PLANNING REPORT

JUNEE SOLAR FARM

Report to Southern Joint Regional Planning Panel

Prepared by Claire Golder, Town Planner, Temora Shire Council, on behalf of Junee Shire Council

EXECUTIVE SUMMARY

A development application (2018/11) has been lodged with Council, seeking development consent to construct and operate 25MWp solar farm.

The proposal involves installation of solar photovoltaic panels, with supporting inverter stations and transformer substation across a 93 hectare footprint. The subject land is a predominantly cleared agricultural property.

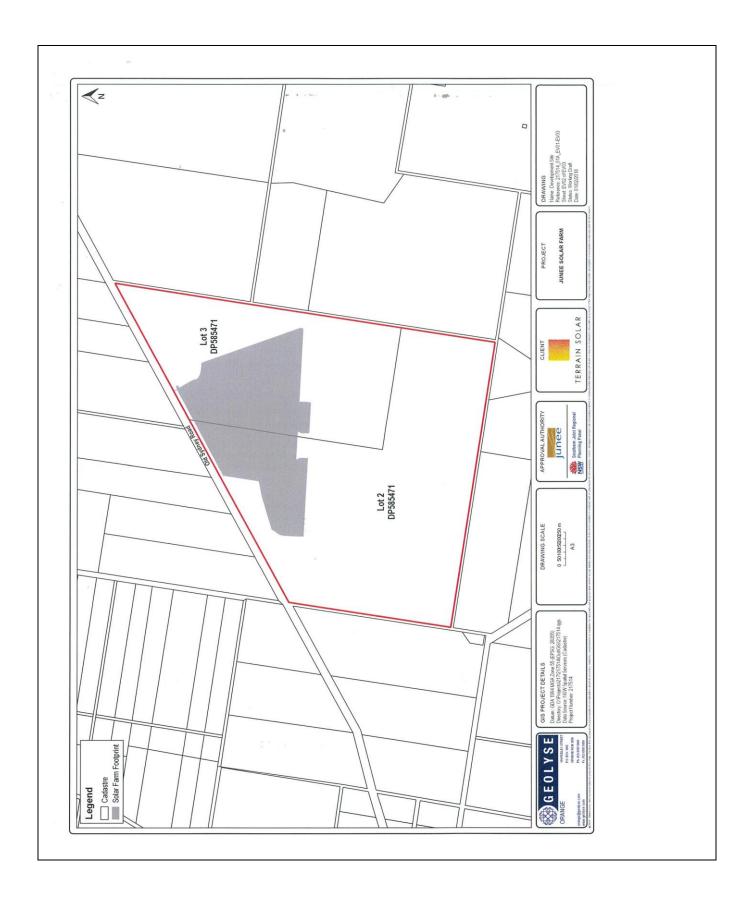
The proposal is private infrastructure and community facilities over \$5 million. The proposal has a capital investment value of \$29.28 million dollars.

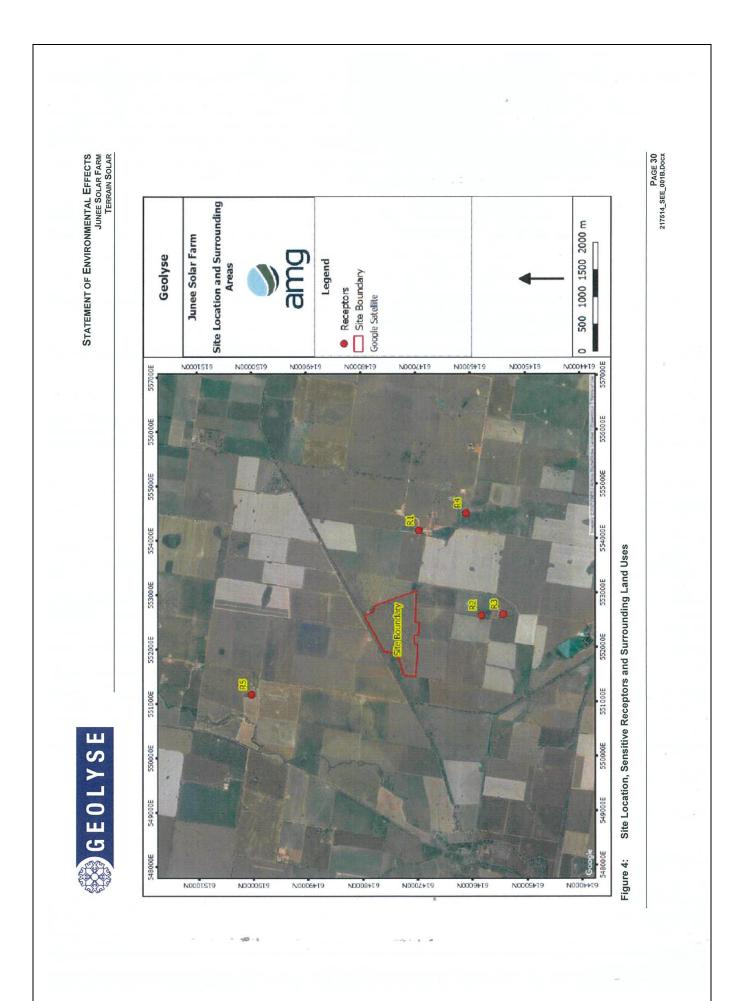
The proposal was placed on public exhibition from 5 January 2018 to 5 February 2018 in accordance with the *Environmental Planning and Assessment Act 1979, Environmental Planning and Assessment Regulation 2000* and the Temora Shire Development Control Plan 2012. Five submissions were received during the notification period. Issues covered by submitters included biodiversity, Aboriginal cultural heritage, loss of agricultural land, vegetation management, including managing herbicide resistance, site rehabilitation, visual impact, bushfire risk, water runoff and related weed management issues.

