EUROPEAN ENERGY

Bushfire Mitigation Plan

Management Plan

WNSF-EE-PLN-010
Revision Number: 1
Revision Date: 23 September 2026

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DOCUMENT HISTORY

Revision	Date	Author	Approver	Date Approved	Description of changes
0	5/06/2026	Eleni Nikolaou			Initial draft prepared for European Energy review.
1	15/09/2026	Eleni Nikolaou	Dominic Fernandes	18/09/26	Updated following ESV assessment findings.

REVIEW DETAILS

Internal Review Period:	Annually, or earlier where required by this Plan, Energy Safe Victoria request, incident, audit finding, material change or regulatory change.
Next Internal Review Due:	5th November 2027
Mandatory Energy Safe Victoria Resubmission	This Plan must be reviewed and resubmitted to Energy Safe Victoria at intervals not exceeding five (5) years from the date of the last accepted Bushfire Mitigation Plan.
Next ESV Resubmission Due:	5th November 2031
Acceptance / Approval Details	ESV formally accepted the Winton North Bushfire Mitigation Plan (BMP) on 5th November 2026.

This Plan will also be reviewed where any of the following occur:

- A material change to the 33 kV transmission line, associated assets, ownership, operation or maintenance arrangements
- A change to the person responsible for preparing or carrying out this Plan
- A change to the nominated O&M contractor, vegetation management contractor or emergency contact arrangements
- A relevant fire, electrical fault, incident, near miss, emergency event or regulatory request
- A deficiency is identified through inspection, monitoring, audit, investigation or review

This Plan must be resubmitted to Energy Safe Victoria where:

- Changes to this Plan alter the bushfire risk associated with the 33kV overhead transmission line
- Changes to this Plan affect the inspection, maintenance, vegetation management, monitoring or audit arrangements relied on to manage bushfire risk
- Energy Safe Victoria requests resubmission
- The mandatory five-year resubmission period from the date of the last accepted Bushfire Mitigation Plan is reached

Purpose & Scope	
What	This Bushfire Mitigation Plan documents the controls adopted by EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust, as the specified operator, through the Asset Manager, to minimise, as far as practicable, the risk of fire ignition from the Winton North Project 33 kV overhead transmission line.
When	This Plan applies during the operation, inspection, maintenance, vegetation management, emergency response, monitoring and review of the Winton North Project 33 kV overhead transmission line.
Who	This Plan applies to EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust as the specified operator, and to the Asset Manager, O&M Contractor, subcontractors, service providers and any other persons responsible for activities associated with the Winton North Project 33 kV overhead transmission line.
Why	This Plan has been prepared to support compliance with the Electricity Safety Act 1998 and the Electricity Safety (Bushfire Mitigation) Regulations 2023, including the specified operator's duty to minimise, as far as practicable, bushfire danger arising from the 33 kV overhead transmission line.

Table 1 - Purpose & Scope

1 Contacts

Specified Operator	EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust
ABN / ACN	680 405 592
Representative	Catriona Macleod, Director
Office Address	Level 3, 33 Stewart Street, Richmond VIC 3121
Telephone	0412 722 248
Email	infoaus@europeanenergy.com
Bushfire Mitigation Plan Responsibility	EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust remains responsible for the preparation, implementation and carrying out of the Bushfire Mitigation Plan. Activities may be undertaken by the Asset Manager, O&M Contractor or nominated contractors on behalf of EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust, but responsibility is not transferred to those entities.

Entity Responsible for Plan Preparation	EE Australia EPC 1 Pty Ltd, engaged to support preparation of this Plan on behalf of EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust
ABN / ACN	681 274 537
Representative	Dominic Fernandes, Project Manager
Company	European Energy Australia
Address	Level 3, 33 Stewart Street, Richmond VIC 3121
Telephone	0451 512 137
Email	infoaus@europeanenergy.com

Asset Manager Responsible for Plan Implementation	European Energy Australia Pty Ltd, engaged to support implementation and operational oversight of this Plan on behalf of EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust
Representative	Tatenda Gwekwe, Head Asset Management & Operations
Company	European Energy Australia Pty Ltd
Address	Level 3, 33 Stewart Street, Richmond VIC 3121
Telephone	0416 325 474
Email	operations.au@europeanenergy.com
Implementation Responsibility	EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust remains responsible for carrying out this Plan. The Asset Manager supports delivery,

	coordination, monitoring, audit and record keeping on behalf of the specified operator.

Specified Operator 24-hour Emergency Contact Arrangement	EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust does not operate a specific physical control room for the Winton North Project. Emergency calls requiring action to mitigate bushfire danger are received through Operation and Maintenance contractors Control Room supporting the 24-hour emergency contact arrangement and escalated to the Asset Manager / authorised representative for action.
Call Receipt and Escalation Process	Photon Renewable Services' (Operation and Maintenance contractor acting for and on behalf of EE Solar 12 Pty Ltd) Control room act as the 24/7 escalation point once a call is received or any alarms detected. Emergency calls requiring action to mitigate bushfire danger are received through Operation and Maintenance contractors Control Room supporting the 24-hour emergency contact arrangement and escalated to the Asset Manager / authorised representative for action. The process will support timely assessment, implementation of risk controls and escalation of bushfire or electrical safety risks
Telephone (24/7 emergency number)	1300 578 525
Email	operations.au@europeanenergy.com

Operations and Maintenance Contact	Roshan Dharmasena
Position	Managing Director
Company	Photon Renewable Services
Telephone	1300 414 250
Email	roshan@photonservices.com.au

Emergency Services	Call 000 in the event of fire, medical emergency or immediate threat to life or property.
Local CFA / Fire Control Authority Contact	Winton CFA / CFA North East Region 1 Ely Street Wangaratta, VIC 3677 Telephone: (03) 5720 2300 Fax: (03) 57213497

AusNet / Glenrowan Terminal Station Interface Contact	AusNet Services – Transmission Operations / Network Interface
Purpose of Contact	Glenrowan Terminal Station and network interface coordination, including outage planning, control room coordination, emergency escalation and incident response interface.
Outage Planning / VNSC Planners	03 8610 3003 Primary / 03 8623 1416 Back-up
Email	vnscplanner@ausnetservices.com.au
Control Room / TOC Controllers 24/7	03 9420 2103 / 03 9420 2104
Escalation / Shift Manager 24/7	03 9229 3721
Email	shift.manager@ausnetservices.com.au
Emergency Incident Controller	03 8623 1451
Email	emergency@ausnetservices.com.au

Table 2 – Contacts

2 Distribution

Copies of this Bushfire Mitigation Plan have been issued to the following persons and organisations.

Energy Safe Victoria	Regulatory review and acceptance.
EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust	Specified operator, project SPV, asset owner and principal for the Winton North Project, including the 33 kV transmission line and associated connection assets. EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust remains responsible for preparation, implementation and carrying out of this Plan.
European Energy Australia Pty Ltd, Asset Manager	Asset Manager engaged to support implementation, asset management, operational oversight, monitoring, audit and record keeping on behalf ofEE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust. Responsibility for this Plan remains with EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust.
EE Australia EPC 1 Pty Ltd, O&M contractor	O&M Contractor / support entity engaged to carry out assigned inspection, operation and maintenance activities, including coordination of vegetation management and line clearance subcontractors, on behalf of the Asset Manager and specified operator.
AusNet Services – Transmission Operations / Network Interface	Glenrowan Terminal Station and network interface coordination.
Winton CFA	Emergency response interface and bushfire preparedness consultation, where required.

Table 3 - Distribution

A controlled copy of this Plan will be maintained by European Energy Australia Pty Ltd, in its capacity as Asset Manager and Operator's representative. Printed copies are uncontrolled unless marked otherwise.

A hard copy of the accepted Winton North Bushfire Mitigation Plan will be available for inspection at the specified operator's principal office in Victoria during ordinary business hours. Please contact the Asset Manager at Operations.au@europeanenergy.com for a current accepted copy.

Copies of the accepted Plan will be available for inspection at Level 3, 33 Stewart Street, Richmond VIC 3121 during 9:00am to 5:00pm Monday to Friday, excluding public holidays.

The accepted Winton North Bushfire Mitigation Plan will be made available for inspection on https://au.europeanenergy.com/solar/winton-north-solar-farm/ in accordance with section 83BA(3)(a) of the Electricity Safety Act 1998.

Where this Plan is updated, revised copies will be issued to relevant personnel, contractors and stakeholders responsible for carrying out activities under this Plan.

3 Introduction

EE Solar 12 Pty Ltd, acting as Trustee for EE Solar 12 Trust, is the project SPV, asset owner, principal and specified operator of the Winton North Solar Farm, Battery Energy Storage System and associated connection assets, including the Project owned section of the 33 kV overhead transmission line.

The Winton North Project comprises a solar farm, battery energy storage system and associated electrical infrastructure (the "Project") located at Winton North, Victoria, within the Benalla Rural City Council local government area. The Project connects to Glenrowan Terminal Station by an approximately 5 km 33 kV transmission line, comprising approximately 1.5km of underground cable in trenches and approximately 3.6km of overhead transmission line. The route, pole locations, span profiles and associated asset details are shown in 260670-TL-ELE-DWG-009 – 33 kV OH Line Schedule and 260670-TL-ELE-DWG-0001 to 260670-TL-ELE-DWG-007 – OH Line Profile Sheets.

This Bushfire Mitigation Plan applies to the Project owned section of the 33 kV overhead transmission line between the Winton North Project and Glenrowan Terminal Station. The 33 kV overhead transmission line is treated as an at-risk electric line for the purposes of this Plan.

The line route passes through a rural environment that includes grassland, access tracks, retained vegetation, tree protection zones, native vegetation areas and the project connection corridor. Site plans, route drawings, pole schedules and vegetation mapping identifying the 33 kV overhead transmission line and surrounding land are included in the appendices to this Plan.

This Bushfire Mitigation Plan has been prepared to support compliance with section 83BA of the Electricity Safety Act 1998 and the Electricity Safety (Bushfire Mitigation) Regulations 2023. The Plan documents the arrangements used to minimise, as far as practicable, the risk of fire ignition from the 33 kV overhead transmission line.

The Bushfire Mitigation Policy EE-AU-PO-COR-BM-0001 has been provided as supporting evidence for this Plan. The policy must apply to, and be adopted by, EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust as the specified operator for the Winton North Project 33 kV overhead transmission line.

This Plan should be read in conjunction with the Bushfire Mitigation Policy, the Winton North Project Electric Line Clearance Management Plan and the supporting project documents listed in Section 12.

4 Bushfire Mitigation Policy

EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust, as the specified operator, will establish, adopt and maintain a Bushfire Mitigation Policy EE-AU-PO-COR-BM-0001 that sets out its commitment to minimising, as far as practicable, the risk of fire ignition from at-risk electric lines under its control.

The Bushfire Mitigation Policy is required by Regulation 6(e) of the Electricity Safety (Bushfire Mitigation) Regulations 2023 and will be maintained as a controlled document within the Project's management system. The policy must include current and accurate legislative references and must clearly state that it applies to EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust for the Winton North Project 33 kV overhead transmission line.

The policy applies to the Winton North Project 33 kV overhead transmission line and supports the implementation of this Bushfire Mitigation Plan by setting out the specified operator's commitment to inspection, maintenance, vegetation management, defect rectification, emergency response, training, audit, review and continual improvement.

The Bushfire Mitigation Policy will commit the specified operator to:

- Manage the 33 kV overhead transmission line to minimise, as far as practicable, the risk of fire ignition
- Inspect and maintain the 33 kV overhead transmission line in accordance with this Plan and applicable regulatory requirements
- Identify, prioritise and rectify defects that may increase bushfire risk
- Maintain vegetation clearance in accordance with the Winton North Project Electric Line Clearance Management Plan
- Manage hot works and other ignition sources through the Project's Permit to Work Procedure and Hot Work Permit
- Apply additional controls during the Fire Danger Period, Total Fire Ban days and elevated fire danger conditions
- Maintain emergency preparedness and response arrangements for fires involving or occurring near the 33 kV overhead transmission line
- Engage trained and competent personnel and contractors to carry out activities under this Plan
- Report, investigate and close out fires, faults, near misses and incidents that may affect bushfire risk
- Provide reasonable assistance to fire control authorities in relation to fires involving or occurring near the 33 kV overhead transmission line
- Monitor, audit and review the effectiveness of bushfire mitigation controls

The Project is also governed by the development approval endorsed management plans, including the Fire Management Plan, Fire Risk Assessment and other supporting project management plans prepared to address CFA guidelines, planning permit requirements and relevant governing requirements. These documents support the implementation of this Plan but do not replace the requirement for a Bushfire Mitigation Policy under Regulation 6(e).

The current Bushfire Mitigation Policy will be available to Energy Safe Victoria upon request and is referenced in Section 12 of this Plan.

5 Definitions and Abbreviations

Term / Abbreviation	Definition
At-risk electric line	An electric line, other than a private electric line, that is above the surface of land and located in a hazardous bushfire risk area, as defined under the Electricity Safety Act 1998.
BESS (Battery Energy Storage System)	A system used to store electrical energy for later dispatch. For the Winton North Project, this refers to the battery energy storage system associated with the solar farm.
BMP (Bushfire Mitigation Plan)	This Bushfire Mitigation Plan for the Winton North Project 33 kV overhead transmission line.
Bushfire	An unplanned vegetation fire, including grass fire, scrub fire or forest fire.
CFA (Country Fire Authority)	The fire authority responsible for fire prevention and response functions across country areas of Victoria.
Control Room	The nominated operational control point for the Winton North Project 33 kV overhead transmission line. Contact details are available in Table 2: Contacts.
Asset Manager	European Energy Australia Pty Ltd, in its capacity as asset manager for the Winton North Project.
Project SPV / Asset Owner	EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust, being the special purpose vehicle and asset owner for the Winton North Project.
SPV (Special Purpose Vehicle)	A project-specific legal entity established for a particular project or asset. For this Plan, the project SPV is EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust.
EE (European Energy)	Used only where referring to the broader European Energy corporate group, public-facing website, or existing corporate procedures, systems or documents bearing the European Energy name.
ELCMP (Electric Line Clearance Management Plan)	The management plan that documents the procedures and controls for maintaining vegetation clearance around electric lines.
Emergency Services	Emergency response agencies including CFA, Fire Rescue Victoria, Victoria Police, Ambulance Victoria and other relevant emergency management agencies.
ESV (Energy Safe Victoria)	The Victorian technical and safety regulator responsible for electricity, gas and pipeline safety.
Fire Danger Period	A period declared under the Country Fire Authority Act 1958 during which fire restrictions apply in the relevant municipal district.
Fire control authority	The relevant authority responsible for fire prevention, suppression or investigation activities, including CFA where applicable.
(GNTS) Glenrowan Terminal Station	The terminal station to which the Winton North Project connects via the 33 kV transmission line.
HBRA (Hazardous Bushfire Risk Area)	An area designated as a hazardous bushfire risk area for the purposes of electrical safety and bushfire mitigation requirements.
Hot works	Work activities that may generate heat, flame, sparks or other ignition sources, including welding, grinding, cutting, soldering or similar activities.
LBRA (Low Bushfire Risk Area)	An area designated as a low bushfire risk area for the purposes of electrical safety and bushfire mitigation requirements.
O&M (Operations and Maintenance)	Activities associated with operating, inspecting, maintaining and repairing the 33 kV overhead transmission line and associated assets.
PTW (Permit to Work)	The Project's permit to work process used to authorise and control defined work activities, including hot works, vegetation management, excavation and other higher-risk works.
Specified operator	The operator of an at-risk electric line, other than a major electricity company, as defined under the Electricity Safety Act 1998. For this Plan, the specified operator is EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust.
(TFB) Total Fire Ban	A day declared by CFA on which fires in the open air are prohibited or restricted under applicable legislation and emergency management requirements.

Winton North Project	The Winton North Solar Farm and associated infrastructure, including the 33 kV transmission line connecting the project to Glenrowan Terminal Station.
33 kV transmission line	The approximately 5 km 33 kV connection between the Winton North Project and Glenrowan Terminal Station, comprising approximately 1.5 km of underground cable and approximately 3.6 km of overhead transmission line.
33 kV overhead transmission line	The approximately 3.6 km overhead section of the Winton North Project 33 kV transmission line that is within the scope of this Plan.

Table 4 – Definitions and Abbreviations

6 Objectives of the Plan

The objective of this Bushfire Mitigation Plan is to outline the controls adopted by the specified operator to reduce the risk of fire ignition from the Winton North Project 33 kV overhead transmission line, and to manage bushfire risk to assets, personnel, contractors, emergency responders, landholders and the surrounding community.

This Plan provides an integrated set of procedures and controls to support the reduction of bushfire risk through electrical asset inspection and management, defect rectification, vegetation management, ignition source control, emergency preparedness, contractor management, monitoring and auditing.

The specific objectives of this Plan are to:

- Comply with the Electricity Safety Act 1998 and the Electricity Safety (Bushfire Mitigation) Regulations 2023
- Document the processes and procedures for implementing, monitoring and reviewing bushfire mitigation strategies for the Winton North Project 33 kV overhead transmission line
- Maintain a program of asset inspections consistent with the assessed level of risk and within the minimum inspection interval of 37 months as defined in the Electricity Safety (Bushfire Mitigation) Regulations 2023
- Operate and maintain the 33 kV overhead transmission line with controls to minimise the risk of fire ignition from electrical assets, defects, faults or abnormal operating conditions
- Identify, prioritise and rectify asset defects that may increase the risk of fire ignition
- Manage vegetation fuel loads and electric line clearances in accordance with the Winton North Project Electric Line Clearance Management Plan, applicable environmental approvals and relevant regulatory requirements
- Control hot works and other ignition sources through the applicable Permit to Work Procedure, Hot Work Permit and related safe work processes
- Apply additional controls during the Fire Danger Period, Total Fire Ban days and elevated fire danger conditions
- Maintain emergency preparedness and response arrangements for fires involving or occurring near the 33 kV overhead transmission line
- Ensure personnel and contractors carrying out activities under this Plan are trained, competent and authorised for their assigned tasks
- Report, investigate and close out fires, faults, near misses and incidents that may affect bushfire risk
- Assess the performance of programs supporting this Plan and identify opportunities for continual improvement
- Communicate and coordinate with Energy Safe Victoria, CFA, AusNet, emergency services and other relevant external agencies where required

The effective application of this Plan is intended to reduce bushfire risk associated with the 33 kV overhead transmission line. Residual fire risk will be managed through the Project's emergency preparedness and response arrangements, including the Winton North Project Emergency Preparedness and Response Management Plan, the endorsed Fire Management Plan, Environmental Management Plan and Fire Risk Assessment, and other relevant operational fire management procedures.

6.1 As Far As Practicable Definition

The specified operator recognises that it has a duty under the Electricity Safety Act 1998 to minimise, as far as practicable:

(a) the hazards and risks to the safety of any person arising from the installation

(b) the hazards and risks of damage to the property of any person arising from the installation

(c) the bushfire danger arising from the installation

This Bushfire Mitigation Plan defines As Far As Practicable (AFAP) as prioritising maximum risk reduction over standard cost-benefit compromises through the following criteria:

- Safety-First Mandate: All technically feasible engineering and operational controls must be deployed to eliminate or minimise bushfire ignition risks within the operating corridor
- Statutory Risk Assessment: Risk mitigation choices are determined by evaluating the severity of the bushfire hazard, current industry state of knowledge, and the availability of suitable technology
- Strict Cost Threshold: Cost is never used to avoid a safety control unless the financial burden is grossly disproportionate
- Continuous Improvement: Engineering standards and operational practices are systematically upgraded as new, safer mitigation methods become available to the industry

7 Site Responsibilities

EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust is responsible, as the project SPV, asset owner and specified operator, for ensuring that this Bushfire Mitigation Plan is implemented for the Winton North Project 33 kV overhead transmission line.

European Energy Australia Pty Ltd, in its capacity as Asset Manager, is responsible for carrying out this Plan on behalf of EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust.

The person responsible for carrying out this Plan is Tatenda Gwekwe, Head Asset Management & Operations, European Energy Australia Pty Ltd in its capacity as Asset Manager.

This Plan is implemented through the Project's asset management, operations and maintenance, vegetation management, permit to work, emergency preparedness, contractor management, monitoring and review processes.

Activities required under this Plan are completed by the Asset Manager, O&M Contractor, subcontractors engaged by the O&M Contractor including the vegetation management / line clearance contractor, and other suitably qualified contractors engaged for the Project.

7.1 Manager Responsibilities

European Energy Australia Pty Ltd, in its capacity as Asset Manager, is responsible for ensuring that this Plan is carried out for the Winton North Project 33 kV overhead transmission line.

