

LIVERPOOL RANGE WIND FARM

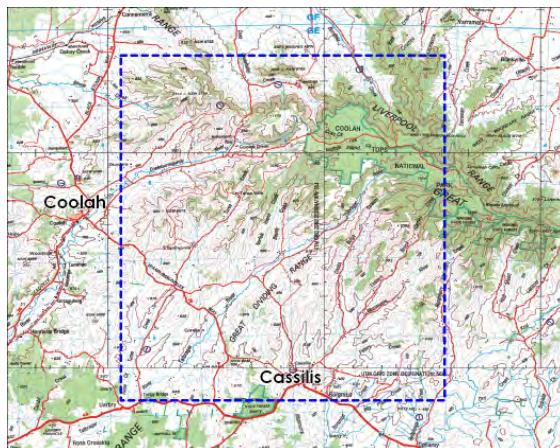
Project Update - November 2009

INTRODUCTION

WELCOME to the Liverpool Range Wind Farm Project Update. The Liverpool Range Wind Farm Project is a new development project being considered by Epuron Pty Ltd. The proposed wind farm is at the early stages of planning and geographical perimeters are still being considered.

PROJECT AREA

The Liverpool Range Project (LVP) area is located in the Warrumbungle Shire, nearby to the townships of Coolah and Cassilis, 50 km North of Dunedoo. The site comprises a series of ridgelines running NE/SW, where it is expected the turbines could be located. The site may comprise separate discrete project areas/stages, with an ultimate potential of 200+ turbines. The project design and capacity is driven by electrical connection suitability.



Liverpool Ranges Proposed Project Area

WHO IS EPURON?

Epuron is a leading wind energy developer in NSW with over 1500MW of approved wind energy across 5 projects. Epuron is working on several projects, at various stages of development, totalling in excess of 2000MW, including the large scale Silverton project in western NSW. Epuron projects which have already received planning approval represent approx 72% of approved wind power capacity in NSW. With a team of 17 operating from its North Sydney base, Epuron is currently in an exciting phase of growth and development.

SITE SELECTION

Why is this a good area for wind energy?

The area has a number of favourable conditions for the development of a wind farm, including:

- Relatively high wind speeds
- Cleared agricultural land
- Relatively few dwellings
- Access to transmission
- Community support



Epuron would like to thank the many local landholders who have provided & continue to provide their support and commitment to this exciting project.



ONGOING STUDIES

Epuron Project Manager, Laura Dunphy is keen to commence the preliminary biodiversity studies leading to the development application process. Representatives from our consulting firm NGH Environmental are expected on site during November. Landholders will be contacted if their properties are to be involved in this survey work. Please feel free to contact either Laura or Richard if you would like to further discuss these surveys.

WIND STRENGTH

Monitoring of the wind at the site has been occurring now for some time, with Epuron installing monitoring masts and anemometers to better understand the potential wind energy resource. Plans exist for the installation of additional masts as the project develops.



Wind data collected from these masts and sent over the mobile phone network to Epuron's North Sydney office, is used to determine the extent of the energy available from the wind for generation of electricity. Ongoing wind monitoring and time-series data collected from the masts is continuing to be processed and used to calculate the wind characteristics. From this are determined the site's mean wind speeds and direction which in turn will help choose and position the optimal turbine layout.

SOLAR ENERGY



In other exciting news, Epuron is increasing its explorations of utility-scale solar energy options in NSW. The solar team is working on opportunities under the Solar Flagships program. This is a new and exciting path for Epuron and we are currently investigating potential sites for Photovoltaic (PV) and Concentrated Solar Power (CSP) development.

LOCAL NEWS

Epuron Sponsors the "Tour de Coolah"

In October Epuron was proud to sponsor the 'Tour de Coolah', with our own team member Leah Howell taking part in the 18km bike ride. Epuron was a major sponsor of the event, providing prize money and assisting in the purchase of t-shirts for all riders involved. It was a successful day and a good time was had by all.



INDUSTRY NEWS

Renewable Energy Target (RET)

In August of this year legislation to expand the Renewable Energy Target was passed by Federal Parliament. This means that 20% of Australia's electricity will come from renewable sources by 2020. This will enable wind farms around Australia to competitively price their electricity in order to complete development activities and commence construction.

Inquiry into Rural Wind Farms

The Parliament of NSW is holding an Inquiry into the social, environmental and economic costs of rural wind farms. The public were invited to participate and 109 public submissions were received by the Standing Committee. The first of three public hearings was held on 11 September in Sydney at which **Epuron Executive Directors Martin Poole and Andrew Durran** addressed the Committee. A full transcript can be found on the NSW Parliament site www.parliament.nsw.gov.au

CONTACT US

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LIVERPOOL RANGE WIND FARM

Project Update - December 2009

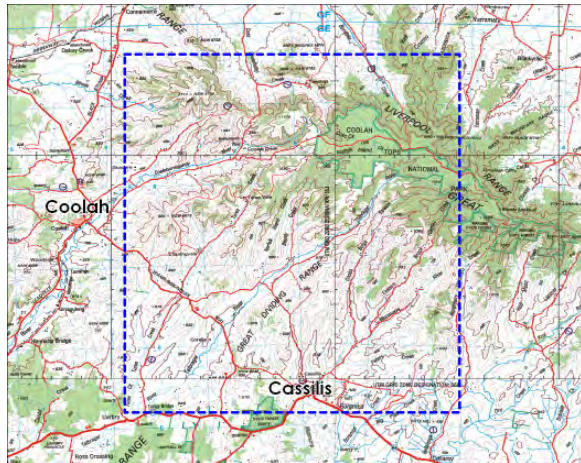
INTRODUCTION

EPURON wishes all a Merry Christmas and a Safe & Prosperous New Year.

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Liverpool Ranges Proposed Project Area

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WHO IS EPURON?

Epuron is a leading wind energy developer in NSW having achieved planning approval for more than 1500MW of approved wind energy across 5 projects since 2005. Epuron is working on several projects, at various stages of development, totalling in excess of 2000MW, including the large scale Silverton project in western NSW. Epuron projects which have already received planning approval represent over 70% of approved wind power capacity in NSW. With a team of 17 operating from its North Sydney base, Epuron is currently in an exciting phase of growth and development.

SITE SELECTION

Why is this a good area for wind energy?

The area has a number of favourable conditions for the development of a wind farm, including:

- Relatively high wind speeds
- Cleared agricultural land
- Relatively few dwellings
- Access to transmission
- Community support

We have recently had our environmental consultant in the area to do a high level assessment and constraints mapping to assist with our staged approach and an overall development plan. In general the feedback has been that it looks like a good site from the ecological perspective, there are some sensitive areas we will need to manage, however, there looks to be adequate space to locate





turbines, access roads, etc. The next 12 months will be focused on further ecological studies and commencing the environmental assessments.

Epuron would like to thank the many local landholders who have provided, & continue to provide their support and commitment to this exciting project.

WIND STRENGTH

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SOLAR ENERGY

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Photovoltaic Modules (PV)

NSW & elsewhere in Australia. This is a new and exciting path for Epuron and we are currently investigating potential sites for Photovoltaic (PV) and Concentrated Solar Power (CSP) development.

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Tour De Coolah participants

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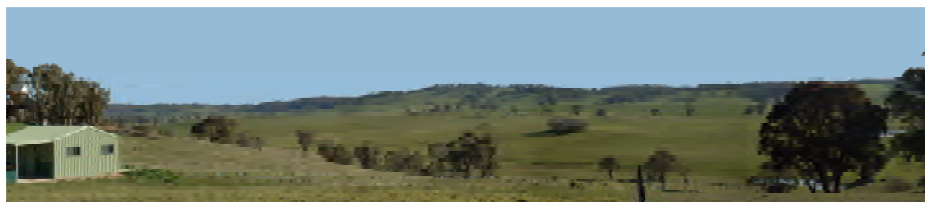
*Epuron wishes you and your family
a very Merry Christmas
and a Happy New Year*

CONTACT US

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LIVERPOOL RANGE WIND FARM

Project Update No. 2 - May 2010

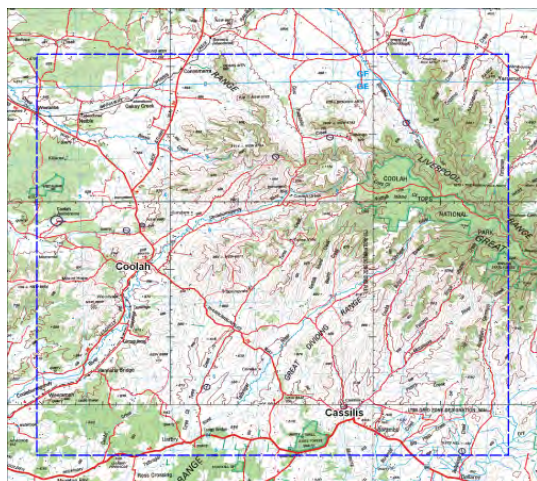
INTRODUCTION

WELCOME to the Liverpool Range Wind Farm Project Update. This second newsletter provides a summary of the activities underway to further plan and develop this very exciting proposal.