The application is recommended for approval as the development will have a positive economic benefit for the broader community by providing renewable energy using efficient solar panels. Impacts of the proposed development can be suitably mitigated through suitable environmental management plans and retention of existing patches of native vegetation.

DA No.	2018/11	
APPLICANT	Terrain Solar	
PROPERTY	Part Lot 2 DP 585471 and Part Lot 3 DP 585471, 346 Old Sydney Road, Marinna	
OWNER	John Maloney	
PROPOSAL	 The construction and operation of a 26MW solar farm, including: Solar voltaic modules Steel racking and pile supports Electrical transformers and inverters Electrical cabling 	

	 Telecommunications equipment An operations and maintenance building Site substation, Perimeter fencing, and Access from Old Sydney Road 	
NOTIFICATION	 Advertising of this application for a period of thirty-two (32) days was provided as part of the assessment process. Notification letters to twenty-three (23) adjoining/nearby landowners, located within 3 kilometres of the subject lot boundaries. Notification letters to NSW Office of Environment and Heritage and NSW Department of Primary Industries Newspaper advertisements on Thursday 22 February and Thursday 1 March 2018 Council's website and social media awareness 	
SITE DESCRIPTION	The development site is located approximately 5 kilometres north of Junee, and consists of part of two adjoining lots, with an irregular shape, fronting Old Sydney Road and covering an area of 93 hectares.	
	The site is predominantly cleared and used for agricultural purposes, cropping and grazing, and contains a few scattered paddock trees.	
	Adjoining land is also used for similar agricultural purposes. The closest dwellings to the subject site are five dwellings, two located 1.1km away from the development site, and the remaining closest dwellings located at 1.5km, 1.6km and 2.4km from the development site.	
	The following two maps show shows the location of the proposed development site within the existing lot configuration; and the location of the proposed development, within the rural land setting, and the proximity of nearby residences.	





DEVELOPMENT DESCRIPTION	Specific details of the development are:	
	The development consists of solar panels, arranged in rows, spaced 5-7m apart, which will tilt to a maximum height of 2.6m.	
	The dimensions of the inverter stations are small shipping container size of 2.5m high, 6.05m long and 2.43m wide. They are located on elevated platforms to give an overall height of 3.5m.	
	The dimensions of the substation are a secure enclosure, up top 50m x 30m with several items of electrical equipment and supporting structures.	
	The proposal also includes an operations and maintenance building, approximately 9.6m long, 3.4m wide and 3m high.	
ASSESSMENT	The following matters are considered under section 79(C) of the Environmental Planning and Assessment Act, 1979, as part of the assessment of the proposal.	
	 <u>State Planning Controls</u> 1. State Environmental Planning Policy (SEPP) (Infrastructure) 2007 is relevant to this application. 	
	The application is considered under Division 4, Electricity generating works or solar energy systems. The application falls within the definition of a <i>solar energy system</i> , which includes a photovoltaic electricity generating system. Under Clause 34,	
	(7) Solar energy systems Except as provided by subclause (8), development for the purpose of a solar energy system may be carried out by any person with consent on any land.	
	(8) Development for the purpose of a photovoltaic electricity generating system may be carried out by a person with consent on land in a prescribed residential zone only if the system has the capacity to generate no more than 100kW.	
	As the proposal is not located on land that is zoned prescribed residential land, the proposal can be considered for consent.	
	2. SEPP (Rural Lands) 2008 is relevant to this application.	
	 The aims of this Policy are as follows: (a) to facilitate the orderly and economic use and development of rural lands for rural and related purposes, 	
	(b) to identify the Rural Planning Principles and the Rural Subdivision Principles so as to assist in the proper management, development and protection of rural lands for the purpose of promoting the social, economic and environmental welfare of the State,	

(c) to implement measures designed to reduce land use conflicts,
 (d) to identify State significant agricultural land for the purpose of ensuring the ongoing viability of agriculture on that land, having regard to social, economic and environmental considerations,
 (e) to amend provisions of other environmental planning instruments relating to concessional lots in rural subdivisions.
The proposal responds to these aims, as the proposal is limited to a total development area of 93 hectares of rural land. The landowner has sufficient remaining agricultural land to continue farming operations. The design has responded to the need to reduce land use conflicts by separating the proposed structures from existing rural dwellings. The proposed use will not impact upon the ability of adjoining and nearby landowners to carry out normal farming operations.
The Rural Planning Principles within the Policy are as follows:
 (a) the promotion and protection of opportunities for current and potential productive and sustainable economic activities in rural areas,
(b) recognition of the importance of rural lands and agriculture and the changing nature of agriculture and of trends, demands and issues in agriculture in the area, region or State,
 (c) recognition of the significance of rural land uses to the State and rural communities, including the social and economic benefits of rural land use and development,
 (d) in planning for rural lands, to balance the social, economic and environmental interests of the community,
(e) the identification and protection of natural resources, having regard to maintaining biodiversity, the protection of native vegetation, the importance of water resources and avoiding constrained land,
(f) the provision of opportunities for rural lifestyle, settlement and housing that contribute to the social and economic welfare of rural communities,
(g) the consideration of impacts on services and infrastructure and appropriate location when providing for rural housing,
(h) ensuring consistency with any applicable regional strategy of the Department of Planning or any applicable local strategy endorsed by the Director-General.
The proposal has responded to the rural planning principles by presenting a sustainable economic activity in a rural area, which provides both social and economic benefits to a rural community, and will not result in adverse environmental outcomes.