Role / party	**Responsibilities under this Plan**
Asset Manager, European Energy Australia Pty Ltd	○ Overall responsibility for carrying out this Plan ○ Ensure the 33 kV overhead transmission line is operated and maintained in accordance with this Plan ○ Ensure inspection and maintenance activities are planned, completed and recorded ○ Ensure the 33 kV overhead transmission line is inspected at intervals not exceeding 37 months, or more frequently where required based on risk, asset condition, fire danger conditions, faults or incidents ○ Ensure defects that may increase bushfire risk are identified, prioritised, rectified and closed out ○ Ensure vegetation management and electric line clearance activities are coordinated with the Winton North Project Electric Line Clearance Management Plan ○ Ensure hot works, vegetation management, electrical works and other higher-risk activities are controlled through Project's Permit to Work Procedure and relevant permits ○ Ensure emergency preparedness and response arrangements are maintained for fire events involving or occurring near the 33 kV overhead transmission line ○ Ensure firefighting equipment and emergency response resources relevant to the 33 kV overhead transmission line are inspected, maintained and available where required ○ Ensure personnel and contractors undertaking activities under this Plan are trained, competent and authorised for their assigned tasks ○ Ensure incidents, fires, faults, near misses and non-conformances that may affect bushfire risk are reported, investigated and closed out ○ Ensure records required under this Plan are retained and available for review

	○ Ensure this Plan is monitored, audited, reviewed and resubmitted to Energy Safe Victoria as required
Project Manager, EE Australia EPC 1 Pty ltd	○ Support preparation, review and update of this Plan ○ Coordinate required information from the Asset Manager, contractors, regulators and other relevant stakeholders ○ Support document control, review comments and updates required before submission to Energy Safe Victoria
O&M Contractor, EE Australia EPC 1 Pty ltd	○ Complete assigned inspection, operation and maintenance activities for the 33 kV overhead transmission line ○ Record inspection outcomes, maintenance works, defects and corrective actions in the nominated maintenance management system / O&M contractor system ○ Support defect prioritisation, rectification and verification activities ○ Manage and coordinate subcontractors engaged to undertake specialist activities, including vegetation management / line clearance works ○ Support emergency response activities involving or occurring near the 33 kV overhead transmission line, where required
Photon Renewable Services	○ Undertake vegetation management / line clearance activities as a subcontractor to the O&M Contractor ○ Complete assigned vegetation inspection, clearance, cutting, removal, urgent works and verification activities ○ Carry out works in accordance with this Plan, the Winton North Project Electric Line Clearance Management Plan, the Code of Practice for Electric Line Clearance and relevant environmental requirements ○ Record vegetation inspection outcomes, clearance works and urgent works ○ Escalate vegetation conditions that may increase bushfire ignition risk
Contractors working on or near the 33 kV overhead transmission line	○ Comply with the applicable Permit to Work Procedure, site access requirements, safe work method statements, risk assessments and permits ○ Comply with emergency response, environmental, electrical safety and contractor management requirements ○ Report hazards, incidents, fires, near misses, defects and non-conformances that may affect bushfire risk ○ Maintain required training, competency, licence and authorisation records for assigned work activities

Table 5 – Manager Responsibilities

Where a responsibility is assigned to a contractor, EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust remains responsible, as the specified operator, for ensuring that the activity is completed in accordance with this Plan and applicable regulatory requirements.

7.2 Site Management Procedure for the BMP

This Plan is managed as a controlled document within the Project's management system.

Implementation of this Plan is managed through the following processes:

- Allocation of responsibilities to the persons and roles listed in Section 1
- Use of the Project's Permit to Work Procedure for work activities requiring permit control, including vegetation management, hot works, excavation, electrical works, lifting and other higher-risk work activities
- Use of the Hot Work Permit for work activities that generate flame, sparks, heat or other ignition sources

- Use of work orders, inspection records, maintenance records, defect registers or the nominated maintenance management system / O&M contractor system to record inspections, maintenance works, defects and corrective actions
- Use of the Winton North Project Electric Line Clearance Management Plan to manage vegetation clearance requirements for the 33 kV overhead transmission line
- Use of the Winton North Project Emergency Preparedness and Response Management Plan to manage emergency response arrangements for fire events involving or occurring near the 33 kV overhead transmission line
- Use of contractor management processes to verify contractor qualifications, competencies, safe systems of work and compliance with Project requirements
- Review of incidents, fire events, faults, emergency response activities, audit findings and corrective actions
- Retention of records required to demonstrate implementation of this Plan

This Plan is reviewed annually, or earlier where required following a material change, incident, audit finding, regulatory request or change to the 33 kV overhead transmission line, operation, maintenance or contractor arrangements.

This Plan will be reviewed at the interval stated in the Review Details section, following any material change to the 33 kV overhead line, following a relevant incident or fire event, or following a request from Energy Safe Victoria. The Plan will be reviewed and resubmitted to Energy Safe Victoria in the following circumstances:

- At minimum every 5 years from the date of the last acceptance
- As requested by Energy Safe Victoria
- Whenever any change to this Plan is proposed

Where a deficiency is identified in this Plan or its implementation, the Asset Manager will review the deficiency, determine corrective actions, assign responsibility for implementation, and verify close-out.

7.3 Site Location and Map

The Winton North Project is located at Winton North, Victoria, within the Benalla Rural City Council local government area. The project area is located in north-east Victoria, approximately 16 km east of Benalla, 21 km west of Wangaratta and 175 km north-east of Melbourne.

The Winton North Project connects to Glenrowan Terminal Station by an approximately 5 km 33 kV transmission line, comprising approximately 1.5 km of underground cable and approximately 3.6 km of overhead transmission line. This Plan applies to the Project owned 33 kV overhead transmission line between the Winton North Project and Glenrowan Terminal Station.

For the purposes of this Plan, the applicable Fire Weather District for the 33 kV overhead transmission line is the Northern Country Fire Weather District.

The broader Winton North Solar Farm and BESS site straddles the Northeast and Northern Country Fire Weather Districts; however, this Plan applies only to the 33 kV overhead transmission line, which is located within the Northern Country Fire Weather District.

The 33 kV transmission line route passes through a rural environment that includes grassland, access tracks, retained vegetation, native vegetation, tree protection zones, underground trenching areas, proposed pole locations and the Project connection corridor. The route and associated vegetation mapping identify areas of derived native vegetation, planted vegetation, scattered trees, patch trees and ecological vegetation classes relevant to bushfire mitigation and vegetation management.

A map identifying the at-risk 33 kV overhead transmission line route, including pole numbers is provided in Appendix A. The plan also distinguishes the assets owned, operated and controlled by EE Solar 12 Pty Ltd as Trustee for EE Solar 12 Trust from those owned, operated or controlled by AusNet at the Glenrowan Terminal Station. The at-risk electric line details for the 33 kV overhead transmission line are provided in Appendix B.

The detailed site, route and asset drawings are listed in Appendix C and include the site layout plan, connection plans, overhead line profile sheets, pole construction drawings, underground-to-overhead termination drawings, through termination drawings, insulator arrangement drawings, conductor blowout charts, stringing charts, 33 kV transmission line schedule, single line diagram, protection diagrams and supporting asset drawings.

Vegetation mapping relevant to the 33 kV transmission line is contained in the Winton North Project Electric Line Clearance Management Plan and supporting vegetation documents, including the Native Vegetation Management Plan and Transmission Line Vegetation Impact Footprint.

Current site plans, route drawings, pole schedules, single line diagrams, vegetation mapping and supporting asset drawings are retained by the Asset Manager and are available to Energy Safe Victoria upon request.

The 33 kV overhead transmission line route is not affected by a Bushfire Management Overlay as informed in the Electric Line Clearance Management Plan, however it is in a Hazardous Bushfire Risk Area (HBRA).

For the purposes of this Plan, the whole 33 kV overhead transmission line corridor is treated as a Hazardous Bushfire Risk Area as a conservative compliance basis, having regard to the rural setting, Bushfire Prone Area mapping, vegetation conditions and bushfire risk context for the Project.

8 Preventative Strategies

The specified operator, through the Asset Manager, will implement preventative strategies to minimise, as far as practicable, the risk of fire ignition from the Winton North Project 33 kV overhead transmission line.

The preventative strategies adopted for the 33 kV overhead transmission line include:

Ignition source / Hazard	Preventative strategy	Application to the 33 kV overhead transmission line
Deterioration of electrical equipment leading to failure causing short circuit and release of electricity	Electrical asset inspection	Inspection of poles, conductors, insulators, cross-arms, fittings, stays, earthing, underground-to-overhead terminations, protection equipment and associated line hardware
	Electrical asset maintenance	Maintenance and corrective works to address defects, deterioration, damage, loose fittings, damaged insulators, damaged conductors, earthing defects or other asset conditions that may increase the risk of fire ignition
	Defect identification and prioritisation	Recording, risk assessment, prioritisation and close-out of defects based on potential impact to electrical safety, asset integrity, reliability and bushfire ignition risk
Identified defects present during most at risk fire start period	Pre-bushfire season readiness	Review of asset inspection records, open defects, vegetation clearance status, emergency access, fire response arrangements and outstanding corrective actions before the Fire Danger Period
Vegetation growing near overhead line contacts line causing short circuit and release of electricity	Vegetation management and line clearance	Inspection and management of vegetation near the 33 kV overhead transmission line in accordance with the Winton North Project Electric Line Clearance Management Plan
Vegetation blown into energised overhead line causing release of electricity	Protection settings	Protection design and settings consider risk of blown vegetation or other detritus impacting the 33 kV overhead transmission line
Flammable material near potential fire start locations increase the risk of a fire growing out of control	Fuel load management	Management of vegetation and combustible material near the 33 kV overhead transmission line, access tracks, pole locations, work areas and other areas relevant to bushfire risk
Hot works create sparks and heat causing ignition of flammable material	Hot works control	Control of welding, grinding, cutting, heating and other spark or flame-producing activities through the Project's Permit to Work Procedure and Hot Work Permit
Some activities with an increased risk of ignition may be conducted on high fire risk days	Total Fire Ban and elevated fire danger controls	Review, restriction or postponement of work activities that may generate ignition sources during Total Fire Ban days, the Fire Danger Period or elevated fire danger conditions
Weather that increases the chance of fire start (hot windy conditions) not considered when doing works that have a risk of fire start	Weather and fire danger monitoring	Monitoring of fire danger ratings, Total Fire Ban declarations, emergency warnings and weather conditions before and during work activities that may affect bushfire risk

Uncoordinated / ineffective response to a fire start will be detrimental to managing the consequence of the fire	Emergency preparedness and response	Maintenance of emergency preparedness and response arrangements, including emergency communications, site access information, emergency contacts, response roles and isolation / shutdown arrangements
Energised line can present a risk during certain conditions such as emergency management or unsafe asset conditions	Isolation and de-energisation	Isolation or de-energisation of the relevant electrical asset where required to manage fire, fault, emergency response or unsafe asset conditions
Contractors not familiar with fire start hazards do not follow controls	Contractor management	Verification that contractors are inducted, trained, competent, authorised and working under approved safe systems of work and permits
Findings and corrective actions from incidents not addressed in a timely manner	Incident reporting and investigation	Reporting, investigation and corrective action for fires, faults, near misses, hot works events, vegetation contact, asset failures or other incidents that may affect bushfire risk
Findings and corrective actions from monitoring and audits not addressed in a timely manner	Monitoring and auditing	Monitoring and audit of inspection, maintenance, vegetation management, permit, emergency response and corrective action processes under this Plan

Table 6 –Preventative Strategies

The 33 kV overhead transmission line asset inspection program will include, as a minimum, inspection of the line assets identified in the project electrical and transmission line drawing package, including poles, conductors, cross-arms, insulators, fittings, stays, earthing, underground-to-overhead termination arrangements, optical fibre assets and associated line hardware.

Vegetation management activities will include inspection of vegetation near the 33 kV overhead transmission line, identification of vegetation that may enter the required clearance space, identification of hazard trees, planning and completion of cutting or removal works where required, and verification that clearance works have been completed.

Hot works and other ignition source activities will be managed through the Project's Permit to Work Procedure and Hot Work Permit. Hot works must not proceed unless the required risk assessment, permit, fire danger checks, work area controls, fire suppression equipment and communications are in place.

During the Fire Danger Period, Total Fire Ban days and elevated fire danger conditions, the Asset Manager or its nominated contractor will review planned works and apply additional controls where required. These controls may include postponing non-essential hot works, restricting vehicle or plant movement in vegetated areas, confirming firefighting equipment is available, confirming emergency communications are available, checking weather and fire danger conditions, and escalating higher-risk works to the responsible manager before work proceeds.

The Winton North Project Fire Risk Assessment, Fire Management Plan, Environmental Management Plan, Emergency Preparedness and Response Management Plan, Permit to Work Procedure, Hot Work Permit and Electric Line Clearance Management Plan support the implementation of the preventative strategies in this section.

9 List of All Works

The works and activities required to implement this Bushfire Mitigation Plan include inspection, maintenance, vegetation management, ignition source control, emergency preparedness, incident response, monitoring and review activities associated with the Winton North Project 33 kV overhead transmission line.

Works carried out under this Plan include:

- Inspection and maintenance of the 33 kV overhead transmission line and associated assets
- Identification, recording, prioritisation and rectification of defects that may increase bushfire ignition risk
- Inspection and management of vegetation near the 33 kV overhead transmission line
- Maintenance of electric line clearance requirements in accordance with the Winton North Project Electric Line Clearance Management Plan
- Pre-bushfire season review of asset condition, open defects, vegetation clearance status and emergency preparedness arrangements
- Control of hot works and other ignition sources through the Project's Permit to Work Procedure and Hot Work Permit
- Implementation of work restrictions and additional controls during the Fire Danger Period, Total Fire Ban days and elevated fire danger conditions
- Investigation of fires, faults, near misses and incidents involving or occurring near the 33 kV overhead transmission line
- Training and competency verification for personnel and contractors performing activities under this Plan
- Coordination with Energy Safe Victoria, CFA, AusNet, emergency services and other relevant external agencies where required
- Inspection and maintenance of firefighting equipment and emergency response resources relevant to the 33 kV overhead transmission line and Winton North Project site
- Contractor management, supervision and verification of safe systems of work
- Monitoring, auditing, review and improvement of this Plan

Records of works completed under this Plan will be retained by the Asset Manager or its nominated contractor in accordance with the Project's document control, maintenance management and record keeping requirements.

9.1 Electrical Asset Management

The Asset Manager will manage the Winton North Project 33 kV overhead transmission line through inspection, operation and maintenance activities designed to minimise, as far as practicable, the risk of fire ignition from electrical assets.

The 33 kV transmission line connects the Winton North Project to Glenrowan Terminal Station and is approximately 5 km in length. The design and asset details for the 33 kV transmission line are documented in the project electrical and transmission line drawing package, including the 33 kV OH Line Schedule, OH Line Profile Sheets, Single Line Diagram, Protection Single Line Diagrams, Interlocking Single Line Diagram and supporting asset drawings listed in Appendix C.

Activity	Requirement
Routine overhead line inspection	Inspect the 33 kV overhead transmission line at intervals not exceeding 37 months from the date of the previous inspection, or more frequently where required based on risk, asset condition, fire danger conditions, faults, incidents, storm events or fire events.
Pre-bushfire season review	Complete a pre-bushfire season review before the Fire Danger Period each year.
Post-event inspection	Complete additional inspections following faults, storm events, fire events, lightning events, abnormal operating conditions, asset damage or other events that may affect bushfire ignition risk.
Defect management	Record, assess, prioritise, rectify and close out defects that may increase bushfire ignition risk.
Records	Retain inspection records, maintenance records, defect records, corrective action records and verification records in the nominated maintenance management system / O&M contractor system.

Table 7 – Electrical Asset Inspection and Maintenance Requirements

The 33 kV overhead transmission line inspection and maintenance program will include the following assets and components, where applicable.

Asset / component	Inspection and maintenance focus
Poles and pole footings	Condition, damage, movement, deterioration, footing condition and access to structure.
Cross-arms and pole-top structures	Damage, deterioration, alignment, loose components, condition of fixings and structural integrity.
Conductors	Damage, broken strands, sag, clearance, evidence of overheating, arcing, clashing or abnormal condition.
Insulators	Damage, contamination, cracking, tracking, flashover marks, security and condition.
Conductor ties, clamps, fittings and line hardware	Loose, damaged, deteriorated, missing or failed components.
Stays, where installed	Condition, tension, corrosion, anchorage and damage.
Earthing arrangements	Condition, continuity, damage, corrosion and connection integrity.
Underground-to-overhead termination arrangements	Condition of terminations, cable sealing, surge protection, support structures and associated hardware.
Surge arresters and associated protection equipment, where installed	Condition, damage, signs of operation, tracking, overheating or abnormal condition.
Signs, labels and asset identification markers	Presence, legibility and condition.
Optical fibre or communication assets associated with the 33 kV overhead transmission line, where installed	Condition, attachment, clearance and damage.
Access tracks, pole access areas and work areas	Access condition, obstructions, vegetation, erosion and ability to support inspection, maintenance and emergency response.
Vegetation near the 33 kV overhead transmission line	Clearance status, encroachment risk, hazard trees, fuel load and vegetation conditions relevant to the Winton North Project Electric Line Clearance Management Plan.

Table 8 – 33 kV Overhead Transmission Line Asset Inspection Scope

Inspections of the 33 kV overhead transmission line will be undertaken using a combination of ground-based visual inspections, close-up inspections and other condition-assessment techniques as appropriate to the asset type, accessibility, identified defects and bushfire ignition risk.

The following inspection methods will apply:

- Ground-based visual inspection: Visual assessment of poles, pole footings, cross-arms, conductors, insulators, fittings, stays, earthing arrangements, surge arresters, signage, vegetation clearance and access conditions. Inspections to be performed as part of each routine overhead line inspection, at intervals not exceeding 37 months, and during the annual pre-bushfire season review where required.
- Close-up inspection: Closer examination of suspected defects, including damaged or deteriorated components, loose fittings, corrosion, conductor damage, tracking, arcing or other abnormal conditions identified during visual inspections. Inspections to be performed where defects or potential risks are identified, and following faults, storms, lightning, fire or other events that may affect asset condition.
- Vegetation and clearance assessment: Assessment of vegetation encroachment, hazard trees, fuel load and vegetation clearance in accordance with the Project's Electric Line Clearance Management Plan. Inspections to be performed during routine inspections and the annual pre-bushfire season review, with additional inspections where vegetation growth, weather conditions or identified hazards warrant.
- Post-event condition assessment: Targeted inspection of affected assets following faults, storms, lightning, fire, abnormal operating conditions, third-party damage or other events that may increase bushfire ignition risk. Inspections to be performed as soon as practicable following the event and before return to service where required by the nature of the event or identified defect.
- Thermal inspection: Where warranted, thermal imaging may be used to identify abnormal heating at electrical connections, conductor fittings, terminations and other accessible components under suitable operating conditions. Inspections to be performed where indicated by visual inspection, operational history, abnormal loading, fault history or other identified risks.

The inspection method selected for each activity will be determined by the Asset Manager or nominated O&M Contractor based on the asset being inspected, the nature of the potential defect, accessibility, operating conditions and the associated electrical safety and bushfire ignition risks.

Inspection scheduling and interval control for the 33 kV overhead transmission line will be managed through the FIIX Computerised Maintenance Management System (CMMS) / Bazefield site monitoring system.

The previous inspection date, next due date, inspection status, inspector, inspection scope and completion evidence will be recorded for each inspection. The Asset Manager, or nominated O&M Contractor, will monitor upcoming and overdue inspections and escalate any missed, deferred or incomplete inspections to ensure that each subsequent inspection of the at risk electrical line is completed at an interval not exceeding 37 months from the date of the last inspection.

A pre-bushfire season review will include the following.

Item	Review requirement
Inspection records	Review the most recent 33 kV overhead transmission line inspection records.
Open defects	Review open defects and corrective actions, with priority given to defects that may increase bushfire ignition risk.
Vegetation clearance	Review vegetation clearance status and outstanding vegetation works.
Access	Review access tracks and access arrangements required for inspection, maintenance and emergency response.

Firefighting equipment	Review firefighting equipment and emergency response resources relevant to the 33 kV overhead transmission line.
Emergency arrangements	Review emergency contact, control room, isolation and de-energisation arrangements.

Table 9 – Pre-Bushfire Season Review Requirements

Defects identified during inspections, maintenance activities, faults, incidents or audits will be recorded in the nominated maintenance management system / O&M contractor system. Defects will be assessed and prioritised based on the potential risk to health and safety, electrical asset integrity, reliability, property, environment and bushfire ignition risk.

Examples of defects or conditions that may increase bushfire ignition risk include:

- Damaged or deteriorated insulators
- Loose, damaged or failed conductor fittings
- Damaged conductors or conductor strands
- Damaged cross-arms or pole-top structures
- Pole damage, movement or deterioration
- Earthing defects
- Evidence of electrical tracking, arcing, overheating or flashover
- Vegetation encroachment or vegetation contact risk
- Damage caused by storms, lightning, fire, third-party activity or vehicle impact
- Access restrictions that prevent inspection, maintenance or emergency response

Corrective actions will be assigned to a responsible person, given a priority and tracked through to completion. Completed corrective actions will be verified to confirm that the identified defect or risk has been addressed.

Defect and maintenance items for the 33 kV overhead transmission line will be recorded and managed in the nominated FIIX CMMS. The system will record the defect description, asset or pole location, source of identification, date raised, risk assessment, priority, responsible person, target completion date, status, evidence of rectification, verification outcome and close-out date.

The Asset Manager, or nominated O&M Contractor, will monitor due and overdue items, assign actions, escalate overdue or deteriorating defects, verify completion evidence and close items only once the defect or maintenance item has been addressed.

Defects will be reassessed where new information becomes available, where asset condition deteriorates, where the Fire Danger Period is approaching, where a defect becomes overdue, or where an inspection, incident or operational event indicates a change in bushfire ignition risk. Reprioritisation and escalation decisions will be recorded in the FIIX CMMS.

Defect Priority	**Criteria**	**Target Completion Timeframe**	**Escalation / Verification Requirement**
Priority 1 / Immediate	Defect or condition presents an immediate or credible bushfire ignition risk, electrical safety risk, public safety risk or asset integrity risk.	Immediate make-safe action, isolation or other required controls within 24 hours of identification (or sooner where necessary). Permanent rectification to be completed as soon as practicable, preferably within 7 days, unless	Immediate escalation to Asset Manager / authorised operational contact. Make-safe, isolate, de-energise, restrict access or apply other controls where required. Completion must be verified and closed with evidence.

		an alternative timeframe is supported by a documented risk assessment and approved by the Asset Manager.	
Priority 2 / High	Defect or condition may increase bushfire ignition risk if not corrected before the Fire Danger Period or before deterioration occurs.	Rectification to be completed within 14 days of identification and, in all cases, before the commencement of the applicable Fire Danger Period, unless a documented risk assessment supports an alternative timeframe. Where immediate rectification is not practicable, interim risk controls must be implemented.	Escalate to Asset Manager if not completed by target date or if condition deteriorates. Reassess risk and reprioritise where required.
Priority 3 / Routine	Defect or maintenance item does not present immediate bushfire ignition risk but requires planned correction to maintain asset condition and reliability.	Rectification to be completed within 30 days of identification or during the next planned maintenance window, whichever is earlier and reasonably practicable. Any extension must be documented and supported by a risk assessment.	Track in work-management system until completion. Verify completion evidence before close-out.
Monitor / Reassess	Condition requires ongoing monitoring, engineering review, additional inspection or reassessment.	Reassessment timeframe to be specified based on the identified risk, with a default maximum interval of 30 days unless a documented engineering or risk assessment supports a longer period. Any deterioration or increased bushfire risk must trigger an earlier reassessment and, where required, reprioritisation.	Record next inspection / reassessment date and escalate if condition deteriorates or bushfire risk increases.

