

Appendix C Consultation Material



Marulan Gas Turbine Facility

Environmental Assessment

PROJECT APPLICATION

VOLUME 2

APPENDICES

August 2008

GAS TURBINE FACILITIES

PROPOSED FOR MARULAN AREA



EnergyAustralia and Delta Electricity
Gas Turbine Facilities
Joint Newsletter No.1 – January 2008

EnergyAustralia and Delta Electricity Gas Turbine Facilities

Background

In May 2006, Delta Electricity advised the local community of its proposal to assess the suitability of two sites for a gas turbine facility in the Marulan area to help meet growing electricity needs in New South Wales. These sites were at Big Hill, approximately 20 km west of Marulan, and a second site adjacent to the existing Marulan Switchyard, near Brayton.

As a result of a number of technical studies completed since May 2006, Delta Electricity has now determined that it will seek project approval from the Minister for Planning to build a gas turbine facility on the site near the Marulan high voltage switchyard.

In a further development that was not known at the time of the first community newsletter, this land will now be subdivided into two lots with one owned by Delta Electricity and the other by EnergyAustralia. Delta Electricity and EnergyAustralia are now proposing to seek project approval to construct two separate gas turbine facilities, side by side on the site adjacent to the existing Marulan Switchyard, near Brayton.

The Proponents

Delta Electricity is a NSW State Government owned corporation and is the second largest generator in the National Electricity Market supplying 30% of demand in NSW.

Delta Electricity is recognised as supplying electricity safely and efficiently and adopting sound environmental management practices.

EnergyAustralia is a NSW State Government owned corporation, which operates the largest electricity network in Australia supplying electricity to more than three million people.

Delta Electricity and EnergyAustralia are committed to providing regular, accurate and up to date information about this proposal.

What is a Gas Turbine Facility?

The facilities proposed at Marulan consist of a gas turbine facility to be constructed by Delta Electricity in two stages and a gas turbine facility constructed by EnergyAustralia. Both the EnergyAustralia proposal and the first stage of the Delta Electricity facility are known as "peaking facilities" as they supply power to the electricity grid during times of peak electricity demand such as very hot days or cold nights.

Delta Electricity will also be seeking approval to convert its peaking facility to combined cycle generation as required to supply intermediate / base load electricity. Depending on the growth in electricity demand Delta Electricity may progress with the construction and operation of the combined cycle plant without proceeding through the two stages as outlined below.



Source: Delta Electricity, EnergyAustralia

*Map compiled using Mapinfo StreetPro (and CadastralPlus) © 2005 and PSMA Australia Ltd. URS Australia, Mapinfo Australia, or PSMA do not warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that these three companies shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. This drawing is subject to COPYRIGHT. It remains the property of URS Australia Pty Ltd.

What are the main components of this proposal?

The two stages of Delta Electricity's gas turbine proposal are:

- **STAGE 1** – two open cycle gas turbines (~250-350 megawatt capacity in total) designed to supply power to the main electricity grid during times of peak electricity demand.
- **STAGE 2** – when required, the conversion of the two open cycle turbines to combined cycle configuration (~400-450 megawatt capacity in total) to supply intermediate / base load electricity.

EnergyAustralia's gas turbine facility would be developed in one stage only:

- The facility would comprise two open cycle gas turbines (~350 megawatt capacity in total) designed to supply power to the main electricity grid during times of peak electricity demand.

The main components of both the Delta Electricity and EnergyAustralia facilities would consist of two gas turbines, each with a stack of approximately 40m and 30m in height, respectively, with ancillary plant and control buildings.

The plant area required for each facility is around 250m x 300m. As well as this area, the facilities require other infrastructure including:

- connection to the adjacent TransGrid switchyard (see aerial map);
- an access road into the site from Canyonleigh Road; and
- an area used during construction for equipment and supplies known as a laydown area.

Gas Pipeline

The proposed facilities would also include a single shared gas supply pipeline connecting to the Moomba to Sydney gas pipeline.

At this stage, the location of the connection to the gas main and a preferred route for the gas delivery pipeline has not been determined. Delta Electricity and EnergyAustralia are currently considering route options for the gas pipeline within a corridor of land, with further studies and assessment underway. Local landholders who may be affected by the gas pipeline corridor will be contacted as part of the consultation process.

Once a preferred route for the gas pipeline has been determined, easements or other appropriate rights of tenure will be negotiated with landowners.

What has to happen before the development proceeds?

To manage and minimise the impact of the proposal on the locality, Delta Electricity and EnergyAustralia are carrying out a range of environmental investigations, in accordance with relevant standards and planning requirements.

Delta Electricity and EnergyAustralia submitted an application to the NSW Department of Planning for the proposed facilities to be considered as a major project, for the purpose of environmental assessment and approval. This request was granted on 8 October 2007. This means that the proposals will be subject to the provisions of Part 3A of the Environmental Planning and Assessment Act 1979.

Environmental Assessment

The Environmental Assessments required for the facilities will address the environmental aspects of the two facilities individually, as well as their cumulative impacts. Measures to mitigate the impact of the operation of the facilities on the local social and ecological environment will be identified as part of the specialist studies conducted for the environmental assessment.

Specialist studies to be undertaken as part of the environmental assessment include the following:

Water – a detailed assessment of potential water quality and flooding issues is being carried out for the site.

Air quality – air emissions from the proposed facilities will be water vapour and emissions from gas combustion. An environmental assessment being carried out, including computer modelling, will examine the dispersion of all emissions from the facilities.