In this newsletter we provide an update on the analysis of the wind resource, the progress with the grid connection, some feed-back from the ecology studies and an update on renewable energy policy.

PROJECT AREA

The Liverpool Range Project (LVP) area is located in the Warrumbungle and Upper Hunter Shires, nearby to the townships of Coolah and Cassilis, 50 km North of Dunedoo.



Liverpool Ranges Proposed Project Area

The site comprises a series of ridgelines running NE/SW, at right angles to the prevailing wind direction, where it is expected the turbines could be located.

Approximately 50 local landowners have agreed to explore the feasibility of the proposal. The site may comprise separate discrete project areas/stages, with an ultimate potential of 200+ turbines.

KEY FACTS

Why is this an excellent project?

We believe this is an excellent wind farm proposal for a number of reasons;

- High wind speeds – quantified resource
- Generally cleared agricultural land
- Access to the high capacity transmission network
- Close to an area with high electrical demand / load (Sydney Basin)
- Relatively large site – good fit with renewable energy policy.
- Close to centres with industry capability
- Positive landowner and community support

This project will be a state significant renewable energy facility and investment.

Epuron would like to thank the many local landholders who have provided, & continue to provide their support and commitment to this exciting project.

WIND RESOURCE ANALYSIS

Epuron installed two 71m monitoring towers in February 2009 to measure the wind speed and wind direction on the site.

As these have been collecting data for over a full year now and across all seasons, we are undertaking a detailed analysis and assessment. On-site data will be correlated to other longer term data sets to establish long term predicted wind speed and direction. This information will then be used to develop optimised wind turbine layouts that will maximise the energy generation from the project.

The good news is that the wind analysis confirms that the wind speeds at the site are excellent and the wind resource meets thresholds required for progressing the development of the project.



Ongoing wind monitoring and time-series data collection from the masts will continue to be processed and used to fine-tune the wind characteristics. It is likely that further monitoring masts will be required as the project develops and masts may be relocated around the site to increase our data coverage.

GRID CONNECTION

Since late 2009, Epuron has been examining the most suitable grid connection options. A high level feasibility study considered all available connection options and analysed the technical merits of each option. The result of that work is that a connection into the newly constructed Wellington – Wollar 330kV transmission line presents the optimal technical solution to export the potential generation from the site.

Epuron has commenced preliminary discussions with the key government agencies to identify any significant obstacles for the proposed concept. We are looking to use crown land, to the extent that we can, and are discussing this approach with the NSW Government.

The next step is to discuss the potential route options with landowners in the coming weeks. This landowner consultation is an important part of the process to understand specific issues and concerns.

Our objective is to develop the very best project that we can considering all of the technical, environmental and social issues.



ECOLOGICAL STUDIES

Our environmental consultant spent time in the area to do a preliminary assessment and undertake mapping of biodiversity in the project area to assist with our overall development plan.

In general the feedback has confirmed it is a good site from an ecological perspective. While there are some sensitive areas we will need to manage, there is adequate space to locate infrastructure including turbines, access roads and transmission lines.

The studies identified there are some native vegetation communities, such as Yellow Box or White Box Woodland, that require management. Epuron has successfully managed similar issues on previous projects in NSW.

INDUSTRY NEWS

Renewable Energy Target (RET)

In August 2009 legislation to expand the Renewable Energy Target was passed by Federal Parliament. This means that 20% of Australia's electricity will come from renewable sources by 2020 enabling wind farms around Australia to sell clean electricity into the electricity market.

In February 2010, the Hon. Penny Wong announced further amendments to the RET legislation that provides separate targets for small/domestic renewable energy and large scale projects such as our wind farms. This is another very positive step for the establishment of new large clean energy projects.

Those of you who follow current affairs will have seen that the Government has delayed the introduction of an Emissions Trading Scheme (ETS). While this is disappointing from an environmental and climate change policy perspective, the development and delivery of the Liverpool Range Wind Farm is primarily driven by the RET.

CONTACT US

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Liverpool Range Wind Farm

EPURON

Project Update | November 2010

WELCOME to the Liverpool Range Wind Farm Project Update

Since our previous update in May, Epuron has been very actively assessing the proposed project. Ongoing wind measurements are starting to guide turbine development regions, and importantly, significant progress has been made in relation to the investigation of various grid connection corridors. Epuron has held a number of meetings with landowners and has been successful in entering into agreements with a number of landowners.

This is all very positive news, and Epuron is now close to finalising the general concept for the initial stages of development. We will shortly be lodging the initial planning application to commence this important stage of the project.

This project update provides a summary of the activities underway and outlines the status of and next steps for the development.

Project area update

The Liverpool Range Project (LVP) area has turbines located in both the Warrumbungle & Upper Hunter Shires, nearby to the townships of Coolah and Cassilis, 50 km North of Dunedoo. The site area comprises a series of ridgelines running NE/SW, at right angles to the prevailing wind direction.

In general, wind turbines would be located along the top of the ridges, and each ridge of turbines would be connected to the next with an overhead powerline. Usually, turbines along each ridge would be connected with underground cables. An increasing number of local landowners has agreed to work with Epuron in exploring the feasibility of the proposal.

Epuron is now finalising the land area likely to be included in the initial phases of the project. In general, this will include the areas where the majority of landowners have entered into an agreement with Epuron.

Epuron is continuing to work with additional landowners to maximise the land area which can be included in the initial planning application.

Epuron would like to thank the many local landowners who continue to provide their support and commitment to this exciting project.



Next Steps?


The project will be developed in stages. The initial stage will include the main connecting powerline and the majority of the wind turbines. This powerline will be sized to allow connection of additional wind turbine stages over time.


Epuron is currently finalising the site area for this initial stage, and is holding final landowner meetings over the next few weeks. An agreement with Epuron is important to ensure your property can be included in this stage.


In January 2011, Epuron intends to lodge the Project Application for this initial stage with the Dept of Planning (DOP). Within 30 days of this application the DOP is required to confirm the Director General's Requirements which Epuron must address in preparing its detailed Environmental Assessment.

The Project Application will include a Preliminary Environmental Assessment based on information gathered to date, and a map of the land to be included in the initial stage.

Register your interest by:

 Write to us: Liverpool Range Wind Farm
Epuron Pty Ltd
Level 11, 75 Miller Street
North Sydney NSW 2060

 Email us: info@epuron.com.au

 Phone us: 02 8456 7400

Liverpool Range Wind Farm

Project Update | November 2010

EPURON

Wind Resource Analysis

Epuron installed two 71m monitoring masts in February 2009 to measure the wind speed and direction at the site. Assessment of the first of these masts is now complete, and this mast has been removed. The second mast is expected to remain on site for the long term. Additional monitoring is likely to be installed in 2011.

Results to date prove that the wind speeds at the site are excellent and the wind resource meets the threshold required for a successful project.

Epuron is now preparing an initial conceptual wind farm layout for the site. This layout is expected to indicate which areas are suitable for wind turbines, however further computer modelling of wind flows will be required before any meaningful turbine layouts can be provided to landowners.



Epuron's wind monitoring at Liverpool Range

Government Consultation

Part of the site requires the use of Crown land, whether existing roads, paper roads, trig stations, or other reserves. Epuron has commenced consultation with relevant agencies including the Land & Property Management Authority (LPMA) and the Department of Environment, Climate Change and Water to understand their requirements in relation to land use and other issues.

To date, feedback has been positive and all NSW government agencies have provided strong support. Epuron now intends to commence the Development Application process with the consent authority, the NSW Department of Planning (DOP).



Liverpool Range turbine area

Grid Connection

Epuron has confirmed that the newly constructed Wellington – Wollar 330kV transmission line located to the south of the site has sufficient capacity for project of this scale.

Epuron has reviewed a number of potential connection corridors to this powerline, and has now refined the preferred route. Landowner negotiations along this corridor are at an advanced stage, and Epuron is confident of success in securing a suitable easement for the powerline.

The proposed connecting powerline will be a high voltage 330kV powerline, providing sufficient power capacity to connect all turbines proposed within the Coolah – Cassilis region.

Who is Epuron?

Epuron Pty Ltd is a NSW based renewable energy company active in the development of wind and solar projects. Epuron has received development consent for five wind energy projects in NSW at Snowy Plains, Cullerinn Range, Conroy's Gap, Silverton near Broken Hill and Gullen Range.

Ongoing Consultation

Epuron will provide a further update in early 2011 once the Application is lodged. A copy of the Preliminary Environmental Assessment will be sent to all involved landowners. In due course, it will also be available on the Dept of Planning website. In the interim, we take this opportunity to wish you all the best and safe travels for the upcoming Christmas season.

Epuron is continuing to engage with landowners & the community in relation to the project – if you have any queries, please give us a call.

