

Proposed Development of a 30MW Wind Farm on the Cullerin Range, Southern Tablelands, New South Wales



ATTACHMENTS

to the Environmental Assessment

prepared by



ATTACHMENTS

1 PLANNING ATTACHMENTS

- 1.1 Director General's Requirements (DGRs) for this proposal**

2 CONSULTATION

- 2.1 RTA: letter**
- 2.2 Invitations to open house**
- 2.3 Community feedback form**

3 KEY ISSUES

- 3.1 Visual assessment**
- 3.2 Noise assessment**
- 3.3 Aboriginal archaeology assessment**
- 3.4 Biodiversity assessment**
- 3.5 EPBC Matters of National Significance report**
- 3.6 Land value assessment**
- 3.7 Traffic and transport assessment**

1 PLANNING ATTACHMENTS

1.1 Director General's Requirements (DGRs) for this proposal



Contact: Rebecca Newman
Phone: (02) 9228 6340
Fax: (02) 9228 6355
Email: rebecca.newman@dipnr.nsw.gov.au

Our ref: 9041054
Your ref:

Mr Andrew Durran
Executive Director
Taurus Energy Pty Ltd
Suite 104, 349 Pacific Highway
NORTH SYDNEY NSW 2060

Dear Mr Durran

Proposed Cullerin Wind Farm, Upper Lachlan Shire

I refer to your correspondence of 5th December 2005 which requested the Director-General's requirements for the preparation of an Environmental Assessment for the above project.

The Director-General's Requirements are attached. The requirements have been developed in light of:

- the Department's draft guidelines "*Steps in the Part 3A Project Application Process*";
- the outcomes of the Planning Focus Meeting held on 10 November 2005; and
- the Project Application received from the Proponent.

The requirements have been prepared based on the information provided by **ngh**environmental, on behalf of Taurus Energy, in relation to the proposed project.

In respect of the Environmental Assessment to be submitted by Taurus Energy, the Department should be consulted at least one week prior to the lodgement of the Environmental Assessment to confirm the:

- consultation and public exhibition arrangements that will apply; and
- number and format (hard-copy or CD-ROM) of the Environmental Assessment that will be required.

The Environmental Assessment should focus on key issues associated with the likely environmental impacts of the project and associated mitigating measures and be compliant with the attached assessment requirements.

Once you have lodged the Environmental Assessment, the Department will consult with the relevant authorities to determine the adequacy of the Environmental Assessment. Following this review period, the Environmental Assessment will be made publicly available for a minimum period of 30 days.

You should keep the contact officer for this project, Rebecca Newman ((02) 9228 6340, rebecca.newman@dipnr.nsw.gov.au), up to date with the progress of preparation of the Environmental Assessment, and seek clarification of any issues that may be unclear or may arise during this process.

Yours sincerely

Yolande Stone
**A/Deputy Director General
as delegate for the Director General**

CULLERIN WIND FARM

ENVIRONMENTAL ASSESSMENT REQUIREMENTS UNDER PART 3A OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Project	<p>The proposal consists of:</p> <ul style="list-style-type: none"> ▪ up to 16 wind turbines with a total generating capacity of up to 30 megawatts; ▪ three-bladed turbines, up to 46m long, mounted on 60-80 m high towers (total height of 100-126m from ground to blade tip); ▪ a sub-station and transmission connection linking the wind turbines to the existing Country Energy 132kV transmission system located on site; ▪ underground and overhead cabling to connect the turbines; ▪ access roads around the site for installation and maintenance of wind turbines.
Site	<p>Approximately 30 km west of Goulburn off the Hume Highway consisting of various lots: Lots 58, 183, 186, 218 in DP 754110 owned by Marjorie Ryan; Lots 32, 53, 55, 56, 130, 131, 155, 159 in DP 754110; Lot 62 in DP 813660; Lot 1 in DP 918753; Lot 1 in DP 126132; Lot 13 in DP 68079 owned by Paul Hannan; Lots 135, 148 in DP 754110; Lots 214, 220 in DP 750031 owned by Peter Foley; Lots 189, 192, 193 in DP 754110 owned by Foley Holdings P/L.</p>
Proponent	Taurus Energy
Date of Issue	9 January 2006
Date of Expiration	9 January 2008
General Requirements	<p>The Environmental Assessment must be prepared to a high technical and scientific standard and must include:</p> <ul style="list-style-type: none"> • an executive summary; • a description of the proposal, including construction, operation, and staging; • an assessment of the environmental impacts of the project, with particular focus on the key assessment requirements specified below; • justification for undertaking the project with consideration of the benefits and impacts of the proposal; • a draft Statement of Commitments detailing measures for environmental mitigation, management and monitoring for the project; and • certification by the author of the Environment Assessment that the information contained in the Assessment is neither false nor misleading. <p>The Environmental Assessment should consider the following documents:</p> <ul style="list-style-type: none"> • Draft NSW Wind Energy EIA Guidelines, Planning NSW (2002); • Upper Lachlan Council's DCP on Wind Power Generation (2005).

