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Rye Park Wind Farm Community Consultation Committee Meeting No 1 27 June 2012



Meeting Agenda

1. Epuron

> About us

2. Rye Park Wind Farm

> Project overview and current development status

3. Draft NSW Wind Farm Planning Guidelines

Overview of Guidelines and current position

4. Community Consultation Committee

> Purpose, objectives and general proceedings

5. Project Consultation

> Overview of project consultation plan

6. Project Information

- Location and layout
- > The likely impacts Assessment of key issues
- > The likely benefits
- Other reference documents

7. Next Steps and Timing

Epuron – Background and History

- Founded 2003
- ~15 staff based in North Sydney
- o 100% Australian-owned company
- In-house expertise in wind development; planning; grid; wind modelling; GIS; wind monitoring; instrumentation; solar PV design and construction
- Extensive wind monitoring network (>50 masts)

Track record of NSW wind farm developments

Cullerin Range	Sold to Origin: Operating	30MW	
Snowy Plains	Sold to Origin: Approved (lapsed)	30MW	
Conroys Gap	Sold to Origin: Approved	30MW	
Gullen Range	Sold to Goldwind: Approved	73 turbines	
Yass Valley	Sold to Origin: seeking Approval	>100 turbines	
Silverton	Sold to AGL		
	Stage 1 Approved	<430MW	
	Stage 2 Concept Approved	600+MW	
White Rock	Seeking approval	119 turbines	
Eden	Seeking approval 7 turbines		
Other	>10 sites under development		



30MW Cullerin Range Wind Farm (Goulburn, NSW)

- Developed by Epuron
- Constructed by Origin Energy in 2008/09
- Peak workforce of 100, 60 from local area
- 15 x Repower turbines = 30MW
 - net yield 47% Jul to Dec 2009 in top 3 wind sites in Australia
 - Highest yielding wind farm in National Electricity Market, 2010
- o Community fund established

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Epuron - Key Markets

- Large-scale wind ("Utility scale")
 - > 80-120 wind turbines, 150-360MW
 - > power for 60,000 210,000 homes
 - investment \$350-\$750M each
- Small-scale wind ("Community scale")
 - > 7-15 wind turbines, 15-30MW
 - > power for 8,000 -17,000 homes
 - investment \$30-\$60M each
- Solar photovoltaics (PV)
 - > 1-10 megawatts off-grid (diesel grid)
 - e.g. TKLN Solar, 1MW supplying 3 remote communities in the NT
 - investment \$5-\$25M each



Eden Wind Farm - Photomontage



TKLN Solar Project Northern Territory

Epuron – Wind Monitoring Technology

Conventional approach – Met-mast





New approach – SODAR FUICTUM 3D



- Australian designed and built SODAR
- Range to 150m in 10m height bins
- Full3D wind data analysis
- Can be towed by any car (~350kg)
- Tow to site; level; switch on
- No weather delays



Rye Park Wind Farm – Project Overview

- Project located on freehold rural land north of Yass and East of Rye Park
- Layout (currently) consists of ~131 wind turbines and associated infrastructure
- Based on 3MW turbine would be 393MW project and approx \$750m-850m investment
- Three active wind monitoring masts across site with around 2 years of data (+1 soon)
- Predicted wind speed and energy yield at hub height supports feasible development
- Turbine design envelope accommodates Siemens SWT3.0-113 or Vestas V112-3.0
- Proposed maximum turbine tip height 156.5m (100m hub height and 113m rotor)
- Grid connection at existing Transgrid 330kV transmission line crossing south of site
- Project being assessed as Major Project under Part 3a of EP&A Act 1979
- Declared Critical Infrastructure Project under Section 75C of EP&A Act 1979
- Involved wind farm landowners secured under contract



Rye Park Wind Farm – Current Development Status

- Revised turbine layout released in May 2012 newsletter 131 turbines
- Spring/Summer environmental surveys completed in Oct-Nov 2011 and Mar-Apr 2012
- Archaeological field survey underway July 2012 includes local indigenous reps
- Noise logging campaign underway at selected involved and uninvolved dwellings
- Visual photomontage public locations selected including neighbouring homes to 2km
- Traffic and Transport Study underway and will include consultation with councils
- Other studies including aviation, communications, shadow flicker etc underway
- Community Open Day planned to be held in Rye Park in July 2012
- Targeting EA lodgement with Department of Planning late Q3 early Q4 2012
- Project details available at website <u>www.epuron.com.au/projects/rye-park</u>



