

36'3821.0'S Ide 46'55.5'E Cooba Solar Project, Colbinabbin

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Traffic and Transport Assessment

2 August 2024 Prepared for Venn Energy P/L

IMP2109029REP01F03



Company Information

Document Information

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Level 17, 31 Queen Street, Melbourne, Victoria, 3000 ABN: 78 611 424 107		Report Title	Cooba Solar Project, Colbinabbin
		Report Reference	IMP2109029REP01F03
Email	create@impactaustralia.com.au	Date of Issue	2 August 2024
Website	www.impactaustralia.com.au	Approved By	Will Drew

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Contents

1	IMI	IPACT® SNAP SHOT	5
2	INT	TRODUCTION	7
2	.1	Engagement	7
2	.2	Scope of Engagement	7
3	CO	DOBA SOLAR PROJECT	7
3	.1	Location	7
3	.2	Site Context	. 8
3	.3	Planning Zone	. 8
	3.3	8.1 Planning Framework	. 8
3	.4	Road Network	. 9
	3.4	1.1 Heathcote-Rochester Road	. 9
	3.4	1.2 Cornella Church Road	. 9
	3.4	1.3 Plain Road	10
	3.4	1.4 Myola Road	10
	3.4	1.5 Davey Road	.11
3	.5	VicRoads Road Network Limits	12
3	.6	Cooba Solar Project	13
4	TRA	AFFIC CONSIDERATIONS	14
4	.1	General	14
4	.2	Traffic Generation	14
	4.2	2.1 Construction Traffic Volumes	14
	4.2	2.2 Operation and Maintenance Traffic Volumes	14
4	.3	Vehicle Access Routes	15
	4.3	3.1 Construction Material Delivery	15
	4.3	3.2 Solar Modules / Thermal Energy Components	15
	4.3	3.3 Construction Staff	16
4	.4	Traffic Impact	16
	4.4	1.1 Vehicle Access Corridor	16
	4.4	1.2 Road Capacity	17
5	DE	SIGN CONSIDERATIONS	19
5	.1	Site Access Considerations	19
5	.2	Turning Lane Considerations	19
5	.3	Sight Distance Considerations	21
6	TRA	AFFIC MANAGEMENT PLAN	22





Figures

Figure 1	Location of Subject Site	7
Figure 2	Land Use Planning Zone - 124 Cornella Church Road, Colbinabbin	8
Figure 3	Views of Heathcote-Rochester Road	9
Figure 4	Views of Cornella Church Road Facing East	9
Figure 5	Views of Plain Road Facing South	10
Figure 6	Views of Myola Road and Heathcote-Rochester Road	10
Figure 7	Views of Davey Road Facing East	11
Figure 8	VicRoads Pre-Approved B-Double & High Mass Limits (HML) Haulage Network Maps	12
Figure 9	Indicative Site Layout	13
Figure 10	Haulage Route from Port Melbourne	16
Figure 11	Existing Pavement Conditions (Source: Campaspe Shire Council)	17
Figure 12	Turn Treatment Warrants at Heathcote-Rochester Road & Cornella Church Road	
Figure 13	Turn Treatment Warrants at Cornella Church Road & Site Access	