Noise and vibration – a detailed investigation is being undertaken to identify and assess potential changes in noise and vibration levels in the surrounding area.

Flora and fauna – the Marulan site contains a mosaic of cleared pasture, native woodlands and riparian and aquatic ecosystems that are associated with the Wollondilly River. A detailed flora and fauna study is being carried out as part of the environmental assessment.

Visual – the extent and nature of any potential visual impact of the proposed facilities on surrounding areas is being assessed. Measures to reduce visual impacts, such as screening and planting, will be recommended as appropriate.

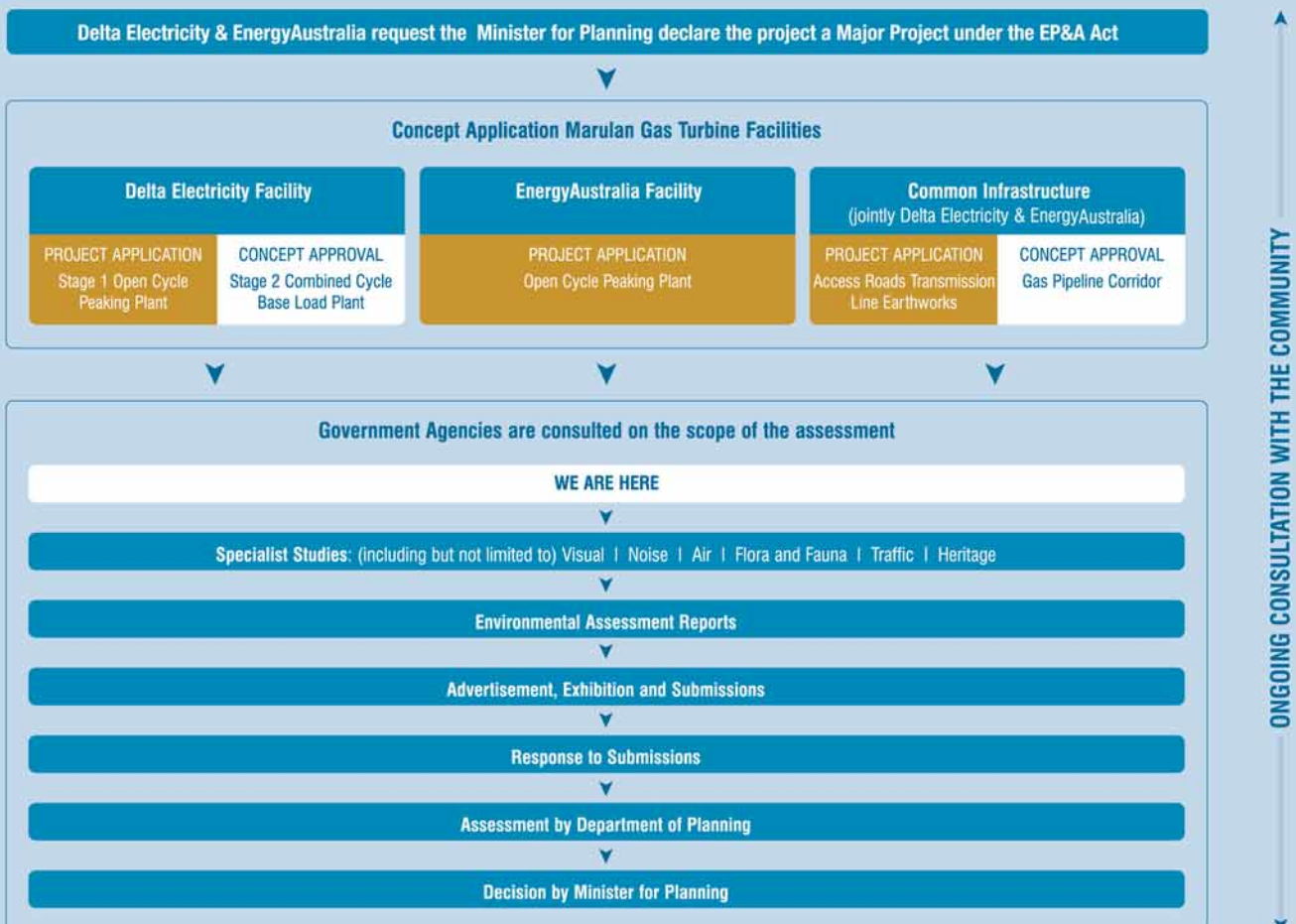
Heritage – a detailed heritage assessment is being carried out to identify Aboriginal and non-indigenous archaeological heritage values in the study area. The assessment will assess the significance of sites and heritage places and provide mitigation measures that will assist in conserving the local Aboriginal and non-indigenous heritage.

Hazard and risk – a preliminary hazard analysis is being undertaken in accordance with the requirements of State Environmental Planning Policy 33. This assessment will address the potential hazard and risk for each facility as well as the cumulative impact of the two facilities.

Traffic and access – an assessment of the potential traffic generated by the construction and operation of the facilities is being carried out.

Cumulative impacts – the cumulative impacts associated with the proposal will be assessed within the specific environmental investigations.

Other components – Detailed assessment will also include other components such as land use and ownership, socio economic considerations, contamination, waste minimisation and management, geology and soils.



How can I make comments?

To ensure the community and stakeholders are kept informed about the progress of the proposal and to allow Delta Electricity and EnergyAustralia to develop appropriate environmental mitigation measures, the community will have an opportunity to view and comment on the environmental assessment.