Liverpool Range

Wind Farm

Project Update | February 2011

Liverpool Range Wind Farm Project Update

Since our previous update in November, Epuron has been very active in progressing the Liverpool Range Wind Farm. A significant milestone was reached with the submission to the Department of Planning (DoP) of the project application form under Part 3A of the Environmental Planning & Assessment Act 1979 (EP&A Act), on Friday 11th February 2011. The Preliminary Environmental Assessment (PEA) also accompanied the lodgement of the project application. Discussions with potentially involved landowners are ongoing, however we have had very positive feedback allowing us to consolidate site boundaries, and in places increase the size of the project, providing a greater benefit across the community.

Project Summary

The project application proposes the following:

- Construction and operation of up to 550 wind turbines, together with associated control and maintenance buildings, civil works and electrical infrastructure.
- Turbine development area to be located across three shires (Figure 1)
- Proposed site area to cover approximately 40km (east-west) by 50km (north-south)
- Construction likely to occur in stages.
- A new powerline to connect the Project to the existing grid, with the most likely connection point at Transgrid's 330kV Wollar-Wellington powerline located to the south of the site.

The proposal will be further refined during the environmental assessment and technical design phases.

Planning Process

This project is considered a Major Project and will be assessed by the DoP and determined by the Minister for Planning under Part 3A of the EP&A Act. It will also be considered a Critical Infrastructure Project under the Act, as it has the capacity to generate in excess of 30 Megawatts.

Register your interest by:

Write to us: Liverpool Range Wind Farm
Level 11, 75 Miller St
North Sydney NSW 2060

Email us: info@epuron.com.au

Phone us: 02 8456 7400



Next Steps..

The lodgement of the project application will trigger the creation of site specific Director General's Requirements or DGRs. These are a list of issues government agencies wish to have investigated in the development of the site.

The DGRs will be the focus of the Environmental Assessment (EA) Epuron will prepare and lodge with the DoP. When the DoP is satisfied that the EA adequately addresses the DGRs it will go on public exhibition for public comment and submissions. The Minister then takes these submissions into consideration before making any determination.

An important part of the development of the site is community consultation. Epuron has already held meetings with community groups and individuals. In due course we will hold another community Open House, most probably in Coolah, aimed at providing more specific information about the project to the local community and other stakeholders. At this Open House we hope to hear community views of the wind farm and in particular from neighbours living in proximity to the proposed development.

Environmental Assessment

Epuron has extensive experience in wind farm development in NSW and has prepared a Preliminary Environmental Assessment to help identify issues to be considered.

Key issues include:

- Visual amenity
- Biodiversity (inc flora and fauna)
- Noise amenity
- Archaeology

Additional issues include:

- Water and groundwater
- Traffic and transport
- Soil and landforms

Project Benefits

The wind farm offers significant environmental and financial benefits both locally and to the wider community, such as:

- Reducing greenhouse gas emissions, for example the entire proposed project would avoid the emission of up to 4,100,000 tonnes of CO₂ each year from coal fired power stations; the equivalent of removing 945,000 cars from our roads.
- Supplying considerable renewable energy to assist in meeting growing electricity demand in NSW and state and federal renewable energy targets
- Directly injecting funds into local community by providing local jobs and use of local services during construction.
- Community contributions following completion, and landowner payments for the life of the wind farm.
- Helping both NSW and Australia to transition to renewable sustainable energy.
- Producing around 4,215,000 Megawatt hours of clean, renewable energy, or equivalent usage for 525,000 homes.

Who is Epuron?

Epuron Pty Ltd is a NSW based renewable energy company active in the development of wind projects. To confirm the viability of wind projects in NSW, Epuron has established an extensive network of wind monitoring masts. Data from this network plus the onsite masts confirms that wind speeds are high at Liverpool Range Wind Farm and more than sufficient for a viable wind farm development. To date Epuron has developed the largest wind farm, the largest number of wind farms, and the largest number of wind turbines in NSW, making it one of the most experienced wind developers in Australia.

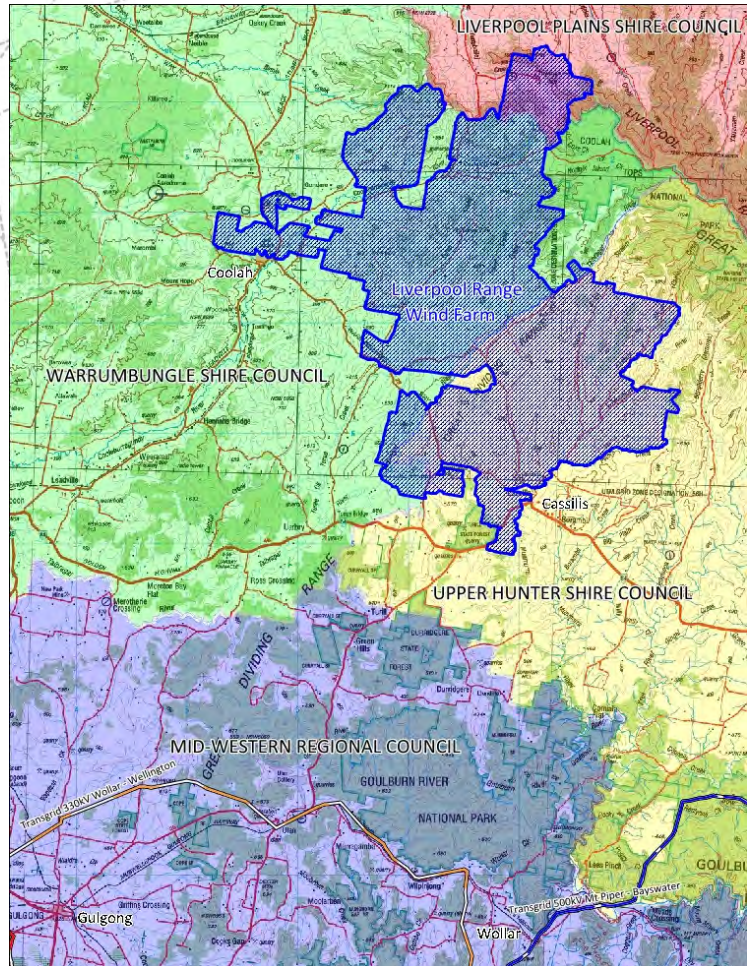


Figure 1. Locality Map



Figure 2 Mast onsite at Liverpool Range



Liverpool Range Wind Farm

Project Update No 6 | December 2011

Merry Christmas from the Epuron Team

As we draw to the end of a busy year for the Liverpool Range Wind Farm project, the Epuron team would like to wish you and your family a very Merry Christmas. There is already much work planned for next year including continuation of the consultation program that will feed into finalisation of the projects' Environmental Assessment. Thank you for your continued support of this exciting project and your positive feedback.

Project Update

A key milestone since our previous update is that Epuron has received notification of the Director-General's Requirements (DGRs) for the project from the NSW Department of Planning in March 2011. The issuing of the DGRs is in response to our submission of the project's Development Application and Preliminary Environmental Assessment earlier in the year. The DGRs set out the Departments key assessment criteria for the proposed wind farm and will contribute to the preparation of the project's Environmental Assessment. There are a number of detailed studies required by the DGRs to assess potential impacts of the project including noise, visual, traffic, ecological, heritage and a range of planning and statutory matters.

Various studies are currently underway to assess the proposed powerline easement route as part of the ongoing development works to connect the Project to the existing grid. The preferred connection location is at Transgrid's existing 330kV Wollar-Wellington powerline located to the south of the site.

As we continue to capture data from the wind monitoring mast on site we remain confident there are good wind speeds across the project and a viable resource for the development of a wind farm. There are plans to further expand the wind monitoring program in the new year. This will see the placement of additional wind monitoring points including use of our new portable Sodar technology.

New Website

We are pleased to advise that a new project website will soon be available to view information about the project. You are also invited to submit any feedback you may have via the new website. The new website is due to be launched shortly so keep an eye out for it. Details of the project will be available at www.liverpoolrangewindfarm.com.au



Project Manager



Epuron is pleased to announce the recent appointment of Senior Project Manager Brian Hall as Project Manager for the

Liverpool Range Wind Farm. Brian brings a wealth of experience to the Epuron Team, having more than 20 years experience in the Australian and international energy industries.

Prior to joining Epuron in 2011, Brian held a number of senior roles in the renewable energy sector including head of Business Development in Australia with Meridian Energy and Director of Allco Wind Energy's global business. Brian was directly responsible for managing the development phase of the 420MW Macarthur Wind Farm in Victoria (largest in southern hemisphere at the time) that was committed to construction in 2010 under a Joint Venture with Meridian and AGL.

Please feel free to contact Brian if you have any queries or feedback regarding the Wind Farm.

Please send us your feedback

Write to us:



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Level 11, 75 Miller Street
North Sydney NSW 2060

Email or Internet:



b.hall@epuron.com.au
www.epuron.com.au

Phone us:



02 8456 7400



Consultation Plan

Epuron is a leading developer of wind farms in NSW and has a proven track record with four previous wind farm project applications already successfully approved. To date Epuron has achieved approval of the largest wind farm, the largest number of wind farms, and the largest number of wind turbines in NSW, making it one of the most experienced wind developers in Australia. As such Epuron considers community consultation and engagement with key stakeholders a vital part of the approval process and an important first step towards becoming a long term member of the community.