<p>Key Assessment Requirements</p>	<p>The Environmental Assessment must include assessment of the following key issues:</p> <ul style="list-style-type: none"> • Project Justification – the Environmental Assessment must include a clear demonstration of quantified and substantiated greenhouse benefits, taking into account the proposal’s capacity factor and identification of sources of electricity that could be realistically replaced and the extent of the replacement. • Visual Impacts – comprehensive assessment of the landscape character/values of the affected areas and the visual impact of the proposal on this landscape and on the existing and approved residences, particularly within 2 km of the turbines. Consideration should be given to the Australian Wind Energy Association and Australian Council of National Trust’s draft issues paper <i>Wind Farms and Landscape Values</i>. <p>The assessment must also discuss/provide:</p> <ul style="list-style-type: none"> • impact of blade “flicker” and blade “glint” on existing and approved residences and road users (including road safety matters) within 2 km of the turbines; • “flicker vertigo” issues; • proposed mitigation measures, including screening, turbine layout and location; • photomontages of the proposal taken from strategic vantage points. <ul style="list-style-type: none"> • Flora and Fauna – the Environmental Assessment must address: <ul style="list-style-type: none"> • impact on critical habitats, threatened species, populations, ecological communities, and their habitats listed under the Threatened Species Conservation Act 1995 and the Fisheries Management Act 1997; • impact on birds and bats from strikes and alteration to movement patterns from the turbines and transmission lines. Assessment should consider the Australian Wind Energy Association’s publication <i>Assessing the Impacts on Birds – Protocols and Data Set Standards</i>. An outline of an adaptive management program should be provided; • vegetation clearing during construction and maintenance. <p>The threatened species assessment must generally be in accordance with the DEC’s <i>Guidelines for Threatened Species Assessment</i>. Where ecological offsets or compensation is proposed (eg compensatory habitat or rehabilitated areas), appropriate details of each offset option must be included in the Environmental Assessment, including implementation measures for each offset option.</p> • Archaeology/Cultural Heritage – the Environmental Assessment must address the potential impact on Aboriginal heritage values and items and must generally be in accordance with the DEC’s <i>Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation</i>. • Operational Noise – comprehensive assessment of the noise impacts associated with the proposal (including ‘infrasound’) to be undertaken in accordance with the DEC’s <i>Industrial Noise Policy</i> and <i>Wind Farms – Environmental Noise Guidelines</i>, South Australian Environment Protection Authority (February 2003). If any Noise Agreements with residents are proposed for areas where noise criteria cannot be met, sufficient information should be provided to enable a clear understanding of what has been agreed, and what criteria have been used to frame any Agreements. • Bushfire Risk – the Environmental Assessment must address the potential for wind turbines to start/influence the pattern of bushfires, and include bushfire management strategies and measures in consultation with the Rural Fire Service and the local council. • Traffic and Transport – the Environmental Assessment must: <ul style="list-style-type: none"> • identify transport routes to and from the project site, including details of any
---	--