URS Australia (URS) has been commissioned by Delta Electricity and EnergyAustralia to facilitate community consultation and undertake the environmental assessment as required under the provisions of the Environmental Planning and Assessment Act 1979.

Delta Electricity and EnergyAustralia invite comments from local residents, landowners and stakeholders. A number of opportunities to provide information about the proposal and to consult with local community members and other stakeholders have been planned and will be coordinated by URS throughout the development of proposal.

Further information will be made available as the proposal progresses.

If you have any questions about this proposal please contact:

URS Consultation Manager

Nicole Brewer

(Free call)

1800 630 430

Fax

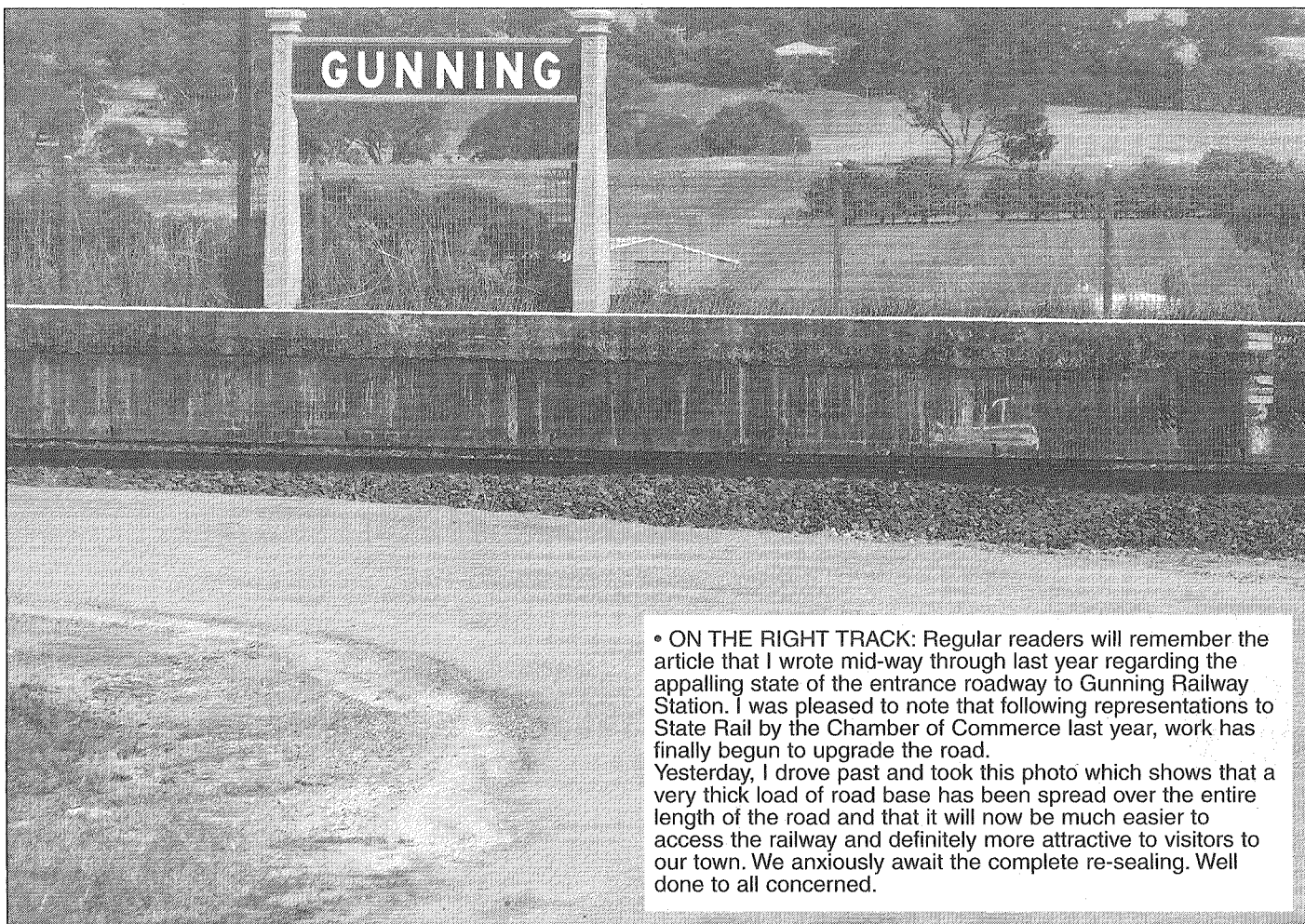
(02) 8925 5555

Email

marulangaspower@urscorp.com

Postal

**URS Australia Pty Ltd,
Level 3, 116 Miller Street
North Sydney NSW 2060.**



• ON THE RIGHT TRACK: Regular readers will remember the article that I wrote mid-way through last year regarding the appalling state of the entrance roadway to Gunning Railway Station. I was pleased to note that following representations to State Rail by the Chamber of Commerce last year, work has finally begun to upgrade the road. Yesterday, I drove past and took this photo which shows that a very thick load of road base has been spread over the entire length of the road and that it will now be much easier to access the railway and definitely more attractive to visitors to our town. We anxiously await the complete re-sealing. Well done to all concerned.

Origin Energy links with Epuron

ORIGIN Energy has announced a strategic relationship with wind generation developers Epuron, after acquiring an option to develop up to 590MW of wind farm projects starting with the construction of the 30MW Cullerin Range wind farm.