Draft NSW Wind Farm Planning Guidelines – Overview

- Draft NSW Wind Farm Planning Guidelines exhibited 23 Dec 2011 to 14 Mar 2012
- Government intends finalising Guidelines by mid 2012 (still outstanding)
- Policy Statement released 18 April identifying interim arrangements for existing State Significant Developments and transitional Part 3a wind farms
- The transitional arrangements vary depending on the stage of an application in the assessment and determination process
 - Stage 1 New applications for which DGRs have been issues
 - Stage 2- Applications for which DGRs have been issued but are yet to be exhibited
 - Stage 3 Applications that have been exhibited but not yet determined
 - Stage 4 Applications that have been approved

Rye Park Wind Farm

Draft NSW Wind Farm Planning Guidelines – Stage 2 Transitional Arrangements

2. Applications for which DGRs have been issued but are yet to be exhibited

The guidelines will apply to the maximum extent possible to all wind farm applications for which the DGRs have been issued, but an environmental assessment has not yet been exhibited.

- Proponents are encouraged to adopt relevant provisions of the guideline relating to the construction and operation of wind farms in their environmental assessment, in particular relating to noise assessment, visual assessment, aviation safety, bushfire hazards, construction, decommissioning, monitoring and compliance programs. Please refer to the attached Checklist.
- Proponents should consult with all neighbours with dwellings within 2km of proposed wind turbines to identify any issues and potential approaches to mitigate any adverse impacts. Proponents should, where possible, seek the written agreement from neighbours with a dwelling within 2km of a proposed wind turbine.
- It is strongly recommended that proponents, if not done so already, immediately
 establish a Community Consultation Committee to provide for ongoing communication
 with the local community. Appendix C of the guidelines provides guidance on the
 establishment, membership and operation of the committee. The Department will assist
 proponents with the appointment of an independent committee chair and in the selection
 of members.

Draft NSW Wind Farm Planning Guidelines – Transitional Check-List

CHECK LIST Key aspects of the 'Draft NSW Planning Guidelines Wind Farms' relevant to applications yet to be exhibited

Issue Potential Issues for considerations		
Consultation	 Form a Community Consultation Committee. Document the consultation process undertaken, including stakeholders consulted. Identify and tabulate issues raised by stakeholders during consultation. Describe how issues raised have been addressed. Consult with all neighbours with dwellings within 2km of a proposed wind turbine. Identify the neighbours' issues and potential approaches to mitigate any adverse impacts. Consider seeking agreement with neighbours with dwellings within 2km of a proposed wind turbine. 	
Landscape and visual amenity	 Provide photomontages from all non-host dwellings within 2km of a proposed wind turbine. Identify the zone of visual influence of the wind farm (no less than 10km). and likely impacts on community and stakeholder values. Consider cumulative impacts on landscape and views. Outline mitigation measures to avoid or manage impacts. 	
Noise	 Undertake assessment based on separate daytime (7am to 10pm) and night-time periods (10pm to 7am). Predict noise levels at all dwellings within 2km of a proposed turbine. Consider special audible characteristics, including tonality, amplitude modulation, and low frequency noise (apply penalties where relevant). Outline measures to avoid, minimise, manage and monitor impacts. 	
Health	 Consider and document health issues, focusing on neighbours with dwellings within 2km of proposed wind turbines. 	
Ecological issues	 Consider potential impacts on birds and bats, particularly migratory species and outline the proposed monitoring and mitigation strategy 	



Draft NSW Wind Farm Planning Guidelines – Transitional Check-List

CHECK LIST			
Key aspects of the 'Draft NSW Planning Guidelines Wind Farms'			
relevant to applications yet to be exhibited			

Aviation safety	 Outline current agricultural aerial uses on neighbouring properties. Consider the potential for the proposed wind farm to impact on aviation safety associated with agricultural aerial uses consistent with the draft guidelines. 	
Bushfire hazard	 Consider bush fire issues consistent with the draft guidelines, including the risks that a wind farm will cause bush fire and any potential impacts on the aerial fighting of bush fires. 	
Blade throw	 Assess blade throw risks consistent with the draft guidelines. Outline measures to avoid, minimise, manage and monitor impacts. 	
Economic issues	 Consider whether the wind farm use is consistent with relevant local or regional land use planning strategies. Consider potential to impact upon mining/petroleum leases and exploration licences. Consider any potential impacts upon property values consistent with the draft guidelines, including properties within 2km. 	
Decommissioning	 Include a Decommissioning and Rehabilitation Plan in the EA, including proposed funding arrangements. Confirm that the proponent not the landowner is responsible for decommissioning. 	
Monitoring and compliance program	 Outline program to monitor environment performance to ensure compliance including mechanisms for reporting outcomes and procedures to rectifying non-compliance – including any provisions for independent reviews. 	
Council planning controls	 Outline whether the proposal is consistent with any relevant provisions of the relevant council's Development Control Plan and list any variations. 	