• To allow the development of processing, service and value adding industries related to primary production.
• To minimise conflict between land uses within this zone and land uses within adjoining zones.
 To minimise the fragmentation and alienation of resource lands.
• To encourage diversity in primary industry enterprises and systems appropriate for the area.
• To encourage sustainable primary industry production by maintaining and enhancing the natural resource base.
The objectives of the RU1 Primary Production zone are:
The proposed use of solar energy system is not permitted with consent in this zone. However, the proposal relies on permissibility with consent under SEPP (Infrastructure) 2007.
Local Planning Controls The site is zoned RU1 Primary Production under the Junee Local Environmental Plan (LEP) 2012.
The applicant proposes that any required subdivision of the site, as part of future lease or purchase arrangements, will be dealt with as part of a future application, if the consent for the solar farm is approved. This is acceptable under the Junee Local Environmental Plan 2012.
There are no deemed SEPPs which relate to this Region.
Following completion of the project, the expected low levels of maintenance vehicle traffic will not result in significant demands upon local road infrastructure.
During the proposed twelve month construction period, vehicle movements will be higher than current levels. Peak daily movements during construction are expected to be up to 140 light vehicle movements and 40 heavy vehicle movements. This would require additional management with any overlap with harvest season and related movements of heavy agricultural equipment.
The proposal will not result in demands on water resources and local flooding, drainage and erosion risks can be managed as part of proposed controls.
The proposal manages impacts upon local native vegetation and biodiversity to acceptable levels through siting the development around existing native vegetation patches and limiting clearing to eleven isolated paddock trees.

		
	 To encourage tourist and visitor accommodation that does not have an adverse impact on agricultural activities. 	
	• To allow for the development of non-agricultural land uses that are compatible with the character of the zone	
	The proposal responds to the objectives of this zone, as it is a non-agricultural use, compatible with the character of the zone, with low noise and low traffic generation once construction is complete. The development responds to the local natural resources of high solar radiance and gently undulating topography. The proposal does not inhibit the nearby routine farming operations, as these can continue around the operations of the solar farm.	
	The proposal has been designed to minimise conflict with adjoining land uses by separating the proposed solar structure from existing dwellings, with screening of the site through existing roadside vegetation and gentle changes in the topography to shield broad views of the proposed solar farm. The proposal is obviously a change from a primary production use of the land, how the proposal includes a concept decommissioning plan, for a future return back to primary production land use.	
	The Junee Shire Council Development Control Plan 2015 is relevant to this application. The chapters relevant to this proposal are:	
	• Notification of Development Applications The application has been notified to the adjoining landowners and public authorities, and has been advertised in accordance with the above chapter of the DCP.	
	 Advertising Signs No advertising signage is proposed, however suitable site identification signage will be provided, including emergency contact details. 	
	• Onsite sewage and wastewater management The applicant proposes temporary amenities during the construction period. Post construction, the applicant proposes a small scale onsite disposal system suitable for approximately three permanent onsite employees. This is considered to be acceptable.	
LIKELY IMPACTS	Environmental - Natural The proposal is located on cleared farmland. Eleven paddock trees are proposed to be removed as part of the development. The applicant has included a proposed process to mitigate impacts of the removal of these trees, including procedure for timing of year of tree felling, tapping trees with machinery prior to felling, and leaving trees on the ground for one day after felling to allow for relocation of any fauna. The	

proposal will also require the clearing of up to 0.02 hectares of Blakey's Red Gum – Yellow Box grassy tall woodland in order the support site access.
The site is not identified as being with a Flood Planning area. Erosion risk during and post construction can be managed through relevant conditions of consent.
The site is not identified as contaminated land.
Noise impacts during construction will be managed through conditions to limit the timing of construction to approved construction hours. No noise impacts post construction are expected.
Air quality impacts will require management during construction, to suppress dust generation. This will include strategic watering and suspending works during excessively dry and windy conditions.
The site is not identified as Bushfire Prone land. However, as the site is located in a farming area, there is always a risk that a grassfire could occur on nearby or on the subject land. The applicant has included details of their intention to develop a Construction Environmental Management Plan and an Operations Environmental Management Plan in order to develop procedures to reduce the risk of a bushfire threat and to manage a fire emergency event. These procedures will be developed in conjunction with the Rural Fire Service, Essential Energy and nearby residents. Measures will include ongoing maintenance to reduce fuel load, staff training, access arrangements, isolation of electricity operations during a fire emergency and onsite fire fighting equipment.
The proposal does represent a significant change to the rural landscape, as it is a change from cleared farmland to a large scale electrical installation. The visual impact of such a change is subjective.
The applicant has provided the following details about how the site was selected and the techniques to minimise the visual intrusion of the development to the rural landscape.
 The site at 346 Old Sydney Road Marinna was selected as the preferred site for the solar farm in Junee Shire for the following reasons: Access to solar resource, given Junee's high number of days with clear skies Proximity to existing suitable electricity infrastructure Gently undulating topography, reducing the need for substantial earthworks Cleared landscape, reducing impact upon biodiversity
The applicant acknowledges that the proposed use is substantially different from the current landuse of open farmland. However, the applicant provides the following information about the means to minimise the level of visual impact of the proposed development:
 Separation of the development from neighbouring residences, through design of the layout Preservation of existing roadside vegetation to screen the development Low scale of the development. With the majority of the development at just