Table 10 – Defect prioritisation categories

The Winton North Solar Farm 33 kV Substation Testing and Commissioning Management defines testing and commissioning controls relevant to the 33 kV substation and associated electrical assets. These controls support the transition of the 33 kV electrical assets from construction to operation. All inspection, maintenance, testing, switching, isolation and defect rectification activities on or near the 33 kV overhead transmission line must be carried out by trained, competent and authorised personnel. Persons assigned to carry out inspections of the at-risk electric line under Regulation 6(j) must have satisfactorily completed UET20621 Certificate II in ESI – Asset Inspection and Testing, or an equivalent training course approved by Energy Safe Victoria, and must be competent to carry out the inspection task.

Before any person is assigned to inspect the at-risk electric line under Regulation 6(i), the Asset Manager or nominated O&M Contractor must verify course completion, competency, currency and any refresher or reassessment requirements. Dashpivot is used for permits, contractor onboarding, HSE Observation and Audits, SharePoint is used as a central data repository for capturing and managing information, including SWMS, training and competency records, risk registers, Safety Data Sheets (SDS), and vehicle documentation.

Electrical works and access to electrical assets will be managed in accordance with the Project's Permit to Work Procedure, applicable electrical safety requirements, access procedures, switching and isolation requirements, safe work method statements and contractor management requirements.

In the event of a fire, electrical fault, abnormal operating condition or emergency involving or occurring near the 33 kV overhead transmission line, the Asset Manager will assess the condition of the line and implement appropriate operational controls. These controls may include restricting access, stopping work, isolating or de-energising the relevant asset, conducting an inspection before return to service, notifying the control room or emergency contact, and notifying relevant external parties where required.

Details of the 33 kV overhead transmission line assets are provided in Appendix B – At-Risk Electric Line Details. Relevant drawings and asset documents are listed in Appendix C – Site, Route and Asset Drawings, including overhead line profile sheets, pole construction drawings, underground-to-overhead termination drawings, through termination drawings, insulator arrangement drawings, conductor blowout charts and stringing charts.

9.2 Vegetation Management and Line Clearance

The Asset Manager will manage vegetation near the Winton North Project 33 kV overhead transmission line on behalf of the specified operator to minimise, as far as practicable, the risk of fire ignition from vegetation contact, vegetation encroachment, hazard trees or excessive fuel loads near the line.

Vegetation management and electric line clearance activities will be undertaken in accordance with this Plan, the Winton North Project Electric Line Clearance Management Plan, the Electricity Safety (Electric Line Clearance) Regulations 2026, the Code of Practice for Electric Line Clearance and relevant environmental approval requirements.

The Winton North Project Native Vegetation Management Plan and Transmission Line Vegetation Impact Footprint identify vegetation values, retained vegetation, vegetation removal areas, tree protection zones, pole impact areas, access track impact areas, underground trenching areas and other vegetation constraints relevant to the 33 kV transmission line corridor.

Vegetation clearing will be limited to the extent permitted under the endorsed Native Vegetation Management Plan, approved vegetation impact areas and applicable environmental approval requirements.

Vegetation management activities for the 33 kV overhead line include the following.

Activity	Requirement
Vegetation inspection	Inspect vegetation near the 33 kV overhead transmission line to identify vegetation that is within, or may grow into, the required clearance space.
Clearance assessment	Assess vegetation clearance requirements having regard to conductor location, span length, sag, sway, vegetation regrowth and applicable clearance requirements.
Hazard tree identification	Identify trees or limbs that may fall, bend, break or otherwise come into contact with the 33 kV overhead transmission line.
Pre-bushfire season verification	Verify vegetation clearance status before the Fire Danger Period and identify outstanding clearance works that may affect bushfire risk.

Cutting, trimming or removal	Complete vegetation cutting, trimming or removal works where required to maintain clearance, manage hazard trees or reduce bushfire ignition risk within the clearing limits permitted by the endorsed Native Vegetation Management Plan and applicable approvals.
Environmental controls	Manage indigenous vegetation, retained vegetation, tree protection zones and other environmental constraints in accordance with the endorsed Native Vegetation Management Plan, Transmission Line Vegetation Impact Footprint and project environmental requirements.
Urgent vegetation works	Implement urgent works where vegetation is in contact with, or presents an immediate risk of contact with, the 33 kV overhead transmission line, subject to applicable electrical safety, emergency response and environmental requirements.
Records	Retain vegetation inspection records, clearance work records, urgent works records, photographs where applicable, and verification records.

Table 11 – Vegetation Management and Line Clearance Activities

Where vegetation is identified as being within, or likely to enter, the required clearance space before the next scheduled inspection or clearance activity, corrective action will be planned and completed in accordance with the risk presented by the vegetation and the requirements of the Winton North Project Electric Line Clearance Management Plan.

Vegetation removal, trimming or clearing must not exceed the extent permitted under the endorsed Native Vegetation Management Plan, approved vegetation impact areas or applicable environmental approval requirements unless further approval is obtained or emergency works are required to address an immediate safety or bushfire risk.

Where vegetation is in contact with, or presents an immediate risk of contact with, the 33 kV overhead transmission line, the situation will be managed as an urgent works matter. Controls may include restricting access, stopping work, engaging a suitably qualified vegetation management contractor, isolating or de-energising the relevant section of line, notifying the control room or emergency contact, and notifying affected landholders or authorities where required.

Vegetation management and line clearance works near the 33 kV overhead transmission line must be carried out by suitably trained, competent and authorised personnel or contractors. Works must be completed in accordance with relevant safe work method statements, permits, electrical safety requirements, environmental controls and Project contractor management requirements.

Vegetation management works that require permit control will be managed through the Project's Permit to Work Procedure. The Permit to Work Procedure identifies vegetation management as a General Work Permit activity and includes vegetation clearing works, landscape management, tree removal and landscape remediation work.

Vegetation inspection and clearance records will be retained in the nominated maintenance management system / O&M contractor system and made available for review where required.

9.3 Hot Works

Hot works associated with the Winton North Project 33 kV transmission line must be managed to minimise, as far as practicable, the risk of fire ignition from flame, sparks, heat, hot metal, slag or other ignition sources.

Hot works include activities that generate flame, sparks or heat, including:

- Grinding
- Cutting

- Welding
- Heating
- Oxy acetylene works
- Arc welding
- Gas cutting or welding
- Other activities that generate flame, sparks or heat

Hot works must be managed in accordance with the Project's Permit to Work Procedure and Hot Work Permit.

A Hot Work Permit must be obtained before hot works commence. The Hot Work Permit is valid for one task only and must be returned and closed out when the work is complete.

Before hot works are undertaken, the responsible person or contractor must confirm that:

- A risk assessment has been completed, understood and signed by the workers performing the work
- There is no Total Fire Ban or other relevant fire restriction in place
- If works are undertaken during the Fire Danger Period, any required Fire Authority or local council permit is in place
- A responsible person is appointed and remains on hand at all times during the work
- The work area is free and clear of flammable materials
- A shield or guard is used where required to prevent movement of sparks, hot metal or slag during cutting, grinding or welding
- Adequate water supply or fire extinguishers are available to prevent the spread of fire
- The responsible person has a UHF radio or mobile phone and mobile reception has been confirmed at the work location
- The work area is inspected following completion of the task to confirm that materials and tools have been removed and the area is in a clean and safe condition

Hot works must not be undertaken during a Total Fire Ban Day unless the works are essential, authorised and permitted in accordance with applicable legislative requirements, Fire Authority requirements, the Project's Permit to Work Procedure and any site-specific emergency response requirements.

Hot works near the 33 kV overhead transmission line must also consider electrical hazards and access controls. Where required, electrical isolation, de-energisation, exclusion zones, No Go Zone controls, access permits or electrical supervision must be implemented before work commences.

Any fire, near miss, uncontrolled ignition source, hot works non-compliance or hot works-related incident must be reported, investigated and closed out in accordance with the Project's incident reporting and corrective action processes.

9.4 Days of Total Fire Ban

The Asset Manager will apply additional controls to works associated with the Winton North Project 33 kV transmission line during the Fire Danger Period, Total Fire Ban Days and elevated fire danger conditions.

Before works commence during the Fire Danger Period, the Asset Manager or its nominated contractor will check the applicable Fire Danger Rating, Total Fire Ban status, weather conditions and emergency warnings for the Northern Country Fire Weather District and the Winton North Project work area.

The Winton North Fire Management Plan requires pre-emptive bushfire awareness actions to be undertaken during the declared Fire Danger Period. These include monitoring CFA and Vic Emergency information sources, conducting visual assessments and completing preparedness checks at the frequencies required by the Fire Management Plan.

Where a Total Fire Ban Day has been declared, any works onsite must not present an ignition risk unless undertaken in a fuel-free area, covered by an applicable exemption, or supported by required authorisations and adequate ignition suppression resources.

Hot works on Total Fire Ban Days must be managed in accordance with Section 9.3 and must not proceed unless the works are essential, authorised and permitted in accordance with CFA requirements, legislative requirements and the Project's Permit to Work Procedure.

Where works involving fire, flame, sparks, heat or other ignition sources are proposed during the Fire Danger Period or on a Total Fire Ban Day, the Asset Manager or its nominated contractor will confirm whether a CFA, Fire Authority or local council permit is required before works proceed. Any permit conditions must be complied with.

During the Fire Danger Period, Total Fire Ban Days and elevated fire danger conditions, the Asset Manager or its nominated contractor will review planned works and apply controls having regard to the current fire danger rating and site conditions. Controls may include:

- Postponing non-essential ignition source activities
- Restricting slashing, mowing, vegetation management or plant movement in long grass or unmanaged vegetation
- Confirming vehicles and plant remain on formed tracks where practicable
- Confirming fire extinguishers or firefighting equipment are available in vehicles and at work locations
- Confirming emergency communications are available at the work location
- Confirming access tracks, gates and emergency access points remain available for emergency response
- Monitoring CFA and VicEmergency warnings throughout the day where conditions require
- Closing or restricting access to parts of the site in response to escalating fire danger
- Suspending works where conditions present an unacceptable fire ignition or fire spread risk

On days of Catastrophic Fire Danger Rating, no persons are to be onsite unless attending to approved emergency repairs or other authorised emergency response activities.

Emergency switching, isolation or de-energisation of the relevant section of the 33 kV transmission line may be undertaken during a Total Fire Ban Day or elevated fire danger conditions where required to protect life, property, electrical safety or to mitigate bushfire risk. These activities must be undertaken by trained, competent and authorised personnel in accordance with applicable switching, access and electrical safety requirements.

Any fire, near miss, uncontrolled ignition source, permit breach or incident during the Fire Danger Period or on a Total Fire Ban Day must be reported, investigated and closed out in accordance with the Project's incident reporting and corrective action processes.

9.5 Investigations

The Asset Manager will investigate fires, faults, near misses, asset failures or incidents involving the Winton North Project 33 kV overhead transmission line where there is actual or potential bushfire ignition risk.

Investigations will be undertaken in accordance with this Plan and the Project's incident reporting and investigation process, using ICAM or as per AS/NZS IEC 62740:2016 appropriate to the event severity and complexity.

The investigation methodology will include event notification, initial risk control, scene preservation where safe, appointment of an investigation lead, evidence collection, interviews where required, review of inspection, maintenance, protection, switching, control room, weather, vegetation and work activity records, identification of immediate and root causes, corrective action assignment, verification of close-out and review of lessons learned.

Investigation outcomes will be used to determine whether changes are required to this Plan, the inspection program, maintenance program, defect priority system, vegetation management arrangements, contractor controls, emergency response arrangements, training or audit program.

Events that may require investigation under this Plan include:

- Fire involving or occurring near the 33 kV overhead transmission line
- Suspected fire ignition from the 33 kV overhead transmission line or associated electrical assets
- Electrical fault involving the 33 kV overhead transmission line
- Protection operation, abnormal electrical event or unplanned outage with potential bushfire ignition risk
- Vegetation contact, near contact or hazard tree event involving the 33 kV overhead transmission line
- Asset defect, damage or failure with potential to cause ignition
- Hot works, slashing, mowing, vehicle, plant or contractor activity that results in fire, smoke, sparks, near miss or uncontrolled ignition source
- Environmental incident or non-compliance that may affect bushfire mitigation, vegetation management, access, fire protection or emergency response arrangements
- Emergency switching, isolation or de-energisation associated with fire risk
- Firefighting, emergency response or access issue that may affect bushfire mitigation performance

Investigations will consider, where relevant:

Investigation area	Matters to be reviewed
Electrical asset condition	Condition of poles, conductors, cross-arms, insulators, fittings, earthing, terminations and associated line hardware
Electrical event information	Protection operation, fault records, switching history, control room records and abnormal operating information
Inspection and maintenance records	Recent 33 kV overhead transmission line inspections, open defects, completed maintenance and corrective action history
Vegetation condition	Vegetation clearance status, hazard trees, fuel loads, recent vegetation works and relevant ELCMP records
Environmental controls	Relevant EMP requirements, environmental constraints, no-go areas, vegetation controls, access controls and environmental inspection records
Weather and fire danger conditions	Fire Danger Rating, Total Fire Ban status, temperature, wind, humidity, lightning, storm activity and relevant warnings
Work activities	Recent hot works, vegetation works, electrical works, vehicle movements, plant activity, contractor activity or other ignition source work
Emergency response	Notifications, emergency communications, site access, isolation / de-energisation actions, emergency response actions and liaison with emergency services
External factors	Third party interference, vehicle impact, animal contact, vandalism, external fire source or other external contributing factors

Table 12 – Investigation Review Areas

Where a fire originates from, involves, or is suspected to involve the 33 kV overhead transmission line, the Asset Manager will notify Energy Safe Victoria where required and will provide reasonable assistance to fire control authorities investigating the fire.

Assistance to fire control authorities may include:

- Providing site access information
- Providing site plans, route drawings and asset drawings
- Providing information on the location and configuration of the 33 kV transmission line
- Providing inspection, maintenance, defect and vegetation clearance records where relevant
- Providing switching, isolation or de-energisation information where relevant
- Providing technical information on electrical assets and protection operation where relevant
- Supporting preservation of the incident scene where safe and practicable
- Supporting investigation meetings, site inspections and information requests where required

Incident scenes will be preserved where required and where it is safe to do so. Access to the incident area will be controlled to prevent disturbance of evidence, protect personnel and maintain electrical safety.

Incidents, near misses, observations, unsafe conditions and non-conformances will be recorded in the Dashpivot system.

Corrective actions will be assigned to a responsible person, given a target completion date and tracked through to close-out and verified before closure. Overdue corrective actions or actions linked to elevated bushfire risk will be escalated to the Asset Manager or authorised representative.

Where an investigation identifies a deficiency in this Plan, asset inspection, maintenance, vegetation management, emergency response, environmental controls, training, contractor management or permit controls, the Asset Manager will update the relevant process, procedure, work instruction or Plan section as required.

9.6 Training and Competence

The Asset Manager will ensure that personnel and contractors carrying out activities under this Plan are trained, competent and authorised for the work they perform.

Training and competency requirements apply to personnel and contractors involved in:

- Inspection, operation and maintenance of the 33 kV overhead transmission line
- Electrical work, switching, isolation, testing and access activities
- Vegetation inspection, cutting, trimming and removal near the 33 kV overhead transmission line
- Hot works and other activities that may generate ignition sources
- Permit to Work activities, including permit issuing and authorised person responsibilities
- Fire prevention, emergency preparedness and emergency response activities
- Incident reporting, investigation and corrective action
- Contractor supervision and work verification

The minimum training and competency requirements for activities under this Plan are outlined below.

Activity / role	**Required training, competency or authorisation**
Personnel carrying out inspections of the at-risk electric line	UET20621 Certificate II in ESI - Asset Inspection and Testing, or an equivalent training course approved by Energy Safe Victoria, plus competency to carry out the assigned inspection task. Course

	completion, competency, currency and refresher or reassessment requirements must be verified before inspection work is assigned.
Electrical work on or near the 33 kV overhead transmission line	Relevant electrical licence / qualification, site authorisation, site induction, relevant Permit to Work, approved SWMS / JSEA, and competency for the assigned electrical work
High voltage access, switching and isolation activities	HV access authorisation, switching authorisation, isolation competency, lock out / tag out competency, and project-specific switching or access authorisation required by the Asset Manager the appointed O&M contractor
Permit Issuers	Project Permit to Work Training Presentation, document EE-AU-TL-COR-HS-0060
Authorised Persons in Charge	Project Permit to Work Training Presentation, document EE-AU-TL-COR-HS-0060
Recipients in Charge for electrical works	Project Permit to Work Training Presentation, document EE-AU-TL-COR-HS-0060, plus electrical access / isolation competency relevant to the work
Hot works personnel	Task-specific competency for welding, grinding, cutting, heating, oxy acetylene or arc welding activities, Hot Work Permit requirements, SWMS / JSEA requirements, fire prevention controls, emergency communication requirements and use of required firefighting equipment
Vegetation management and line clearance personnel	UET20321 Certificate II in ESI – Powerline Vegetation Control, or equivalent Energy Safe Victoria accepted competency for vegetation control work near live electrical apparatus
Vegetation workers working near live overhead electric lines	Current certificate approved by Energy Safe Victoria specifying satisfactory completion of training in tree clearing near live overhead electric lines, and competency to comply with the Electrical Safety Rules for Vegetation Management Work Near Overhead Powerlines
Vegetation workers performing cutting, trimming or removal using chainsaws	Current chainsaw competency relevant to the task, such as trim and cut felled trees, cross-cut fallen trees, operate and maintain chainsaws, or equivalent competency accepted by the Asset Manager, O&M Contractor or appointed vegetation management / line clearance subcontractor
Vegetation workers using elevated work platforms	Current elevated work platform competency / high risk work licence where required for the plant used
Vegetation workers undertaking traffic or access control works	Current traffic management competency where works affect roads, access tracks, traffic movement or public access
Vegetation workers working near electrical assets	No Go Zone / working near overhead powerlines training, safe approach distance competency, site induction and relevant permit / access authorisation
Arborist assessment of hazard trees or structurally defective trees	Suitably qualified arborist, minimum AQF Level 5 Diploma in Arboriculture, where required to assess hazard trees, structurally defective trees or trees that may fall onto or otherwise contact the 33 kV overhead transmission line
Emergency Controller	Emergency Controller / Warden Training, sometimes referred to as Emergency Coordinator training
Emergency Response Team members	Emergency response role training, induction into the Winton North Project Emergency Preparedness and Response Management Plan, and Operating Fire Extinguishers training
First aiders	Provide Basic Emergency Life Support, Provide First Aid, Advanced First Aid where required by site risk assessment, and current CPR / LVR where required for electrical work activities
All site personnel and contractors	Site induction covering emergency reporting, evacuation procedures, muster points, fire prevention requirements, Total Fire Ban controls, permit requirements and incident reporting
Personnel undertaking incident investigation	Competency in the Project's incident reporting and investigation process, including ICAM or equivalent investigation methodology where required by the level or complexity of the incident
Contractor supervisors	Contractor management requirements, SWMS / JSEA review requirements, site induction, Permit to Work requirements and emergency response requirements

Table 13 – Training, Competency and Authorisation Requirements

The Project's Permit to Work Procedure requires authorised persons, including Permit Issuers, Authorised Persons in Charge and Recipients in Charge, to complete the required Permit to Work training. Attendance records are to be retained for persons who complete Permit to Work training.

The Project's Health and Safety Management Plan requires electrical works to be performed by trained, licenced and competent persons and contractors in accordance with their safe system of work and Project contractor requirements.

The Project's Emergency Preparedness and Response Management Plan requires personnel nominated or delegated with emergency response responsibilities to be competent to perform their duties. Emergency response training includes, where relevant, Emergency Controller / Warden Training, Emergency Response Team role training, Emergency Preparedness and Response Management Plan induction, Operating Fire Extinguishers training, Provide Basic Emergency Life Support, first aid training, evacuation procedures and emergency simulation exercises.

The Asset Manager or its nominated contractor must verify vegetation management and line clearance competencies before works commence. Evidence of qualifications, licences, training, authorisations and experience must be retained in the nominated training register, HSE SharePoint, contractor management system or O&M contractor system.

Personnel and contractors must be inducted into the relevant site requirements before commencing work associated with the 33 kV overhead transmission line. Induction and training must include the requirements relevant to their role, including:

- Bushfire mitigation requirements under this Plan
- Emergency reporting and escalation requirements
- Fire Danger Period and Total Fire Ban controls
- Permit to Work requirements
- Hot works controls
- Vegetation management and electric line clearance controls
- Electrical safety and access requirements
- Incident and hazard reporting requirements
- Environmental constraints and no-go areas relevant to the work

Training, competency, induction and authorisation records will be retained in the nominated training register, HSE SharePoint, contractor management system or O&M contractor system.

Where a person is not trained, competent, licenced or authorised for an assigned activity, the work must not proceed until the required competency, licence or authorisation has been verified.

9.7 External Agencies

The Asset Manager will liaise with relevant external agencies and interface parties where required to support bushfire mitigation, emergency preparedness, incident response and regulatory compliance for the Winton North Project 33 kV overhead transmission line.