Origin's chief operating officer, Karen Moses, said the Cullerin wind farm project had an extremely good wind resource and was one of the most competitive projects of its kind in Australia with a capacity factor of 44 per cent. Another attraction was that it had proximity to electricity transmission infrastructure.

While a spokesperson for Origin said no firm "turning of the first sod" date for the project was available, negotiations were already underway on a turbine supply agreement.

She said the company was eager to commission the wind farm in 2009.

When fully operational, Cullerin Range will save about 100,000 tonnes of carbon annually or provide enough renewable electricity to power almost 15,000 typical homes in NSW, she said.

- More details in Monday's *Town and Country Magazine* (inserted in the *Goulburn Post*)

Joan, Keith Smith: A job well done

IF you happened to walk past the Courthouse and Health Service building this week you might have spied two good hearted Gunning residents quietly making sure that the garden beds were weeded and tidied up.

Joan and Keith Smith deserve our thanks for doing their part in ensuring that our village keeps up appearances. Good on you both!

Vale Trixie Rudder

IT is with sincere regret that I note the passing of Pastor Trixie Rudder from Gunning's Uniting Church. Trixie passed away on January 12 after a long battle with liver and pancreatic cancer.

She was the Uniting Church pastor in Goulburn in 2003 and then became pastor for Gunning and the surrounding area from 2004 until last year. Her work here included preaching, baptisms, weddings and funerals as well as a number of children's programs that she instigated. Trixie loved working with the genuine, hardworking country people of the small centres who were often aging, but still very faithful people.

She took it as her mission to equip them to lead their own services, constantly reminding them that lay-people do not need ordained clergy to perform all the Church's tasks.

Gunning's Anglican minister, Rev. Vicki Cullen told me: "Trixie was a really good friend."

"We attended the Australian Catholic University in Canberra together and as a consequence had many mutual friends within the Canberra community," she said.

"She was always smiling and cheerful, was an good pastor always willing to listen. She was excited about leading a combined congregation within the Collector community."

"We worked together on the Collector Pumpkin Festival and taught scripture at Gundaroo. She was an excellent example of how ecumenical friendships can work. In her last letter in December, she told me to 'enjoy being a grandmother, it's great'."

A funeral service for Trixie was held at the Uniting Church in Goulburn last Monday.

Picture House Gallery show

THE current show at the Gunning Picture House Gallery "Shot in Gunning" has been a major success. Gallery owners Margarita Georgiadis and Max Cullen tell me that there has



GUNNING NEWS

with Tony Porter

Email: coronationcoll@optusnet.com.au

been major interest from right around the local area, all over the state and from Canberra.

Crowds have been flocking to see the superb and evocative works of Murray Van der Veer since the show first opened. Sales have been excellent.

The current show concludes this weekend with a new show commencing the following week-end.

Australia Day awards

TOMORROW marks the Australia Day Awards breakfast at Barbour Park in Gunning.

The Lion's Club of Gunning will, as usual, be catering with a sausage sizzle for the attendees, with the awards being announced at the conclusion of the breakfast.

There will be a number of deserving nominees for the two awards on offer.

Please come along to support this great community event. Proceedings get under way at 8am. See you there.

Country Week Tennis results

GUNNING was put on the map last week with a women's tennis team being runners-up in division 2 at the 2008 Country Week tennis tournament held at White City.

The team consisted of the President of the Gunning District Tennis Association Beth Baines and other players from Goulburn and Cooma making up the team of five.

The team played two matches a day against other country teams for the week.

Other local players to perform well were Katie O'Brien who played with the Goulburn ladies team and were runners-up in division 1 and ex Dalton player Michael Gerstenberg who was the driving force behind his Goulburn team being the winners of the men's division 1.

Slow down!

IS there some numeracy problem in town?

Some dyslectic blindness when it comes to the 50km speed limit signs that are prominently displayed at all the entrances to Gunning village?

Just to refresh our collective memories, the entry from the Hume Highway coming along the Collector Road is about 700m back from Yass Street.

Just remember there are primary school children living along that stretch.

It would be great if all drivers could take these 50km speed limit signs to heart.

Disreputable hats wanted

HAVE you got a hat that has seen rain, hail and shine.

Been worn for so many years that it is virtually welded to your head. Is it covered with holes, scars, seeds, lanolin, sweat, blood and tears?

Can't bear to be seen without it while in the paddock, on the tractor, doing the fencing, dipping the sheep?

Perfect, it's just what we are looking for.

We want you to lend it to us for a day at the Gunning PA&I Community Fair on February 16, where visitors will vote on the one that is the most disreputable - entries from men, women and children are all welcome.

On a more genteel note there will also be a decorated hat or cap competition open to children.

Just get an inexpensive one and start painting and pasting.

'She was always smiling and cheerful ...'



Specialists in art-deco/nouveau, victorian and fifties lighting, china and glassware, old tins, small furniture and collectables.

Restoration and repair service on china, glass, crystal, brass, chrome and silverware.

Wish-list for hard to get items!

Present this advertisement for a 10% discount on purchase

Coronation Collectables

84 Yass Street, Gunning 2581

ph: 4845 1288 mob: 0401 407 627

coronationcoll@optusnet.com.au

Fri - Mon 10am - 5pm & public holidays

PROPOSED GAS TURBINE FACILITIES FOR MARULAN AREA



Delta Electricity is a NSW State Government owned corporation and is the second largest generator in the National Electricity Market supplying 30% of demand in NSW.