	over two metres, when viewed from a distance of 500m and beyond, the development will not protrude to a large height above the view of natural ground level.
	 Choice of colours of fencing and buildings is designed to blend into the landscape, not stand out.
	- Although the development will be able to be seen; at it is of broad scale; the combination of separation, design, native vegetation, low height and muted colours will limit the visual impact to an acceptable level in a rural landscape.
	 Built The development site is cleared, with no existing built structures.
	The development has been designed to minimise impact upon nearby residents, by providing as much separation as possible from the closest residence and retaining planting to reduce visual impact, as well as retaining biodiversity value
	Road impact following construction of the development is expected to be minimal. However, there will be an increase in the number of heavy vehicles using Old Sydney Road, and connecting roads, during construction. The condition of Old Sydney Road will be assessed prior to construction commencing and any deterioration of the road as a result of the development will be required to be repaired following completion of construction, to the satisfaction of Council.
	Social The social impacts of the development are positive with the opportunity to provide additional employment opportunities, and sourcing of local goods and services, during construction, as well as skilled employment opportunities covering long term maintenance of the site.
	Economic The economic impacts of the development are positive with the opportunity to provide alternative energy supply services in Junee, as well as employment opportunities, supply of materials and demands for locally sourced services, such as accommodation, fuel and meals for visiting workers.
SUITABILTY OF THE SITE	The suitability of the site relates to its access to regular solar radiation, gently undulating topography, predominantly cleared site, access to electricity infrastructure, and proximity to road infrastructure. The site is sufficiently separated from major urban centres, yet has reasonable proximity to enable ease of access to supplies, services and workforce. The site has existing native vegetation that assists with screening the development.
SUBMISSIONS	As a result of the notification of the development proposal, five written submissions were received. Issues raised by submitters including biodiversity, Aboriginal cultural heritage, loss of agricultural land, vegetation management, including managing herbicide resistance, site rehabilitation, visual impact, bushfire risk, water runoff and related weed management issues.
	A summary of these submissions is provided in Table 1. Copies of the submissions are included at Appendix 2.

	Table 1: Summary of submissions reSolar Farm	ceived relating to proposed Junee
Submitter name	Issues	Council comments
Office of Environment and Heritage	Advised that biodiversity impacts are not considered significant and proposed measures to minimise impact upon biodiversity are considered suitable	Noted. The application includes a Biodiversity Assessment, prepared by EMM Consulting. The consulting ecologist inspected the site, including all eleven of the paddock trees proposed to be removed, and the roadside vegetation. A small section of the roadside vegetation is proposed to be cleared to create access to the site. The applicant proposes to limit this clearing to the minimum required to provide a 6m wide road access, suitable for heavy vehicles, including good sight distances along a straight length of road. The applicant has proposed to retain other patches of native vegetation on the site. This is considered to be acceptable, as the vast majority of the roadside vegetation is retained in order to provide habitat for native fauna, including 12 threatened birds species that have a moderate potential to forage in the roadside woodland. Conditions to manage impacts of the development on native vegetation are included as part of the consent.
	Provided advice on protecting any potential Aboriginal objects found during construction	The applicant agrees with the advice provided on this issue. Controls to protect any Aboriginal objects will be included as conditions of consent.
Department of Primary Industries Agriculture	Concern that the development is not consistent with the zone objectives, as it represents a large scale industrialisation of the land and the long term if not permanent removal of the land from agricultural production.	 Noted, however consider that the zone objectives offer some flexibility, particularly: To allow for the development of non-agricultural land uses that are compatible with the character of the zone, and To encourage diversity in primary industry enterprises

	and systems appropriate for the area
	The character of farmland throughout the country is transitioning to include solar energy production as an alternative to traditional agricultural production where suitable infrastructure and locations exist, in order to support additional renewable energy sources and provide alternative sources of rural income.
	The applicant has responded that they do not consider the installation of a solar farm to be an industrial activity. The applicant supports Council's conclusion that the development does not need to comply with all of the zone objectives in order to be supported.
SEE requires a description of the approach to herbicide management.	Noted. This can be included as a condition of consent as part of the Operations Environmental Management Plan, to be prepared by a suitably qualified person and to be undertaken as part of the work routine of the onsite maintenance staff. The applicant has stated their approach to vegetation management at the site, including use of selective grazing by livestock, mechanical slashing and the establishment and maintenance of a suitable vegetative groundcover that provides effective competition for weeds, maintained through regular inspection by site managers.
The SEE should include an outline of the Rehabilitation and Decommissioning/Closure Plans	The SEE includes an preliminary outline of the decommissioning management plan. The request for the Decommissioning Management Plan to be submitted as part of the Operations Environmental Management Plan has been included in Condition 29, with the agreement of the applicant. The request for monitoring and mitigation measures to be adopted for rehabilitation