External agencies and interface parties relevant to this Plan include:

Agency / interface party	Relevance to this Plan

Energy Safe Victoria	Regulatory review and acceptance of this Plan, engagement regarding the 33 kV overhead transmission line, and regulatory notification where required
Country Fire Authority	Fire prevention, bushfire preparedness, fire response, fire investigation, Total Fire Ban requirements, Fire Danger Period requirements and project fire management consultation
AusNet Services	Glenrowan Terminal Station and network interface coordination
Australian Rail Track Corporation (ARTC)	Rail operator interface, access, notification and coordination where the 33 kV overhead transmission line crosses or interfaces with the railway corridor
VicTrack	Rail owner interface, access, notification and coordination where the 33 kV overhead transmission line crosses or interfaces with the railway corridor
Benalla Rural City Council	Local government interface, local roads, access, planning conditions and local emergency management matters
Department of Energy, Environment and Climate Action	Environmental and land management interface where relevant to vegetation, fire risk or land management matters
Department of Transport and Planning	Road, transport or planning interface where relevant to access, works or emergency response
Victoria Police	Emergency response and site access support where required
Ambulance Victoria	Emergency medical response where required
WorkSafe Victoria	Workplace incident notification and investigation where required
Environment Protection Authority Victoria	Environmental incident notification and response where required
Local hospital / medical services	Emergency medical response support where required
Landholders / occupiers	Access, notification and consultation where works or emergency response may affect adjoining land

Table 14 – External Agencies and Interface Parties

AusNet Services transmission operations contacts are listed in Section 1 for outage planning, control room coordination, emergency escalation and incident response interface associated with Glenrowan Terminal Station.

ARTC and VicTrack interface requirements will be managed where works, access, inspections, vegetation management, emergency response or other activities associated with the 33 kV overhead transmission line may affect the railway corridor.

The Asset Manager has engaged with Energy Safe Victoria in relation to the Winton North Project and the requirement for a Bushfire Mitigation Plan for the 33 kV overhead transmission line. Energy Safe Victoria advised that, where the 33 kV overhead transmission line is owned and operated by the specified operator, the line requires a Bushfire Mitigation Plan under section 83BA of the Electricity Safety Act 1998.

The Project's Fire Management Plan and Fire Risk Assessment were endorsed under the development approval in consultation with, and approval from, CFA. The requirements and recommendations from those documents will be considered when implementing this Plan.

The Asset Manager will provide reasonable assistance to fire control authorities in relation to fires involving or occurring near the 33 kV overhead transmission line. Assistance may include:

- Providing access information for the Winton North Project and the 33 kV transmission line corridor
- Providing site plans, route drawings, pole schedules and asset drawings
- Providing information on the location and configuration of the 33 kV transmission line
- Providing information on electrical hazards, isolation, de-energisation and safe access arrangements

- Providing emergency contact and control room contact details
- Providing inspection, maintenance, defect and vegetation clearance records where relevant
- Providing information on firefighting water supply, emergency access, firebreaks and emergency response resources where relevant
- Supporting site familiarisation with CFA and other emergency responders where required
- Supporting investigation of fires involving or occurring near the 33 kV overhead transmission line

The Asset Manager will make emergency information available to emergency responders in accordance with the Winton North Project Emergency Preparedness and Response Management Plan, Fire Management Plan and relevant project approval requirements.

Where an emergency event occurs, the Asset Manager will coordinate with emergency services through the nominated Emergency Controller, control room, emergency contact or other nominated representative. Emergency communications will be managed in accordance with the Winton North Project Emergency Preparedness and Response Management Plan.

Reporting to Energy Safe Victoria, WorkSafe Victoria, EPA Victoria or other external agencies will be undertaken where required by legislation, regulatory requirements, project approval conditions or Project procedures.

9.8 Fire Detection and Firefighting Equipment

The Asset Manager will maintain fire detection, fire protection, firefighting equipment and emergency information relevant to the Winton North Project and the 33 kV overhead transmission line to support early reporting, safe response and bushfire risk mitigation.

Fire detection, protection and firefighting arrangements for the Winton North Project include:

Item	Requirement
Firefighting water supply	Firefighting water supply is provided in accordance with the Winton North Fire Management Plan and project approval requirements.
Solar farm water tanks	The solar farm layout includes five 45,000 L water storage tanks located to support firefighting access across the facility.
BESS water tanks	The BESS layout includes water storage tanks with a combined capacity of 288,000 L located immediately south of the BESS.
Fire hydrants	Fire hydrants are provided as part of the permanent infrastructure components for the facility.
Fire extinguishers	Fire extinguishers are provided for relevant work activities, vehicles, plant, hot works, maintenance activities and emergency response requirements.
Plant and heavy equipment during the Fire Danger Period	Plant and heavy equipment used onsite during the Fire Danger Period must carry at least a 9 L water stored-pressure fire extinguisher with a minimum rating of 3A, or other firefighting equipment as required by the relevant risk assessment or work method statement.
Emergency information cabinets	Emergency information cabinets are provided at vehicle entrance points to the solar farm, external to security fencing or locked gates.
Emergency information	Emergency information includes current site plans, access details, emergency contacts, AusNet / Glenrowan Terminal Station interface contacts, ARTC / VicTrack rail interface information where relevant, site hazards, fire services, isolation / shutdown information, dangerous goods information and relevant emergency response procedures.
Emergency access	Emergency access roads, gates, access tracks and firebreaks are maintained to support access for emergency services and inspection / maintenance activities.
Communications equipment	UHF radio or mobile phone communication is required for work activities with bushfire or emergency response risk, including hot works and works during the Fire Danger Period.

Firebreaks and vegetation management	Firebreaks and vegetation management are maintained in accordance with the Fire Management Plan, Electric Line Clearance Management Plan and relevant planning permit requirements.
Electrical isolation and shutdown information	Electrical isolation, de-energisation and shutdown information is maintained and made available to emergency responders where required.

Table 15 – Fire Detection, Firefighting and Emergency Response Resources

Firefighting equipment required for works associated with the 33 kV overhead transmission line must be identified before the work commences. This includes hot works, vegetation management, slashing, mowing, use of plant or vehicles in grassed areas, electrical inspection and maintenance, switching, fault response and emergency response activities.

The Asset Manager or its nominated contractor will confirm that firefighting equipment required for the relevant work activity is available, accessible, serviceable and suitable for the work location and fire risk conditions.

Fire extinguishers, firefighting water supplies, emergency access routes, communications equipment and emergency information relevant to the Winton North Project and 33 kV overhead transmission line will be inspected, maintained and reviewed in accordance with the Winton North Project Fire Management Plan, Emergency Preparedness and Response Management Plan, Project procedures and applicable approval requirements.

Where works are undertaken during the Fire Danger Period, Total Fire Ban Days or elevated fire danger conditions, the Asset Manager or its nominated contractor will confirm that required firefighting equipment and emergency communication arrangements are in place before works commence.

Emergency information relevant to the 33 kV transmission line route, including access points, route drawings, pole locations, isolation arrangements and interface contacts, will be made available to emergency responders where required.

Any missing, damaged, inaccessible or unserviceable firefighting equipment, emergency information or emergency access arrangement will be recorded and corrected through the nominated maintenance management system, O&M contractor system or corrective action process.

9.9 Contractors

Contractors and subcontractors engaged to perform works associated with the Winton North Project 33 kV overhead transmission line must be trained, competent, authorised and suitably qualified for the work they undertake.

Contractor activities relevant to this Plan include:

- Electrical inspection, testing, switching, isolation and maintenance
- Overhead line inspection and condition assessment
- Defect rectification and corrective maintenance
- Vegetation inspection, cutting, trimming and removal
- Electric line clearance works
- Hot works
- Slashing, mowing and fuel load management
- Civil works, access track maintenance and firebreak maintenance
- Fire protection, firefighting equipment inspection and maintenance
- Emergency response support
- Incident investigation support where required

Contractors and subcontractors must comply with this Plan, the Winton North Project Electric Line Clearance Management Plan, the Project's Health and Safety Management Plan, Permit to Work Procedure, site access requirements, emergency response requirements, environmental requirements and applicable safe systems of work.

Before commencing works associated with the 33 kV overhead transmission line, contractors and subcontractors must provide evidence of the following, where relevant to their scope of work:

Requirement	Evidence required
Qualifications and licences	Copies of relevant qualifications, licences, tickets and authorisations
Competency	Evidence of competency for assigned tasks, including electrical work, line inspection, vegetation management, hot works, plant operation, first aid or emergency response duties
Site induction	Evidence that personnel have completed the required Project site induction
SWMS / JSEA	Approved Safe Work Method Statement, Job Safety and Environment Analysis or equivalent task-based risk assessment
Permit to Work	Required permits issued under the Project's Permit to Work Procedure
Electrical safety	Electrical access, isolation, switching, No Go Zone, safe approach distance or other electrical safety authorisations where required
Emergency response	Evidence that relevant personnel understand emergency reporting, evacuation, fire response and communication requirements
Environmental controls	Evidence that relevant environmental constraints, vegetation protection requirements and no-go areas have been communicated
Insurances and approvals	Contractor insurances, prequalification and approval requirements required by the Asset Manager, O&M Contractor or project requirements

Table 16 – Contractor Pre-Commencement Evidence Requirements

Contractors and subcontractors undertaking work on or near the 33 kV overhead transmission line must comply with:

- Project contractor management requirements
- Site induction and access requirements
- Permit to Work requirements
- Electrical safety, access and isolation requirements
- No Go Zone and approach distance requirements
- Approved SWMS, JSEA and risk assessments
- Hot works and ignition source controls
- Total Fire Ban and Fire Danger Period controls
- Environmental and vegetation protection requirements, including the endorsed Native Vegetation Management Plan
- Emergency response and communication requirements
- Incident, hazard, near miss and non-conformance reporting requirements
- Corrective action and close-out requirements

The Project's Permit to Work Procedure applies to contractor activities that require permit control, including vegetation management, hot works, excavation, electrical works, lifting and other higher-risk activities. Contractors and subcontractors must not commence permit-controlled works until the required permit has been issued and the relevant controls have been communicated and understood.

Where a contractor has its own permit to work system, the Asset Manager will review the contractor system before accepting its use. A contractor permit system must be equal to or better than the Project's Permit to Work Procedure and must not compromise worker safety, electrical safety, environmental protection or bushfire risk controls.

Contractors or subcontractors undertaking vegetation management or electric line clearance works must meet the competency requirements in Section 9.6 and must carry out works in accordance with the Winton North Project Electric Line Clearance Management Plan, the Code of Practice for Electric Line Clearance, applicable electrical safety requirements and environmental approval requirements.

Contractors undertaking electrical inspection, maintenance, switching, isolation or defect rectification works must be trained, licenced, competent and authorised for the assigned task. Electrical works must be performed in accordance with applicable electrical safety requirements, switching and isolation requirements, permits, approved work methods and Project requirements.

The Asset Manager, O&M Contractor or its nominated representative will monitor contractor and subcontractor performance where required to verify that works are completed safely, competently and in accordance with this Plan. Monitoring may include review of permits, SWMS / JSEA, inspection records, maintenance records, vegetation clearance records, incident reports, corrective actions and field verification of completed works.

Any contractor or subcontractor incident, fire, near miss, unsafe condition, non-conformance, permit breach or failure to comply with this Plan must be reported and managed in accordance with the Project's incident reporting, investigation and corrective action processes.

Where contractor or subcontractor performance presents an unacceptable bushfire, electrical safety, environmental or health and safety risk, the Asset Manager may stop the work, require corrective action, remove personnel from the work activity, suspend access or escalate the matter in accordance with Project contractor management requirements.

10 Monitoring

The Asset Manager will monitor the implementation of this Bushfire Mitigation Plan to verify that bushfire mitigation activities for the Winton North Project 33 kV overhead transmission line are being planned, completed, recorded and reviewed.

Monitoring will be coordinated by the Head Asset Management & Operations, or their nominated representative, with input from the Project Manager, O&M Contractor, vegetation management / line clearance subcontractor, HSE representatives and other relevant personnel or contractors where required.

Monitoring activities under this Plan include:

Monitoring area	Monitoring activity
33 kV overhead transmission line inspections	Review inspection completion against the required inspection interval to ensure that each subsequent inspection is completed at an interval not exceeding 37 months from the date of the previous inspection and confirm inspection records are retained.
Defect management	Track open defects, defect priority, corrective actions, completion status and verification of close-out
Pre-bushfire season readiness	Confirm completion of pre-bushfire season review activities, including asset condition, open defects, vegetation clearance status, emergency contacts, access and firefighting equipment
Vegetation management	Review vegetation inspection records, clearance works, urgent works, hazard tree actions and electric line clearance records, including confirmation that vegetation works remain within the limits permitted by the endorsed Native Vegetation Management Plan and applicable approvals
Permit to Work	Review permits for higher-risk activities, including hot works, vegetation management, excavation, electrical works, lifting and other permit-controlled works
Hot works	Review Hot Work Permits, fire danger checks, required authorisations, fire prevention controls and permit close-out
Fire Danger Period and Total Fire Ban controls	Confirm fire danger ratings, Total Fire Ban declarations, weather conditions and emergency warnings are checked before relevant works proceed
Emergency preparedness	Review emergency contact details, control room arrangements, AusNet / Glenrowan Terminal Station interface contacts, ARTC / VicTrack rail interface information where relevant, emergency access, communications, site emergency information and response resources
Firefighting equipment	Confirm firefighting equipment and fire protection systems relevant to the 33 kV overhead transmission line and Winton North Project are inspected, maintained and available where required
Training and competence	Review training, competency, induction, licence and authorisation records for personnel and contractors carrying out activities under this Plan
Contractor management	Monitor contractor compliance with this Plan, permit requirements, safe work method statements, environmental controls and emergency response requirements
Incidents and investigations	Review fires, faults, near misses, incidents, non-conformances, investigation findings, corrective actions and lessons learned
External agency interface	Review actions arising from engagement with Energy Safe Victoria, CFA, AusNet, ARTC / VicTrack, emergency services, local council or other relevant agencies
Plan deficiencies	Identify deficiencies in this Plan or its implementation and track corrective actions through to completion

Table 17 – BMP Monitoring Activities

Monitoring records will be retained in the nominated maintenance management system, O&M contractor system, HSE SharePoint or corrective action register.

Inspection effectiveness monitoring will be completed by the Head Asset Management & Operations, or nominated representative, at least annually and following relevant defects, incidents, post-event inspections or audit findings. The review will consider inspection completion, inspection quality, open defects, repeat defects, missed or deferred inspections, post-event inspection outcomes, vegetation findings, incident history and corrective action status. Outcomes will be recorded in the monitoring record, audit record, inspection register, work-management system or corrective action register.

Where inspection-performance issues are identified, the Asset Manager will assign corrective actions, review inspection scope or frequency, require additional field verification or refresher training, update inspection instructions and verify close-out.

Where monitoring identifies a deficiency in this Plan or its implementation, the Asset Manager will record the deficiency, assign corrective actions, nominate a responsible person, establish completion timeframes and verify close-out. Monitoring outcomes will be considered during review of this Plan and used to support continual improvement of bushfire mitigation arrangements for the 33 kV overhead transmission line.

11 Auditing and Reporting

EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust, the Asset Manager will audit the implementation of this Bushfire Mitigation Plan at least annually to assess whether the requirements of this Plan have been implemented and remain effective in minimising bushfire ignition risk from the Winton North Project 33 kV overhead transmission line.

The audit will be coordinated by the Head Asset Management & Operations, or their nominated representative, and may be undertaken by a competent internal or external auditor independent of the activity being audited. The audit will be recorded in the Dashpivot system.

The audit will assess the implementation of this Plan, including the principal BMP activities and records relied on to demonstrate compliance.

Audit area	Audit requirement
Electrical asset inspection	Confirm that the 33 kV overhead transmission line inspection program has been implemented and that inspections have been completed within the required inspection interval
Inspection effectiveness	Review inspection outcomes, open defects, repeat defects, post-event inspections and relevant incident history to confirm whether the inspection scope and frequency remain appropriate
Defect management	Confirm that defects that may increase bushfire ignition risk have been recorded, prioritised, actioned and closed out
Vegetation management	Confirm that vegetation inspection and clearance activities relevant to the 33 kV overhead transmission line have been completed in accordance with the Winton North Project Electric Line Clearance Management Plan and within the limits permitted by the endorsed Native Vegetation Management Plan and applicable approvals
Pre-bushfire season readiness	Confirm that pre-bushfire season review activities required by this Plan have been completed
Permit to Work and hot works	Confirm that permit-controlled activities relevant to bushfire risk have been managed in accordance with the Project's Permit to Work Procedure and Hot Work Permit
Fire Danger Period and Total Fire Ban controls	Confirm that relevant controls have been applied where works were undertaken during the Fire Danger Period, Total Fire Ban Days or elevated fire danger conditions
Emergency preparedness	Confirm that emergency contacts, control room arrangements, AusNet / Glenrowan Terminal Station interface contacts, ARTC and VicTrack rail interface information where relevant, emergency access information and response arrangements relevant to the 33 kV overhead transmission line remain current
Firefighting equipment	Confirm that firefighting equipment and emergency response resources relevant to the 33 kV overhead transmission line are inspected, maintained and available where required
Training and competence	Confirm that personnel and contractors carrying out activities under this Plan are trained, competent and authorised for their assigned tasks
Contractor management	Confirm that contractors undertaking works under this Plan are inducted, authorised and managed in accordance with Project requirements
Incident reporting and investigation	Confirm that fires, faults, near misses, incidents and non-conformances relevant to this Plan have been reported, investigated and closed out where required
External agency interface	Confirm that relevant reporting, engagement or consultation with Energy Safe Victoria, CFA, AusNet, ARTC, VicTrack, emergency services, local council or other relevant agencies has been completed where required
Records	Confirm that records required under this Plan are retained and available for review

Table 18 – BMP Audit Requirements

The audit will address the requirements of regulation 6(n) of the Electricity Safety (Bushfire Mitigation) Regulations 2023, including monitoring and auditing the implementation of this Plan, identifying deficiencies, rectifying deficiencies, and monitoring and auditing the effectiveness of inspections carried out under this Plan.

Where the audit identifies a deficiency in this Plan or its implementation or the effectiveness of inspections, the Asset Manager will record the finding, assign corrective actions, to a responsible person, set completion timeframes, monitor progress and verify completion evidence and close the action only once the deficiency has been addressed.

Audit outcomes will be reviewed by the Head, Asset Management & Operations, or nominated representative, and used to improve the BMP, inspection program, maintenance program, defect management process, training, contractor management and emergency response arrangements where required.

The Bushfire Mitigation Plan will be reviewed and resubmitted to Energy Safe Victoria if required in accordance with Section 7.2.

Inspection-effectiveness audits will review whether inspection scope, frequency, personnel competency, inspection records, asset samples, defect outcomes, post-event inspection outcomes and repeat findings demonstrate that inspections are effective. Field verification of selected poles, spans or defects will be undertaken where required by risk, audit findings, incident history or asset condition. Findings and corrective actions will be recorded, assigned, tracked, verified and used to improve inspection and maintenance programs.

Fires originating from, involving, or suspected to involve the 33 kV overhead transmission line will be reported to Energy Safe Victoria if the fire caused or had the potential to cause:

- the death of or injury to a person
- significant property damage
- a serious risk to public safety, in the case of serious electrical incidents

Serious electrical incidents must be reported to Energy Safe as soon as practicable after becoming aware of the incident, or at such other time as specified in regulations or guidelines.

- Electricity suppliers can report a serious electrical incident by calling 1800 000 922 (24 hours)

Electricity suppliers must not fail, without reasonable excuse, to preserve the site of an incident they are required to report until an Energy Safe authorised officer directs otherwise.

Reporting to WorkSafe Victoria, EPA Victoria, CFA, Benalla Rural City Council, AusNet, ARTC, VicTrack or other external agencies will be undertaken where required by legislation, project approval conditions, emergency response requirements or Project procedures.

Energy Safe Victoria has not granted any exemption under the Electricity Safety (Bushfire Mitigation) Regulations 2023 that applies to EE Solar 12 Pty Ltd acting as Trustee for EE Solar 12 Trust or the Winton North Project 33 kV overhead transmission line. No exemption conditions apply to this Plan.

Audit outcomes, inspection outcomes, investigation findings and regulatory feedback will be used to improve the implementation of this Plan and support continual improvement of bushfire mitigation controls for the Winton North Project 33 kV overhead transmission line.