Community Consultation Committee - Purpose and Objectives

- To enable Epuron to formally provide the local community with information about the proposal;
- To enable the community to express and for Epuron to understand any concerns regarding the potential impacts of the proposal;
- To enable Epuron to consider whether and how to incorporate any suggestions and feedback into the design of the proposal;
- To demonstrate how and where feedback has been incorporated and resulted in amendments to the proposal;
- To formally advise potential community benefits that can be integrated into the proposal; and,
- To establish and strengthen good working relationships between the proponent and the local community.



Community Consultation Committee - Membership

- An independent chairperson;
 - Councillor David Needham (nominated by Yass Council to NSW DoP)
- A representative of the involved wind farm landowners;
 - Graham Privett
- A representative of the non involved neighbouring landowners;
 - > Drew and Robyn Chapman
- A representative from a key local stakeholder group or association;
 - > TBC
- A representative from each of the local councils; and
 - Mayor Wendy Tuckerman Boorowa Council
 - Councillor James Wheelwright Upper Lachlan Council
 - Councillor David Needham Yass Council
- A representative from Epuron
 - Brian Hall Senior Project Manager (others available as required)



Community Consultation Committee – General Proceedings

- The Chairperson to set the agenda and convene and chair meetings
- The committee is not a decision-making body and it is not a requirement that consensus be reached on issues discussed
- Meeting proceedings should generally include;
 - > Apologies
 - > Declaration of pecuniary or other interests
 - > Confirmation of the previous meeting minutes
 - > Business arising from previous minutes
 - Correspondence
 - > Proponent reports and overview of development activities
 - General business
 - Next meeting
- Minutes are to be kept of all meetings of the committee
- Committee to determine frequency of meetings suggest every 4-6 weeks for now
- Meetings to be held at a convenient location suggest local venue

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Project Consultation – The Plan

- Epuron is striving to ensure that the project is developed and built in a manner which recognises the importance of an ongoing, long term relationship with the community
- The Rye Park Wind Farm Project Consultation Plan;
 - guides community and stakeholder engagement activity for the project during the development phase (up to project approval)
 - reflects the corporate requirements set out in Epuron's Community Consultation Framework and the DGR's issued for the project by the NSW DoP
 - > is dynamic and periodically updated as required during consultation activity
 - > reflects the specific needs of the project and the key community stakeholders
 - has taken into consideration the NSW Draft Wind Farm Planning Guidelines. While these draft guidelines are not yet in force, there are transitional provisions in place.
- The Project Consultation Plan is available at <u>www.epuron.com.au/projects/rye-park</u>



Project Consultation – Scope of the Plan

- Epuron's Consultation Framework identifies the following development phases for the project during its lifecycle:
 - Phase 1 Project Awareness
 - Phase 2 Project Investigations
 - Phase 3 Project Development & Approvals
 - > Phase 4 Post Development Approval and Pre Construction
 - Phase 5 Construction & Commissioning
 - Phase 6 Operations & Decommissioning
- The Project Plan outlines those consultation activities proposed during the preapproval development phases of the project which are phases 1 through 3.
- A further consultation plan will be developed as the project enters Phase 4 of its development.

Project Consultation – Objectives of the Plan are to.....

- minimise undue community concern in relation to the proposal, particularly during the early stages when little information on the project was known;
- ensure the community and other stakeholders are fully informed and aware of the proposal, it's likely impacts, and its likely benefits;
- ensure that Epuron fully understands the local context for the proposal, including any local impacts that the proposal may have or opportunities that it could provide;
- incorporate the suggestions and feedback into the design of the wind farm where possible;
- explain where and how this feedback can be and has been incorporated; and,
- provide opportunities for dialogue to allow the community to receive information and provide feedback about the proposal.
- investigate how best to maximise the local and regional benefit of the development. Specifically, Epuron is looking for feedback as to how a Community Fund might be established for the project, and what kind of community support is required in the vicinity of the project.