The SEE should make reference to DPI Primefact 1063 "Infrastructure proposals on rural land".	remedial actions is included in Condition 15 as part of the Operations Environmental Management Plan, with the intention of monitor the condition of the land and mitigate against impacts upon the land that would inhibit its future
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Class 3 agricultural land is defined as	The applicant has provided additional comments stating that the development will not inhibit neighbouring farming operations and reinforced their commitment to managing weeds and fuel loads at the site.
"High Capability Land" and is an important agricultural resource	land is an important resource, however there will always be competing priorities for land use. The use of rural land to support the production of renewable energy in proximity to existing transmission infrastructure is also a priority for rural communities.
	The applicant advises that there is 198,372.8 hectares of land that is zoned for Primary Production within Junee Shire and that this development site is proposed to occupy 93 hectares, thereby only requiring a very small proportion of land that is available for agricultural purposes.
Concern about lack of detail of consultation about the proposed project with adjacent landowners within a 5km radius, as the development can be seen from a significant distance, due to the flat topography. Consider using a Land Use Conflict Risk Assessment.	As part of the notification of the Development Application, neighbours located within a 3km radius were notified of the development, comprising 23 landholders. Only two written submissions were received. The 5km radius was not considered necessary due to this capturing many landowners within the town of Junee who would be unable to view the development.
	As the panels will be no more than 2.6m in height, the visual impact of the development beyond 1km is significantly reduced. The development is screened on the northern and westerns sides by existing vegetation. The owner of the land immediately surrounding the development site on the western, southern and eastern sides is the same landowner as the development

		site, which indicates their support for the proposal. The closest dwelling is just over 1km from the development site, which mitigates against the visual impact of an industrial development within a rural landscape. The development will not result in adverse impacts upon air quality or noise. The development will not impact upon livestock, water movement or road access. The applicant proposes measures to manage the impacts of weeds and bushfire risk. Additional risk assessment is not considered necessary, as the applicant has considered and addressed the likely land use conflict situations. The applicant has advised that the SEE provides a thorough explanation of the project and this document is exhibited during the public consultation process. The applicant advises that the landowner and the applicant discussed the project with neighbouring landowners prior to lodgement of the Development Application, in order to discuss the proposal.
Landowner Millbank Lane Old Junee	Concern about water runoff bringing seeds of noxious weeds onto adjoining properties.	Noted. This can be managed as a condition of consent, for inclusion as part of the Operations Environmental Management Plan, to be prepared by a suitably qualified person and to be undertaken as part of the work routine of the onsite maintenance staff.
	Request that the developer undertake six- monthly weed control checks and subsequent actions	Noted and agree that this can be included as part of the Operations Environmental Management Plan
	Concern that proposed groundcover only has a lifespan of 5 years and will require renewal in order to manage weeds	Noted. This can also be managed as a condition of consent as part of the Operations Environmental Management Plan, requiring the maintenance of a suitable

		groundcover for the lifetime of the solar farm, to be renewed as required, due to the much lower level of grazing as part of the solar farm operations.
Landowners Millbank Lane Old Junee	Concern about seeds of noxious weeds transported by wind onto adjoining properties, due to inability of landowners to undertake broadacre spraying of the property following the installation of the solar panels	Noted. This can be managed as a condition of consent, for inclusion as part of the Operations Environmental Management Plan, to be prepared by a suitably qualified person and to be undertaken as part of the work routine of the onsite maintenance staff.
	Request that the developer undertake six- monthly weed control checks and subsequent actions	Noted and agree that this can be included as part of the Operations Environmental Management Plan
	Request that solar panels be sufficiently separated to allow spraying of weeds by machinery	The solar panels will be spaced between 5m and 7m apart, which is sufficient space to allow for spraying using a spray unit towed by a utility vehicle, or similar.
Landowner	Concern about weed control and the requirement for landowners to manage weeds on their own property.	Noted. Weed management will form part of the Operations Environmental Management Plan, to be prepared by a suitably qualified professional.
	Concern about risk of bushfire and the need to maintain a fire break around the property. Request that work be restricted on high fire danger and total fire ban days.	Noted. The SEE includes details of a proposed Asset Protection Zone, comprising a 10m wide fire break. This will be located outside the perimeter fence. The fire break and the internal access roads can be used for fight fighting purposes if required.
		The Construction Environmental Management Plan will include specific procedures and responsibilities for minimising bushfire risk through work practices, which includes managing risks during high fire danger periods and total fire bans.
		The Operations Environmental Management Plan will include controls that require the maintenance

site, as well as reducing fuel load within the site to prevent intensification of a bushfire that ma		within the site to prevent intensification of a bushfire that may originate outside of the development
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Table 1: Summary of submissions received and Council comments

In addition, the Department of Primary Industries was provided the opportunity to comment further on the response prepared by Geolyse, on behalf of the applicant.

The comments are summarised in Table 2, with Council comments.

DPI Issues raised	Council response
Industrial activity within the rural landscape. Disagree with the proponents' interpretation. However, the main point is that often a change in the landscape results in some form of land use conflict, and it is desirable to avoid this.	Noted and agree that the proposal does represent a significant change to the rural landscape. However, the applicants have selected a site that proposes to minimise these impacts and response to the concerns raised by neighbouring landholders.
Reminding consent authorities that the objectives of land zoned RU1 are to facilitate primary production and consent authorities may approve some form of land use that is not consistent with this	Noted and agreed that the main intention of the RU1 zone is to facilitate and support use of rural land for primary production. However, there will be, at times, applications for other uses that must be considered on their merits, as other types of land uses are also needed by the community. The compatibility of the alternate land use and the ability of other landholders to continue with their land use is a primary consideration.
Agree that the applicants have provided a	Noted
sound vegetation management plan. The	
proposed use of herbicides in conjunction with other weed management practices of	
retaining a suitable weed-free groundcover	
and selective grazing is acceptable	Noted and included in Condition 29.
The applicants have agreed to bring forward the preparation of the Decommissioning Management Plan to form part of the Operations Management Plan, which is noted.	Noted and included in Condition 29.
DPI has agreed to the revised timing of the provision of a soil survey to occur immediately prior to construction.	Noted and included in Condition 15.
Issue of retaining cables below 500mm is	The applicant has agreed to remove any solar