Recently Epuron has updated its corporate Consultation Framework for the development of wind farms. A project specific Consultation Plan has commenced for the Liverpool Range Wind Farm and incorporates the following high level objectives:

- Ensure the community is fully informed about the proposal, its likely impacts and benefits;
- Provide the community with sufficient notice and opportunity regarding upcoming events such as Open House days and exhibition periods;
- Provide multiple opportunities for dialogue and provision of feedback;
- Incorporation of feedback into the design where possible and demonstration where this has been achieved;
- Building positive trust based relationships with community and key stakeholders;
- Establish a Community Consultation Committee to actively engage with and provide a forum for wider community groups and Council to have their say.

The NSW Wind Farm Planning Guidelines are expected to be issued soon, and our Consultation Plan will be further refined and updated to reflect any additional requirements .

New “Sodar” Technology for Wind Measurement

To confirm the viability of wind projects in NSW, Epuron has established an extensive network of wind monitoring masts. Data from this network plus the onsite masts confirms that wind speeds are good at Liverpool Range Wind Farm and more than sufficient for a viable wind farm. As the Liverpool Range wind farm site is large and to get a better understanding of the wind speed variations in the area, Epuron is planning to utilise its new “Sodar” technology. Sodar stands for “Sound Detection and Ranging” and is a small ground-mounted unit that can capture all the information available from a conventional wind monitoring mast. The Sodar we are using is designed and made in Australia for Australian conditions.

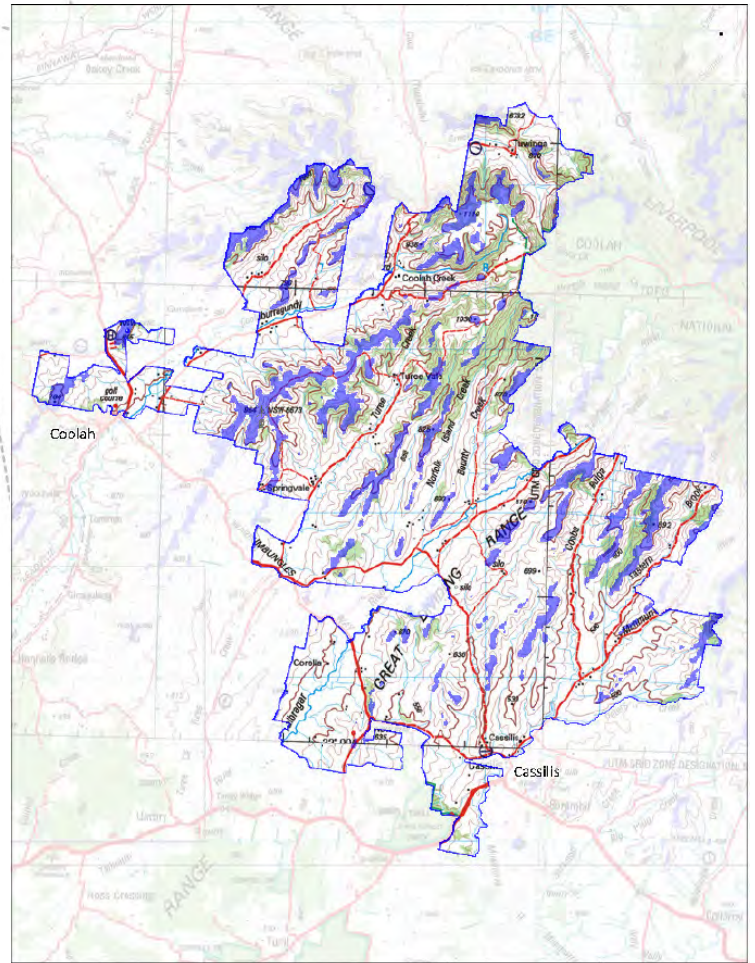


Figure 1. Preliminary Turbine Development Area



Figure 2. Epuron's new Sodar technology

Liverpool Range

Wind Farm

Project Update No 7 | May 2012

Latest News and Update

- The development team has been regularly visiting the area discussing the wind farm design and consulting with landowners. Please contact us if you would like to meet with a team member to discuss the project.
- Four new wind monitoring masts will be installed across the site in the coming months bringing the total number of monitoring masts to six.
- Powerline discussions with landowners and stakeholders are underway regarding the wind farms connection to the electricity grid near Ulan.
- Arrangements are underway to conduct a further environmental survey across the site in the upcoming spring/summer period following winter.
- A reminder that project details are available on our website at www.epuron.com.au and we welcome comments or feedback.

Community Consultation Committee

While project consultation has been underway for some time, Epuron is now seeking to establish a Community Consultation Committee (CCC) that will involve participation of the local community. The first meeting will be held in a few months and we look forward to you getting involved.

The purpose and objectives of the CCC are:

- 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; and,
- To formally advise potential community benefits that can be integrated into the proposal.

Membership of the CCC is targeted to include the following;

- An independent chairperson;
- A representative of the involved wind farm landowners;
- A representative of the non involved neighbouring landowners;
- Representation from key local stakeholder groups or associations;
- A representative from each of the local shire councils (Warrumbungle, Liverpool Plains, Upper Hunter and Mid-Western Regional); and
- Representatives from Epuron including the Project Manager.

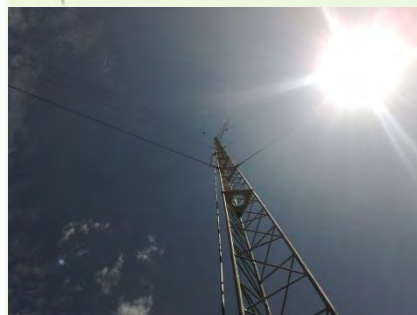
If you are interested in joining the CCC, please complete the Nomination Form enclosed and return to us. For further information on Epuron's Consultation Framework, please refer to details on our website at www.epuron.com.au/downloads.



High Quality Wind Resource on Site

The Liverpool Range site is located in a good wind resource area and the regular collection of wind data continues.

There are two existing wind monitoring masts that have been installed on the site for more than two years and analysis shows that favourable wind speeds exist for the development of a wind farm.



The wind monitoring masts and instruments are continually exposed to the harsh elements of our environment and must be inspected for wear. The masts are regularly checked and maintained by our in-house team of experts to make sure they remain in good operational condition.

Plans are underway to expand the wind monitoring program with four additional wind monitoring masts to be installed on site in the coming months.

Please send us your feedback

Write to us:

Liverpool Range Wind Farm
Level 11, 75 Miller Street
North Sydney NSW 2060

Email or Internet:

b.hall@epuron.com.au
www.epuron.com.au

Phone us:

02 8456 7400

Electricity Grid Connection

The proposed wind farm will involve the construction and operation of up to 550 wind turbines, together with associated control and maintenance buildings, civil works and electrical infrastructure. To deliver the renewable electricity to market it is necessary to connect into Transgrid's existing 330kV Wollar-Wellington transmission line located 30-40 kilometres south of the wind farm near Ulan Road.

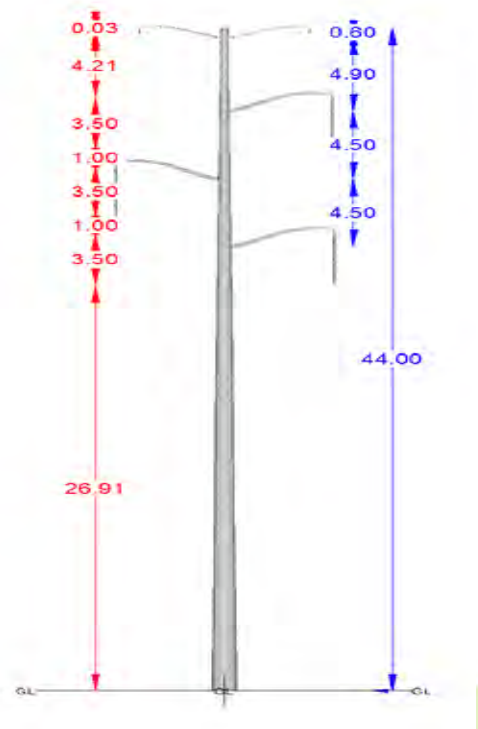
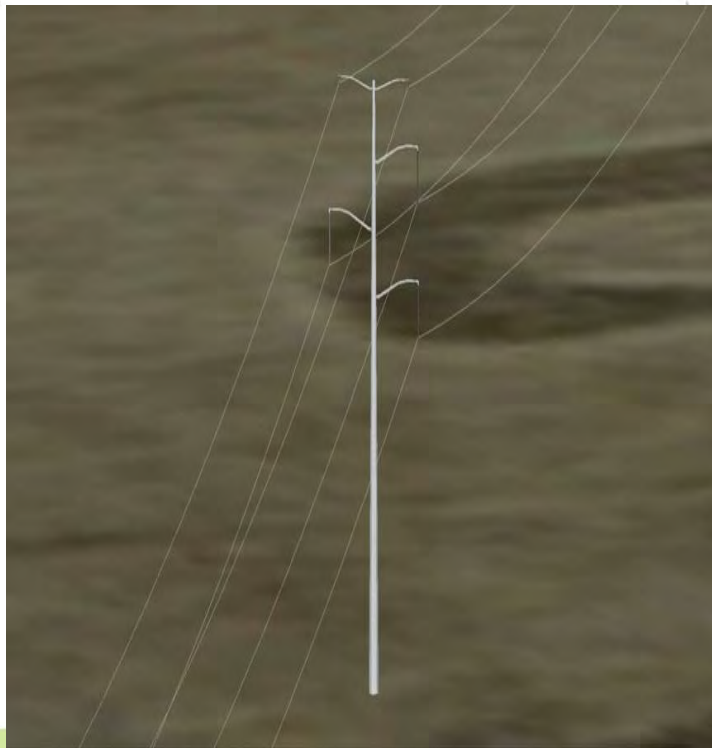
To connect to the transmission line, Epuron will need to construct a new powerline from the southern boundary of the wind farm and a new substation adjacent to the transmission line near Ulan. A number of powerline easement corridors are under assessment and the preferred route will be detailed in the final Environmental Assessment to be placed on public exhibition and assessed by the Department of Planning before a determination is made.