EnergyAustralia is a NSW State Government owned corporation, which operated the largest electricity network in Australia, supplying electricity to more than three million people.

Growth in electricity demand requires the construction of new facilities so that a secure electricity supply is available in the future. Consequently, Delta Electricity and EnergyAustralia are proposing to establish two separate gas turbine facilities near Marulan in New South Wales which will contribute to meeting the forecast electricity demand.

The facilities proposed at Marulan consist of a gas turbine facility to be constructed by Delta Electricity in two stages and a gas turbine facility constructed by EnergyAustralia. Both the EnergyAustralia proposal and the first stage of the Delta Electricity facility are known as "peaking facilities" as they supply power to the electricity grid during times of peak demand such as very hot days or cold nights.

Delta Electricity will also be seeking approval to convert its peaking facility to combined cycle generation as required to supply intermediate / base load electricity, at a later date. Depending on the growth in electricity demand Delta Electricity may progress with the construction and operation of the combined cycle plant without proceeding through the first stage.

The Marulan Gas Turbine Facility site, adjacent to the Marulan Switchyard, is located on Canyonleigh Road, Brayton, approximately 12km north east of Marulan.

URS Australia (URS) has been commissioned by Delta Electricity and EnergyAustralia to facilitate community consultation and undertake an Environmental Assessment as required under the provisions of the Environmental Planning and Assessment Act 1979.

Delta Electricity and EnergyAustralia submitted an application to the NSW Department of Planning for the proposed facilities to be considered as a major project, for the purpose of environmental assessment and approval. The request was granted on 8 October 2007. This means that the proposal will be subject to the provisions of Part 3A of the Environmental Planning and Assessment Act 1979.

As part of the process of assessing the feasibility and environmental impact of the proposal, Delta Electricity and EnergyAustralia are gathering comments from local residents, landowners and project stakeholders.

Further information will be made available as this Project progresses. If you would like more information on this project please:

Contact URS Consultation Manager

Nicole Brewer on 1800 630 430.

Visit the project's website <http://www.de.com.au/>

Contact URS if you would like to receive information about the project via a newsletter on:

Fax: (02) 8925 5555

Email: marulangaspower@urscorp.com

Postal: URS Australia Pty Ltd, Level 3, 116 Miller Street North Sydney NSW 2060.

Latin Mass open to public

Holy Cross Seminary

Fathers of the Society of St Pius X

THE chapel of Holy Cross Seminary is open for public religious services for the good of the community.

Traditional Latin Mass is held at 9.45am on Sundays with confessions held beforehand at Holy Cross Seminary, 3436 Braidwood Road, Lake Bathurst. Contact Father Peter Scott on 4829 5177 for more information.

Uniting Church

OUR worship services this Sunday will be in Goulburn at Goldsmith Street and at Waminda Aged Care at 9.30am, and in the Wesley Centre at 5pm.

The district services are at Marulan at 9am, Parkesbourne and Dalton at 10am and Greendale at 12noon.

The regular weekly activities will resume in February.

Christ Church Anglican West Goulburn

THIS Sunday January 27 - Third Sunday after Epiphany

7.30am Holy Communion; 9.30am Holy Communion; 11.30am Holy Communion - Windellama.

During the week: Thursday January 31: 8.45am - Parish prayer meeting; 7.30pm - Men's bible study.

Friday February 1: 10am Holy Communion; 12noon lunch in the Parish Hall.

For further information phone 4821 3631, Revd Robert Lindbeck, 128 Addison Street. www.getintochristchurch.com.

St Saviour's Cathedral

COME and take a tour of our beautiful cathedral, one of the prime tourist destinations in Goulburn, with over 6 000 visitors last year.

Cathedral Guides are on duty from 10am - 4pm every day.

You are welcome at all our events. Come to try our friendly, welcoming groups, either in a service, bible study, Sunday school, youth or women's groups, bell-ringing, choir, patchwork quilters - we have it all to share.

Services for this Sunday:
8am - Eucharist, 10am - Eucharist.
Weekday Services:
Mondays - 5pm Eucharist
Tuesday - 12noon Eucharist
Wednesday - 8.15am Eucharist, 5pm Healing (Not on in January)

Thursday - 10am Eucharist
Friday - 8.15am Eucharist
Coming events:

Laying up of the Diocesan staff on Saturday February 2 at 11am, final service for Bishop George Browning before his retirement.

Shrove Tuesday February 5 2008, pancake night in St Saviour's Cathedral Parish Hall starting at 6pm. Bookings on 4821 2206.

Ash Wednesday February 6 - Eucharist and Imposition of Ashes. There will be two services, 8.15am and 5pm.

Regular events resume in February. Cathedral Youth (for young people up to and including year 12 students) has a varied program of activities. Enquiries: 4822 1339.

Cathedral Choir meets Thursdays from 7.30pm during school terms.

Contact Cathedral Office 4821 2206. Cathedral bellringers will meet every Monday from 6.30pm to 8pm. If you are interested in learning how to ring bells please contact the Cathedral office on 4821 2206.

Sunday School meets every Sunday at 9.50 am. We cater for children from the age of three years upward.

Baha'i Faith

IF you would like to know more about Goulburn's Baha'i group or join them for worship and prayers, contact Kivan Derak on 0421 087 087.

Goulburn's Baha'i has a table at the markets in

Belmore Park on the first Saturday of the month.

Presbyterian Church of Australia Parish of Argyle

(Goulburn - Taralga - Crookwell - Tuena)
SUNDAY services: 9am Clifford St Goulburn; 11.15am Bannaby St Taralga; 3pm Colyer St Crookwell.