still an area of concern as DPI states that in 30-50 years time, the type of agriculture and the need for deep ripping of areas of land that have been compacted over time. Is unknown. Suggest removing all infrastructure as other solar farm proposals have included.	infrastructure that is located up to 800mm below the land surface.
Advice on the Primefact and assessment tool is provided as standard information to alert proponents and consent authorities that this tool is available	Noted
The advice that the land is deemed 'High Capability Land' and that even though one LGA or region may contain significant amounts of such land, the same cannot be said on a state-wide basis	Noted. Land with lower land capability in the LGA or region is likely to be constrained from solar farm development due to other factors such as large areas of native vegetation or steeply sloping, rocky land. Although the use of high capability land for uses other than agriculture is not preferred, there is always a need for other land uses for infrastructure that is needed by the community, and the extent of land required remains a very small percentage, which will not significantly impact upon overall productivity of the region.
There remains some disagreement about how the outcomes of community consultation prior to submission of the Development Application and DPI would have preferred that more information about the outcomes of this consultation was provided.	Noted. However the formal consultation process conducted as part of the DA process has been thorough and there were only three submissions received from nearby landowners, with a small number of concerns that can be addressed as part of the conditions of consent.

 Table 2: Additional comments from the Department of Primary Industries in response to additional information provided by the applicant

PUBLIC INTEREST

The proposal has some public interest, however this has generally been related to those landowners with proximity to the proposed development, as well as comments from Government agencies.

It is in the public interest to support development that provides an overall benefit to the community, which responds to the intentions of planning controls, provides investment, is located on a suitable site, responds to the constraints and features of the site, is sufficiently serviced and mitigates against the adverse impacts associated with the development.

Equally important, it is in the public interest to protect existing residents and the wider community from development that is unsuitable, that will have overall adverse impacts upon their livelihood, and where these adverse impacts cannot be overcome.

In relation to this proposal, there is an overall benefit to the public in supporting the development of the Junee Solar Farm, as the proposed use is suitable for the site. Measures to reduce the

impacts of the proposal on those located closest to the infrastructure have been included within the development plan.

CONCLUSION

The proposal represents a significant change in land use for the subject site from the existing broad scale agriculture use to a constructed broad scale energy infrastructure system. However, the applicant has chosen a site that has benefits in access to solar supply, gently undulating topography, predominantly cleared location, ease of access to electricity infrastructure, and suitable road infrastructure access.

The applicant has sought to respond to the concerns of nearby residents through the commitment to development management plans to mitigate against adverse impacts of the development during construction and during operations of the proposed solar farm. The applicant has also sought to respond to the concerns of Government agencies through their support for relevant conditions. The use of productive agricultural land for non-agricultural purposes not actively encouraged, as this land is a valuable resource. However, the community does also need the provision of infrastructure in order to support broader economic, social and environmental requirements, in this case being the provision of energy supplied through renewable solar resources. The development will not inhibit agricultural activities from continuing on adjoining land and the proposal includes requirements for a decommissioning plan to enable a return to future farming operations, when the solar farm is no longer required.

The provision of a solar farm in Junee Shire provides additional economic benefits of a diversifying economy, investor confidence and responding to broader national needs of renewable energy supply.

The proposal for the construction and operation of a 26MW solar farm a 346 Old Sydney Road, Marinna is supported.

RECOMMENDATION

That approval be given to Terrain Solar to construct and operate a 26MW solar farm at Part Lot 2 DP 585471 and Part Lot 3 DP 585471, 346 Old Sydney Road, Marinna

GENERAL

- 1. The applicant shall carry out the proposal, and works shall be undertaken, generally in accordance with the information supplied to Council, detailed as follows:
 - (a) The Development Application 2018/11 dated 15 February 2018, submitted to Junee Shire Council
 - (b) The Statement of Environmental Effects, dated February 2018, prepared by Geolyse
 - (c) The Aboriginal Archaeological Due Diligence Assessment, Junee Solar Farm, dated 2 January 2018 prepared by EMM Consulting
 - (d) The Biodiversity Assessment, Junee Solar Farm, dated 13 February 2018 prepared by EMM Consulting
 - (e) The Junee Solar Farm Noise and Vibration Impact Assessment, dated December 2017 prepared by Assured Monitoring Group

unless otherwise specified by the conditions of this consent.