12 References

Document ID / Reference	Document Title	Referenced or Incorporated	Revision / Approval Details
Electricity Safety Act 1998	Electricity Safety Act 1998	Referenced	Authorised Version No. 088, incorporating amendments as at 1 April 2026
Electricity Safety (Bushfire Mitigation) Regulations 2023	Electricity Safety (Bushfire Mitigation) Regulations 2023	Referenced	S.R. No. 40/2023, Authorised Version No. 003, in force from 24 June 2026
Electricity Safety (General) Regulations 2019	Electricity Safety (General) Regulations 2019	Referenced	S.R. No. 113/2019, Authorised Version No. 002, in force from 1 November 2023
Electricity Safety (Electric Line Clearance) Regulations 2026	Electricity Safety (Electric Line Clearance) Regulations 2026	Referenced	S.R. No. 71/2026, Authorised Version, made by the Governor in Council on 16 June 2026 and commenced on 24 June 2026
Country Fire Authority Act 1958	Country Fire Authority Act 1958	Referenced	Authorised Version No. 160, incorporating amendments as at 22 October 2025
Code of Practice for Electric Line Clearance	Code of Practice for Electric Line Clearance, Schedule to the Electricity Safety (Electric Line Clearance) Regulations 2026	Referenced	Current Code incorporated through Schedules 1 and 2 of the Electricity Safety (Electric Line Clearance) Regulations 2026
ESR for Vegetation Management Work Near Overhead Powerlines	Energy Safe Victoria Electrical Safety Rules for Vegetation Management Work Near Overhead Powerlines	Referenced	Version 1.0, issued 1 September 2013; current ESV-hosted copy checked 15 September 2026
WNSF-EE-PLN-001	Health and Safety Management Plan	Referenced	Rev 0, 19 November 2025, Issued for Construction (IFC), PO initials
WNSF-EE-PLN-002	Fire Management Plan	Referenced	Version 1, Draft, 2 September 2025. Prepared by Eva Cronin; reviewed and approved for the draft issue by Nathan Kearnes.
WNSF-EE-PLN-003	Fire Risk Assessment	Referenced	Version 2, Final, 2 October 2025. Prepared by Eva Cronin
WNSF-EE-PLN-004	Construction Environment Management Plan	Referenced	Urbis Report Rp01, September 2025; submitted to the Department of Transport and

			Planning on 25 September 2025
WNSF-EE-PLN-005	Native Vegetation Management Plan	Referenced	Version 02 (Endorsed), issued 17 December 2025; prepared by Siobhan Heenan and internally reviewed by MJAL
WNSF-EE-PLN-006	Environment Management Plan	Referenced	Urbis Report Rp01, November 2025 - Endorsed
WNSF-EE-PLN-008	Transport Management Plan	Referenced	Urbis Report No. 5, dated 17 September 2025
WNSF-EE-PLN-009	Complaints Investigation & Response Plan	Referenced	Issue D (Endorsed), 17 October 2025. Author: Ahliah McKenna; reviewer: Anna Mitchell
EE-AU-PL-PRJ-HS-0002	Emergency Preparedness and Response Management Plan	Referenced	Rev 1, 12 November 2024, ML, general update
EE-AU-PR-COR-HS-0006	Permit to Work Procedure	Referenced	Rev 1, 23 June 2025, PO, update.
EE-AU-TL-COR-HS-0034	Hot Work Permit	Referenced	Rev 0, Approved, dated 1 March 2024.
EE-AU-TL-COR-HS-0060	Permit to Work Training Presentation	Referenced	Rev 0, Approved, dated 1 March 2024.
EE-AU-TL-COR-HS-0045	JSEA / SWMS Desktop Review Checklist	Referenced	Rev 0, Approved, dated 1 March 2024.
EE-AU-PR-COR-HS-0004	Incident and Investigation Procedure	Referenced	Rev 0, Approved, dated 1 March 2024.
EE-AU-TL-COR-HS-0041	Incident Report	Referenced	Rev 0, Approved, dated 1 March 2024.
EE-AU-TL-COR-HS-0042	Investigation Report	Referenced	Rev 0, Approved, dated 1 March 2024.
EE-AU-TL-COR-HS-0015	Emergency Response Compliance Inspection Checklist	Referenced	Rev 0, Approved, dated 1 March 2024.
EE-AU-TL-COR-HS-0016	Emergency Response Lessons Learnt Form	Referenced	Rev 0, Approved, dated 1 March 2024.
EE-AU-TL-COR-HS-0036	Housekeeping Compliance Inspection Checklist	Referenced	Rev 0, Approved, dated 1 March 2024.
EE-AU-PR-COR-HS-0002	Extreme Weather Conditions Procedure	Referenced	Rev 0, Approved, dated 1 March 2024.
24PER10099	Winton Solar Farm BESS Bushfire Advice Memo	Referenced	v1, 14 July 2025, For Information. Prepared by Eva Cronin
Appendix L – CFA Guidelines Assessment by ERM	CFA Guidelines Assessment / Bushfire Risk Assessment	Referenced	Final Version 2.0, 14 October 2020. Author Joanne Woodhouse; reviewer Fiona Koutsivos; approved for issue by Jon Brock.
0517510	Bushfire Risk Assessment, Winton North Solar Farm	Referenced	Final Version 2.0, 14 October 2020. Author Joanne Woodhouse; reviewer Fiona

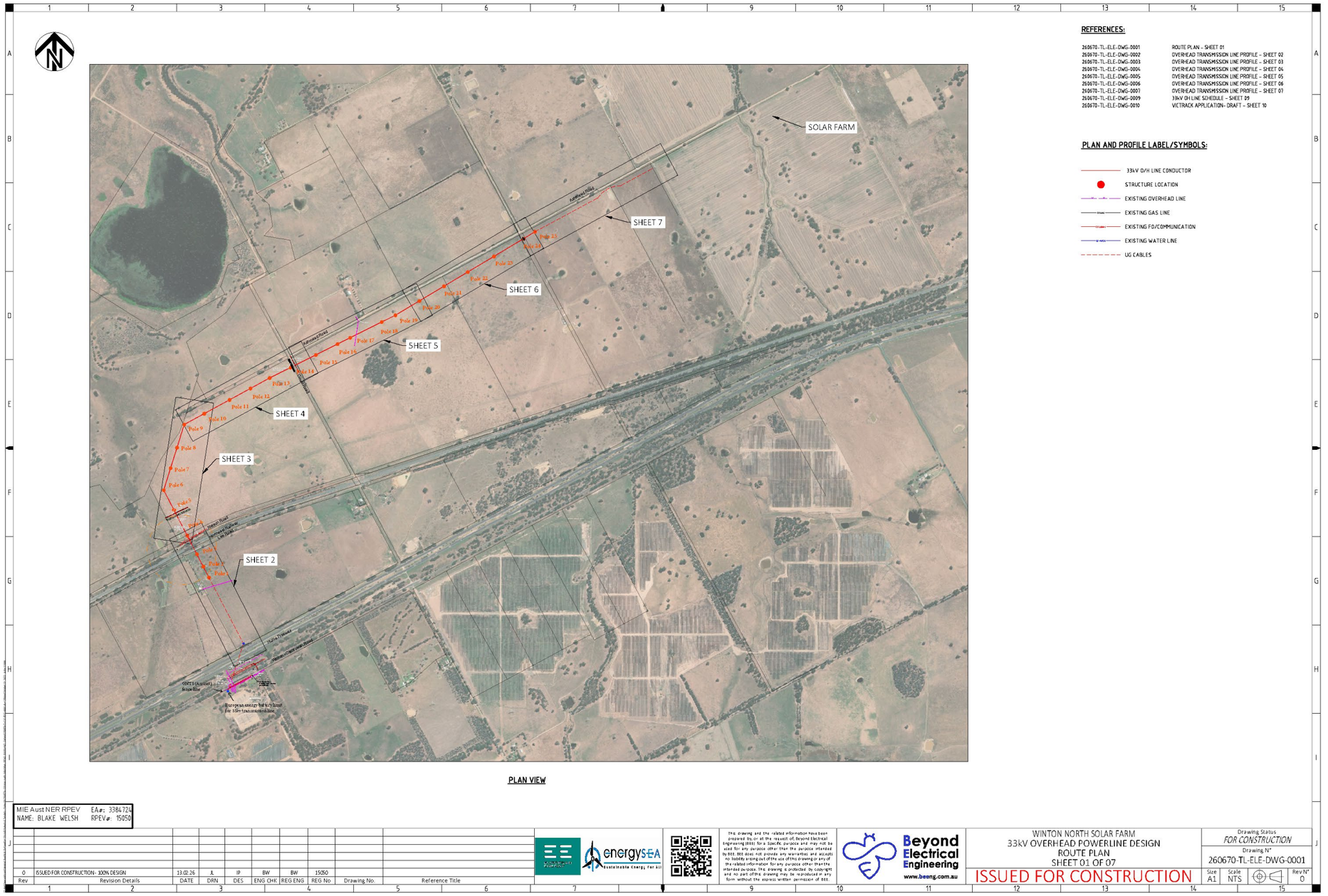
			Koutsivos; approved for issue by Jon Brock.
WNSF-EE-PLN-011	Winton North Project Electric Line Clearance Management Plan	Referenced	Rev 0.2, 17th June 2026, Draft issued for Review
EE-AU-PO-COR-BM-0001	Winton North Project Bushfire Mitigation Policy	Incorporated, referenced and summarised in Section 4	Rev 2, 18th Sep 2026, Issued for use.
P0040-ESEA-CM-PLA-001_0	Winton North Solar Farm 33 kV Substation Testing and Commissioning Management Plan	Referenced	Rev 0, 10 September 2025, status IFC / Issued for Construction. Author: BEE; review: energySEA
Transmission Line Vegetation Impact Footprint	Transmission Line Vegetation Impact Footprint	Referenced	Mapping dated 5 February 2026, prepared by SP for MJAL
Winton North Site Plans – Endorsed	Winton North Site Plans – Endorsed	Referenced	For Review, with plot date 17 October 2025; no single approved revision or approver applies.
260670-TL-ELE-DWG-009	33 kV OH Line Schedule	Referenced	Rev 2, 23 March 2026, Issued For Construction
260670-TL-ELE-DWG-010	VicTrack Application	Referenced	Rev 0, 13 February 2026, Issued for Construction – 100% Design
260670-TL-ELE-DWG-014	33 kV Through Termination	Referenced	Rev 1, 10 March 2026, Issued For Construction
260670-TL-ELE-DWG-016	UGOH Termination	Referenced	Rev 3, 1 April 2026, Issued for Construction
260670-TL-ELE-DWG-018	Structure Butt Earthing Arrangement	Referenced	Rev 0, 16 February 2026, Issued for Construction – 100% Design
260670-TL-ELE-DWG-019	Pole Footing Arrangement	Referenced	Rev 0, 16 February 2026, Issued for Construction – 100% Design
260670-TL-ELE-DWG-020	Cable Conduit and Trench Detail	Referenced	Rev 0, 13 February 2026, Issued for Construction – 100% Design
260670-TL-ELE-DWG-021	Horizontal Line Post Insulator Mounting Arrangement	Referenced	Rev 2, 19 March 2026, Issued For Construction
260670-TL-ELE-DWG-024	Conductor Stringing Arrangement – Long Rod Insulator	Referenced	Rev 1, 27 February 2026, Issued For Construction
260670-TL-ELE-DWG-034	Surge Arrester Post Insulator Support	Referenced	Rev 2, 19 March 2026, Issued For Construction

260670-TL-ELE-DWG-036	UGOH Busbar	Referenced	Rev 2, 19 March 2026, Issued For Construction
260670-TL-ELE-DWG-040 to 260670-TL-ELE-DWG-042	Pole Construction and Suspension Insulator Arrangements	Referenced	Rev 2, 19 March 2026, Issued For Construction
260670-TL-ELE-DWG-043 to 260670-TL-ELE-DWG-045	Conductor Blowout Charts	Referenced	Rev 0, 17 February 2026, Issued for Construction – 100% Design
260670-TL-ELE-DWG-046 to 260670-TL-ELE-DWG-053	Stringing Tables and Stringing Charts	Referenced	Rev 0, 23 February 2026, Issued for Construction – 100% Design
260670-TL-ELE-DWG-0001 to 260670-TL-ELE-DWG-0007	OH Line Profile Sheets	Referenced	Rev 0, issued 13 February 2026, "Issued for Construction – 100% Design." Prepared by Beyond Electrical Engineering; drawn by JL, designed by IP, engineering checked by BW and registered-engineer checked by BW. Registered engineer: Blake Welsh, RPEV No. 15050
260670-SS-ELE-DWG-0001	Single Line Diagram	Referenced	Rev 1, 20 March 2026, Issued for Construction – 100% Design, incorporating client comments
260670-SS-ELE-DWG-0002	Protection "X" Single Line Diagram	Referenced	Rev 1, 20 March 2026, Issued for Construction – 100% Design, incorporating client comments
260670-SS-ELE-DWG-0003	Protection "Y" Single Line Diagram	Referenced	Rev 1, 20 March 2026, Issued for Construction – 100% Design, incorporating client comments
260670-SS-ELE-DWG-0004	Interlocking Single Line Diagram	Referenced	Rev 1, 20 March 2026, Issued for Construction – 100% Design, incorporating client comments
INSPECTION REPORT 33KV LINE SOLAR FARM DF signed	AusNet inspection report / permit for works near network operator assets at Nelson Road and Ashmead Road, Glenrowan	Referenced	Inspected by Bill Banks on 20 November 2025; received and signed by Dominic Fernandes on 2 December 2025; Work Order 112529474.
INSPECTION REPORT WINTON-	AusNet inspection report / permit for works near network	Referenced	Inspected by Bill Banks on 28 July 2025; received and

GLENROWAN RD WINTON DF signed	operator assets at Winton-Glenrowan Road, Winton		signed by Dominic Fernandes on 2 December 2025; Work Order 112443883.

Table 19 - References

Appendix A – Electric Line Clearance Plan – Project 33 kV Transmission Line



Source: 260670-TL-ELE-DWG-0001, OH Line Profile Sheet 1 of 7

This drawing forms part of the 33 kV transmission line profile drawing set and supports the identification of the 33 kV transmission line route, pole locations, span profiles, conductor profile, crossings and route constraints.

Appendix B – At-Risk Electric Line Details

Structure Number	Station (m)	X Easting (m)	Y Northing (m)	Centerline Z Elevation (m)	TIN Z Elevation (m)	Ahead Span (m)	Line Angle (deg)	Structure Type	Struct. Length(m)	Embedded Length (m)
1	0	422048.680	5961766.723	171.277	171.282	76.766	0	UGOH_22-160kN	22.00	6.0
2	76.766	422013.405	5961834.904	170.484	170.446	86.657	0	SCSUS+TERM-24-80kN	24.12	4.7
3	163.423	421973.585	5961911.871	170.014	169.998	131.373	0	THR_TER_28-100kN	28.13	5.4
4	294.796	421913.218	5962028.552	170.000	170.006	179.572	0	THR_TER_28-100kN	28.13	5.4
5	474.368	421830.702	5962188.043	169.602	169.595	138.492	0	SCSUS+SUSP-24-80kN	24.12	4.7
6	612.860	421767.064	5962311.048	168.374	168.374	142.924	44.713	THR_TER_24-200kN	28.00	6.4
7	755.784	421809.703	5962447.463	169.009	168.990	133.566	0	SCSUS-24-60kN	24.16	4.1
8	889.350	421849.550	5962574.947	168.729	168.737	150.928	0	SCSUS-24-60kN	24.16	4.3
9	1040.278	421894.577	5962719.002	168.285	168.285	141.919	45.035	THR_TER_24- 200kN	28.00	6.4
10	1182.197	422020.338	5962784.768	170.866	170.887	177.983	0	SCSUS-24-60kN	24.16	4.3
11	1360.180	422178.057	5962867.247	173.275	173.303	148.775	0	SCSUS-24-60kN	24.16	4.3
12	1508.955	422309.893	5962936.190	175.360	175.370	136.274	0	SCSUS-24-60kN	24.16	4.3
13	1645.229	422430.652	5962999.340	177.315	177.318	145.209	0	SCSUS-24-60kN	24.16	4.3
14	1790.438	422559.328	5963066.631	179.042	179.071	175.890	0	SCSUS-24-60kN	24.16	4.3
15	1966.328	422715.192	5963148.140	179.694	179.676	151.336	0	SCSUS-24-60kN	24.16	4.3
16	2117.664	422849.298	5963218.270	179.527	179.541	87.639	0	SCSUS+TERM-24-80kN	24.12	4.7
17	2205.303	422926.958	5963258.882	178.780	178.780	0	1.035	UGOH-22-160kN	22.00	6.0
18	2424.495	423122.997	5963356.934	176.882	176.882	94.703	0.363	UGOH-22-160kN	22.00	6.0
19	2519.198	423207.963	5963398.760	176.137	176.137	174.022	-4.614	THR_TER_-26- 100kN	26.13	5.1
20	2693.220	423357.405	5963487.927	175.293	175.297	178.143	0	SCSUS-24-60kN	24.16	4.6
21	2871.363	423510.386	5963579.206	176.297	176.322	171.404	0	SCSUS-24-60kN	24.16	4.6
22	3042.767	423657.579	5963667.032	175.661	175.641	190.171	0	SCSUS-24-60kN	24.16	4.6
23	3232.938	423820.889	5963764.474	172.186	172.150	214.592	0	SCSUS-26-60kN	26.16	4.6
24	3447.530	424005.170	5963874.429	171.779	171.779	83.130	-0.793	SCSUS+TERM-27-80kN	27.02	5.1
25	3530.660	424075.962	5963918.008	171.762	171.762	0	0	UGOH-22-160kN	22.00	6.0

Sec. No.	Cable Name	From Str.	To Str.	Voltage (kV)	Ruling Span (m)	Sagging Data Condition	Sagging Data Temp. (deg C)	Total Cable Length(m)	Sagging Data Horiz. Tension (N)	Design Tension
1	TACIRAS 440sq (P1)	1	3	33	81.9	Creep RS	5	322.3	16096.0	10% UTS@ 5°C
2	TACIRAS 440sq (P2)	1	3	33	81.9	Creep RS	5	322.2	16096.0	10% UTS@ 5°C
3	TACIRAS 440sq (P3)	1	3	33	81.9	Creep RS	5	322.0	16096.0	10% UTS@ 5°C
4	Grape	1	2	0	76.3	Creep RS	5	76.2	6358.2	10% UTS@ 5°C
5	OPGW_48-smf	2	3	0	86.2	Creep RS	5	86.1	10338.5	10% UTS@ 5°C
6	ADSS_Prysmain	2	3	0	86.3	Creep RS	5	86.2	999.0	4% UTS@ 5°C
7	TACIRAS 440sq (P1)	3	4	33	130.9	Creep RS	5	258.2	16070.4	10% UTS@ 5°C
8	TACIRAS 440sq (P2)	3	4	33	130.9	Creep RS	5	258.1	16073.4	10% UTS@ 5°C
9	TACIRAS 440sq (P3)	3	4	33	130.8	Creep RS	5	258.0	16070.4	10% UTS@ 5°C
10	OPGW_48-smf	3	4	0	131.0	Creep RS	5	130.8	10346.5	10% UTS@ 5°C
11	ADSS_Prysmain	3	4	0	130.8	Creep RS	5	130.7	996.9	4% UTS@ 5°C
12	TACIRAS 440sq (P1)	4	6	33	162.7	Creep RS	5	632.4	16041.5	10% UTS@ 5°C
13	TACIRAS 440sq (P2)	4	6	33	162.7	Creep RS	5	632.3	16043.8	10% UTS@ 5°C
14	TACIRAS 440sq (P3)	4	6	33	162.7	Creep RS	5	632.2	16049.1	10% UTS@ 5°C
15	OPGW_48-smf	4	6	0	162.7	Creep RS	5	317.6	10333.4	10% UTS@ 5°C
16	ADSS_Prysmain	4	6	0	162.6	Creep RS	5	317.8	995.5	4% UTS@ 5°C
17	TACIRAS 440sq (P1)	6	9	33	142.8	Creep RS	5	850.9	16055.1	10% UTS@ 5°C
18	TACIRAS 440sq (P2)	6	9	33	142.8	Creep RS	5	850.8	16055.1	10% UTS@ 5°C
19	TACIRAS 440sq (P3)	6	9	33	142.8	Creep RS	5	850.8	16063.1	10% UTS@ 5°C
20	OPGW_48-smf	6	9	0	142.8	Creep RS	5	426.9	10345.7	10% UTS@ 5°C
21	ADSS_Prysmain	6	9	0	142.7	Creep RS	5	427.1	996.6	4% UTS@ 5°C
22	TACIRAS 440sq (P1)	9	17	33	152.1	Creep RS	5	2328.4	16054.4	10% UTS@ 5°C
23	TACIRAS 440sq (P2)	9	17	33	152.1	Creep RS	5	2328.4	16054.4	10% UTS@ 5°C
24	TACIRAS 440sq (P3)	9	17	33	152.1	Creep RS	5	2328.4	16054.4	10% UTS@ 5°C
25	OPGW_48-smf	9	16	0	156.1	Creep RS	5	1077.4	10334.0	10% UTS@ 5°C
26	ADSS_Prysmain	9	16	0	156.2	Creep RS	5	1078.5	995.7	4% UTS@ 5°C
27	Grape	16	17	0	87.1	Creep RS	5	87.1	6357.5	10% UTS@ 5°C
28	TACIRAS 440sq (P1)	18	19	33	94.1	Creep RS	5	184.8	16091.4	10% UTS@ 5°C
29	TACIRAS 440sq (P2)	18	19	33	94.1	Creep RS	5	184.6	16091.4	10% UTS@ 5°C
30	TACIRAS 440sq (P3)	18	19	33	94.0	Creep RS	5	184.5	16091.4	10% UTS@ 5°C
31	Grape	18	19	0	94.2	Creep RS	5	94.2	6356.9	10% UTS@ 5°C
32	TACIRAS 440sq (P1)	19	25	33	181.4	Creep RS	5	2021.0	19271.5	12% UTS@ 5°C
33	TACIRAS 440sq (P2)	19	25	33	181.4	Creep RS	5	2021.0	19271.5	12% UTS@ 5°C
34	TACIRAS 440sq (P3)	19	25	33	181.4	Creep RS	5	2020.8	19263.9	12% UTS@ 5°C
35	OPGW_48-smf	19	24	0	187.6	Creep RS	5	928.4	10330.8	10% UTS@ 5°C
36	ADSS_Prysmain	19	24	0	187.7	Creep RS	5	929.1	1244.5	5% UTS@ 5°C
37	Grape	24	25	0	82.5	Creep RS	5	82.7	6357.8	10% UTS@ 5°C

UNDERGROUND POWER CABLE SCHEDULE

From Asset	To Asset	Cable Detail	Approximate Route Length(m)	Location
GNTS(TF)	GNTS JOINT PIT	33kV/1C/Al/XLPE/1200mm²(3 Cables per phase)	150	Glenrowan Terminal Station (GNTS)
GNTS JOINT PIT	Pole 1	33kV/1C/Al/XLPE/1200mm²(3 Cables per phase)	815	Across Hume Highway
Pole 17	Pole 18	33kV/1C/Al/XLPE/1000mm²(3 Cables per phase)	260	22kV OH Line Undercrossing
Pole 25	Joint Pit(Winton North Sub)	33kV/1C/Al/XLPE/1000mm²(3 Cables per phase)	1095	Winton North Substation
JOINT PIT	Winton North Substation	33kV/1C/Cu/XLPE/800mm²(3 Cables per phase)	30	Winton North Substation
Note: ECC(earth continuity conductor) follows the same route length as the power cables. ECC construction: Cu/PVC/70mm²				