Appendices

APPENDIX ASite Layout PlanAPPENDIX BSwept Path Analysis

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IMPACT® Snap Shot

	Development Proposition		
	Location	36°38'21.0"S144°46'55.5"ECornella Church Road, Colbinabbin VIC 3559	
	Use	500 MW Solar Facility with 300 MW BESS	
	Access	Site Access are proposed along Cornella-Church Road, Myola Road, Plain Road and Davey Road.	
		Traffic Considerations	
	Traffic Generation		
	Construction Traffic	A total of up to 200 (two-way) additional daily vehicle movements are expected during peak construction activities (100 heavy vehicles & 100 light vehicles).	
		Further to this, if a 25-seater bus were utilised to transport staff to and from the site, we would expect up to 104 additional daily movements.	
	Operation & Maintenance	Up to five (5) daily vehicle movements are expected with routine maintenance during operations. There will also be, on occasion some additional movements associated with more thorough maintenance (to be taking place on a 2 and 3 yearly basis, i.e. transformer testing).	
	Design Considerations		
	Access Route	Site Access locations have been proposed along Cornella-Church Road, Myola Road, Plain Road and Davey Road with access to these locations afforded from Heathcote-Rochester Road.	
	Turn Treatments	Due to the short-term nature of the construction period (12 to 18 month construction period) and the low construction volumes, it is recommended to utilise the full width for passing if required in place of a more formal BAL and BAR treatment for access along Cornella Church Road and the Site Access.	
		Further to this, it is noted that access via Heathcote-Rochester Road and Cornella Church Road intersection (although triggers a requirement for a BAL/BAR treatment), may require some form of road widening to accommodate turning lanes as a result of the limited sightlines and the high- speed environment.	
		It is considered appropriate that temporary advanced warning signs be implemented along the site access to mitigate risks and assist with safe accessibility during the construction period.	
		The proposed site access points are provided in areas with good sightlines, e.g. on straight road alignments with minimal changes to the vertical grade and clear of any vegetation and trees.	
ADVE Pl	RTISED AN	Notwithstanding, prior to construction, we recommend that an on-site assessment be undertaken to confirm that there is no vegetation impeding on the integrity of the available SISD's (minor trimming could be undertaken if required).	



DVE Pl	RTISED _AN	Further, it is recommended that during construction, traffic management devices such as 'trucks crossing' be utilised and in the event that site distances are less than the required, temporary speed reduction signages can be used to supplement the lack of sight lines.
	Recommendations	
	Maintenance Plan	It is recommended that the applicant liaise with Council to form an agreement on the construction standard required to implement a gravel 'all weather' road, in addition to determining an appropriate maintenance agreement during the construction period.
	Traffic Management Plan	It is recommended that a detail Traffic Management Plan (TMP) be prepared once the project design is complete and prior to commencement of the project construction, to confirm requirements for mitigation and management works.
		Conclusion

— There are no traffic and transport grounds that should prohibit the issue of a permit.



2 Introduction

2.1 Engagement

IMPACT[®] have been engaged by NGH Consulting on behalf of Venn Energy P/L to undertake a Traffic and Transport Impact Assessment for the proposed Solar Energy Facility and Battery Energy Storage System (BESS) facility.

2.2 Scope of Engagement

This Traffic and Transport Impact Assessment has been prepared to accompany a town planning submission for the proposed Solar Energy Facility and BESS facility located in Colbinabbin.

3 Cooba Solar Project

3.1 Location

The subject site is comprised of 24 parcels under 1 property totalling approximately 1,147 ha in area, with 665 ha to be used for the project layout. Figure 1 depicts the proposed site footprint.



Figure 1 Location of Subject Site

The subject site is surrounded predominately by farmland. Most notably, the Yallagalorrah Creek runs directly through the site.





3.2 Site Context

The site is located approximately 8km south of the Colbinabbin township and is currently used for farming / grazing purposes. Further, the surrounding land in the area is also typically farmland.

Currently, there is an existing transmission line that runs directly through the subject site.

3.3 Planning Zone

The subject site is located within the Farming Zone (as outlined in the Campaspe Planning Scheme) and is illustrated in Figure 2.



Figure 2 Land Use Planning Zone - 124 Cornella Church Road, Colbinabbin

3.3.1 Planning Framework

3.3.1.1 Clause 53.13 - Renewable Energy Facility

Clause 53.13 of the Victorian Planning Provisions outlines the relevant application requirements associated with the development of renewable energy facilities such as the proposed. Relevant to traffic and access matters, considerations under Clause 53.13 include:

- A design response, including a written report and assessment which addresses:
 - \circ The effect of traffic to be generated on roads.
- The responsible authority must also consider, as appropriate:
 - Whether the proposal will require traffic management measures.