Project Consultation – Key Stakeholder Groups

- Residents and Landowners
 - Involved landowners
 - > Uninvolved neighbours (within 2km from wind turbine)
 - > Nearby neighbours (2 5 km from wind turbine)
 - > Distant neighbours (5 15 km from wind turbine)
 - General public (>15km from wind turbine)
- Community Groups
 - > eg. Landcare Groups, Guardians (BDLG), CWA, Rotary and Chamber of Commerce
- o Local Media
 - > eg. Yass Tribune, Boorowa News and Yass FM Radio
- Local Government
 - > Yass, Boorowa and Upper Lachlan Councils
- State and Federal Government
 - State and Federal members and Ministers
 - > Government agencies and authorities
- o Other Stakeholders
 - > eg. Aerial Agricultural Association of Australia and Telco Operators (Telstra etc)

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Consultation – Summary of Key Consultation Activity and Timetable

Activity	Timing	Objectives	Stakeholders	Status
Community information workshop	November 2008	Introduce Epuron and the proposal to landowners and community including preliminary layout	Involved landowners and selected stakeholders	Completed
Newsletter 1	December 2009	Inform community about project and initial information	Involved and uninvolved landowners (mail-out)	Completed
Newsletter 2	June 2010	Provide updated information and planning details including	Involved and uninvolved landowners (mail-out)	Completed
Newsletter 3	December 2011	Outline planning process and updated development progress	Involved and uninvolved landowners (mail-out)	Completed
Consult with neighbours within 2km	January / February 2012 (ongoing)	To discuss project and impacts with neighbours including feedback	Uninvolved neighbours within 2km of turbine	Completed (but ongoing)
Newsletter 4	March 2012	Advise consultation plans and release revised wind farm layout	Involved and uninvolved landowners (mail-out)	Completed
Establish Community Consultation Committee	April / May 2012	Establish formal mechanism for community participation	Invited members	Completed

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Consultation – Summary of Key Consultation Activity and Timetable

Ac	ctivity	Timing	Objectives	Stakeholders	Status
CCO	C Meeting 1	May / June 2012	Provide project information and seek feedback	Invited members	To be held 27 June 2012
Cor	wsletter 5 and mmunity Open use 1	June / July 2012	Update on studies and consultation and layout	Involved and uninvolved landowners (mail-out)	pending
CCO	C Meeting 2	July / August 2012	Provide updated information and consider feedback including release of draft final layout	Invited members	TBC – Thursday 2 August 2012
Cor	wsletter 6 and mmunity Open use 2	September / October 2012	Update on studies and consultation feedback contributing to draft final layout	Involved and uninvolved landowners (mail-out)	pending
CC	C Meeting 3	September / October 2012	Provide draft final documentation for review and feedback	Invited members	TBC – Monday 17 September 2012
-	DA submission ow up	September / October 2012	Consider feedback and any final amendments required prior to lodging application	Involved and uninvolved landowners, CCC and consultants	pending



Consultation – Communication and Feedback

- Consultation is a two-way-street and we're always listening
- Feedback and suggestions are important to us
- Available communication channels include;

\succ	Epuron corporate website:	www.epuron.com.au
\triangleright	Rye Park project website:	www.ryeparkwindfarm.com.au
\succ	Mailing address:	Rye Park Wind Farm
		Level 11, 75 Miller Street
		North SydneyNSW2060
\succ	Phone:	02 8456 7400
\succ	Fax:	02 9922 6645
\succ	Email:	RyePark@epuron.com.au
\succ	Senior Project Manager:	Brian Hall
		<u>b.hall@epuron.com.au</u>
	Meetings	Arranged by appointment

Project Information - Regional Location and Site Boundary

- Approx distance from local town to nearest turbine
 - ~3km east of Rye Park
 - ~17km south east of Boorowa
 - ~10km north
 east of Yass
 - ~4km west of
 Blakney Creek



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Project Information – Landowners within Site Boundary

• Approx ~45 landowners signed to be involved in wind farm project



Project Information – Preliminary Layout

- Preliminary layout developed 2009-10
- Approx 180 wind turbines
- Based on initial desktop analysis, 6-12 months of wind data, land and landowner assessment



Project Information – Revised Layout

- Revised layout
 developed 2011 12
- Layout includes 131 wind turbines
- Based on 2011 environmental survey, 2 years of wind data, constraints analysis, land arrangements and consultation feedback