	<p>proposed upgrading or construction of road/access to the site;</p> <ul style="list-style-type: none"> • assess the construction traffic impact of the project in terms of capacity and safety of these routes and potential damage. <ul style="list-style-type: none"> • Land Values/Development Potential – assessment of the potential impact of the wind farm on surrounding land values, including a prediction of expected land value changes as a result of the development in the short and long term. Any consequences for development of surrounding land. • Community consultation – strategy for community consultation to keep affected landowners and communities involved and informed about the project, including proposed measures to address community concerns. • Services and Infrastructure – assessment of potential impact on aircraft and telecommunications, roads, bridges, rail crossings and electricity infrastructure, in liaison with relevant authorities. In reference to aircraft, the assessment should consider the Civil Aviation Safety Authority Guidelines Draft Advisory Circular AC 139-18(0), December 2005, <i>Obstacle Marking and Lighting of Wind Farms</i>. • Proposed substation and grid connection – discussion of connection agreements/approvals by Country Energy, including ownership and management of the connecting transmission line following construction. The implications (statutory and technical) of any shared arrangement of the site substation between the proposal and Gunning Wind Farm must be addressed. • Cumulative impact – assessment of the cumulative effects of the proposal having regards to existing or other proposed wind energy facilities in the area. • Decommissioning – discussion of the envisaged lifespan of the project and the Proponent's commitment, arrangements and necessary approvals for removal of the wind turbines and associated infrastructure at the end of the project's life.
Consultation Requirements	<p>You must undertake an appropriate and justified level of consultation with the following parties during the preparation of the Environmental Assessment:</p> <ul style="list-style-type: none"> • NSW Department of Environment and Conservation; • NSW Roads and Traffic Authority; • Upper Lachlan Council; • Rural Fire Service; • Country Energy; • Department of Primary Industries; • Department of Natural Resources; • Civil Aviation Safety Authority; • Aerial Agricultural Association of Australia; and • the local community. <p>The Environmental Assessment must clearly indicate issues raised by stakeholders during consultation, and how those matters have been addressed in the Environmental Assessment.</p>
Deemed refusal period	<p>Under clause 8E(2) of the <i>Environmental Planning and Assessment Regulation 2000</i>, the applicable deemed refusal period is 120 days from the end of the proponent's environmental assessment period for the project.</p>

2 CONSULTATION

2.1 RTA: letter



Our Ref: 454DA28 05/2255

Contact: Chris Millet (4221 2570)

Your Ref:



19 DEC 2005

NGH Environmental
PO Box 470
BEGA NSW 2550

GOULBURN MULWAREE COUNCIL/UPPER LACHLAN COUNCIL – SH2, HUME HIGHWAY, PROPOSED WIND FARMS AT CULLERIN, EVANDALE AND CONROYS GAP

Dear Sir/Madam

I refer to your letter dated 25 October 2005 regarding the subject proposal forwarded to the RTA for consideration.

Cullerin and Evandale Wind Farms

The RTA requires a traffic impact study to be prepared for the Cullerin Wind Farm, Gunning and the Evandale Wind Farm, Goulburn. As a guide, Table 2.1 of the *RTA Guide to Traffic Generating Developments* outlines the key issues that may be considered in preparing a Traffic Impact Study.

In particular, the applicant should address the following issues:

- Proposed access arrangements identifying travel routes to and from the wind farms. It should be noted that the Hume Highway is a controlled access road and there are no RTA consented access points which allow direct access from Lots 20, 21 & 22 in DP 735248.
- Construction traffic impacts.
- An assessment of the road safety impacts associated with locating wind turbines adjacent to the road reserve including the impact of bright light flickering through the blades. The applicant should take into consideration similar existing wind farms.

Conroys Gap Wind Farm

The proposed wind farm at Conroys Gap, Yass is a matter to be assessed by our South West Regional Office and in this regard you should contact Ashish Tamhane on 6938 1148.

If you have any further questions please contact Chris Millet on 4221 2570.

Yours faithfully

for

Trish McClure
Manager, Road Safety and Traffic Management
Southern Operations and Services



2.2 Invitations to open house



CULLERIN RANGE WIND FARM

Community Update - November 2005

Background

This newsletter is to inform you of the wind farm project being investigated in the Cullerin Range area east of Gunning.