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3.4 Road Network

3.4.1 Heathcote-Rochester Road

Classified as a Transport Zone 2 (TRZ2) as part of the Principal Road Network, Heathcote-Rochester Road extends in a general north-south direction between Midland Highway to the north and Northern Highway to the south.

A review of the aerial imagery shows that in proximity to the subject site, Heathcote-Rochester Road has been constructed with a sealed pavement with approximately 6.0 metres in width. With no posted speed limit, the default rural limit of 100 km/hr applies to this road.

Traffic volume data extracted from the Department of Transport's (DoT) database shows that Heathcote-Rochester Road currently carries up to 1,700 vehicles per day (two-way volumes).

A view of Heathcote-Rochester Road is shown in Figure 3.



Figure 3 Views of Heathcote-Rochester Road

3.4.2 Cornella Church Road

Classified a local road, Cornella Church Road generally extends in an east-west direction and is bounded by Heathcote-Rochester Road to the west and Orchard Road to the east.

A review of the aerial imagery shows that in proximity to the subject site, Cornella Church Road has been constructed as a sealed road with approximately 4.0 metres wide. With no posted speed limit, the default rural limit of 100 km/hr applies to this road.

Historic traffic data provided by Council along Cornella Church Road suggest that up to 32 daily vehicles are expected of which up to 10% of the daily traffic or three (3) vehicles per hour is expected during the peak period of operation.

A view of Cornella Church Road is shown in Figure 4.





Views of Cornella Church Road Facing East





3.4.3 Plain Road

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Classified as a local road, Plain Road extends in a general north-south direction between the Colbinabbin Township to the north and Tait Hamilton Road to the south.

A review of the aerial imagery shows that in proximity to the subject site, Plain Road has been constructed as an unsealed gravel road with approximately 6.0 metres (allowing two-way movement) plus shoulders measuring approximately 0.5-1 metre of each side of the carriageway.

With no posted speed limit, the default rural limit of 100 km/hr applies to this road.

Currently no traffic data is available for Plain Road.

For the purposes of a conservative assessment, 20 vehicles per a day or two (2) vehicles during the peak hour is assumed along this section of road as these roads are often utilised by land-owners whereby there would be limited through traffic occurring.

A view of Plain Road is shown in Figure 5.



Figure 5 Views of Plain Road Facing South

3.4.4 Myola Road

Classified as a local road, Myola Road extends in a general east-west direction between Myola East Road to the west and Plain Road to the east.

A review of the aerial imagery shows that in proximity to the subject site, Myola Road has been constructed as an unsealed gravel road with approximately 7.0 metres allowing for two-way movement.

Currently no traffic data is available for Myola Road.

For the purposes of a conservative assessment, 20 vehicles per a day or two (2) vehicles during the peak hour is assumed along this section of road as these roads are often utilised by land-owners whereby there would be limited through traffic occurring.

An aerial view of Myola Road is shown in Figure 6.



Figure 6

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Views of Myola Road and Heathcote-Rochester Road



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3.4.5 Davey Road

Classified as a local road, Davey Road extends in a general east-west direction between Heathcote-Rochester Road to the west and Heathcote-Moora Road to the east.

A review of the aerial imagery shows that in proximity to the subject site, Davey Road has been constructed with an unsealed gravel road with approximately 6.0 metres allowing for two-way movement.

With no posted speed limit, the default rural limit of 100 km/hr applies to this road.

Currently no traffic data is available for Davey Road.

For the purposes of a conservative assessment, 20 vehicles per a day or two (2) vehicles during the peak hour is assumed along this section of road as these roads are often utilised by land-owners whereby there would be limited through traffic occurring.

An aerial review of Davey Road is shown in Figure 7.