UNDERGROUND OPTICAL FIBRE CABLE SCHEDULE

From Asset	To Asset	Cable Detail	Approximate Route Length(m)	Location
Pole 2	Glenrowan Terminal Station	UGFO*(Two separate cables for OPGW and ADSS)	1177	Across Hume Highway (This length includes 300m length from GNTS Joint Pit to Control Room) 2
Pole 16	Pole 19	UGFO*(Two separate cables for OPGW and ADSS)	420	22kV OH Line Undercrossing
Pole 24	Winton North Substation	UGFO*(Two separate cables for OPGW and ADSS)	1206	Winton North Substation
UGFO* : 48C/ Single Mode/ Standard loose tube/ Dry water blocked core/PE Sheath with Insect resistant Nylon				

REFERENCES:

260670-TL-ELE-DWG-0001	ROUTE PLAN - SHEET 01
260670-TL-ELE-DWG-0002	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 02
260670-TL-ELE-DWG-0003	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 03
260670-TL-ELE-DWG-0004	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 04
260670-TL-ELE-DWG-0005	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 05
260670-TL-ELE-DWG-0006	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 06
260670-TL-ELE-DWG-0007	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 07
260670-TL-ELE-DWG-0010	VICTRACK APPLICATION - DRAFT - SHEET 10
260670-TL-ELE-DWG-0024	THROUGH TERMINATION
260670-TL-ELE-DWG-0026	UGOH TERMINATION(THR-TRE-UGOH)
260670-TL-ELE-DWG-0040	SUSPENSION (SCUS) POLE
260670-TL-ELE-DWG-0041	SCUS + TERM POLE

NOTES:

1. ALL DIMENSIONS IN METERS UNLESS SPECIFIED OTHERWISE.
2. DESIGN IS BASED ON THE GROUND SURVEY DATA.
3. COORDINATE SYSTEM: 28355- GDA 94/MGA 55
4. CONDUCTOR:
   SINGLE CIRCUIT TWIN CONDUCTOR (TACIRAS440, 537mm², OD :30.1MM,UTS:161.2KN)
   OPGW: 48C-SMF (OD:15.3mm, UTS:103.5kN)
   ADSS SM-48C (OD:12.6MM, UTS: 25kN)
   OHEW: GRAPE (OD:17.5MM, UTS:63.7kN)
5. CONDUCTOR SHOWN AT MAXIMUM OPERATING TEMPERATURE OF 150°C(CREEP RS)
6. OPGW, OHEW AND ADSS WIRES SHOWN AT 35°C(CREEP RS)
7. MINIMUM GROUND CLEARANCE
   33kV OH LINE TO GROUND: 7M
   ADSS TO GROUND: 6M
8. MINIMUM CLEARANCE BETWEEN ADSS TO PHASE CONDUCTOR: 0.6M
9. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL SHOP DRAWINGS AND TECHNICAL SPECIFICATIONS OF TRANSMISSION LINE COMPONENTS AND ACCESSORIES SHALL BE VERIFIED FOR COMPLIANCE WITH THE APPROVED DESIGN DRAWINGS/DOCUMENTATION.
10. POLE EMBEDMENT DEPTHS CALCULATIONS ARE BASED ON GEOTECHNICAL INVESTIGATION REPORT PREPARED BY LR PARDO & ASSOCIATES FOR PROJECT REFERENCE NO: 232799 WINTON NORTH SOLAR FARM/1.4, DATED 18/10/2023
11. THIS DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
12. THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING OVERHEAD LINES, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU DIG BY www.1100.com.au.

MIE Aust NER RPEV EA#: 338424
NAME: BLAKE WELSH RPEV#: 15050

Rev	Revision Details	DATE	DRN	DES	ENG CHK	REG ENG	REG No	Drawing No.	Reference Title
2	UPDATED LOCATION AND LENGTH	23.09.2026	RS	IP	BW	BW	15050		
1	UPDATED WITH GNTS JOINT PIT LOCATION	02.03.26	RS	BW	BW	BW	15050		
0	ISSUED FOR CONSTRUCTION - 100% DESIGN	13.02.26	JL	IP	BW	BW	15050		

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WINTON NORTH SOLAR FARM
33kV OVERHEAD POWERLINE CONCEPT DESIGN
33kV OH LINE SCHEDULE
SHEET 09 OF 11

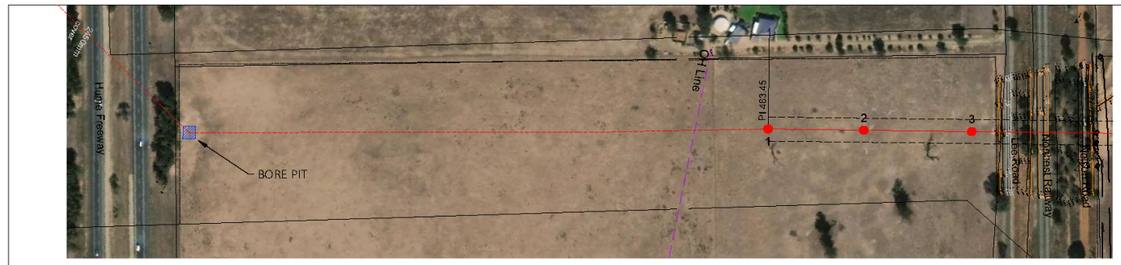
ISSUED FOR CONSTRUCTION

Drawing Status: FOR CONSTRUCTION
Drawing N°: 260670-TL-ELE-DWG-0009
Size: A1 | Scale: NTS | Rev N°: 2

Source: 260670-TL-ELE-DWG-009, Winton North Solar Farm 33 kV Overhead Powerline Concept Design, 33 kV OH Line Schedule

This drawing identifies the Winton North Project 33 kV overhead transmission line structures, pole locations, span lengths, structure types, conductor schedule, underground power cable schedule, underground optical fibre cable schedule and associated design notes.

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NOTES:

1. ALL DIMENSIONS IN METERS UNLESS SPECIFIED OTHERWISE.
2. DESIGN IS BASED ON THE GROUND SURVEY DATA.
   COORDINATE SYSTEM: 28355- GDA 94/MGA 55
3. CONDUCTOR:
   SINGLE CIRCUIT TWIN CONDUCTOR ITACIRAS440, 537mm², OD :30.1MM,UTS:161.2KN)
   OPGW: 48C-SMF (OD:15.3mm, UTS:103.5kN)
   ADSS SM 48C (OD:12.6MM, UTS: 25kN)
   OHEW: GRAPE (OD:17.5MM, UTS:63.7kN)
4. DESIGN CABLE TENSIONS: REFER TO DRAWING NUMBER. 260670-TL-ELE-DWG-0009
5. CONDUCTOR SHOWN AT MAXIMUM OPERATING TEMPERATURE OF 150°C(CREEP RS)
6. OPGW, OHEW AND ADSS WIRES SHOWN AT 35°C(CREEP RS)
7. MINIMUM GROUND CLEARANCE
   33kV OH LINE TO GROUND: 7M
   ADSS TO GROUND: 6M
8. MINIMUM CLEARANCE BETWEEN ADSS TO PHASE CONDUCTOR: 0.6M
9. TERMINATIONS HAVE BEEN CONSIDERED FOR LONG STRAIGHT RUNS TO ALLOW FOR FLEXIBILITY IN CONSTRUCTION, FAILURE CONTAINMENT, CAPACITY ETC.
10. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL SHOP DRAWINGS AND TECHNICAL SPECIFICATIONS OF TRANSMISSION LINE COMPONENTS AND ACCESSORIES SHALL BE VERIFIED FOR COMPLIANCE WITH THE APPROVED DESIGN DRAWINGS/DOCUMENTATION.
11. POLE EMBEDMENT DEPTHS CALCULATIONS ARE BASED ON GEOTECHNICAL INVESTIGATION REPORT PREPARED BY LR PARDO & ASSOCIATES FOR PROJECT REFERENCE NO: 232799 WINTON NORTH SOLAR FARM/1.4, DATED 18/10/2023
12. THIS DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
13. THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING OVERHEAD LINES, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU DIG BY www.1100.com.au.

REFERENCES:

260670-TL-ELE-DWG-0001	ROUTE PLAN - SHEET 01
260670-TL-ELE-DWG-0002	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 02
260670-TL-ELE-DWG-0003	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 03
260670-TL-ELE-DWG-0004	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 04
260670-TL-ELE-DWG-0005	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 05
260670-TL-ELE-DWG-0006	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 06
260670-TL-ELE-DWG-0007	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 07
260670-TL-ELE-DWG-0009	33kV OH LINE SCHEDULE - SHEET 09
260670-TL-ELE-DWG-0010	VICTRACK APPLICATION- DRAFT - SHEET 10

PLAN AND PROFILE LABEL/SYMBOLS:

- 33kV O/H LINE
- OPGW
- ADSS CABLE
- OHEW
- STRUCTURE LOCATION
- EXISTING OVERHEAD LINE
- EXISTING GAS LINE
- EXISTING FO/COMMUNICATION
- EXISTING WATER LINE
- GROUND CLEARANCE
- EASEMENT
- UG CABLES

MIE Aust NER RPEV EA#. 3384724
NAME: BLAKE WELSH RPEV#: 15050

Rev	Revision Details	DATE	DRN	DES	ENG CHK	REG ENG	REG No	Drawing No.	Reference Title
0	ISSUED FOR CONSTRUCTION - 100% DESIGN	13.02.26	JL	IP	BW	BW	15050		

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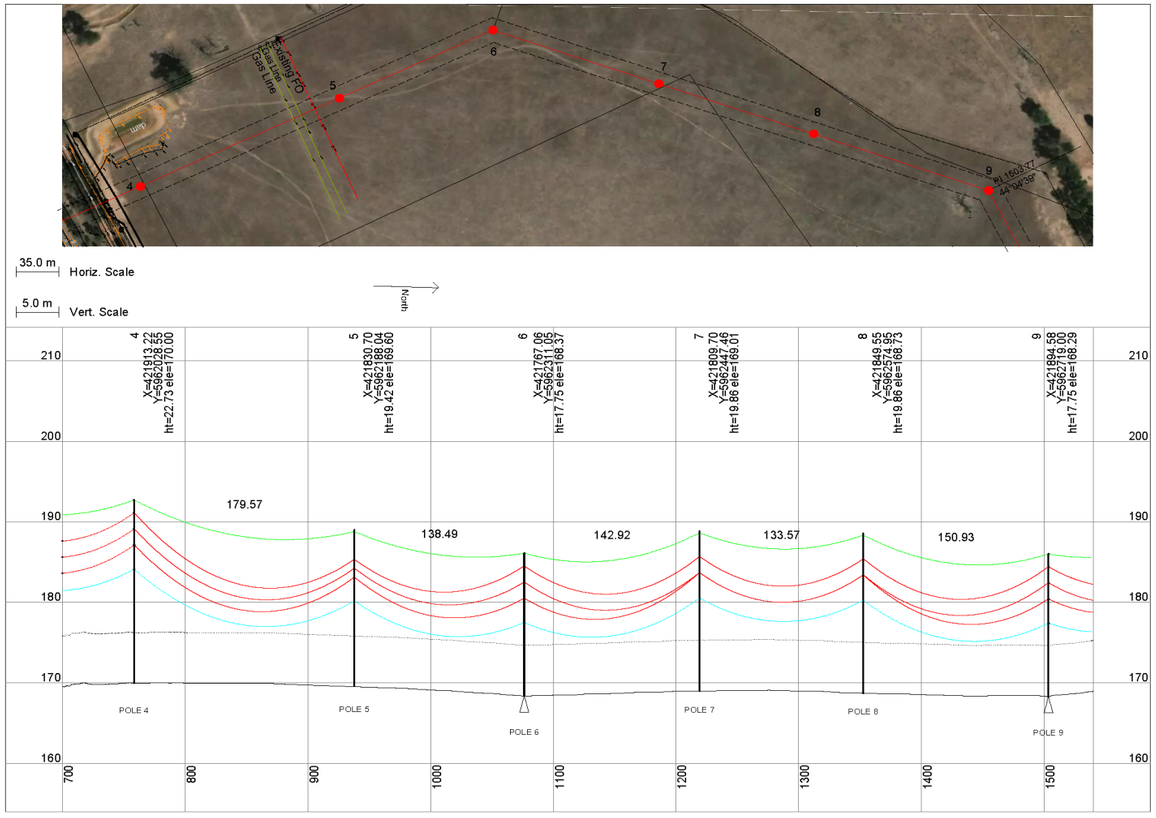
WINTON NORTH SOLAR FARM
33kV OVERHEAD POWERLINE DESIGN
OVERHEAD TRANSMISSION LINE PROFILE
SHEET 02 OF 07

ISSUED FOR CONSTRUCTION

Drawing Status: *FOR CONSTRUCTION*
Drawing N°: 260670-TL-ELE-DWG-0002
Size: A1 | Scale: NTS | Rev N°: 0

Source: 260670-TL-ELE-DWG-002, Winton North Solar Farm 33 kV Overhead Powerline Concept Design, 33 kV OH Line Schedule

This drawing identifies the Winton North Project 33 kV overhead transmission line structures, pole locations, span lengths, structure types, conductor schedule, underground power cable schedule, underground optical fibre cable schedule and associated design notes.



NOTES:

1. ALL DIMENSIONS IN METERS UNLESS SPECIFIED OTHERWISE.
2. DESIGN IS BASED ON THE GROUND SURVEY DATA.
   COORDINATE SYSTEM: 28355- GDA 94/MGA 55
3. CONDUCTOR:
   SINGLE CIRCUIT TWIN CONDUCTOR (TACIRAS440, 537mm², OD :30.1MM,UTS:161.2KN)
   OPGW: 48C-SMF (OD:15.3mm, UTS:103.5kN)
   ADSS: SM 48C (OD:12.6MM, UTS: 254kN)
   OHEW: GRAPE (OD:17.5MM, UTS:63.7kN)
4. DESIGN CABLE TENSIONS- REFER TO DRAWING NUMBER: 260670-TL-ELE-DWG-0009
5. CONDUCTOR SHOWN AT MAXIMUM OPERATING TEMPERATURE OF 150°C(CREEP RS)
6. OPGW, OHEW AND ADSS WIRES SHOWN AT 35°C(CREEP RS)
7. MINIMUM GROUND CLEARANCE
   33kV OH LINE TO GROUND: 7M
   ADSS TO GROUND: 6M
8. MINIMUM CLEARANCE BETWEEN ADSS TO PHASE CONDUCTOR: 0.6M
9. TERMINATIONS HAVE BEEN CONSIDERED FOR LONG STRAIGHT RUNS TO ALLOW FOR FLEXIBILITY IN CONSTRUCTION, FAILURE CONTAINMENT, CAPACITY ETC.
10. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL SHOP DRAWINGS AND TECHNICAL SPECIFICATIONS OF TRANSMISSION LINE COMPONENTS AND ACCESSORIES SHALL BE VERIFIED FOR COMPLIANCE WITH THE APPROVED DESIGN DRAWINGS/DOCUMENTATION.
11. POLE EMBEDMENT DEPTHS CALCULATIONS ARE BASED ON GEOTECHNICAL INVESTIGATION REPORT PREPARED BY LR PARDO & ASSOCIATES FOR PROJECT REFERENCE NO: 232799 WINTON NORTH SOLAR FARM/14, DATED 18/10/2023
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REFERENCES:

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260670-TL-ELE-DWG-0002	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 02
260670-TL-ELE-DWG-0003	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 03
260670-TL-ELE-DWG-0004	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 04
260670-TL-ELE-DWG-0005	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 05
260670-TL-ELE-DWG-0006	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 06
260670-TL-ELE-DWG-0007	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 07
260670-TL-ELE-DWG-0009	33kV OH LINE SCHEDULE – SHEET 09
260670-TL-ELE-DWG-0010	VICTRACK APPLICATION- DRAFT – SHEET 10

PLAN AND PROFILE LABEL/SYMBOLS:

- 33kV O/H LINE
- OPGW
- ADSS CABLE
- OHEW
- STRUCTURE LOCATION
- EXISTING OVERHEAD LINE
- EXISTING GAS LINE
- EXISTING FO/COMMUNICATION
- EXISTING WATER LINE
- GROUND CLEARANCE
- EASEMENT
- UG CABLES

MIE Aust NER RPEV EA#: 3384724
NAME: BLAKE WELSH RPEV#: 15050

Rev	Revision Details	DATE	DRN	DES	ENG CHK	REG ENG	REG No	Drawing No.	Reference Title
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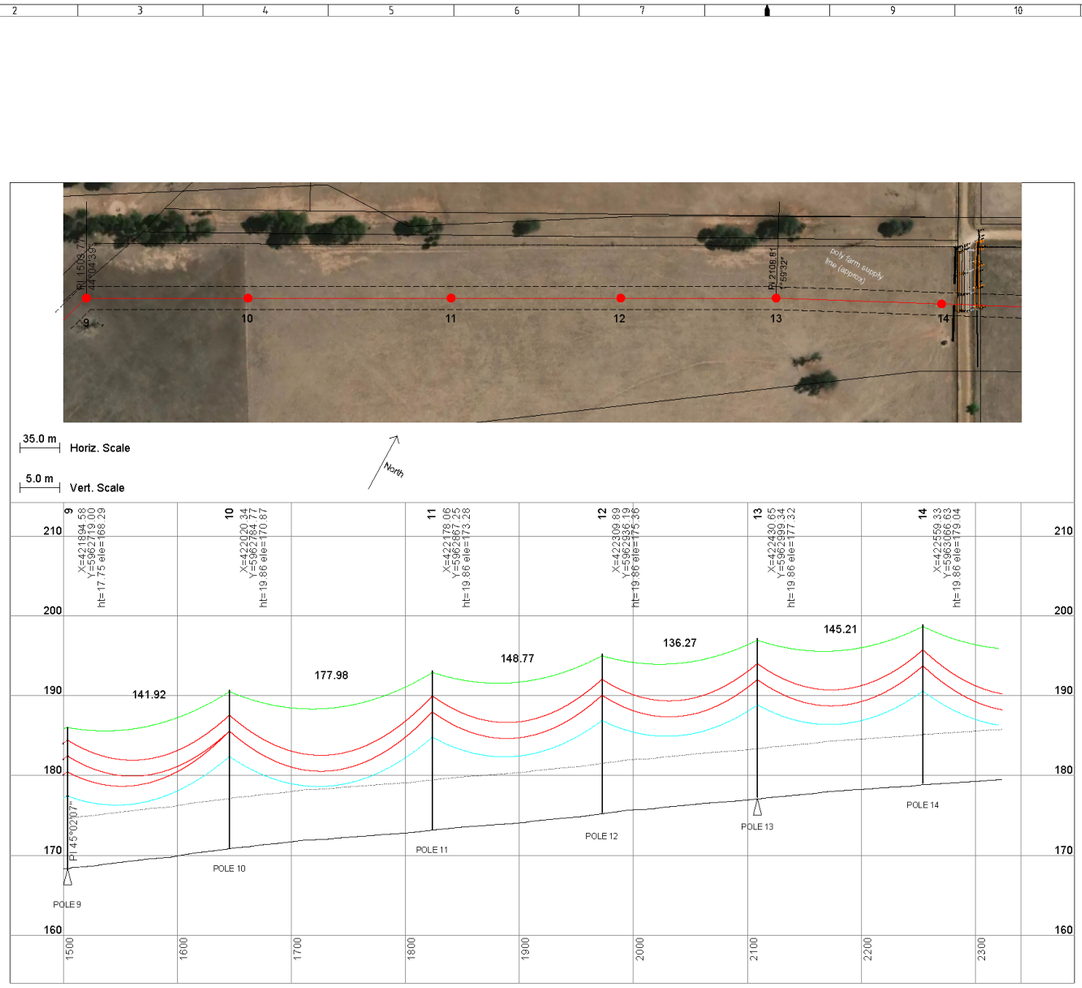
WINTON NORTH SOLAR FARM
33kV OVERHEAD POWERLINE DESIGN
OVERHEAD TRANSMISSION LINE PROFILE
SHEET 03 OF 07

ISSUED FOR CONSTRUCTION

Drawing Status: FOR CONSTRUCTION
Drawing N°: 260670-TL-ELE-DWG-0003
Size: A1 | Scale: NTS | Rev N°: 0

Source: 260670-TL-ELE-DWG-003, Winton North Solar Farm 33 kV Overhead Powerline Concept Design, 33 kV OH Line Schedule

This drawing identifies the Winton North Project 33 kV overhead transmission line structures, pole locations, span lengths, structure types, conductor schedule, underground power cable schedule, underground optical fibre cable schedule and associated design notes.