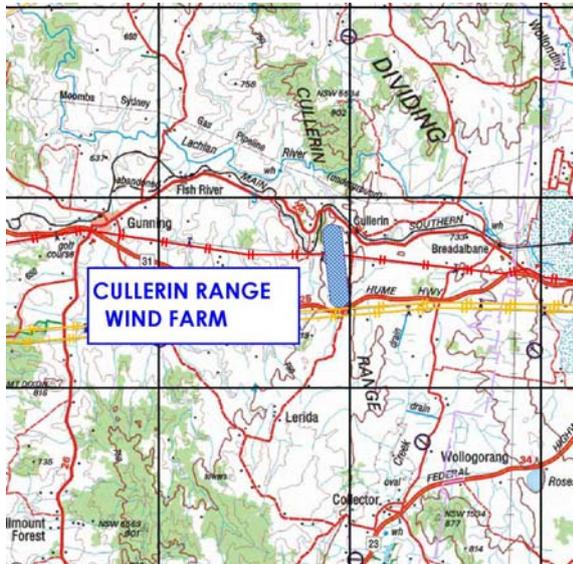
Wind monitoring commenced in the area in September 2005 and indicates that there is sufficient wind resource to develop a small to medium scale wind farm at the proposed site.

The **Cullerin Range Wind Farm** would contribute to the generation of renewable energy in NSW. It would reduce greenhouse gas emissions from existing coal fired power stations, and help to fix the shortfall in power generation capacity in the state. In an average year, it could supply renewable electricity for up to 10,000 average NSW homes..

Cullerin Range Wind Farm

Where would it be located?

Cullerin Range Wind Farm will be located around 12km east of Gunning on the Cullerin Range between the Hume Highway and Great Southern Railway.



Why a wind farm at Cullerin Range?

Cullerin Range has all the right conditions for a wind farm:

- ▶ High wind speeds, among highest in NSW
- ▶ Remote from neighbouring houses
- ▶ Existing powerlines on site
- ▶ Good road access
- ▶ Supportive local landowners

With careful planning, the wind farm can be built with positive impacts on the environment, and provide benefits to the local region.

What is proposed?

In a typical year the wind farm would be able to generate as much power as used in up to 10,000 average NSW homes.

This would involve:

- ▶ up to 16 wind turbines, each with three blades up to 46m long mounted on a tubular steel tower up to 80m high;
- ▶ electrical connections between turbines using a combination of underground cable and overhead concrete pole power lines;
- ▶ access roads around the site, and minor upgrades to access via Old Sydney Rd, for installation and maintenance of wind turbines;
- ▶ a substation linking the turbines to the existing Country Energy powerline located on site;
- ▶ an on-site control room and equipment storage facilities.

Cullerin Range Wind Farm will connect to the national electricity network, with electricity primarily sent towards Yass or Goulburn.

Who is proposing the wind farm?

The wind farm is being proposed by specialist wind farm developer **Taurus Energy Pty Ltd**. Taurus Energy focuses on appropriately sized wind farms in regional communities, and is currently investigating small wind farms in NSW at Snowy Plains, Evandale, Cullerin Range and Conroy's Gap.

nghenvironmental, based in south-eastern NSW, is assisting Taurus Energy in the wind farm planning, including the preparation of the Statement of Environmental Effects.



Benefits of wind energy

NSW needs more electricity generation to meet growing customer needs, and to avoid power outages and blackouts.

Wind energy provides:

- ▶ clean, renewable energy
- ▶ reduced use of fossil fuels (i.e. coal) for electricity generation
- ▶ as a result, better outcomes for the environment through reduced pollution and greenhouse gas emissions, factors which lead to global warming
- ▶ income and employment opportunities in regional NSW
- ▶ reliable, dependable electricity production

The Application process

What is the process?

Taurus Energy is currently preparing a Environmental Assessment to be lodged with the Development Application (DA) to the NSW Department of Planning (the consent authority).

Our plans for the site are not yet firm, and will be developed taking into account the results of specialist studies as well as the input from the local community.

What investigations are being undertaken?

The studies to be incorporated in the Environmental Assessment include:

- ▶ Biodiversity (flora and fauna)
- ▶ Heritage (European and Aboriginal)
- ▶ Visual Impacts
- ▶ Noise Impacts
- ▶ Telecommunications Impacts
- ▶ Other impacts

Indicative timeframe

Nov 05 - Jan 06	Specialist studies & site assessment Community consultation including two public Open-Houses for community input Government consultation
Feb 06 - Mar 06	Environmental Assessment complete Development Application lodged Public exhibition & final public comment
Mar 06 -	Assessment by Department of Planning
Dec 06 -	Proposed construction commencing during summer 2006

How can you find out more?

We will hold two open houses to discuss the project with the community, and of course you will have an opportunity to submit comments on the proposal to the Department of Planning.