Epuron has engaged an electrical consultant to undertake a concept design of the preferred powerline using both steel towers and steel poles. As the Project proposes to connect to the existing transmission line, Epuron proposes to construct a new 330kV powerline including access tracks.

Powerline structures come in many designs however most are either a steel or concrete pole design or a steel lattice tower design. The type of design used may vary depending on the different ground conditions, carrying weights, strain angles and clearance requirements as well as local environmental conditions including local constraints (e.g. archaeological) and visual amenity.

Based on preliminary assessments, Epuron proposes to use a 330kV single circuit steel pole approximately 44 metres tall, an example of which is shown below. However, should further assessment determine that a single circuit steel pole is unsuitable for the Project, another structure that may be used is the double circuit steel pole which would be approximately 50 metres tall.

Epuron is currently meeting with landowners along the identified powerline route corridors to discuss the proposed powerline and the necessary easements required to construct the powerline and access tracks.



Figures. Illustration of proposed Single Circuit 330kV Steel Pole

Community Consultation Committee

Nomination Form

We are seeking nominations for members from the local community to join the Community Consultation Committee (CCC) for the Liverpool Range Wind Farm.

It is planned that the CCC will meet quarterly (or as otherwise required) at a local venue to be advised.

The purpose and objectives of the CCC are;

- 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; and,
- To formally advise potential community benefits that can be integrated into the proposal.

Nominees Role

Yes, I would like to nominate myself to join the CCC for the Liverpool Range Wind Farm in one of the following capacities.

Please tick the relevant box below.

- An independent chairperson
- A representative of the involved wind farm landowners
- A representative of the non involved neighbouring landowners
- Representation from key local stakeholder groups or associations (please provide details of group or association below)

Nominees Details

Name: _____

Address: _____

Phone: _____

Email: _____

Please provide reasons for your nomination: _____



Thank-You for your nomination

Should you require any further information please call us on **02 8456 7400**.

Please return this Nomination Form to:

Address:



Liverpool Range Wind Farm
Level 11, 75 Miller Street
North Sydney NSW 2060

Email or Internet:



b.hall@epuron.com.au
www.epuron.com.au

Liverpool Range Wind Farm

EPURON

Project Update No 8 | October 2012

Stage 1 Development fast-tracked

The NSW government has recently changed the planning legislation regarding *transitional Part 3A* projects, including the Liverpool Range Wind Farm. As a result, Epuron must now lodge the Environmental Assessment for the project by 30 November 2012, substantially earlier than the previous deadline of 31 October 2013. Although these changes were unforeseen and carried out without consultation, we intend to do everything possible to meet this new timeline.

As a result, Epuron is targeting a reduced part of the site ("Stage 1") which it is able to develop and submit in the timeframe available. Epuron is committed to developing further stages of the wind farm, and will update the community in due course regarding development of those stages.

While this is unfortunate for those involved landowners who cannot be included in Stage 1, the earlier approval of this initial stage should pave the way for development of further stages.

Community Open House

To outline the changes and the proposed development, Epuron will host an Open House information day for the local community:

WHERE: Cassilis Bowling Club
Mudgee Rd, Cassilis
WHEN: Thursday, 1st November 2012
TIMES: 2pm – 7pm

Please feel free to drop in anytime over the course of the day for a cup of tea and an informative chat with our project team. All are welcome.

Community Consultation Committee

Epuron is also in the process of establishing the Community Consultation Committee (CCC) for the project. Nomination forms were distributed with our last newsletter and are available on our website. We propose to hold the first CCC meeting in the coming month. If you are interested in joining the CCC, please return your nomination form to us as soon as possible.

Your feedback is important to us

In preparing an Environmental Assessment Epuron relies on the views of and feedback from all project stakeholders including the local community. Should you have any feedback or concerns please contact the development team and we will be pleased to assist with your enquiry.



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02 8456 7400

Specialist Studies and Field Surveys are Underway

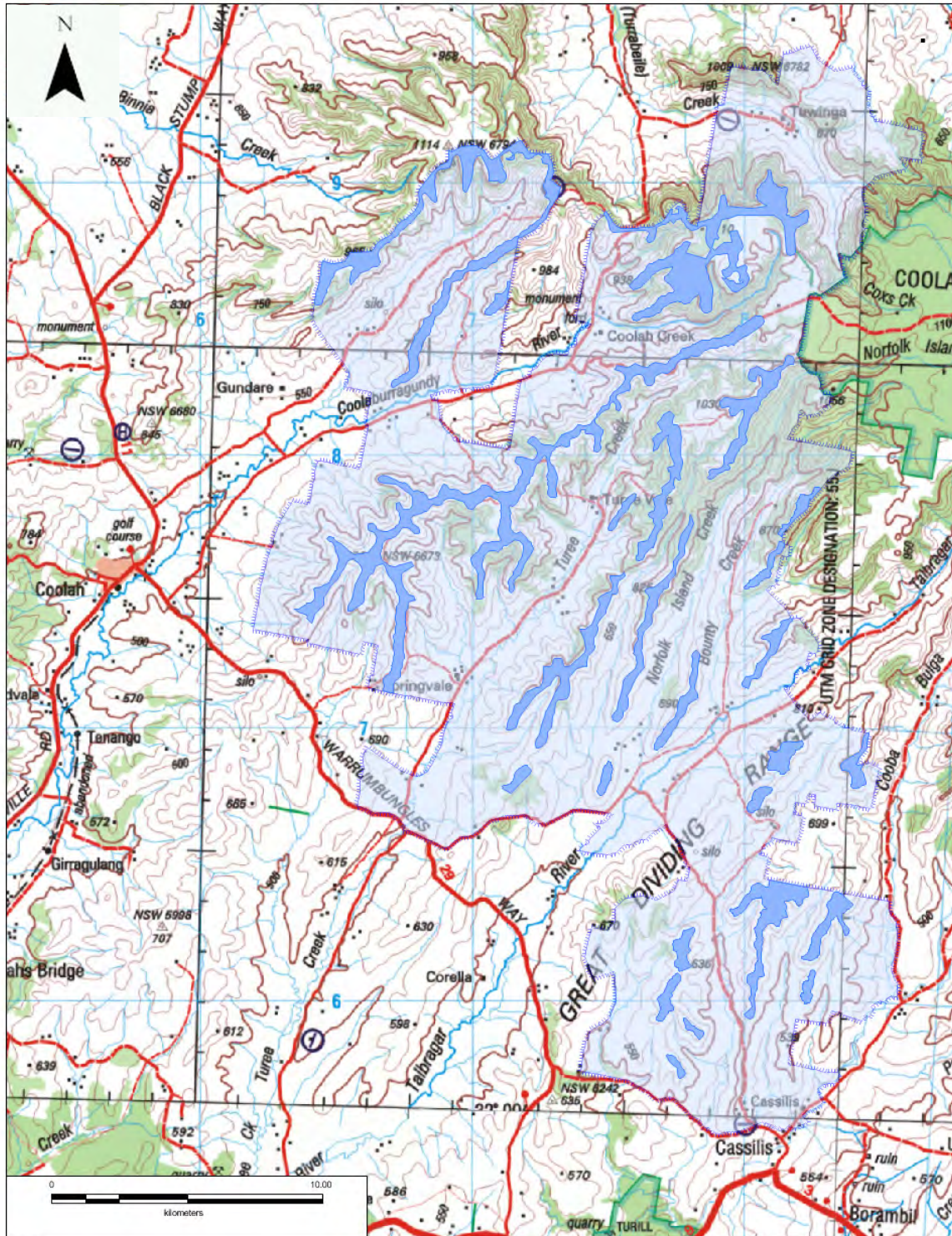
Epuron has commenced an intensive survey programme across the Stage 1 area of the wind farm site and the powerline corridor. Specialist studies will include:

- Biodiversity assessment including spring field surveys of flora and fauna.
- Archaeological and Heritage assessment including field surveys and consultation with local indigenous communities.
- Noise assessment including existing background noise measurements to guide the site layouts and ensure compliance with noise limits.
- Visual amenity impact assessment including the preparation of various photomontages at public locations and dwellings within 2km of a proposed turbine.