NOTES:

1. ALL DIMENSIONS IN METERS UNLESS SPECIFIED OTHERWISE.
2. DESIGN IS BASED ON THE GROUND SURVEY DATA.
   COORDINATE SYSTEM: 28355- GDA 94/MGA 55
3. CONDUCTOR:
   SINGLE CIRCUIT TWIN CONDUCTOR (TACIRAS440, 537mm², OD :30.1MM,UTS:161.2KN)
   OPGW: 48C-SMF (OD:15.3mm, UTS:103.5kN)
   ADSS SM:48C (OD:12.6MM, UTS: 25kN)
   OHEW: GRAPE (OD:17.5MM, UTS:63.7kN)
4. DESIGN CABLE TENSIONS: REFER TO DRAWING NUMBER: 260670-TL-ELE-DWG-0009
5. CONDUCTOR SHOWN AT MAXIMUM OPERATING TEMPERATURE OF 150°C(CREEP RS)
6. OPGW, OHEW AND ADSS WIRES SHOWN AT 35°C(CREEP RS)
7. MINIMUM GROUND CLEARANCE
   33kV OH LINE TO GROUND: 7M
   ADSS TO GROUND: 6M
8. MINIMUM CLEARANCE BETWEEN ADSS TO PHASE CONDUCTOR: 0.6M
9. TERMINATIONS HAVE BEEN CONSIDERED FOR LONG STRAIGHT RUNS TO ALLOW FOR FLEXIBILITY IN CONSTRUCTION, FAILURE CONTAINMENT, CAPACITY ETC.
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260670-TL-ELE-DWG-0006	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 06
260670-TL-ELE-DWG-0007	OVERHEAD TRANSMISSION LINE PROFILE - SHEET 07
260670-TL-ELE-DWG-0009	33kV OH LINE SCHEDULE - SHEET 09
260670-TL-ELE-DWG-0010	VICTRACK APPLICATION- DRAFT - SHEET 10

PLAN AND PROFILE LABEL/SYMBOLS:

- 33kV O/H LINE
- OPGW
- ADSS CABLE
- OHEW
- STRUCTURE LOCATION
- EXISTING OVERHEAD LINE
- EXISTING GAS LINE
- EXISTING FO/COMMUNICATION
- EXISTING WATER LINE
- GROUND CLEARANCE
- EASEMENT
- UG CABLES

MIE Aust NER RPEV EA#: 3384724
NAME: BLAKE WELSH RPEV#: 15050

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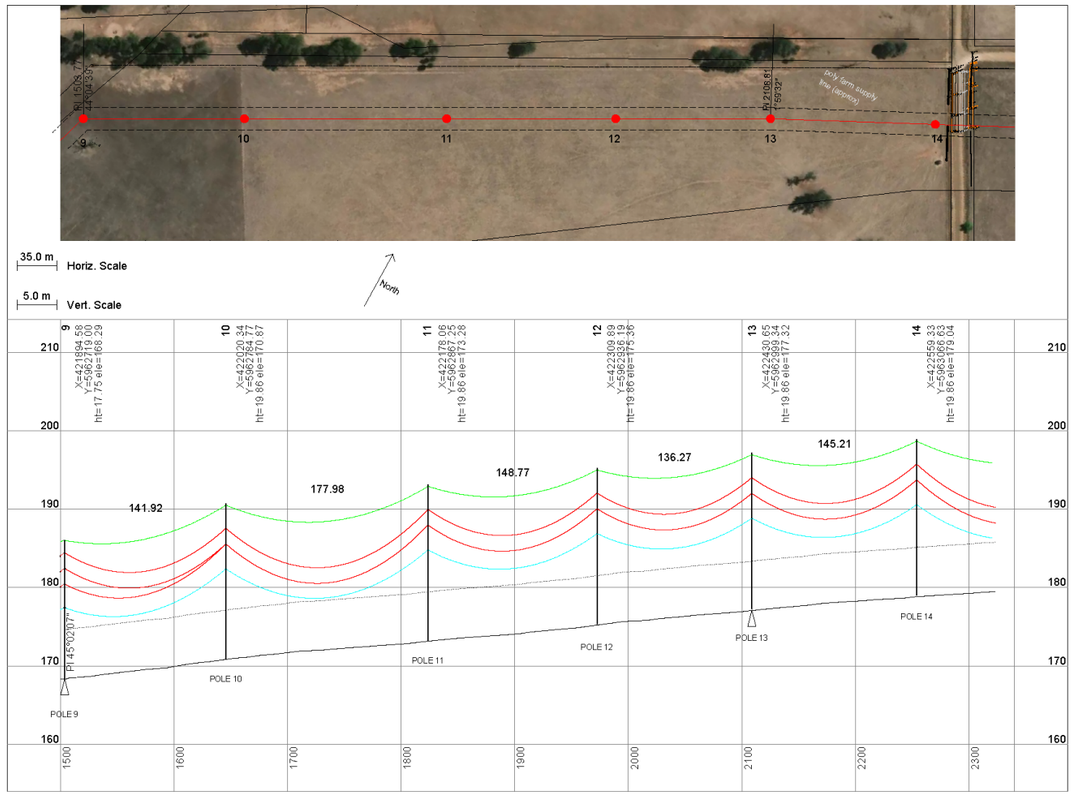
WINTON NORTH SOLAR FARM
33kV OVERHEAD POWERLINE DESIGN
OVERHEAD TRANSMISSION LINE PROFILE
SHEET 04 OF 07

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Drawing Status: FOR CONSTRUCTION
Drawing N°: 260670-TL-ELE-DWG-0004
Size: A1 | Scale: NTS | Rev N°: 0

Source: 260670-TL-ELE-DWG-003, Winton North Solar Farm 33 kV Overhead Powerline Concept Design, 33 kV OH Line Schedule

This drawing identifies the Winton North Project 33 kV overhead transmission line structures, pole locations, span lengths, structure types, conductor schedule, underground power cable schedule, underground optical fibre cable schedule and associated design notes.



NOTES:

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   ADSS SM 48C (OD:12.6MM, UTS: 254kN)
   OHEW: GRAPE (OD:17.5MM, UTS:63.7kN)
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260670-TL-ELE-DWG-0009	33kV OH LINE SCHEDULE - SHEET 09
260670-TL-ELE-DWG-0010	VICTRACK APPLICATION- DRAFT - SHEET 10

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- UG CABLES

MIE Aust NER RPEV EA#: 3384724
NAME: BLAKE WELSH RPEV#: 15050

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WINTON NORTH SOLAR FARM
33kV OVERHEAD POWERLINE DESIGN
OVERHEAD TRANSMISSION LINE PROFILE
SHEET 04 OF 07

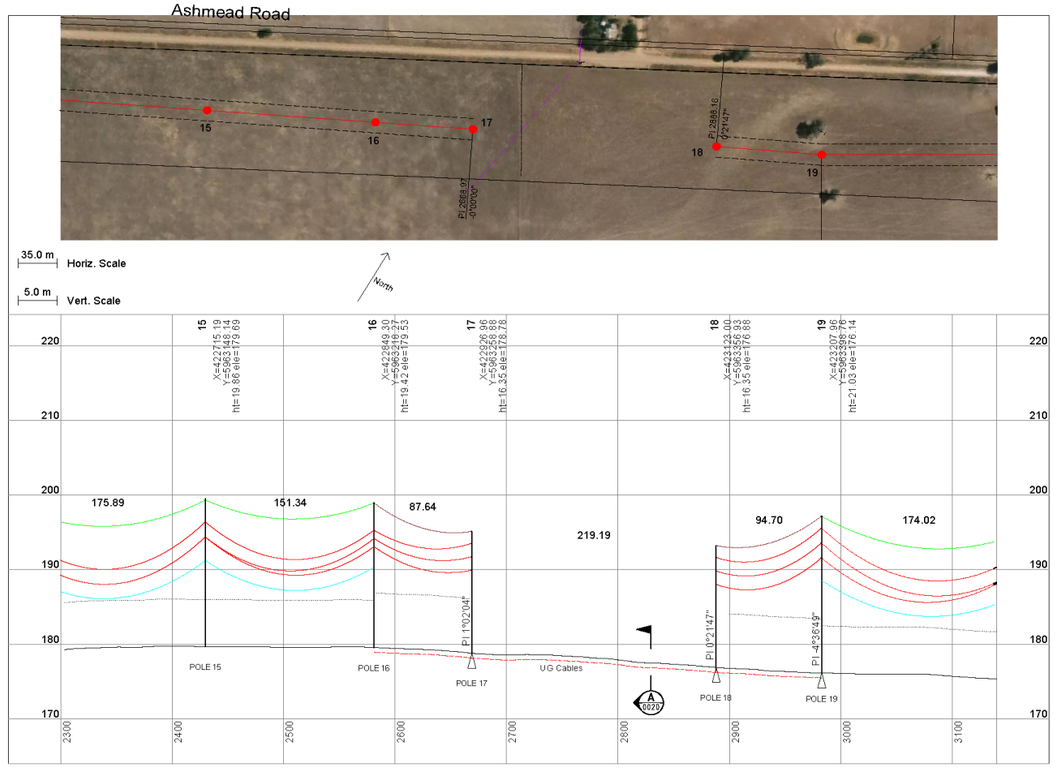
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Drawing Status: FOR CONSTRUCTION
Drawing N°: 260670-TL-ELE-DWG-0004
Size: A1 | Scale: NTS | Rev N°: 0

Source: 260670-TL-ELE-DWG-004, Winton North Solar Farm 33 kV Overhead Powerline Concept Design, 33 kV OH Line Schedule

This drawing identifies the Winton North Project 33 kV overhead transmission line structures, pole locations, span lengths, structure types, conductor schedule, underground power cable schedule, underground optical fibre cable schedule and associated design notes

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3. CONDUCTOR
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REFERENCES:

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260670-TL-ELE-DWG-0004	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 04
260670-TL-ELE-DWG-0005	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 05
260670-TL-ELE-DWG-0006	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 06
260670-TL-ELE-DWG-0007	OVERHEAD TRANSMISSION LINE PROFILE – SHEET 07
260670-TL-ELE-DWG-0009	33kV OH LINE SCHEDULE – SHEET 09
260670-TL-ELE-DWG-0010	VICTRACK APPLICATION- DRAFT – SHEET 10

PLAN AND PROFILE LABEL/SYMBOLS:

- 33kV O/H LINE
- OPGW
- ADSS CABLE
- OHEW
- STRUCTURE LOCATION
- EXISTING OVERHEAD LINE
- EXISTING GAS LINE
- EXISTING FO/COMMUNICATION
- EXISTING WATER LINE
- GROUND CLEARANCE
- EASEMENT
- UG CABLES

MIE Aust NER RPEV EA#: 3384724
NAME: BLAKE WELSH RPEV#: 15050

Rev	Revision Details	DATE	DRN	DES	ENG CHK	REG ENG	REG No	Drawing No.	Reference Title
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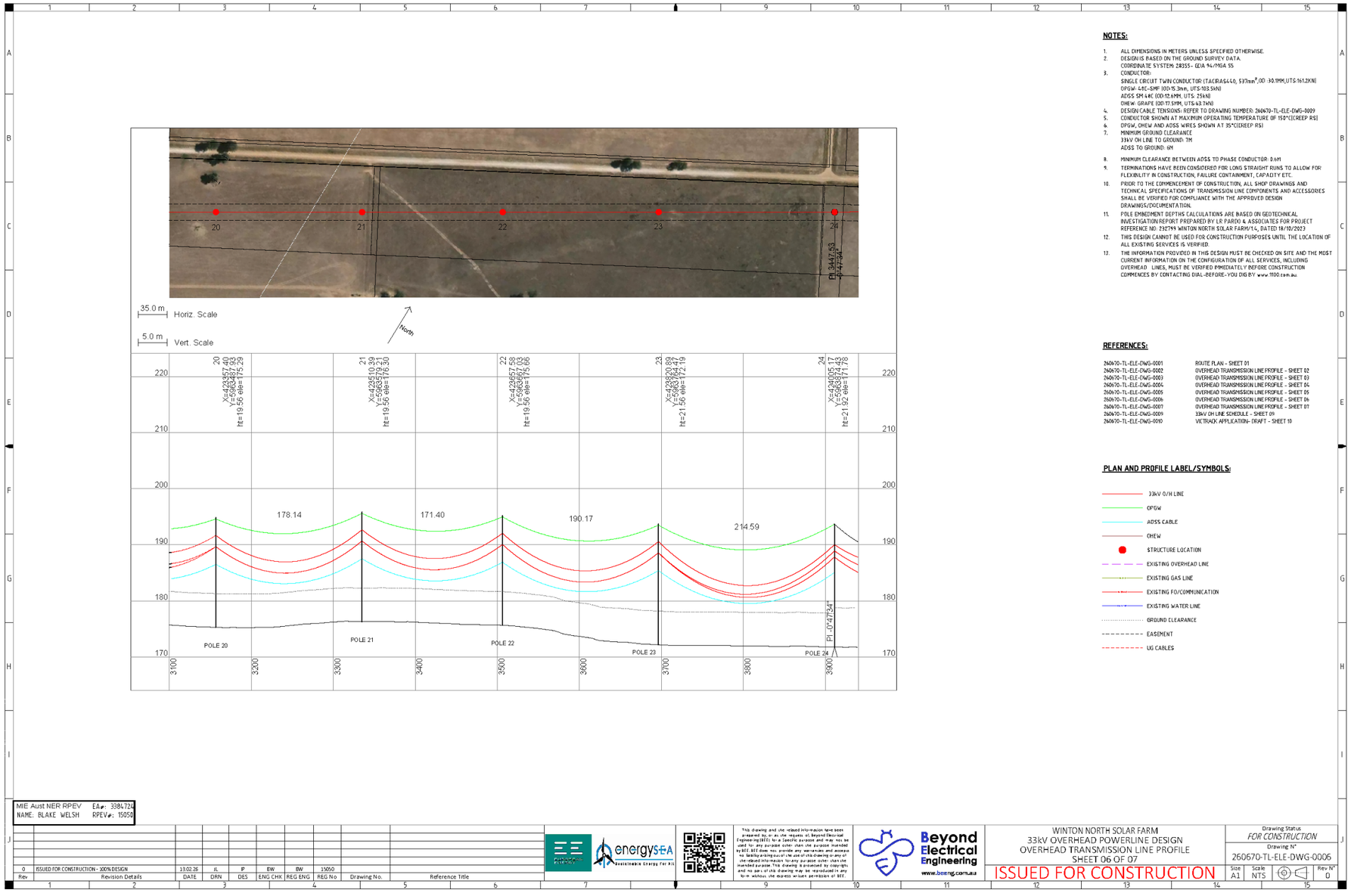
WINTON NORTH SOLAR FARM
33kV OVERHEAD POWERLINE DESIGN
OVERHEAD TRANSMISSION LINE PROFILE
SHEET 05 OF 07

ISSUED FOR CONSTRUCTION

Drawing Status: FOR CONSTRUCTION
Drawing N°: 260670-TL-ELE-DWG-0005
Size: A1 | Scale: NTS | Rev N°: 0

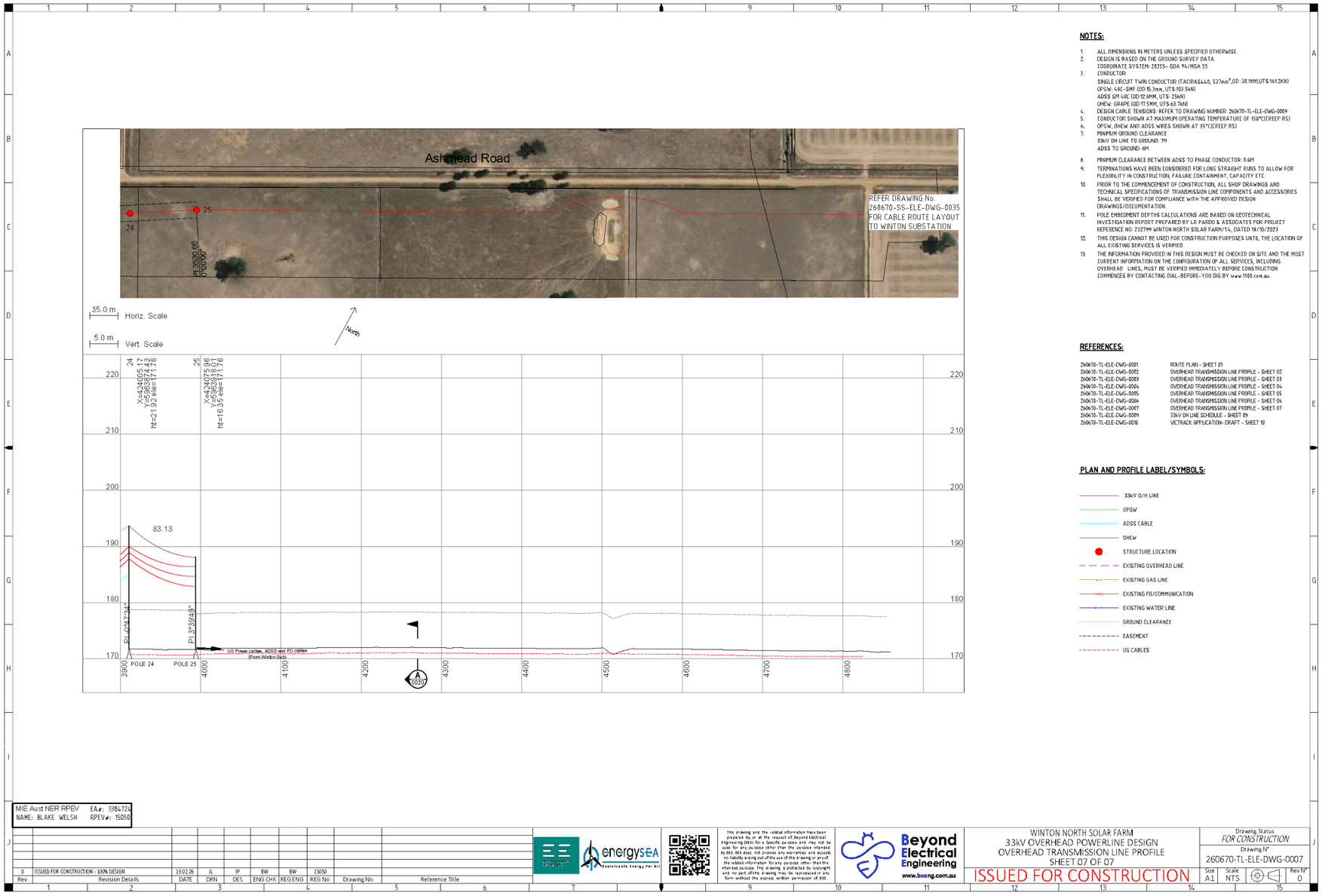
Source: 260670-TL-ELE-DWG-005, Winton North Solar Farm 33 kV Overhead Powerline Concept Design, 33 kV OH Line Schedule

This drawing identifies the Winton North Project 33 kV overhead transmission line structures, pole locations, span lengths, structure types, conductor schedule, underground power cable schedule, underground optical fibre cable schedule and associated design notes



Source: 260670-TL-ELE-DWG-006, Winton North Solar Farm 33 kV Overhead Powerline Concept Design, 33 kV OH Line Schedule

This drawing identifies the Winton North Project 33 kV overhead transmission line structures, pole locations, span lengths, structure types, conductor schedule, underground power cable schedule, underground optical fibre cable schedule and associated design notes



Source: 260670-TL-ELE-DWG-007, Winton North Solar Farm 33 kV Overhead Powerline Concept Design, 33 kV OH Line Schedule

This drawing identifies the Winton North Project 33 kV overhead transmission line structures, pole locations, span lengths, structure types, conductor schedule, underground power cable schedule, underground optical fibre cable schedule and associated design notes

Appendix C – Site, Route and Asset Drawings

The drawings included in this appendix support inspection, maintenance, defect identification, emergency response and bushfire mitigation for the Winton North Project 33 kV overhead transmission line.

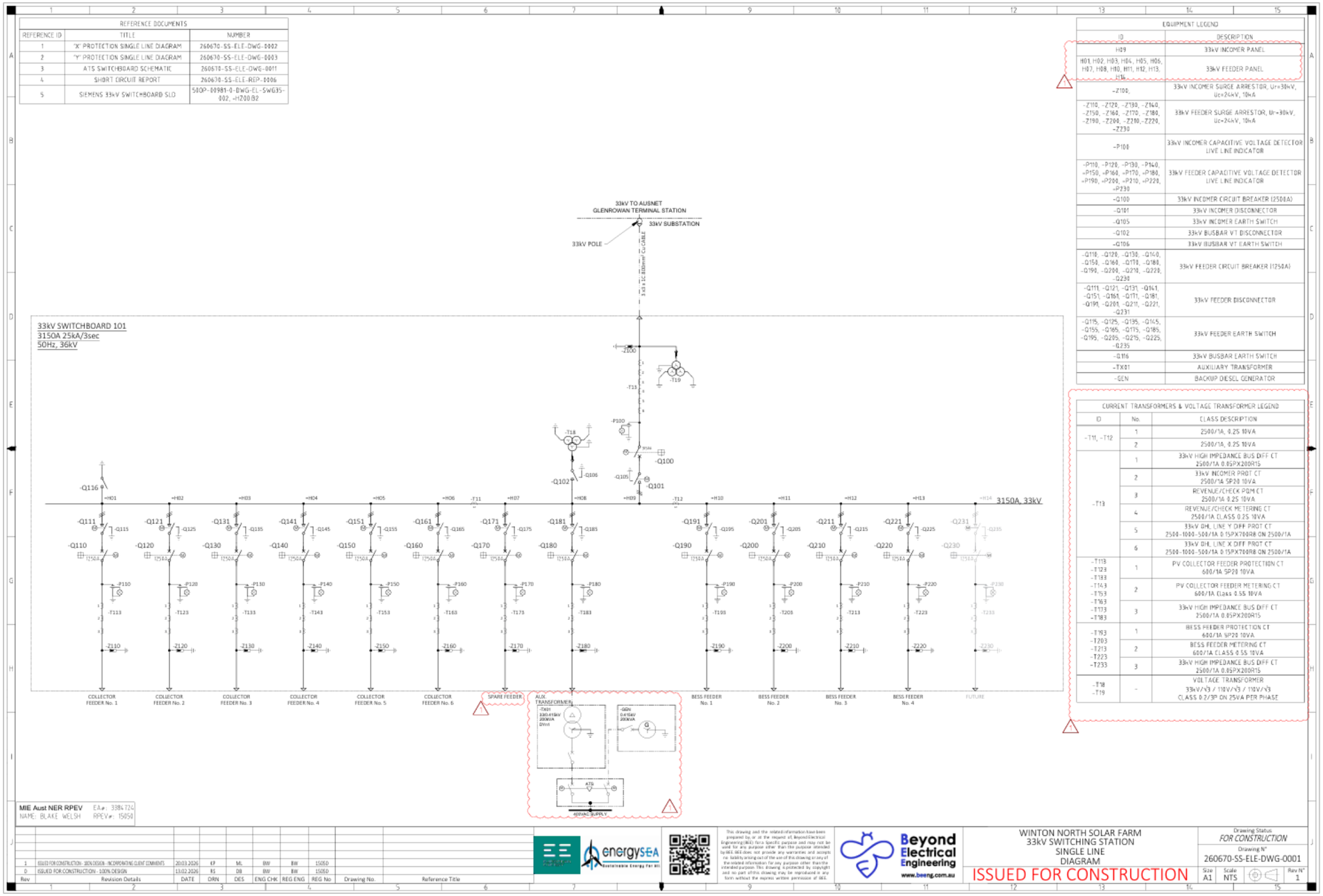
The following drawings and Project documents support the route, asset description, pole configuration, electrical configuration, inspection requirements, maintenance requirements and bushfire mitigation controls for the Winton North Project 33 kV overhead transmission line.