Project Information – Environmental Assessment

- Assessment of key issues;
 - Ecology (Environmental Flora and Fauna)
 - Noise (Operational and Construction)
 - Visual Amenity
 - Archaeology (Aboriginal and European Heritage)
- Other project assessments include;
 - > Aviation
 - Communications
 - > Electromagnetic Fields
 - Shadow Flicker
 - Fire and Bushfire Risks
- General environmental assessments include;
 - Drainage and Hydrology, Soils and Landforms, Climate and Air Quality, Mineral Exploration, Economic, Resource Impacts, Traffic and Transport

Project Information – Environmental Constraints - Fauna

- Two annual seasonal surveys completed
- Fauna habitat constraints are based on whether proposed clearing could adversely impact habitat
 - Patch size and integrity
 - Connectivity
 - Key features such as rocky outcrops or hollow bearing trees



Project Information – Environmental Constraints - Flora

- Two annual seasonal surveys completed
- Majority of turbines are in low and moderate flora constraint areas
- Some turbines microsited away from high constraint areas



Project Information – Environmental Constraints - Operational

- Constraint assessed on potential for
 - Isolated turbines
 - Landscape position – near to heads of valleys or escarpments
 - Increased distance to nests
- Five turbines removed or relocated away from operational constraint areas



Project Information – Noise

- Preliminary noise modelling complete
- Background noise logging program underway at identified locations
- Final noise modelling to be completed when layout finalised
- Uninvolved noise limit greater of 35dBA or background plus 5dBA with separate day time and night time periods



Project Information – Visual

- Preliminary photomontages for selected public view points VP1, VP3, VP4 and VP5 have been prepared for consultation purposes
- Final photomontages for public viewpoints including VP2, VP6 and VP7 will be prepared when layout is finalised
- Epuron arranging to take photomontages at neighbouring dwellings within 2km of a wind turbine





Project Information – Visual (Preliminary Photomontages)



Viewpoint VP1 – Little Plains Road

Photomontage 1, Little Plains Ro Horizontal Field of View: 165° Bearing: 95° (East)



Viewpoint VP3 – Wargeila Road

Rye Park Wind Farm Photomontage 3, Wargeila Road Horizontal Field of View: 145° Bearing: 90° (East)



Project Information – Visual (Preliminary Photomontages)



Viewpoint VP4 – Corner of Cooks Hill Road and Dalton Road

Rye Park Wind Farm Photomontage 4, Corner of Cooks Hill Road and Dalton R Horizontal Field of View: 165" Bearing: 35" (North-East)



Viewpoint VP5 – Coolalie Road

Rye Park Wind Farm Photomontage 5, Coolalie Road Horizontal Field of View: 125° Bearing: 5° (North)

Project Information – Communication Constraints

- Existing communications infrastructure assessed
- Telcos such as Telstra consulted
- Impacts vary depending on height, location, frequency, band and type of signal



Project Information – Houses

- 27 involved landowner houses within 2km of wind turbine
- 33 uninvolved landowner houses within 2km of wind turbine



Project Information – Access Tracks and Construction Compounds

- Proposed access roads to site identified and study underway
- Construction compound locations identified



Project Information – Wind Farm Powerlines and Grid Connection

- Overhead powerlines required to link wind farm site
- On site grid connection substation land identified
- Existing Transgrid 330kV transmission line crosses south of site





Project Information – Likely Benefits (Preliminary Estimates)

- Project Investment Value \$750m-\$850m based on 393MW project (131x3MW)
 - > 65% Wind Turbines = \$488m-\$552m
 - > 35% Design and Construction = \$262m-\$298m
- Direct regional investment from construction \$200m
- Direct regional investment from operations \$15m per annum for 25 years
- Direct jobs during construction approx 250 to 350
- Direct jobs during operations approx 20 to 30
- Regional/state/national flow on effects, jobs and expenditure multipliers TBC
- Carbon emissions abatement TBC
- Community Fund TBC (considered as part of consultation process)



Other Reference Documents

- NSW Draft Wind Farm Planning Guidelines December 2011
- NHMRC (National Health & Medical Research Council) Review of Wind Turbines & Health - July 2010
- NSW Valuer General Impact of Wind Farms on Property Values August 2009
- DECCW (NSW Department of Environment, Climate Change & Water Community Survey: "Community Attitudes to Wind Farms" – December 2010
- Clean Energy Council Wind Farm Investment, Employment and Carbon Abatement in Australia (SKM) – June 2012



Next Steps and Timing

- Update layout & design
- Newsletter No 5
- Community Open Day
- CCC Meeting No 2

- End July 2012
- End July 2012

July 2012

TBC - 3pm Thursday 2 August 2012

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Thank You



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