Other associated studies such as shadow flicker, aviation, communications, EMI, traffic and transport and economics are also underway.

Details will be progressively available for review and feedback during the community consultation phase.

Stage 1 Indicative Wind Farm Site Area



■ Wind Farm Indicative Project Area – Stage 1

■ Ridges along which wind turbines are proposed

Stage 1 Wind Farm Project

The first stage of the wind farm will involve the construction and operation of up to 400 turbines, together with associated infrastructure, maintenance buildings, civil works, access tracks, substations and overhead powerlines.

The Indicative Stage 1 Wind Farm Site Area shown on the previous page is currently under assessment for wind turbines. We welcome any comments and feedback you may have in this regard.

The proposed wind farm will connect into Transgrid's existing 330kV Wollar-Wellington transmission line located 30-40 kilometres south of the wind farm site near Ulan.

Development Progress

Over the last few months our development team has been busy progressing with landowner discussions, surveys and finalising access arrangements for the overhead powerline connection to the national grid located to the south of the wind farm site.

To assist with the design, four new wind monitoring masts are being progressively installed on the site. In addition, two new Fulcrum 3D Sodars have also been delivered and installed on site to enhance the wind monitoring program.

Ongoing consultation with involved landowners is continuing, including with landowners potentially involved in the various powerline connection routes under consideration.

Grid Connection

Epuron has investigated a range of grid connection options which have been limited by intervening national parks, long stretches of native vegetation and significant housing belts. Based on its exhaustive analysis, Epuron had determined that the only practical connection is to the existing 330kV Wollar-Wellington powerline near Ulan Coal Mine.

Over the last few months the development team has focussed on a range of options to connect the project at this location, including:

- An eastern corridor passing through the Durridgere State Conservation Area;
- A central corridor; and,
- A western corridor, both to the west of Ulan Rd.

It is proposed that these broad corridors meet and follow the general direction of Ulan road to a connection point near Ulan Coal Mine.

All three options shown on the map overleaf remain under consideration and Epuron is negotiating with a number of landowners to secure a powerline easement along these routes. It is likely that multiple options will be considered in the Environmental Assessment.



Project Team



Brian Hall is managing the development of the proposed wind farm, including site layouts and the Environmental

Assessment of the site. Brian brings a wealth of experience to the Epuron team, having more than 20 years experience in the Australian and international energy industries.



Sarah Squires is responsible for negotiation of the wind farm agreements and landowner consultation.

Sarah has over 10 years experience in corporate finance and corporate advisory, law, asset management and capital raising.

Please feel free to contact either Sarah or Brian if you have any queries or feedback regarding the wind farm.

Brian Hall: 0439 175 918

Sarah Squires: 0448 225 789

Powerline Corridor Investigation Area



■ Indicative powerline options

Liverpool Range

Wind Farm

EPURON

Project Update No 9 | May 2013

Project Highlights

- The Environmental Assessment (EA) for the Liverpool Range Wind Farm (LRWF) was submitted to the NSW Department of Planning & Infrastructure (DPI) for assessment just prior to Christmas. The EA is currently in the process of being reviewed for adequacy by DPI and is expected to be publicly exhibited in the coming months (dates to be advised).
- As a result of the environmental assessment process and ongoing community consultation, the wind farm turbine layout has recently been reviewed and optimised. Development continues on the powerline route. Refer further details below.
- The first LRWF Community Consultation Committee was held in February this year. Committee members were appointed following the earlier expressions of interest sought from the local community.
- Epuron is seeking feedback on the possible establishment of a community enhancement fund.

Environmental Assessment Submitted

The EA assesses the potential environmental impacts of the LRWF and highlights the associated key benefits of its development. The EA is being assessed by the DPI as a Major Project under Part 3A of the NSW Environmental Planning and Assessment Act 1979.

We believe the LRWF is generally supported by a majority of the local community and that the public exhibition of the EA will allow the community to continue to make informed decisions about the project. We would like to take this opportunity to thank the many stakeholders and community members who have contributed to the EA.

Revised Turbine Layout & Powerline Routes

As noted above, as a result of specialist studies forming part of the environmental assessment, adequacy review comments from the DPI, commercial considerations and ongoing community consultation, the LRWF turbine layout has recently been reviewed and optimised from 417 to 288 turbines. We **enclose** an updated layout.

Progress with securing a preferred and alternate powerline route is continuing successfully. Where possible, Epuron has accommodated community feedback into the design which has led to revisions of the original proposed routes. We **enclose** an updated map showing the revised routes.

Your feedback is important to us

The LRWF Environmental Assessment incorporates the views and feedback of project stakeholders including the local community. Please direct your feedback to the development team using the contact details below.



Liverpool Range Wind Farm
Level 11, 75 Miller Street
North Sydney NSW 2060



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02 8456 7400



Wind Farms, Sound & Health

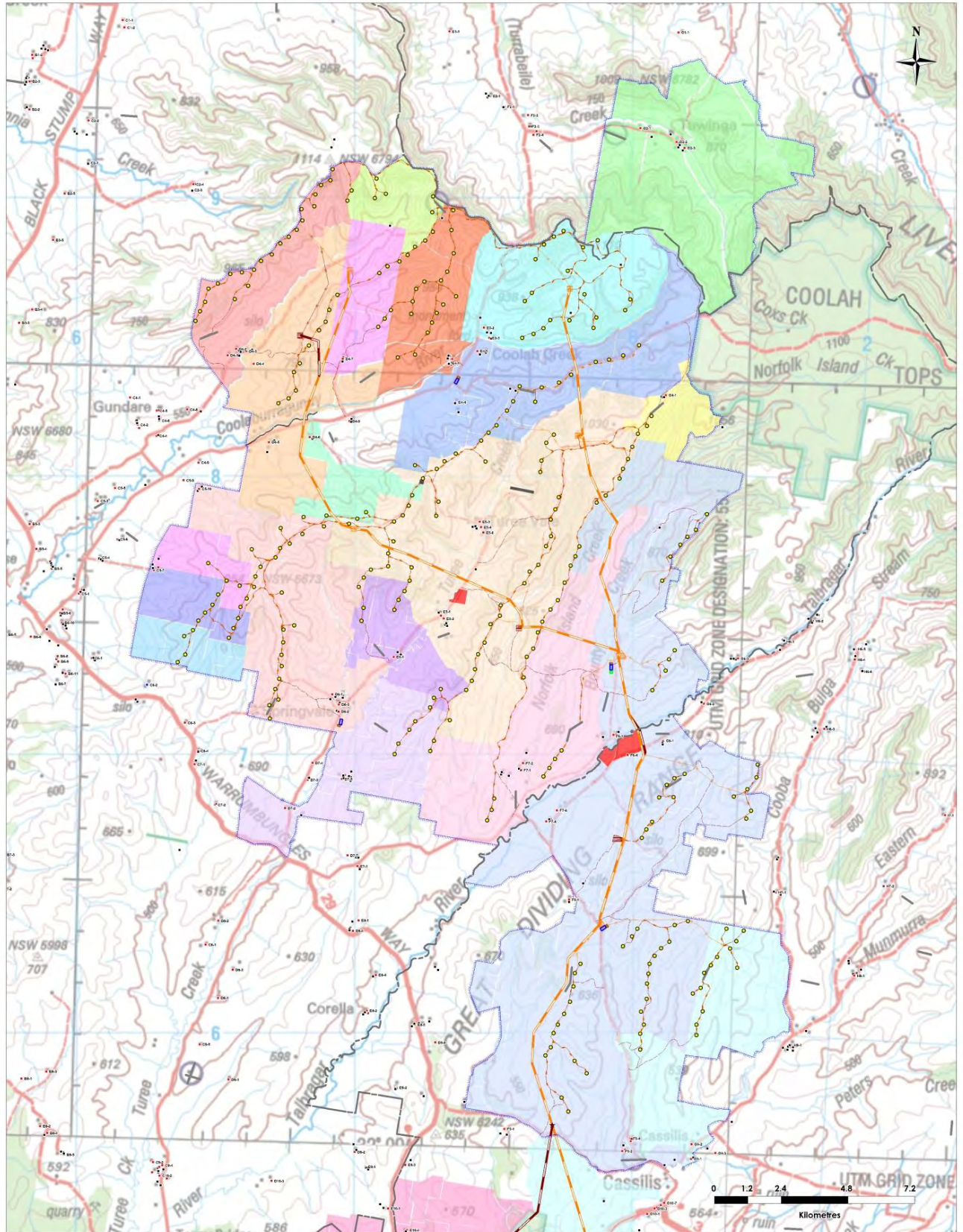
A recent report released by the Victorian Department of Health has found that the inaudible sound caused by wind farms, known as infrasound, is no worse than that from other rural and urban environments.