At **first open house** in November Taurus Energy and ngenvironmental will be on hand to introduce the project and answer any questions, as well as to gain feedback from the community to help improve the proposal.

DATE: Thursday 17th November 2005
WHEN : between 2pm & 7pm, drop in any time
WHERE: Gunning Function Centre,
 18 Warrataw Street Gunning 2581

A **second open house** will be held in February to present results of specialist studies and receive final feedback prior to submitting our DA.

Project updates

This is the first project newsletter describing the status of the project. Updates will be available on our website www.taurusenergy.com.au or register for further updates below.

Media releases and advertising

Taurus will provide details of updates, open houses, and public exhibition periods to the local media, please watch your local papers.

Having your say on the project

Taurus Energy is keen to incorporate comments and feedback from the local community in planning the Cullerin Range Wind Farm.

Email us: CullerinRange@taurusenergy.com.au

Write to us: Cullerin Range Wind Farm
 c/o ngenvironmental
 PO Box 470
 BEGA NSW 2550

Fax us: Cullerin Range Wind Farm
 Fax 02 6494 7773

Phone us: ngenvironmental
 Contact: Brooke Marshall
 Ph 02 6494 7771
 Taurus Energy
 Contact: Anthony Micallef
 Ph 02 9922 7771

Register on our database

If you would like to be kept up to date on the project, provide us your name, address, contact phone number, and email address via one of the methods above and we will contact you as new updates are available.



CULLERIN RANGE WIND FARM

Community Update - February 2006

Background

The **Cullerin Range Wind Farm** would contribute to the generation of renewable energy in NSW. It would reduce greenhouse gas emissions from existing coal fired power stations, and help to fix the shortfall in power generation capacity in the state. In an average year, it could supply clean renewable electricity for up to 12,000 average NSW homes, and reduce greenhouse gas emission in NSW by up to 9,500 tonnes per annum.

This newsletter updates you of the **Cullerin Range Wind Farm** proposal. A Community Update released in November 2005 gave background to the proposal, a copy is available from Taurus Energy on request.

The first public Open House held in Gunning on 17th November was well attended, with around 50 local residents providing feedback which is being incorporated into the proposal. Public consultation and specialist studies continued through December 2005 and January 2006.

Detailed studies of biodiversity (flora & fauna), heritage (European & Aboriginal), visual impacts and noise impacts have been largely completed, resulting in various changes to the proposal as discussed below. These studies will be available for public viewing on our website and at the next Open House.

Taurus Energy is now seeking further input to the proposal before lodging a Development Application with the NSW Department of Planning in March 2006.

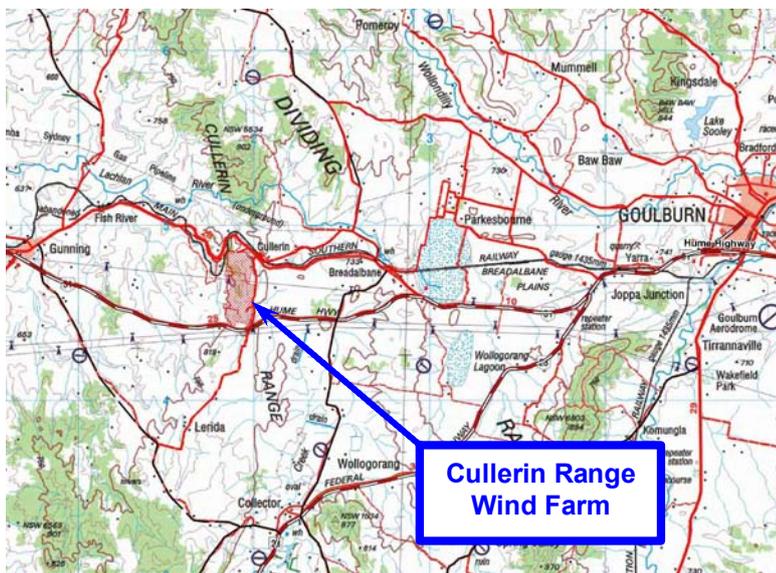
Cullerin Range Wind Farm



Figure 1 - Photomontage of proposed Cullerin Range Wind Farm, looking south-east from Cullerin Rd near "Mt Pleasant"

Where would it be located?