Sunday school: 9.15am in Goulburn and 3.15pm in Crookwell. All children welcome.

Sunday@Seven service are held on the second and fourth Sundays each month at 7pm in the hall behind the Goulburn church. All are welcome.

Bible study groups operate each week in Goulburn and Crookwell on Tuesday nights and Taralga on Wednesday nights. Know Your Bible women's study group meets 10am on Fridays in the Goulburn church hall. For information phone 4822 2344.

BRAIDWOOD St Bede's Catholic Church

SUNDAY Mass times for Braidwood are as follows: Vigil 6pm; Sunday 9am.

Next weekend: Vigil 6pm; Sunday 9am. Country: Krawarree 10.30am on fourth Sunday.

Weekday Masses: Tuesday and Thursday at 9am.

Australia Day Mass at 9am on Saturday January 26.

Anglican Parish of Braidwood

YOU are invited to join us in worship on Sunday January 27 in Saint Andrews at 9am or at our Family Service at 11am.

St Andrew's Uniting Church

Sunday Service at 10am conducted by Mr Clive Gesling. All very welcome.

Adding certainty to if

I WONDER if you have ever read Rudyard Kipling's poem "If", which begins "If you can keep your head when all about you are losing theirs and blaming it on you" ... and ends with "If you can fill the unforgiving minute with 60 seconds' worth of distance run, yours is the earth and everything that's in it, and - which is more - you'll be a Man, my son."

Most of us use that word "if" with another, "only - if only."

A woman may say, "If only I didn't have to stay home with the children, I'd find real fulfilment in the business world." A man may claim, "If only I'd chosen another career, things would have been better for me."

Whatever our circumstances, many of



TODAY'S THOUGHT

with Ron Butterworth

us imagine that under different circumstances, we would really shine. Our ordinary, everyday tasks get us down from time to time. After Jesus' baptism by John in the Jordan River. He went to the wilderness where He was tempted by the Devil. Each of the three temptations involved the little word "If" ... "If you are God's Son, turn these stones into bread," for example.

'If you can fill the unforgiving minute with sixty seconds' worth of distance run, Yours is the Earth and everything that's in it...' Rudyard Kipling's poem, 'If.'



Why 30 seconds just isn't enough...

If you want to tell your customers about your business and the high quality and standard of your goods and services, you need time and clarity.

A 30 second sound-grab might bring your business name to listener's attention, if they are actually listening, but will your advert just end up in the Universe of Lost Thoughts?

Let us explain. Unless a listener has a pen and paper handy they probably won't remember your phone number, address and what sets you apart from your competitors. Radio and television are known as 'companion media'. Most people use them as 'background noise' while getting ready for work, driving, having a chat and a cuppa, reading the newspaper or doing housework. This means the advertisements they broadcast are always competing with other activities that are more demanding on the listener's concentration.

Importantly, not many of us can fully concentrate on two things at once. A mixed media approach to advertising your business can be effective, however, make sure you weigh up all the pros and cons before committing your dollars and your future earnings.

Your 30 seconds are now up, but read on...

Radio and television air-time is expensive. And there are no gaps. Have you ever noticed how some messages run into each other or are immediately followed by an announcer talking about something else or someone else's business? How effective will your message be in amongst this barrage of information?

You also run the risk of your target audience not listening at the time your adverts are aired - particularly if you purchase a 'run-of-station' package where your ads are spread out over a twenty-four hour period.

With print advertising the reader buys a newspaper and sets aside time to read it. Some readers scan pages and read headline articles at random then go back and read the rest of the paper, others read thoroughly from cover to cover. But whatever the type of reader, they will notice your advertisement.

What this means to your business is a more effective uptake of your sales message by prospective clients.

Remember, print-based advertisements can be removed from the paper and kept by people who are considering doing business with you.

Statistics show that each newspaper sold is generally read by more than one person. A recent audit of the Goulburn Post* shows a single copy of our paper is read by up to three people over several days. How long did it take you to read this advert? (If you want to, you can have another read later, at your convenience.)

How much information did you get?

Let's face it 30 seconds just isn't enough...

To discuss your marketing needs phone the Goulburn Post Sales Team on 48327 3500.

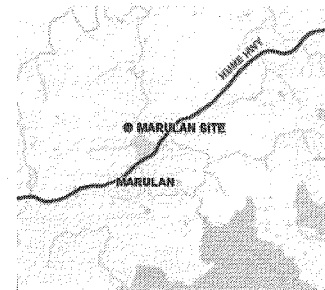
Goulburn Post

Leader In Local News

* Audit conducted by Gallup

DELTA ELECTRICITY & ENERGY AUSTRALIA MARULAN GAS TURBINE FACILITIES ABORIGINAL CULTURAL HERITAGE ASSESSMENT NOTIFICATION AND REGISTRATION OF ABORIGINAL INTERESTS

Delta Electricity and EnergyAustralia propose to develop gas turbine power generating facilities near Marulan.



The project is being assessed by the NSW Department of Planning under Part 3A (Major Projects) of the Environmental Planning and Assessment Act 1979.

The environmental assessment for the project includes an Aboriginal cultural heritage assessment being undertaken by URS Australia and Biosis Research.

Delta Electricity and EnergyAustralia invite groups and individuals to register their interest in the Aboriginal cultural heritage assessment and management program of the project.