Figure 7

Views of Davey Road Facing East

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3.5 VicRoads Road Network Limits

The VicRoads pre-approved B-Double and High Performance Freight Vehicle (HPFV) network in the locality of the development are reproduced in Figure 8.

These network diagrams are typically read as follows:

- Green Roads pre-approved for haulage and typically a permit is not required
- Orange Roads conditionally approved, haulage along these roads are subject to conditions
- Red Roads restrict access, an assessment and permit is required for haulage along these sections
- Unhighlighted Roads require an assessment and approval from the responsible authority.



Figure 8 VicRoads Pre-Approved B-Double & High Mass Limits (HML) Haulage Network Maps

As per above, the green lines represent roads which are pre-approved for haulage and typically a permit is not required for haulage on these roads, e.g. Cornella Church Road, Plain Road and Heathcote-Rochester Road.

Conversely, Myola Road is restricted for access and the haulage of B-double/HML vehicles and will require an application to be put forward to the satisfaction of Council / NHVR.

Davey Road is conditionally approved for haulage access however is subject to conditions.

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3.6 Cooba Solar Project

IMPACT[®] have been advised that the project will consist of a solar energy facility comprising approximately of 700,000 solar panels (modules) and a capacity to generate up to 350 MWAC/500 MWDC.

It is expected that the site will connect directly into the existing power line located along the northern boundary of the subject land.

A detailed car park / access design has not yet been determined, however IMPACT® are advised that:

- The site access point will be built to accommodate construction vehicle traffic, including vehicles of up to 20m in length (semi-trailers);
- Site access locations are proposed along Cornella-Church Road, Myola Road, Plain Road and Davey Road;
- During construction, vehicles will be stored on-site either within the designated laydown / storage locations, or where construction activities are occurring; and
- During operations, operational, and maintenance staff vehicles will be accommodated on-site within a vehicle parking area located adjacent to the site office.

The current indicative site layout is shown in Figure 9 in addition to the copy of this plan attached in Appendix A.





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4 Traffic Considerations

4.1 General

The Solar Energy Facility access road network will typically limit internal construction traffic to internal access roads, with only deliveries and staff movements to and from the site required to travel across the external road network.

External traffic generated by the subject site will generally be split into two (2) broad categories:

- General traffic generated by staff & couriers travelling to/from the subject site; and
- Other heavy vehicle movements (HV) which are used for the delivery of solar panel components and construction materials such as aggregate and water.

4.2 Traffic Generation

4.2.1 Construction Traffic Volumes

Construction is expected to take approximately 12 to 18 months to complete.

IMPACT[®] have been advised by the applicant based on history and experience in constructing Solar Energy Facilities of similar size/capacity that the following peak movements are likely to occur:

- Light Vehicle Movements:
 - Daily peak of up to 100 two-way vehicle movements
- Heavy Vehicle Movements:
 - Daily peak of up to 100 two-way vehicle movements during construction; upgrading or decommissioning

Accordingly, a total of up to 200 daily vehicle movements are expected during peak operation periods.

Conservatively, it is expected that a maximum of 100 workers will be on-site during all stages of construction activity and will travel to site via. individual vehicles. We note however that buses can be utilised to transport staff to and from the site and thus reduce the amount of light vehicle movements.

If a 25-seater bus was to be utilised, this would generate up to four (4) vehicle movements per day as opposed to 100 vehicle movements.

In addition, it is noted that vehicles larger than a single trailer vehicle (e.g., 26m B-doubles) will not be required during the construction phase and thus all activity will be managed to avoid using these vehicles.

4.2.2 Operation and Maintenance Traffic Volumes

For majority of the time, Solar Energy Facility's operate with limited staff and generate minimal traffic movements.

Accordingly, apart from the initial construction phase, the proposal is anticipated to have a negligible impact upon traffic on the load road network. It is understood that operation and maintenance vehicles will likely occur on a quarterly basis with advanced maintenance operations to be undertaken on a 2 and 3 year basis (i.e. transformer testing). The quarterly site attendance will involve a single commercial vehicle equivalent to a UTE.