- 2. The use not commencing until such time as **ALL** the requirements of the conditions of this consent have been carried out to the reasonable satisfaction of Junee Shire Council, as signified in writing.
- 3. The builder must at all times maintain on the job, a legible copy of the plans and specifications bearing the stamp and building permit of Council.
- 4. A notice bearing the lot number and the builders name and license number shall be prominently displayed at the front of the land from the time the development application is submitted to Council until the building is complete.
- 5. The building works shall be carried out in conformity with the provisions of the Environmental Planning and Assessment Act, 1979, and the Regulations made thereunder, in accordance with the plans and specifications approved by Council. No departure from the approved plans and specifications shall be made unless the prior approval of Council has been obtained in writing.
- 6. Toilet facilities are to be provided, at or in the vicinity of the work site, on which a building is being erected.
- 7. All building works must be carried out in accordance with the provisions of the Building Code of Australia.
- 8. All practicable measures must be taken to prevent and minimise harm to the environment as a result of the construction and operation of the development.
- 9. All operations and activities occurring at the premises must be carried out in a manner that will minimise dust at the boundary of the premises.
- 10. Construction works may only be carried out between 7.00 am and 6.00 pm on Monday to Friday, 8am and 1pm on Saturday and no construction is to be carried out at any time on a Sunday or a public holiday.
- 11. Building materials and equipment must be stored wholly within the work site unless an approval to store them elsewhere is held.
- 12. The work site must be left clear of waste and debris at the completion of the works.

PRIOR TO CONSTRUCTION

- 13. A Construction Certificate must be obtained from Council or an Accredited Certifier prior to work commencing.
- 14. In order to ensure the structural adequacy of the structure, additional details in regard to the following matters shall be submitted to and approved by the Certifier prior to the issue of a Construction Certificate.

- a. Structural drawings prepared and signed by a suitably qualified engineer certifying compliance with the relevant Australian Standard.
- b. Site movement plan comprising directional signage, speed limits, pedestrian movements, road maintenance and dust suppression, and lighting in order to manage site safety
- 15. Prior to the issue of the Construction Certificate, a full soil survey shall be prepared to assist in determining construction limitations and land management operations, and to provide a baseline to measure soil characteristics post closure of the Junee Solar Farm.
- 16. Prior to the issue of the Construction Certificate, a Construction Environmental Management Plan shall be prepared and submitted for approval by Council. The approved plan shall be implemented during construction of the solar electricity system. The plan shall include a range of management controls as outlined in the approved SEE and other conditions listed in this consent. The plan shall include, but not limited to:
 - a) Aboriginal Heritage Management
 - b) Native Vegetation Management
 - c) Construction Traffic Management
 - d) Bush Fire Management
 - e) Waste Management
 - f) Erosion and Sediment Control
 - g) Noise Management
 - h) Dust Management
 - i) Soil and Water Management
 - j) Integrated Site Restoration
 - k) Operation Hours
 - I) Security Management
 - m) Requirements and conditions of Essential Energy to connect to the state power grid
- 17. Clearing of roadside vegetation to facilitate site access shall be kept to a minimum, with the final plan indicating trees to be removed, to be approved by Council prior to construction commencing.
- 18. Contact shall be made with the Local Brigade of the NSW Rural Fire Service and details about the construction schedule, contact numbers and site access arrangements shall be shared.
- Consultation with nearby landowners shall occur prior to construction commencing to advise of the construction schedule and the Construction Environmental Management Plan (CEMP). The CEMP shall include management of interactions between construction vehicles and farm machinery movements on roads, particularly during harvest time (November – December).
- 20. The site shall be monitored and maintained to a satisfactory condition by maintenance staff, for the management of grass and weeds growth including maintenance of ground cover, and any indications of erosion. Prior to the commencement of the annual Bushfire Danger Period, a joint inspection shall be conducted in conjunction with Junee Shire Council representatives and the local Rural Fire Service, to ensure that vegetation mitigation measures have been conducted to a satisfactory standard.

- 21. Appropriate safety signage shall be displayed adjacent to the site entrance on Old Sydney Road advising of emergency contact details.
- 22. Pursuant to Section 7.12 of the Environmental Planning and Assessment Act 1979, the monetary contribution applicable as a S7.12 development levy is to be paid to Junee Shire Council prior to the issue of Construction Certificate. The contribution is current as at the date of this consent and is levied in accordance with the Junee Shire Section 94A Contributions Plan 2016, which may be viewed during office hours at Council's Customer Service Centre, 29 Belmore Street. Junee, or on Council's website www.junee.nsw.gov.au.

The contribution payable will be calculated in accordance with the contributions plan current at the time of payment, and will be adjusted at the time of payment in accordance with the Consumer Price Index (CPI) (All Groups Index for Sydney) published by the Australian Bureau of Statistic (ABS). Contribution amounts will be adjusted by Council each financial year.

PRIOR TO RELEASE OF OCCUPATION CERTIFICATE

23. Prior to the commencement of the solar energy system an Operations Environmental Management Plan (OEMP) shall be prepared and submitted for approval by Council. The approved plan shall be implemented for the lifetime of the development on the subject site. The Plan must include a range of measures as outlined in the SEE which include, but are not limited to:

a) General maintenance and operation of the site e.g. inspection times, contact details of the site manager/maintenance staff;

b) Addressing complaints relating to the operation of the premise;

c) Access arrangements to the site;

d) Emergency, safety and security;

e) Weed management and biosecurity;

f) Monitoring and mitigation measures for future rehabilitation remedial actions

f) Bushfire management, including annual inspection of the site prior to the Bushfire Danger Period;

g) Reviews, amendments and updates to the plan;

h) Management of water runoff and risk of erosion; and

i) Future site decommissioning

- 24. The OEMP shall include details of the proposed management practices to occur at the development site in relation to managing weeds at the site involving appropriate invasive weed management techniques. This shall include use of appropriate chemical sprays to reduce the transfer of weed seeds to neighbouring properties by water and wind. The OEMP shall include measures to manage herbicide resistance. The weed management section of the OEMP shall be prepared by a suitably qualified professional.
- 25. The OEMP shall include a minimum of twice yearly inspections by an agronomy specialist in order to provide weed management actions, to be completed by the onsite maintenance staff.