For more information or to register in writing please contact:

Jamie Reeves
Biosis Research Pty. Ltd.
15-17 Henrietta Street
Chippendale NSW 2008
Tel: 02 9690 2777
Fax: 02 9690 2577

REGISTRATIONS MUST BE RECEIVED
BEFORE 5.00pm, 8 February 2008

5 February 2008
Project No. 43177371

Civil Aviation Services Authority
GPO Box 2005
Canberra City ACT 2601

Attention: Kim Jones
Manager, Airways and Aerodromes

Dear Mr Jones,

Subject: Delta Electricity and EnergyAustralia proposed Marulan Gas Turbine Facilities

URS has been commissioned by Delta Electricity and EnergyAustralia to prepare an Environmental Assessment for the proposed Gas Turbine Facilities at Marulan. The intent of this correspondence is to provide an opportunity for comment on the proposal.

Delta Electricity and EnergyAustralia are proposing to seek project approval to construct two separate gas turbine facilities side by side on the site adjacent to the existing Marulan Switchyard near Brayton NSW.

The proposed development would generate electricity from natural gas and help meet future electricity needs in NSW.

The implementation of the proposed gas turbine facility for *Delta Electricity* would be carried out in two stages:

Stage 1 Two open cycle gas turbines with a total capacity in the range of 250 to 350 MW. Each turbine could have a capacity in the order of 125 to 175 MW depending on final equipment selected.

Stage 2: Conversion to combined cycle facility to generate electricity for intermediate/base load electricity demand. The proposed capacity of the Stage 2 combined cycle plant is in the range of 400 to 450 MW.

The proposed gas turbine facility for *EnergyAustralia* would comprise two open cycle gas turbines developed in a single stage. Each turbine could have a capacity in the order of 175MW, producing a total nominal facility output of 350MW.

Delta Electricity and EnergyAustralia submitted an application to the NSW Department of Planning for the proposed facilities to be considered as a major project, for the purpose of environmental assessment and approval. This request was granted on 8 October 2007.

Kim Jones
Civil Aviation Services Authority
5 February 2008
Page 2

This means that the proposals will be subject to the provisions of Part 3A of the *Environmental Planning and Assessment Act 1979*.

We provide the enclosed Preliminary Environmental Assessment that describes the type of facility that is to be built.

We understand that projects of this nature require consideration from an aviation viewpoint regarding the vertical speed and temperature of the plume and their effect on aviation. We understand that this requires a plume assessment to be undertaken and details addressed relating to the possible coalescence of plumes in differing wind and atmospheric conditions. As part of the Environmental Assessment, an air quality modelling assessment is being conducted using The Air Pollution Model (TAPM) to assess if any discharge from the power plant may create a danger area for air navigation. This assessment will be made available as part of the Environment Assessment.

If you wish provide comment on this proposal, please send it to the address below by 15 February 2008.

Attention: Nicole Brewer

URS Australia Pty Ltd

Level 3, 116 Miller Street

North Sydney NSW 2060

Ph: 02 8925 5654

Yours sincerely,
URS AUSTRALIA PTY LTD



Nicole Brewer
Associate Environmental Engineer





File: 06/5562-03

Ms Nicole BREWER
Associate Environmental Engineer
URS Australia Pty Ltd
Level 3, 116 Miller Street
NORTH SYDNEY NSW 2060

Dear Ms Brewer,

Marulan Gas Turbine Facilities proposed by Delta Electricity and EnergyAustralia

I refer to your letter of 5 February 2008 concerning the proposed development of two separate gas turbine electricity generating facilities adjacent to the existing Marulan Switchyard near Brayton NSW.

Power stations, and similar facilities, can create a hazard to aircraft safety when the gaseous efflux plume discharged intrudes into the navigable airspace. A gaseous plume can destabilise an aircraft in flight, and in extreme cases may cause airframe damage.

CASA has published an Advisory Circular **AC 139-05(0)** titled, **Guidelines for Conducting Plume Rise Assessment**. AC 139-05(0) is available on our Web Site at: <http://www.casa.gov.au/rules/1998casr/139/139c05.pdf> . The advisory circular provides general information and advice to proponents of a facility that will create an exhaust plume, as well as guidance on notifying CASA, and the information to be providing to enable CASA to make an assessment of the likely hazard to aviation.

To enable CASA to make an informed assessment of your proposal, it is necessary to provide us with full details of the likely plume discharge. The vertical and lateral extent and dispersion of the plume will need to be determined in accordance with the guidelines contained in our Advisory Circular **AC 139-05(0)**. The data provided should be based on sound scientific assessment so that any determination by CASA based on the information supplied is appropriate and defensible. Data should be supplied for each of the Marulan development stages, if the plume discharges will be different.

If you have any queries, please contact Anthony Rohead on (02) 6214 1421 or anthony.rohead@casa.gov.au .

Yours sincerely

Kim Jones
Manager, Airways and Aerodromes

20 February 2008.

23 January 2008

Member for Goulburn
288 Bong Bong Street
BOWRAL NSW 2576

Attention: Ms Pru Goward, MP
Member for Goulburn

Dear Ms Goward,

Subject: Delta Electricity and EnergyAustralia proposed Marulan Gas Turbine Facilities

Delta Electricity and EnergyAustralia are proposing to seek approval to construct two separate gas turbine facilities side by side on the site adjacent to the existing Marulan Switchyard near Brayton. The proposed development would generate electricity from natural gas and help meet future electricity needs in NSW.