To provide a basis for traffic volume estimations, the following traffic generation numbers have been provided by the applicant based on past experiences with Solar Energy Facility's of similar capacity:

- Light Vehicle Movements:
 - Daily peak of up to 10 two-way vehicle movements
- Heavy Vehicle Movements:
 - o Daily peak of up to 0 vehicle movements

It is expected that a total of five (5) workers will be on site at any given time.

No heavy vehicles are expected over the duration of this phase.

It is anticipated that five (5) parking spaces will be provided (within the designated hardstand zone within the construction area).

In the context of construction traffic and also the existing traffic along Heathcote-Rochester Road, operating traffic will be minimal.

4.3 Vehicle Access Routes

Vehicle deliveries will be split between various categories. The following sections outlines the anticipated vehicle routes for various types of delivery / construction vehicles.

4.3.1 Construction Material Delivery

We understand that both coarse and fine gravel and water deliveries for the construction of hardstand areas and access tracks will be sourced locally.

It is expected that aggregates will be sourced from the Colbinabbin Township area and will leverage the following locations:

Haulage Delivery Route

Coarse Aggregate and Fine Crushed Gravel Deliveries & Water Deliveries

Bendigo-Murchison Road - Heathcote-Rochester Road - Cornella Church Road/Myola Road/Davey Road/Plain Road - Subject Site to access the site.

4.3.2 Solar Modules / Thermal Energy Components

IMPACT[®] are advised that due to the specialised nature of these components, these materials will be sourced from Port Melbourne.

It is advised that materials will be transported to the site by road. The anticipated route from is as follows and is depicted in Figure 10 overleaf.

Port Melbourne - Webb Dock Drive - CityLink (M2) - Tullamarine Freeway (M2) - Western Ring Road (M80) -Hume Freeway (M31) - Northern Freeway (B75) - Heathcote-Rochester Road (C347) - Cornella Church Road/Myola Road/Plain Road/Davey Road - Subject Site.

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Figure 10 Haulage Route from Port Melbourne

Further to this, a small percentage of larger loads (transportable buildings, power transformer components are expected to be delivered from the manufacturing facility locally. This route is as follows:

Bendigo-Murchison Road - Heathcote-Rochester Road - Cornella Church Road - Subject Site

4.3.3 Construction Staff

During the delivery of the project, it is expected that staff will typically reside in Colbinabbin Township. Accordingly, the majority of staff vehicle movements (light vehicles) will arrive at the site via:

Bendigo-Murchison Road - Heathcote-Rochester Road - Cornella Church Road - Subject Site

4.4 Traffic Impact

4.4.1 Vehicle Access Corridor

4.4.1.1 Access Route

IMPACT[®] are advised that the site access points for construction vehicles will be along Cornella Church Road, Plain Road, Myola Road and Davey Road.

As highlighted in Section 3.5, a permit is not required for haulage on Cornella Church Road, Plain Road and Heathcote-Rochester Road, however is required for access via Myola Road and Davey Road subject to conditions.





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4.4.1.2 Pavement Conditions

As mentioned previously, Heathcote-Rochester Road and Cornella Church Road are all sealed roads, whilst Myola Road and Plain Road are unsealed Roads.

Davey Road is currently constructed as a 'dry weather only' gravel road and as a result, we would expect the road pavement to comfortably cater for the proposed construction traffic in dry weather only.

Figure 11 illustrates the existing pavement conditions surrounding the subject site.



Figure 11 Existing Pavement Conditions (Source: Campaspe Shire Council)

It is suggested that the applicant liaise with Council and agree on the construction standard required for a gravel all weather road, in addition to determining an appropriate maintenance agreement during the construction period for all existing pavements impacted by the construction traffic.

4.4.2 Road Capacity

The proposed development is projected to generate up to 200 additional (two-way movements) per day during peak construction activities if staff were to travel to and from the site via individual vehicles.