The wind farm will be located ~12km east of Gunning on the Cullerin Range north of the Hume Hwy.



Why at the Cullerin Range?

The Cullerin Range is one of only a handful of locations which has all the right conditions for a wind farm:

- ▶ wind speeds near the highest in NSW
- ▶ high clean energy potential
- ▶ remote from neighbouring houses
- ▶ existing powerline on site
- ▶ excellent road access
- ▶ interested local landowners

With careful planning, the wind farm can be built with positive impacts on the environment, and provide benefits to the local region.

The wind farm will be able to produce enough clean, renewable electricity for 10,000 to 12,000 homes.



Details of the proposal

What is proposed?

- ▶ up to 15 wind turbines, each with three blades up to 46m long mounted on a tubular steel tower up to 80m high;
- ▶ electrical connections between turbines generally using underground cable;
- ▶ access roads around the site, and minor upgrades to access via Lerida Rd Nth and Old Sydney Rd;
- ▶ a substation linking the turbines to the existing Country Energy powerline located on site, including an on-site control room and equipment storage facility.

Cullerin Range Wind Farm will connect to the national electricity network, with electricity primarily sent towards Yass or Goulburn.

Are we being listened to?

The proposal has been revised based on community feedback and results of site studies:

- ▶ Road access will now be concentrated along Lerida Rd (North) to minimize traffic through Breadalbane and Cullerin Rd.
- ▶ Three turbine placements at the northern end of the site have been relocated to the southern end of the site to minimize impacts on houses near Cullerin Rd. One turbine has been removed from the proposal.
- ▶ Taurus will (at its cost) provide surrounding residents with acoustic treatments and visual screening where the resident believes that they are being heavily impacted by the wind farm once it is operating.
- ▶ Taurus is considering ways to spread benefits more widely in the local community, and will allocate funds annually from the project for community initiatives in the area such as sporting and community facilities, weed and pest management and land care funding.

Indicative timeframe

Nov 05 - Jan 06	Specialist studies & site assessment completed Government & Community consultation including 1st public Open-House
Feb 06 - Mar 06	2 nd public Open House presenting results of the studies and final proposal Environmental Assessment Report completed Development Application lodged
Mar 06 -	Public exhibition & final public comment Assessment by Department of Planning
2007	Proposed construction commencing mid 2007

How can you find out more?

What is the process?

Taurus Energy is now finalising its proposal for submission to NSW Department of Planning in March 2006.

Once submitted, the Development Application and Environmental Assessment Report will be put on public display for minimum of 30 days.

The Department of Planning and Taurus Energy will then consider any public submissions prior to the Department determining the Development Application.

Open House – 28th February 2006

Taurus Energy is holding a second open house in Gunning to present the proposal and answer any questions. Presentations and displays will focus on noise and visual aspects, with photomontages showing what the wind farm would look like from various locations.

DATE: Tuesday 28th February 2006
WHEN : between 3pm & 7pm, drop in any time
WHERE: Shire Hall, Copeland St, Gunning

Project updates – register interest

Updates will be available on our website www.taurusenergy.com.au or register for further updates below. We will alert the local media as well, so please watch your local papers.

Copies of the specialist reports will be available on our website around a week before the Open House, or if you contact us directly we can send a CD including the reports. Paper copies will be available for viewing at the Open House.

Having your say on the project

Taurus Energy is keen to continue incorporating comments and feedback from the community in planning the Cullerin Range Wind Farm.

Email us: CullerinRange@taurusenergy.com.au

Write to us: Cullerin Range Wind Farm
 c/o nghenvironmental
 PO Box 470
 BEGA NSW 2550

Fax us: Cullerin Range Wind Farm
 Fax 02 6494 7773

Phone us: nghenvironmental
 Contact: Brooke Marshall
 Ph 02 6494 7771

Taurus Energy
 Contact: Anthony Micallef
 Ph 02 9922 7771

2.3 Community feedback form

Community feed back form for landscape values.



You can help us understand the impact of the proposed Cullerin wind farm on the scenic values of the area by taking a few minutes to fill out this form. The results will be collated and used in the assessment of the proposed wind farm.

Please be as specific as possible with your feedback; attach another sheet if you need more space. We are interested here in finding out what you think about the local landscape character of the area, what you value in the area, what you think about wind farms and as well what your interest is in the area.