The Health Department review, assessed the evidence and found it does not support claims that inaudible sounds can have direct physiological effects.

The report says infrasound is generated by many sources, such as trains, breaking waves and airconditioners. The department found the evidence showed wind farms produced no more infrasound than the background level in other environments.

A copy of the report can be found on the departments website at www.health.vic.gov.au/.

Revised Wind Farm Layout



LEGEND

- Site boundary
- Proposed wind turbine
- Preferred overhead powerline
- Alternative overhead powerline
- Preferred substation location
- Alternative substation location
- Proposed access track
- Proposed underground reticulation
- Preferred overhead reticulation
- Alternative overhead reticulation
- Proposed operation & maintenance building
- Proposed construction compound
- Proposed batch plant location
- House
- House Unoccupied
- Other Building
- LGA Boundaries
- Coolah aerodrome
- Airstrip

EPURON

PROJECT

Liverpool Range
Wind Farm

TITLE

Project Layout 5b
& Landowners

SCALE	DATE	DRAWN
1:60,000 at A1	16/05/13	MK

Community Consultation Committee

The first meeting of the Liverpool Range Wind Farm Community Consultation Committee (CCC) was held in Coolah on Thursday 28 February 2013. The Draft NSW Wind Farm Planning Guidelines Wind Farms state.....“wind farm projects will typically require such committees to be established and operated during the assessment and operational phase as appropriate.....”. (these guidelines can be found on the Departments website at <http://www.planning.nsw.gov.au>). Requirements for the operation of the CCC are also included in the Draft Guidelines. A copy of the meeting presentation material and minutes of the meeting are available on the Epuron website at <http://www.epuron.com.au/project/liverpool-range/>

CCC members are:

- Independent Chair – Danielle Annells from Twyfords Consulting
- Upper Hunter Shire Council – Councillor Ron Campbell
- Warrumbungle Shire Council – Tony Meppem
- Liverpool Plains Shire Council - Donna Ausling
- Midwestern Regional Council - Catherine Van Laeren
- Involved landowner – Ant Martin
- Involved landowner – Anne Louise Capel
- Uninvolved landowner – Linda Gant
- Uninvolved landowner – Greg Piper
- Proponent – Brian Hall from Epuron
- Observer – Pauline Dunne from NSW OEH

There is an opportunity for representatives of other local community groups or stakeholders to join the committee. Expressions of interest should be directed to the Independent Chair, Danielle Annells at danielle@twyfords.com.au.

The CCC will be meeting on at least a quarterly basis. It welcomes suggestions and questions from the community which can be addressed to the Independent Chair directly or via a CCC member.

Community Enhancement Fund

Under the Part 3A planning process, in NSW, contributions from a project to a community enhancement fund are voluntary. As part of the ongoing consultation process for the project, Epuron is seeking feedback on how best to establish a community fund and to identify what type of local support is required from the project.

Each project should be assessed (by DPI) and determined specifically on its merits (and without being influenced by any promise of community or other funding). Epuron believes in the value of community contributions and believes that the final investor who funds the construction and operation of the project should engage with and support the local community, including through annual financial contributions to the community.

Epuron considers that the CCC, working with the developer and ultimate project owner, is ideally placed to help develop a community fund and its administration process. We are committed to an ongoing consultation process to determine an appropriate basis for the establishment of a community fund and welcome your feedback in this regard. Please direct your enquiries to the development team whose contact details are noted on the first page of this newsletter.



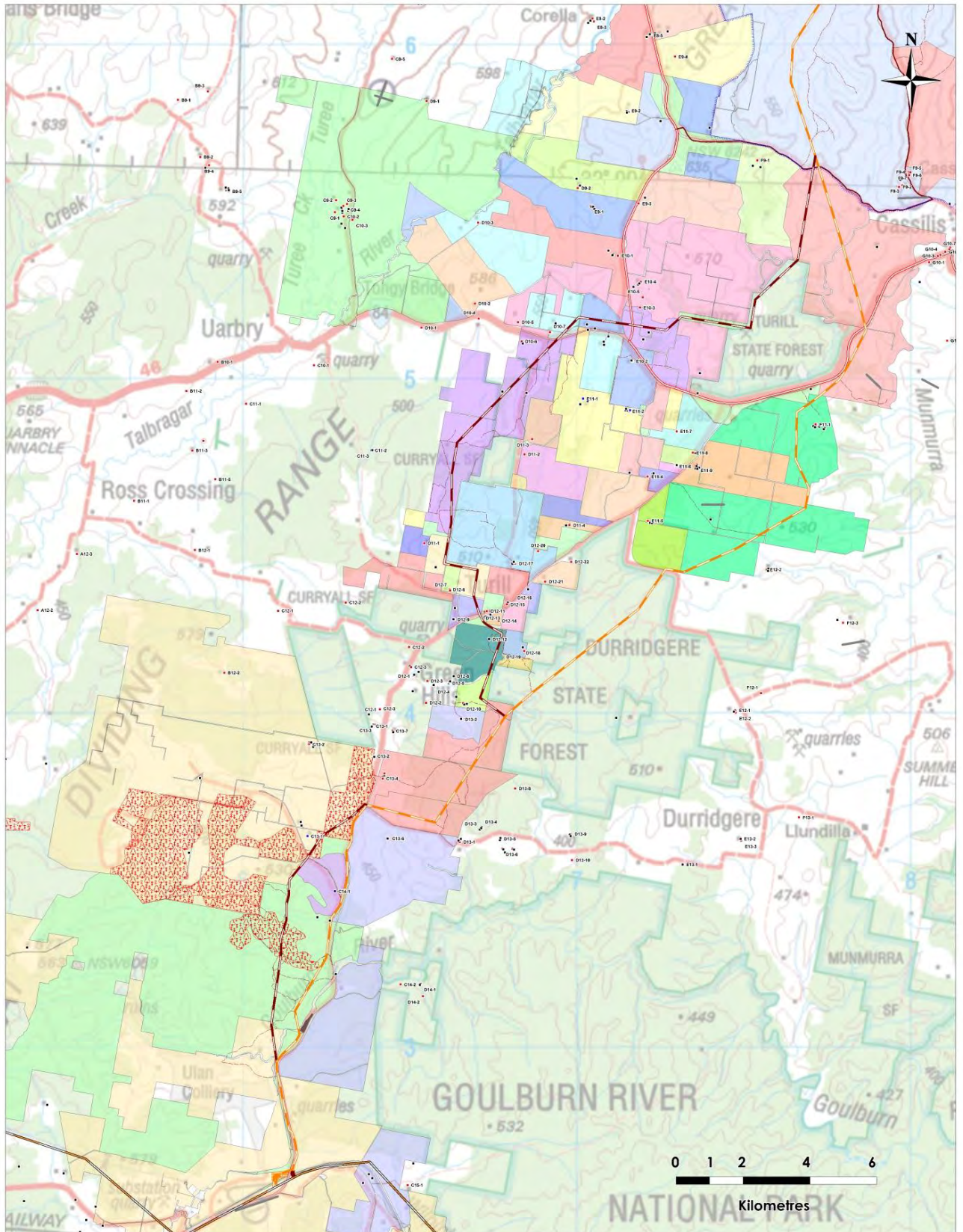
Wind farm access roads aid firefighters

During recent grass fires in South Australia started by lightning, it was revealed that a significant benefit was brought by the access roads built for a local wind farm.

“They were absolutely of great benefit in helping us fight the fires,” said the Snowtown Country Fire Service (CFS) Captain. “If it weren’t for the those roads, the fires, which were going at a fair rate of knots, would have just kept going. They acted as a natural fire break, giving us an edge to work back to and enabling us to back burn if we’d needed to. These new access roads provided an unexpected bonus, but they’ll help us control fires in the future.”

It was said that access tracks installed to build and maintain a wind farm increased the accessibility onsite and therefore had a positive impact on the response time and ability to fight fires onsite or on neighbouring properties.

Notably, in consultation with authorities including the NSW Rural Fire Service and NSW Fire Brigade, a bushfire management plan would be prepared for the LRWF prior to the commencement of construction.



LEGEND

- Site boundary
- Preferred overhead powerline option
- Alternative overhead powerline option
- Preferred substation
- Alternative substation
- Minor access road
- Major access road
- Proposed access track
- Airstrip
- Existing 330 kV transmission line
- House
- House Unoccupied
- Other Building
- Ulan Coal Mine Environmental Offset

EPURON

PROJECT
Liverpool Range Wind Farm

TITLE

Proposed & Alternative Overhead Powerline Options

SCALE	DATE	DRAWN
1:50,000 at A1	16/05/13	MK

Merry Christmas

Christmas Update | December 2013

Epuron would like to wish you and your family a very Merry Christmas and a Happy and Safe New Year. It has been a busy and action packed year on many fronts so we thought a brief update was in order.