If buses were utilised to transport staff to the site, then the site would expect to generate up to 104 daily vehicle movements.

Heathcote-Rochester Road

Heathcote-Rochester Road is classified as an arterial road. These roads are typically expected to carry more than 7,000 vehicles each day.

As discussed in Section 3.4.1, Heathcote-Rochester Road would likely carry in the order of 1,700 daily vehicle movements under the existing conditions.



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Accordingly, during the peak construction stages of the project, this road can be expected to carry up to 2,000 daily vehicle movements at its maximum or up to 1,908 daily vehicles (if buses were utilised to transport stati to/from site). This level of traffic sits comfortably within the acceptable range for this classification of road.

Accordingly, during the construction stages of the project, the relevant section of Heathcote-Rochester Road can be expected to carry up to 200 additional daily vehicles and 20 peak period movements (assuming 50% of movements occur during a 'peak' period).

This level of traffic, particularly during the peak period, e.g. 20 peak hour movements (1 vehicle movement every 3 minutes) can be comfortably accommodated by Heathcote-Rochester Road without any material impact on the operational or safety of this road.

Cornella Church Road

Cornella Church Road is classified as a rural living access road. These roads are typically expected to carry over 150 vehicles per day. As discussed in Section 3.4.2, Cornella Church Road has historically carried up to 32 vehicles per day (or 3 vehicles during the peak hour).

During the peak construction stages of the project, this road can be expected to carry up to 232 vehicle movements assuming that all staff drive to and from the site or up to 136 vehicle movements per day assuming that staff will be bused to and from the site.

We anticipate that the additional movements generated by the development can be comfortably accommodated by the existing road network. Note, we do not that the additional movements may have an ongoing impact on the road pavement and recommend that a maintenance agreement be made with Council.

Plain Road

Plain Road is classified as a rural access road. These roads are typically expected to carry up to 150 vehicles per day. As discussed in Section 3.4.3 Plain Road has historically carried up to 20 vehicles per day (or 2 vehicles during the peak hour).

During the peak construction stages of the project, this road can be expected to carry up to 220 vehicle movements assuming that all staff drive to and from the site or up to 124 vehicle movements per day assuming that staff will be bused to and from the site.

We anticipate that the additional movements generated by the development can be comfortably accommodated by the existing road network. Note, we do not that the additional movements may have an ongoing impact on the road pavement and recommend that a maintenance agreement be made with Council.

Myola Road & Davey Road

Myola Road & Davey Road are classified as a rural access road. These roads are typically expected to carry up to 150 vehicles per day. As discussed in Section 3.4.4 and 3.4.5, Myola Road & Davey Road is assumed (noting that traffic data was not available at time of writing this report) to carry up to 20 vehicles per day (or 2 vehicles during the peak hour).

During the peak construction stages of the project, this road can be expected to carry up to 220 vehicle movements assuming that all staff drive to and from the site or up to 124 vehicle movements per day assuming that staff will be bused to and from the site.

We anticipate that the additional movements generated by the development can be comfortably accommodated by the existing road network. Note, we do not that the additional movements may have an ongoing impact on the road pavement and recommend that a maintenance agreement be made with Council.

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5 Design Considerations

5.1 Site Access Considerations

We are advised that vehicles accessing the site will be limited to single trailer truck vehicles (no B-doubles).

Based on the plans provided, we understand that access to the site will be afforded via Cornella Church Road, Plain Road, Myola Road and Davey Road.

It is noted that given the land is currently unconstructed, in addition to the number of access points, typical swept paths have been undertaken to demonstrate the suitability of the current routes and the extent of widening works needed.

Further details of the swept path assessment are shown in Appendix A.

5.2 Turning Lane Considerations

Reference has been made to Austroads Guide to Traffic Management Part 6: Intersections, Interchanges and Crossings¹ (AGTM Part 6). This document provides guidance on the warrants for various turn treatments at unsignalised intersections.