1. Where would you take some one to show them a good view of your local area (list as many places as you can think of).

.....
.....
.....

2. What do you value the most about the local area:

- Views
- Cultural landscape
- Recreation opportunities
- Work
- Other

3. What is your interest in the local area (please provide details)

- Agriculture: commercial or hobby farm (please circle one)
- Recreation / tourism:
- Live nearby:.....
- Work nearby.....
- Other.....

4. Which statements describes you (tick all those that apply)

- I am a landowner on whose property the wind farm may be located
- I would see the wind farm from my house
- I would see the wind farm from my property
- I am a resident of the area in which the wind farm may be located
- I would see the wind farm from a place of recreation. Where from?.....

5. If you have concerns about this wind farm, what aspect would have the biggest impact on you?

.....
.....
.....

6. What do you like about wind farms, in general?

.....
.....
.....

7. What do you dislike about wind farms, in general?

.....
.....
.....

Community feed back form for landscape values.



8. Do the following issues concern you?
Please provide as much detail about your concerns as you can.

a. Environmental issues:

.....
.....
.....

b. Visual issues:

.....
.....
.....

c. Heritage issues:

.....
.....
.....

d. Noise issues:

.....
.....
.....

e. Recreation issues:

.....
.....
.....

f. Health issues:

.....
.....
.....

g. Other issues:

.....
.....
.....

About you: this section is optional however, adding your name and the **general area where you live** would add credibility to the survey and improve its effectiveness.

Name.....
Address.....
Phone.....

I would like to be contacted by the proponents of the wind farm with further information about its assessment and development.

Please attach further comments on a separate sheet or send further correspondence to:
Brooke Marshall, **ngh**environmental, PO Box 470, Bega, NSW 2550.
(Tear along dashed line to retain address, below).

3 KEY ISSUES

3.1 Visual assessment

3.2 Noise assessment

3.3 Aboriginal archaeology assessment

Note: this report refers to potential for a 'secondary substation location'. This no longer forms part of the proposal. The substation would be located near the ridge, onsite, as outlined in the EA.

3.4 Biodiversity assessment

3.5 EPBC Matters of National Significance report

EPBC Matters of National Significance report

Automatically generated using the DEH Matters of National Significance search tool.

EPBC Act Protected Matters Report

3 January 2006 17:21

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Information on the coverage of this report and qualifications on data supporting this report are contained in the [caveat](#) at the end of the report.

You may wish to print this report for reference before moving to other pages or websites.

The Australian Natural Resources Atlas at <http://www.environment.gov.au/atlas> may provide further environmental information relevant to your selected area. Information about the EPBC Act including significance guidelines, forms and application process details can be found at <http://www.deh.gov.au/epbc/assessmentsapprovals/index.html>

Search Type:	Point
Buffer:	30 km
Coordinates:	-34.799,149.3926
Report Contents:	Summary Details Matters of NES Other matters protected by the EPBC Act Extra Information Caveat Acknowledgments

Summary

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance - see <http://www.deh.gov.au/epbc/assessmentsapprovals/guidelines/index.html>.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Significance: (Ramsar Sites)	1
Commonwealth Marine Areas:	None
Threatened Ecological Communities:	2
Threatened Species:	16
Migratory Species:	6

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at <http://www.deh.gov.au/heritage/index.html>.

Please note that the current dataset on Commonwealth land is not complete. Further information on Commonwealth land would need to be obtained from relevant sources including Commonwealth agencies, local agencies, and land tenure maps.

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species. Information on EPBC Act permit requirements and application forms can be found at <http://www.deh.gov.au/epbc/permits/index.html>.

Commonwealth Lands:	2
Commonwealth Heritage Places:	None
Places on the RNE:	7
Listed Marine Species:	10
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves:	None
Extra Information	
This part of the report provides information that may also be relevant to the area you have nominated.	
State and Territory Reserves:	None
Other Commonwealth Reserves:	None
Regional Forest Agreements:	None

Details

Wetlands of International Significance (Ramsar Sites)

[FIVEBOUGH AND TUCKERBIL SWAMPS](#)

Within same catchment as Ramsar site

Threatened Ecological Communities	Status	Type of Presence
Grassy White Box Woodlands	Endangered	Community may occur within area
Natural Temperate Grassland of the Southern Tablelands of NSW and the Australian Capital Territory	Endangered	Species or species habitat likely to occur within area