The Renewable Energy Market

Epuron was established in response to John Howard's Renewable Energy Target ("RET") which was legislated in 2000. Since then the RET has proven to be an efficient mechanism to drive investment in the lowest priced renewable energy technology and bring jobs and investment to Australia – usually in regional and rural areas. In South Australia, where the installed capacity of wind energy is highest, the benefits of the RET can be seen most clearly in its downward impact on electricity prices.

Australian Electricity Market Operator (AEMO) stated in 2012 that South Australia pool prices were the lowest since the start of the National Electricity Market. AEMO data showed wholesale prices were half of the average during periods of wind and that the average wholesale price was 0.5c per kWh cheaper due to wind. The Essential Services Commission of South Australia stated that the cost of wind power added just 0.36c per kWh to an electricity bill or \$18 a year per household. This led to South Australian households being \$7 per year better off due to the high penetration of wind into the electricity market. This year's reports from AEMO show the story continuing with consistent price reduction in wholesale electricity prices resulting from wind generation.

Since its introduction the RET has enabled an increase in wind energy generation. Large-scale solar energy projects are expected to join the RET market in coming years as solar becomes cost-competitive. If allowed to continue on its trajectory the RET will continue the downward pressure on prices in other states.

The Government will conduct a review of the RET in 2014. It is clear that the RET should be maintained in its current form to ensure that renewable energy investments continue and solar and wind continue to place downward pressure on wholesale electricity prices. Until the review has been concluded, most investment in new solar and wind projects will be slowed down.

If you meet your local Member of Parliament over the holiday season, please remind them how important it is to continue the RET in its current form.



Excellence Awards

As a Renewable Energy company, Epuron is also the proud owner of four operating solar power Plants located in the Northern Territory. Three of these recently won two Engineering Excellence Awards from Engineers Australia.

The TKLN Renewable Energy Project was awarded winner for 2013 in the following categories:

- Australian Solar Council Awards for Sustainability
- Research Development and Innovation

Epuron's team of highly skilled engineers was represented by Martin Poole, and Alex Huggett and their partners, at an Awards night they attended alongside Power & Water Corporation (Remote Operations), in Canberra in November 2013.



TKLN Solar Power plant, Kalkarindji, NT



TKLN Solar Power Plant, Lake Nash, NT

Gullen Range Wind Farm under construction

The Gullen Range Wind Farm (GRWF) which was originally developed by Epuron and is now owned by Goldwind Australia, is currently under construction. Located approx 20km west of Goulburn, NSW, comprising 73 wind turbines, the project received planning approval in 2010. Goldwind as of Dec 31 2011 had an accumulated installation capacity of 12GW world wide, equivalent to 9.6 million tons of coal saved per year or 13.11 million cubic metres of newly planted forest.



Gullen Range Wind Farm during construction Sept 2013.



Do wind farms emit harmful sound waves?

No! The Victorian Civil and Administrative Tribunal (VCAT), postponed its decision on Infigen's Cherry Tree Wind Farm in Victoria until it had considered evidence on health related matters. The Waterloo wind farm had been blamed for a wide array of problems by some wind farm critics, who claimed wind farms produce a form of low frequency sound known as infrasound which they claim is dangerous to human health. Concerns varied ranging from headaches and flu-like symptoms.

To test if wind farms were responsible for producing harmful noise the SA EPA put in place noise and weather monitoring at locations at distances of 1.3km to 7.6km and a range of directions from the Waterloo Wind Farm over the period of April to June 2013 and asked residents to keep a diary documenting experience of disturbing noise and symptoms they believe were caused by the wind farm. As part of the study the wind farm was also shut off six times during wind conditions where it would normally produce power.

The SA EPA has concluded from the study that:

The Waterloo Wind Farm meets relevant South Australian and international standards and there is no evidence linking the noise from the wind farm to adverse impacts on residents.

The study found that:

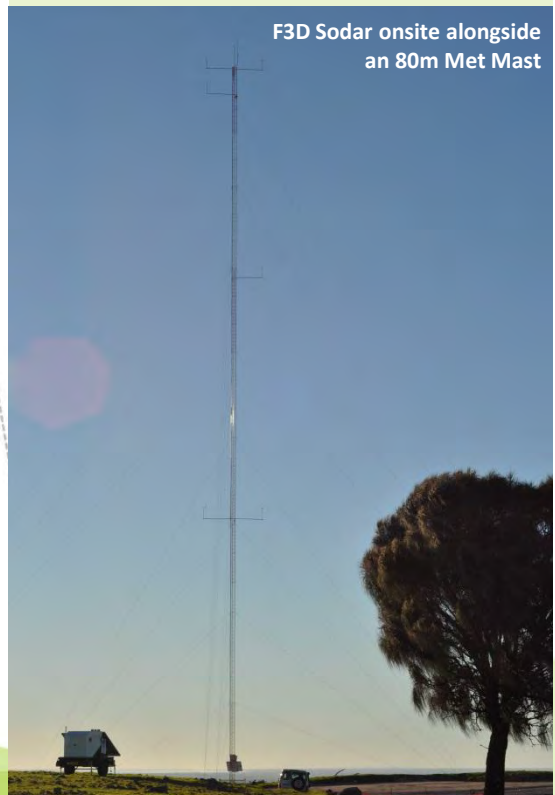
- Where detectable, the noise levels were compliant with the EPA's wind farm noise guidelines.
- While the wind farm did increase the level of low frequency sound under some conditions, it was found at levels "significantly below the accepted perception threshold of 85dB(G)".
- A barely perceptible 'rumbling' effect was found using resident diary records to focus the analysis. However, in many cases the EPA was unable to determine that described events could be attributed to the turbines; and at times reported events coincided with shutdowns of the plant.

The findings of the SA EPA contributed to the VCAT decision to approve the Cherry Tree Wind Farm.

Wind Monitoring

During 2013 Epuron installed a number of Fulcrum3D FS1 Sodars across various sites. The device uses sound pulses to measure the wind resource on the site (similar to a met mast) for the purpose of wind farm energy yield estimations.

The FS1 is currently undergoing an intensive validation process with independent engineers to facilitate its wider use in the renewable energy industry. So far the results are looking excellent.



F3D Sodar onsite alongside an 80m Met Mast

SUMMARY OF PROJECTS

Liverpool Range Wind Farm

It has been a productive year for development of the wind farm and finalising the environmental assessment. The local community continues to show their support for the project as evidenced by the 46 people who attended the Coolah/Cassilis Business Meeting in November. The meeting discussed the potential opportunities the project would offer the local community and how local businesses and employment will benefit from participation. We have been invited to hold a similar meeting in the new year for the Merriwa community and will advise further details in due course. In early 2014 we look forward to the governments public exhibition of the environmental assessment and would encourage the community to get behind the project and express their support. We will provide further details about the public exhibition process when dates are known.



View from Liverpool Ranges

Rye Park Wind Farm

Development of the wind farm has progressed positively during the year and we have just completed the spring/summer environmental survey across the project site. Results of the environmental survey will feed into the environmental assessment which we anticipate the government will publicly exhibit early in the new year. We will provide further details about the public exhibition process when dates are known. The community consultation committee established for the project has been actively meeting throughout the year. The CCC discussed matters about the wind farm and in particular the establishment of a community enhancement fund once the project reaches construction. Please let us, or the CCC, know if you have any ideas regarding the establishment of a fund for the project or where funding support may be required in the community.

Yass Valley Wind Farm

Development of the Yass Valley Wind Farm progressed well through 2013 and culminated in the submission of the revised Preferred Project and Submission Report to the Department of Planning and Infrastructure on the 18th

December. This is the final step in the development process before an assessment and determination is made by the Department. 2013 has also seen the creation of our Community Consultation Committee, which has met 6 times to discuss issues such as aviation, bush fire concerns, property values and the community enhancement fund.



View from 80m Mast of Yass Valley

EPURON



What human activities kill the most birds?

A new study released in November 2013 by Environment Canada titled '**A Synthesis of Human Related Avian Mortality in Canada**' looks at the ranking of human activities that kill birds. The results have the top nine killers as:

- Domestic & feral cats: 200 million
- Power lines, collisions and electrocutions: 25 million
- Collisions with houses or buildings: 25 million
- Vehicle collisions: 14 million
- Game bird hunting: 5 million
- Agricultural pesticides: 2.7 million
- Agricultural mowing: 2.2 million young birds to 1 million adults
- Commercial forestry: 1.4 million nests to 900,000 adult birds
- Communications towers: 220,000

Wind energy in Canada (with 7,000MW installed according to the Canadian Wind Energy Association) is at no. 19 (13,000) after tall buildings (34,000) and marine gill nets (18,000).

The total installed capacity of wind energy in Australia in April 2012 was 2,480MW. It is therefore highly likely that in Australia other activities, including agricultural practices, kill many more birds than wind turbines.

Christmas Hours

The Epuron office will be closed over the Christmas break from 5pm 24th December and will open again on 6th January 2014. For anything urgent please email on info@epuron.com.au