These warrants provide guidance on where a full-length deceleration lane must be used and where a shorter lane, designated Auxiliary Left Turn Lane (AUL) and Channelised Right Turn (CHR), may be acceptable based on traffic volumes.

We understand that there will likely be multiple site-access locations for vehicles travelling to and from Heathcote-Rochester Road. However, for a conservative assessment, we've assumed that all vehicles will travel to and from Cornella Church Road to the Site Access.

As discussed previously, Heathcote-Rochester Roads is expected to carry up to 1,700 vehicles per day or in this case 170 vehicles during the peak period (generally accepted that 10% of daily traffic occurs during the peak hour) whilst Cornella Church Road has historically carried up to 32 daily vehicles.

This proposal is projected to generate in the order of:

- 200 two-way daily vehicle movements during the peak construction period (assuming all staff drive to site via individual vehicles) or;
- 104 two-way daily movements (assuming all staff are bused to and from site).

Conservatively, it is assumed that all inbound movements will occur along Heathcote-Rochester Road and will be distributed along the proposed site access routes (e.g. Davey Road, Myola Road and Cornella Church Road during the external road peak period.

However, noting that details of the construction schedule has yet to be developed/finalised at this stage, it is conservatively assumed, for the purposes of this analysis that all vehicles will be travelling to/from Cornella Church Road. Notwithstanding, the following Options have been assessed:

- Option 1: 100 inbound movements (assuming all staff drive to site);
 - o 50 (50%) of movements occurring during the peak period
- Option 2: 54 inbound movements (assuming staff are bused to and from the site).
 27/50%) of movements assuming during the pack pariad
 - $_{\odot}$ $\,$ 27 (50%) of movements occurring during the peak period.

Figure 12 illustrates turning lane treatments for Heathcote-Rochester Road and Cornella Church Road and Figure 13 illustrates the turning lane treatments Cornella Church Road and the Site Access.

¹ Austroads Guide to Traffic Management Part 6: Intersections, Interchanges and Crossings, Austroads 2017 Edition)

(a) Design speed ≥100 km/h

Figure 13 Turn Treatment Warrants at Cornella Church Road & Site Access

Based on the foregoing, this intersection triggers a warrant for a basic left-turn treatment (BAL) and right turn (BAR) treatment for access along Heathcote-Rochester Road / Cornella Church Road and the Site Access location.

Due to the short-term nature of the construction period (12 to 18 month construction period) and the low construction volumes, it is recommended to utilise the full width for passing <u>if required</u> in place of a more formal BAL and BAR treatment for access along Cornella Church Road and the Site Access.

PAGE 20 | © Impact 2024

Option 1 (which considers that all staff drive to and from the site) nearly triggers the need to provide a channelised right-turn and auxiliary left-turn slip lane along Heathcote-Rochester Road and thus is recommended to reduce the number of light-vehicle movements where possible.

Further to this, it is noted that access via Heathcote-Rochester Road and Cornella Church Road intersection (although triggers a requirement for a BAL/BAR treatment), may require some form of road widening to accommodate turning lanes as a result of the limited sightlines and the high-speed environment.

Further to this, it is also recommended to implement traffic management principles / advanced warning signages at the proposed site access during the construction period to assist with vehicle access.

5.3 Sight Distance Considerations

As mentioned previously, site access points are afforded via Cornella Church Road, Myola Road, Davey Road and Plain Road.

A desktop assessment of the available sight distances from the site access points has been undertaken using aerial imagery and images provided by the applicant. We note that an on-site assessment should be undertaken to validate the following sight distance review prior to construction.

AustRoads Guide to Road Desian - Part 4A: Unsignalised intersections sets out the sight distance requirements for unsignalised intersections. This guide provides SISD values for commuter and heavy vehicles at varying design speeds.