Threatened Species	Status	Type of Presence
Birds		
Lathamus discolor * Swift Parrot	Endangered	Species or species habitat may occur within area
Polytelis swainsonii * Superb Parrot	Vulnerable	Species or species habitat likely to occur within area
Rostratula australis * Australian Painted Snipe	Vulnerable	Species or species habitat may occur within area
Xanthomyza phrygia * Regent Honeyeater	Endangered	Species or species habitat likely to occur within area
Fishes		
Maccullochella peellii peellii * Murray Cod, Cod, Goodoo	Vulnerable	Species or species habitat may occur within area
Macquaria australasica * Macquarie Perch	Endangered	Species or species habitat may occur within area
Prototroctes maraena * Australian Grayling	Vulnerable	Species or species habitat likely to occur within area
Frogs		
Litoria castanea * Yellow-spotted Tree Frog, Yellow-spotted Bell Frog	Endangered	Species or species habitat likely to occur within area
Insects		
Synemon plana * Golden Sun Moth	Critically Endangered	Species or species habitat likely to occur within area
Mammals		
Dasyurus maculatus maculatus (SE mainland population) * Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population)	Endangered	Species or species habitat likely to occur within area
Reptiles		
Aprasia parapulchella * Pink-tailed Worm-lizard	Vulnerable	Species or species habitat likely to occur within area
Delma impar * Striped Legless Lizard	Vulnerable	Species or species habitat likely to occur within area

Plants

Ammobium craspedioides * Yass Daisy	Vulnerable	Species or species habitat likely to occur within area
Diuris aequalis * Buttercup Doubletail	Vulnerable	Species or species habitat likely to occur within area
Rutidosis leptorrhynchoides * Button Wrinklewort	Endangered	Species or species habitat likely to occur within area
Thesium australe * Austral Toadflax, Toadflax	Vulnerable	Species or species habitat likely to occur within area

Migratory Species	Status	Type of Presence
-------------------	--------	------------------

Migratory Terrestrial Species

Birds

Haliaeetus leucogaster White-bellied Sea-Eagle	Migratory	Species or species habitat likely to occur within area
Hirundapus caudacutus White-throated Needletail	Migratory	Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher	Migratory	Breeding likely to occur within area
Xanthomyza phrygia Regent Honeyeater	Migratory	Species or species habitat likely to occur within area

Migratory Wetland Species

Birds

Gallinago hardwickii Latham's Snipe, Japanese Snipe	Migratory	Species or species habitat may occur within area
Rostratula benghalensis s. lat. Painted Snipe	Migratory	Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species	Status	Type of Presence
-----------------------	--------	------------------

Birds

Apus pacificus Fork-tailed Swift	Listed - overfly marine area	Species or species habitat may occur within area
Ardea alba Great Egret, White Egret	Listed - overfly marine area	Species or species habitat may occur within area
Ardea ibis Cattle Egret	Listed - overfly marine area	Species or species habitat may occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe	Listed - overfly marine area	Species or species habitat may occur within area
Haliaeetus leucogaster	Listed	Species or species habitat likely to occur

White-bellied Sea-Eagle		within area
Hirundapus caudacutus White-throated Needletail	Listed - overfly marine area	Species or species habitat may occur within area
Lathamus discolor Swift Parrot	Listed - overfly marine area	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater	Listed - overfly marine area	Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher	Listed - overfly marine area	Breeding likely to occur within area
Rostratula benghalensis s. lat. Painted Snipe	Listed - overfly marine area	Species or species habitat may occur within area

Commonwealth Lands

Communications, Information
Technology and the Arts -
Telstra Corporation Limited

Transport and Regional
Services - Airservices Australia

Places on the RNE

Note that not all Indigenous sites may be listed.

Historic

[Collingwood Homestead NSW](#)

[Frankfield Homestead Group NSW](#)

[St James Chapel on Kippilaw NSW](#)

[Tirranna, Garden, Farm Complex and Cemetery, NSW](#)

[Wollogorang Garden NSW](#)

Natural

[Fossil Leaf Beds Specimen NSW](#)

[Lake George Quaternary Site NSW](#)

3.6 Land value assessment

3.7 Traffic and transport assessment