? CP – There have been a lot of people trained.	
	DB – What are the main landowner and community concerns? CP – Noise, transport, impact of heavy vehicles on roads.	
	SW – Are you feeling very positive about this project? CP – Absolutely, still a need for more discussions with property owners and community about the turbines, roads and key issues, but yes very positive.	
4.	Waterloo Wind Farm Community Fund 2016	
	 In relation to the Waterloo Wind Farm Community Fund, the proposal for 2016 is: Applications open 11th April 2016 Applications close 23rd May 2016 CLG sub-committee discussion with Hannah Rantanen on/around Tuesday 21st June 2016 (date of next CLG Meeting) Successful Applicants announced early July 2016. Last year's sub-committee was Abby Walker-Schultz, Heidi Hodge, Sue Wurst, Andrew Allchurch and Cindy Nolan. GH asked for interested members to join the sub-committee: Sue Wurst happy to continue Heidi Hodge happy to continue but not available on the 21/6/16 Abby Walker-Schultz happy to continue Andrew Allchurch - GH to follow up Cindy Nolan - GH to follow up AWS – There was talk that there might be more funds than the \$20,000 available last year? SS – There is likely to be an additional \$10,000 available for community project work and Palisade are in the process of determining if this will be added to the fund or form a separate fund to support community projects. 	GH to follow up AA and CN for interest in being on Fund sub- committee GH to assist Hannah and the sub-committee find a suitable time to meet on or around the 21 June 2016



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	 AR – I think there is an expectation that wind farm development contribute to a community fund that benefits local community. AWS – I think the community fund has received good support from the local community and it offers an open and honest process for the allocation of funds to well-deserving projects. Members strongly supported the notion that additional funds be added to the existing community fund as this process is working well, is received positively in the local community outcomes. 	
5.	Community Ownership and Involvement in Renewable Energy	
	 Trevor White presented some of the research he has carried out as part of his PhD on "Community Ownership and Involvement in Renewable Energy Projects". In his presentation Trevor considered: 4 case studies in UK and Australia; <i>"what is community</i>" (community in locality and community of interest); advantages and disadvantages of community ownership; community funds including the SWELL Project and Virtual Micro Grid Project. Trevor was happy to have a pdf of his presentation circulated to CLG members for their information. 	GH to circulate Trevor's presentation to the CLG
6.	Other Business – Georgina House	
6.1	 National Wind Farm Commissioner GH brought to member's attention the role of the National Wind Farm Commissioner. The Commissioner (Andrew Dyer) is an independent role appointed by the Australian Government for a period of three years, reporting to the Minister for the Environment. The Commissioner's role is guided by the Terms of Reference issued by the Minister for the Environment on 9 October 2015. The Commissioner's role is to: receive and refer complaints from concerned community residents about wind farms promote best practices for industry and government to adopt regarding planning and operation of wind farms. An Annual Report will be provided to the Australian Parliament by the Commissioner. 	
6.2	 General Manager Waterloo Wind Farm GH advised that Steve will be leaving as General Manager Waterloo at the end of March. Most recently Steve has been in this role in a part time capacity. As the CLG know, Palisade, one of Waterloo's joint owners, has been taking a more active role in the operation of the wind farm. To extend this oversight, management of wind farm financing, governance and performance will now be looked after directly by Lindsay Ward, who is also GM at Palisade. Palisade advises that this will provide a more active link between one of Waterloo's investors and the day to day operations of the site - where in other businesses, there can be a significant separation. From a community perspective, Palisade's involvement signals their long term intent to remain involved in Waterloo. It will also see ongoing support for community 	



ltem	Торіс	Action By
	engagement, as one of the performance aspects Lindsay will be managing when he joins.	
	 Importantly, key contacts for enquiries will not change: 	
	 Clint is the person to approach regarding Waterloo Stage 2 	
	 Mike Clee and Hannah Rantanen are available for any matters regarding the existing Waterloo Wind Farm 	
	$\circ~$ Georgina will facilitate Communications between Palisade, EA and CLG members	
	 Sarah will assist if Clint, Mike or Hannah are unavailable. 	
	• More details will be shared at our next meeting. GH thanked Steve for his longstanding contribution to the wind farm and his time helping us in these meetings.	
6.3	The Lavender Trail Project	
	• AWS is involved in a new project in the local Waterloo area known as " <i>The Lavender Trail Project</i> ". Members invited AWS to talk about the project at the June meeting.	GH to invite AWS to talk about the Lavender Trail Project at the June meeting
7.	Next Meeting and Close –Georgina House	
	Next CLG Meeting – Tuesday, 21 st June 2016 – 4.30pm to 6.30pm at Gally's	Members to make a special
	GH thanked all for their attendance.	note that the next
	 Minutes of this meeting will be distributed to all for review. 	meeting will be held on a
	 One week will be provided for members to review draft minutes and provide any feedback to Georgina House. 	TUESDAY
	 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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Attachments:

- CLG Meeting Calendar 2016.
- Local advertisement in the Northern Argus and Flinders News, March 2016.
- Trevor White presentation on "Community Ownership and Involvement in Renewable Energy Projects".