The SISD values for all intersections approaching the proposed site access points are as follows:

— Speed Limit 100km/hr

0

- Sight Distance for Passenger Cars 238m 317m
- Sight Distance for Heavy Vehicles

In regard to the available sight distances we note the following:

- Land in the area is generally flat, with little vertical geometry impacting on available sight lines;
- All new site access points are located on straight sections of road, where horizontal geometry does not impact on available sight distances; and
- Landscaping / vegetation in the area is generally limited, or where proximate to a site access point is set back a sufficient distance such that sight lines are not impacted.

Based on the foregoing, we expect that sight distances available from each new site access point exceed the minimum required by the AustRoads standards.

Notwithstanding, prior to construction, we recommend that an on-site assessment be undertaken to confirm that there is no vegetation impeding on the integrity of the available SISD's (minor trimming could be undertaken if required).

In addition, it is recommended that during construction, traffic management devices such as 'trucks crossing' be utilised. In the event that site distances are less than the required (in accordance with Austroads's sight distance requirements) temporary speed reduction signages can be used to supplement the lack of sight lines.

6 Traffic Management Plan

Subject to the appointment of a supplier / construction contractor and other considerations, aspects of the Cooba Solar Project may be subject to review.

In addition, construction / work programs for the project will not be fully resolved until closer to the project commencement. As such, subject to commencement timeframes, there is potential for changes to the existing road conditions and Solar Energy Facility haulage assumptions as considered within this report.

Based on the foregoing, and our experience with similar projects, we expect that a detailed Traffic Management Plan (TMP) will need to be prepared prior to the commencement of the construction of the project to confirm any mitigation measures and management works required at that time.

The TMP would be implemented as a condition of any Development Consent issued for the Solar Energy Facility and would be developed in consultation with Council, VicRoads, and any other relevant stakeholders to provide a more accurate indication of traffic impacts and generally identify responsibilities for road maintenance and upgrades throughout the construction period.

In general, the TMP should include:

- Confirmation of the Solar Energy Facility construction timeframe and work stages.
- Confirmation of expected traffic volumes generated by the Solar Energy Facility for all work stages.
- Identification of all HV and OD vehicle haulage routes for all work stages.
- A mechanism to review identified haulage route road conditions prior to the commencement of works.
- Mechanisms/agreements (if deemed necessary) to maintain haulage route roads and road infrastructure, including local public roads used by site traffic, during construction works and to reinstate roads to at least pre-construction conditions.
- Qualify any requirement for specific work stage construction traffic management plans.
- Qualify and identify any relevant mechanisms for OD vehicle permits and traffic management requirements.
- Confirm on-site the adequacy of available sight distances along the site access.

Note that this is not an exhaustive list, and that the final TMP requirements will be as per those outlined in the Development Consent.

ADVERTISED PLAN

APPENDIX A Site Layout Plan

ADVERTISED

APPENDIX B Swept Path Analysis

Design Vehicle

- 20m Semi-Trailers

- GENERAL NOTES: 1. ALL DIMENSIONS ARE TO FACE OF KERB AND CHANNEL UNLESS NOTED OTHERWISE.
- 2. LOCAL ROAD
- CORAL ROAD:
 CORNELLA CHURCH ROAD (SPEED ZONE 100KM/H).
 DECLARED ROAD:
 - HEATHCOTE ROAD (SPEED ZONE 100KM/H).
 BASE INFORMATION FROM NEARMAP AERIAL PHOTOGRAPHY
- DATED 30.01.2010.

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MELWAY ONLINE REF: MAP X921 F8

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Date 2023-07-26

20m SEMI-TRAILER EGRESS SWEPT PATH

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ROAD

20m SEMI-TRAILER EGRESS SWEPT PATH 0.5m CLEARANCE SHOWN

Title TRAFFIC AND TRANSPORT ASSESSMENT SWEPT PATH ANALYSIS 20m SEMI-TRAILER

IMP2109029 - DRG-01-03

Date 2023-07-26

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