- 26. The OEMP shall require the maintenance of a suitable groundcover at the development site, for the lifetime of the solar farm, to be renewed as required under the advice of the agronomy specialist. The groundcover shall be a suitable native or non-invasive groundcover to minimise the potential for weed invasion to native vegetation on the roadside of Old Sydney Road, and to neighbouring properties.
- 27. The OEMP shall include specific controls to maintain a suitable fire break around the development site, manage fuel load onsite, and manage the risk of bushfire during high fire danger periods and total fire ban days.
- 28. Prior to construction work commencing, the applicant shall prepare and provide a report to the satisfaction of Council, detailing the condition of Old Sydney Road. Following completion of construction, a dilapidation report shall be prepared by the applicant detailing the subsequent condition of Old Sydney Road. Any deterioration of Old Sydney Road as a result of project construction shall be rectified by the applicant to the satisfaction of Council.
- 29. As part of the OEMP, a Rehabilitation and Decommissioning/Closure Plan shall be prepared and submitted for approval by Council. The plan shall include rehabilitation objectives and strategies, including:
 - a. A description of the design criteria of the final landuse and landform;
 - b. indicators to guide the return of the land back to agricultural production;
 - c. expected timeline for the rehabilitation program;

d. management controls regarding decommissioning and removal of all solar arrays, above and below ground infrastructure and any structures or infrastructure relating to the solar energy works, upon cease of solar energy works;

e. a commitment to remove all solar farm infrastructure located to a depth of 800mm below the land surface.

All works shall follow the same management principles outlined in the Construction Management Plan.

30. Consultation with nearby landowners, located within 1.5 kilometres of the development site, shall occur prior to the completion of the Operations Environmental Management Plan (OEMP).

BUILDING/CONSTRUCTION

- 31. Prior to commencement of work, the person having the benefit of the Development Consent and a Construction Certificate shall:
 - (a) appoint a Principal Certifying Authority and notify Council of the appointment (if Council is not appointed), and
 - (b) notify Council of their intention to commence the erection of the building (at least 2 days notice is required).

- 32. Twenty four (24) hours notice is to be given by the Builder to Council to enable inspections to be carried out and Compliance Certificate issued at each of the following steps -
 - (a) Excavation for pier, strip footings and slabs with steel if required, before pouring concrete.
- 33. The applicant shall be responsible for compliance with the requirements of the WorkCover Authority of NSW.
- 34. The applicant shall minimise the creation of dust due to vehicles movements onsite through reduced construction vehicle speed and dust suppression using a water truck, where required.
- 35. The paddock trees shown to be retained on Figure 3.1 of the Biodiversity Assessment prepared by EMM Consulting shall be retained and protected during construction using appropriate tree protection measures, including installation of tree protection fencing, to be maintained throughout the construction period.
- 36. Clearing of the hollow-bearing Black Cypress Pine, identified on Figure 3.1 of the Biodiversity Assessment prepared by EMM Consulting shall occur outside of winter, due to the tree being a potential nesting habitat.
- 37. The clearing of the hollow-bearing tree must occur using a three stage clearing protocol whereby the tree is

- Disturbed/tapped by machinery 24 hours prior to felling to allow fauna to self-relocate

- Felling the tree the following day

- Leaving the felled tree in situ for at least 24 hours to allow any fauna present to self-relocate.

- 38. If, during construction, a potential site of Aboriginal heritage or potential Aboriginal object, is uncovered, all work in the vicinity of that area shall cease.
- 39. If any Aboriginal object is discovered and/or harmed in, on or under the land, while undertaking the proposed development activities, the proponent must:
 - 1. Not further harm the object
 - 2. Immediately cease all work at the particular location
 - 3. Secure the area so as to avoid further harm to the Aboriginal object
 - 4. Notify OEH as soon as practical on 131555, providing any details of the Aboriginal object and its location
 - 5. Not recommence any work at the particular location unless authorised in writing by OEH.
- 40. In the event that skeletal remains are unexpectedly encountered during the activity, work must stop immediately, the area secured to prevent unauthorised access and the NSW Police and OEH contacted.

Appendix 1

Location Photographs



Photograph 1: Subject site, looking south-east, near transmission lines



Photograph 2: Subject site, looking south



Photograph 3: Subject site, looking south-west, near transmission lines



Photograph 4: Roadside vegetation adjoining Old Sydney Road at existing site entrance near transmission lines



Photograph 5: Roadside vegetation adjoining proposed new site entrance



Photograph 6: Old Sydney Road, looking east, adjacent to proposed new site entrance



Photograph 7: Old Sydney Road, looking west, adjacent to proposed new site entrance



Photograph 8: Subject site, looking east, near retained native vegetation patch



Photograph 9: Retained native vegetation path, looking south



Photograph 10: Subject site, looking south-east, near retained native vegetation patch

- Appendix 2 Copies of written submissions
- Appendix 3 Applicant response OEH Comments
- Appendix 4 Applicant response DPI comments
- Appendix 5 DPI Primefact
- Appendix 6 Applicant response landholders
- Appendix 7 Landowner submission and applicant response
- Appendix 8 DPI comments to applicant
- Appendix 9 Email Terrain Solar DPI comments