Delta Electricity and EnergyAustralia have applied to the NSW Department of Planning for the proposed facilities to be considered as a major project for the purpose of environmental assessment and approval. This request was granted on 8 October 2007. This means that the proposals will be subject to the provisions of Part 3A of the *Environmental Planning and Assessment Act 1979*.

The enclosed community newsletter describes the project and outlines the environmental assessment process including the studies that will be conducted and the opportunities local community members have to make comment. Copies of the newsletter have been sent to residents surrounding the Marulan site as part of a consultation program for the proposal.

Delta Electricity and EnergyAustralia are committed to keeping you informed throughout the project approval process. Should you wish to discuss the project further, please do not hesitate to contact Keith Robertson on (02) 9269 4149 or Rodney Ward on (02) 9285 2719.



Yours sincerely,
Rodney Ward
DELTA ELECTRICITY



Yours sincerely,
Keith Robertson
ENERGYAUSTRALIA



23 January 2008

Catchment Management Authority
Goulburn (Head Office)
Locked Bag 2048 GOULBURN NSW 2580

Attention: Helen Ward

Dear Ms Ward,

Subject: Delta Electricity and EnergyAustralia proposed Marulan Gas Turbine Facilities

Delta Electricity and EnergyAustralia are proposing to seek approval to construct two separate gas turbine facilities side by side on the site adjacent to the existing Marulan Switchyard near Brayton. The proposed development would generate electricity from natural gas and help meet future electricity needs in NSW.

Delta Electricity and EnergyAustralia have applied to the NSW Department of Planning for the proposed facilities to be considered as a major project for the purpose of environmental assessment and approval. This request was granted on 8 October 2007. This means that the proposals will be subject to the provisions of Part 3A of the *Environmental Planning and Assessment Act 1979*.

The enclosed community newsletter describes the project and outlines the environmental assessment process including the studies that will be conducted.

Delta Electricity, EnergyAustralia and URS are committed to keeping you informed throughout the project approval process. The newsletter provides our contact details should you wish to contact us.

Yours sincerely,

URS AUSTRALIA PTY LTD

Nicole Brewer
Project Manager / Associate Environmental Engineer
Enclosures

24 January 2008

Member for Hume
PO Box 700
Goulburn NSW 2580

Attention: Mr Alby Shultz, MP
Member for Hume

Dear Mr Shultz,

Subject: Delta Electricity and EnergyAustralia proposed Marulan Gas Turbine Facilities

Delta Electricity and EnergyAustralia are proposing to seek approval to construct two separate gas turbine facilities side by side on the site adjacent to the existing Marulan Switchyard near Brayton. The proposed development would generate electricity from natural gas and help meet future electricity needs in NSW.

Delta Electricity and EnergyAustralia have applied to the NSW Department of Planning for the proposed facilities to be considered as a major project for the purpose of environmental assessment and approval. This request was granted on 8 October 2007. This means that the proposals will be subject to the provisions of Part 3A of the *Environmental Planning and Assessment Act 1979*.

The enclosed community newsletter describes the project and outlines the environmental assessment process including the studies that will be conducted and the opportunities local community members have to make comment. Copies of the newsletter have been sent to residents surrounding the Marulan site as part of a consultation program for the proposal.

Delta Electricity and EnergyAustralia are committed to keeping you informed throughout the project approval process. Should you wish to discuss the project further, please do not hesitate to contact Keith Robertson on (02) 9269 4149 or Rodney Ward on (02) 9285 2719.



Yours sincerely,
Rodney Ward
DELTA ELECTRICITY



Yours sincerely,
Keith Robertson
ENERGYAUSTRALIA

23 January 2008

TransGrid – Head Office
PO Box A 1000
SYDNEY SOUTH NSW 1235

Attention: Mr Kevin Murray
Managing Director

CC

Mr David Trethewey
Account Executive
PO Box 8516,
Koorringal NSW 2650

Jenny Seage
TransGrid Property

Dear Mr Murray,

Subject: Delta Electricity and EnergyAustralia proposed Marulan Gas Turbine Facility

Delta Electricity and EnergyAustralia are proposing to seek project approval to construct two separate gas turbine facilities side by side on the site adjacent to TransGrid's existing Marulan Switchyard near Brayton. Delta Electricity and EnergyAustralia have been in contact with Mr David Trethewey regarding connection to TransGrid's 330 kV transmission line.

Delta Electricity and EnergyAustralia submitted an application to the NSW Department of Planning for the proposed facilities to be considered as a major project, for the purpose of environmental assessment and approval. This request was granted on 8 October 2007. This means that the proposals will be subject to the provisions of Part 3A of the *Environmental Planning and Assessment Act 1979*.

The enclosed newsletter describes the type of facility that is to be built. The proposed facilities would also include a single shared gas supply pipeline connecting to the Moomba to Sydney gas pipeline. At this stage, the location of the connection to the gas main and a preferred route for the gas delivery pipeline has not been determined. However, we note that one option for the shared gas supply pipeline is proposed to traverse TransGrid property. We would like to take the opportunity to discuss to potential property issues for TransGrid associated with this option and will be contacting TransGrid's Property Division shortly to discuss.

TransGrid Property
PO Box A 1000
23 January 2008
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Should TransGrid wish to discuss the project further in addition to the connection discussions being held, please do not hesitate to contact Keith Robertson on (02) 9269 4149 or Rodney Ward on (02) 9285 2719.



Yours sincerely,
Rodney Ward
DELTA ELECTRICITY



Yours sincerely,
Keith Robertson
ENERGYAUSTRALIA