Controlled copies of these drawings are retained by the Asset Manager and are available to Energy Safe Victoria upon request.

Drawing / Document Number	Drawing / Document Title	Relevance to this Plan
260670-TL-ELE-DWG-0001	OH Line Profile Sheet 1 of 7	Shows the 33 kV overhead transmission line route, profile, pole locations, span profiles, conductor profile, crossings and route constraints.
260670-TL-ELE-DWG-0002	OH Line Profile Sheet 2 of 7	Shows the 33 kV overhead transmission line route, profile, pole locations, span profiles, conductor profile, crossings and route constraints.
260670-TL-ELE-DWG-0003	OH Line Profile Sheet 3 of 7	Shows the 33 kV overhead transmission line route, profile, pole locations, span profiles, conductor profile, crossings and route constraints.
260670-TL-ELE-DWG-0004	OH Line Profile Sheet 4 of 7	Shows the 33 kV overhead transmission line route, profile, pole locations, span profiles, conductor profile, crossings and route constraints.
260670-TL-ELE-DWG-0005	OH Line Profile Sheet 5 of 7	Shows the 33 kV overhead transmission line route, profile, pole locations, span profiles, conductor profile, crossings and route constraints.
260670-TL-ELE-DWG-0006	OH Line Profile Sheet 6 of 7	Shows the 33 kV overhead transmission line route, profile, pole locations, span profiles, conductor profile, crossings and route constraints.
260670-TL-ELE-DWG-0007	OH Line Profile Sheet 7 of 7	Shows the 33 kV overhead transmission line route, profile, pole locations, span profiles, conductor profile, crossings and route constraints.
260670-TL-ELE-DWG-009	33 kV OH Line Schedule	Identifies pole locations, span lengths, structure types, conductor schedule, cable schedule and associated design notes for the 33 kV transmission line, including the 33 kV overhead transmission line.
260670-TL-ELE-DWG-014	33 kV Through Termination	Shows through termination, strain support and angle / direction-change arrangements relevant to inspection, maintenance and bushfire mitigation controls for the 33 kV overhead transmission line.
260670-TL-ELE-DWG-016	UGOH Termination	Shows underground-to-overhead termination arrangements relevant to inspection, maintenance, electrical safety and bushfire risk controls.
260670-TL-ELE-DWG-018	Structure Butt Earthing Arrangement	Shows pole / structure earthing arrangements relevant to inspection, maintenance and electrical safety.
260670-TL-ELE-DWG-019	Pole Footing Arrangement	Shows pole footing details relevant to structural integrity, inspection and maintenance of the 33 kV overhead transmission line.
260670-TL-ELE-DWG-021	Horizontal Line Post Insulator Mounting Arrangement	Shows line post insulator mounting details relevant to inspection and maintenance of the 33 kV overhead transmission line.
260670-TL-ELE-DWG-024	Conductor Stringing Arrangement – Long Rod Insulator	Shows conductor stringing and insulator arrangement details relevant to inspection and maintenance.

260670-TL-ELE-DWG-034	Surge Arrester Post Insulator Support	Shows surge arrester and insulator support details relevant to asset inspection and maintenance.
260670-TL-ELE-DWG-036	UGOH Busbar	Shows underground-to-overhead busbar arrangements relevant to inspection, maintenance and electrical safety controls.
260670-TL-ELE-DWG-040	Pole Construction – Suspension	Shows pole construction details relevant to inspection, maintenance and bushfire mitigation controls.
260670-TL-ELE-DWG-041	Pole Construction – Suspension / Termination	Shows pole construction and termination details relevant to inspection, maintenance and bushfire mitigation controls.
260670-TL-ELE-DWG-042	Suspension Insulator Arrangement	Shows suspension insulator details relevant to inspection and maintenance of the 33 kV overhead transmission line.
260670-TL-ELE-DWG-043 to 260670-TL-ELE-DWG-045	Conductor Blowout Charts	Supports assessment of conductor movement, clearance, vegetation risk and line safety.
260670-TL-ELE-DWG-046 to 260670-TL-ELE-DWG-053	Stringing Tables and Stringing Charts	Supports assessment of conductor sag, tension, span behaviour and inspection / maintenance requirements.
260670-SS-ELE-DWG-0001	Single Line Diagram	Shows the electrical configuration of the 33 kV transmission line and associated connection assets.
260670-SS-ELE-DWG-0002	Protection “X” Single Line Diagram	Shows protection configuration relevant to electrical fault response and bushfire mitigation.
260670-SS-ELE-DWG-0003	Protection “Y” Single Line Diagram	Shows protection configuration relevant to electrical fault response and bushfire mitigation.
260670-SS-ELE-DWG-0004	Interlocking Single Line Diagram	Shows interlocking arrangements relevant to electrical safety, switching and isolation controls.

C1 – 33 kV Single Line Diagram

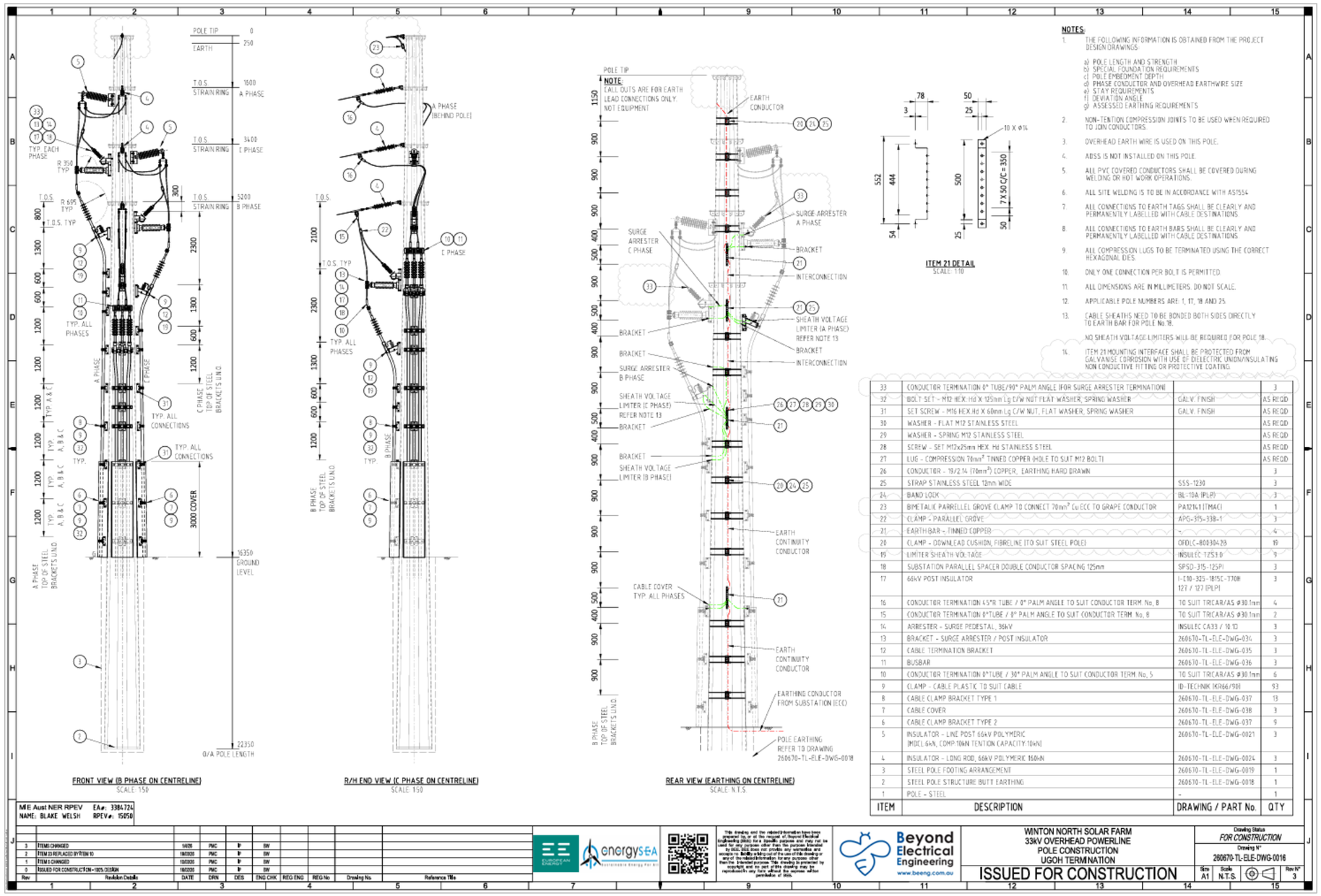


Source: 260670-SS-ELE-DWG-0001, Single Line Diagram

Figure C1 shows the electrical arrangement for the Winton North Project 33 kV transmission line, including the 33 kV switchboard, transformer feeders, inverter feeders and connection to Glenrowan Terminal Station.

This drawing supports identification of the electrical configuration, connection arrangement, switching context and interface with Glenrowan Terminal Station relevant to bushfire mitigation, electrical safety, inspection, maintenance, emergency response and fault response planning.

C2 – Terminal / Underground-to-Overhead Pole Structure

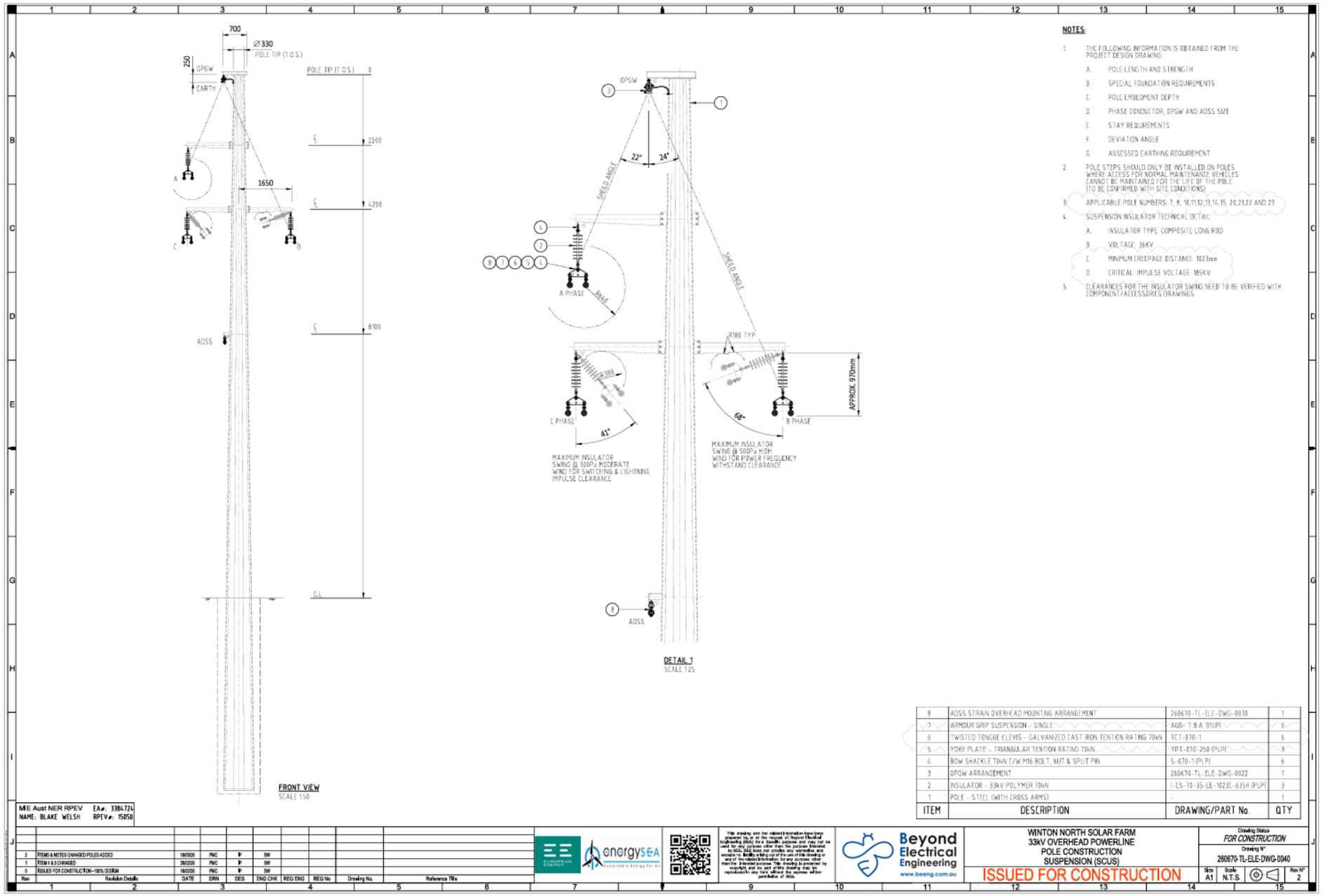


Source: 260670-TL-ELE-DWG-0016_03_UGOH Termination

Figure C2 shows the terminal / underground-to-overhead pole structure used where the 33 kV underground cable transitions to the 33 kV overhead transmission line. The drawing identifies the pole arrangement and associated equipment, including cable terminations, surge arresters, brackets, earth conductor, interconnections, phase arrangement and associated pole-top hardware.

This drawing supports identification of the underground-to-overhead interface, terminal pole structure and associated equipment relevant to bushfire mitigation, electrical safety, inspection, maintenance and emergency response for the 33 kV overhead transmission line.

C3 – Intermediate / Suspention Pole Structure

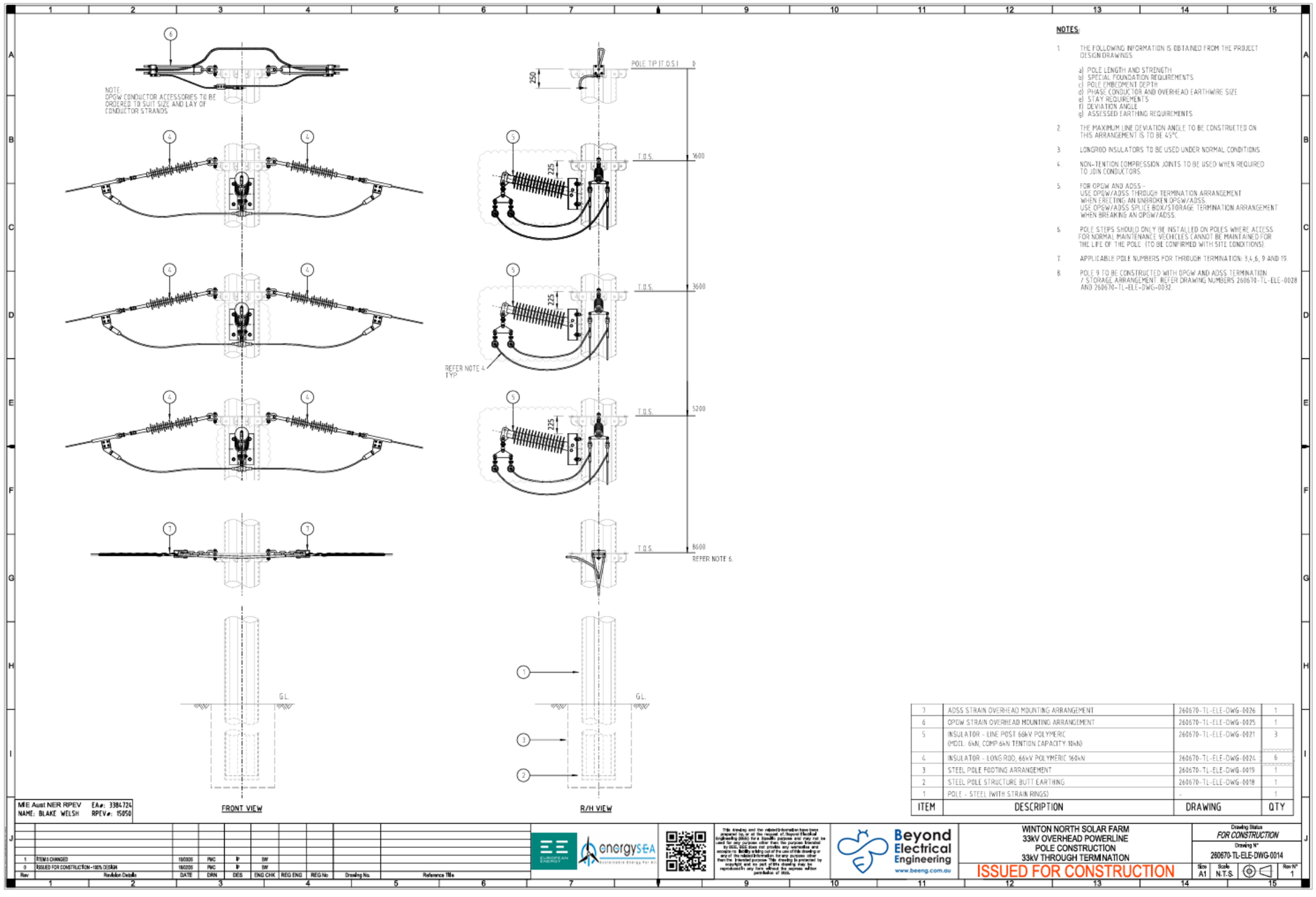


Source: 260670-TL-ELE-DWG-0040 – Pole Construction - Suspension

Figure C3 shows a typical intermediate / suspension pole structure used on the 33 kV overhead transmission line, including the pole arrangement, cross-arm, insulators, conductor attachments, fittings and associated pole-top hardware.

This drawing supports identification of typical pole construction details relevant to inspection, maintenance, asset condition assessment and bushfire mitigation controls for the 33 kV overhead transmission line.

C4 – Angle / Through Termination Pole Structure



Source: 260670-TL-ELE-DWG-0014 – 33 kV Through Termination

Figure C4 shows the angle / through termination pole structure used where the 33 kV overhead transmission line changes direction or requires strain / termination support. The drawing identifies the pole arrangement, cross-arm, insulators, conductor attachments, ties, fittings and associated pole-top hardware.

This drawing supports identification of termination and strain support arrangements relevant to inspection, maintenance, asset condition assessment and bushfire mitigation controls for the 33 kV overhead transmission line.

Appendix D – Electricity Safety (Bushfire Mitigation) Regulations 2023, Regulation 6 Reference Table

Regulation reference	Prescribed particulars for bushfire mitigation plans – specified operators	Winton North BMP reference
6(a)	The name, address, email address and telephone number of the specified operator.	Section 1 – Contacts
6(b)	The position, address, email address and telephone number of the person who was responsible for the preparation of the Plan.	Section 1 – Contacts
6(c)	The position, address, email address and telephone number of the person or persons responsible for carrying out the Plan.	Section 1 – Contacts
6(d)	The email address, if any, and telephone number of the specified operator's control room so that persons in the room can be contacted in an emergency that requires action by the specified operator to mitigate the danger of bushfire.	Section 1 – Contacts
6(e)	The bushfire mitigation policy of the specified operator to minimise the risk of fire ignition from its at-risk electric lines.	Section 4 – Bushfire Mitigation Policy
6(f)	The objectives of the Plan to achieve the mitigation of fire danger arising from the specified operator's at-risk electric lines.	Section 6 – Objectives of the Plan
6(g)	A description, map or plan of the land to which the Bushfire Mitigation Plan applies, identifying the location of the specified operator's at-risk electric lines.	Section 7.3 – Site Location and Map / Appendix A – Electric Line Clearance Plan – Project 33 kV Transmission Line Appendix B – At-Risk Electric Line Details Appendix C – Site, Route and Asset Drawings
6(h)	The preventative strategies and programs to be adopted by the specified operator to minimise the risk of the specified operator's at-risk electric lines starting fires.	Section 8 – Preventative Strategies Section 9 – List of All Works
6(i)	A plan for inspection that ensures that all of the specified operator's at-risk electric lines are inspected at regular intervals not exceeding 37 months.	Section 9.1 – Electrical Asset Management Section 10 – Monitoring
6(j)	Details of the processes and procedures for ensuring that each person who is assigned to carry out inspections has satisfactorily completed a training course approved by Energy Safe Victoria and is competent to carry out such inspections.	Section 9.6 – Training and Competence
6(k)	Details of the processes and procedures for ensuring that persons, other than persons referred to in regulation 6(j), who carry out functions under the Plan are competent to do so.	Section 9.6 – Training and Competence Section 9.9 – Contractors
6(l)	The operation and maintenance plans for the specified operator's at-risk electric lines in the event of a fire, during a Total Fire Ban Day, during the Fire Danger Period and at other times.	Section 9.1 – Electrical Asset Management Section 9.3 – Hot Works Section 9.4 – Days of Total Fire Ban Section 9.8 – Fire Detection and Firefighting Equipment
6(m)	The investigations, analysis and methodology to be adopted by the specified operator for the mitigation of the risk of fire ignition from its at-risk electric lines.	Section 9.5 – Investigations Section 11 – Auditing and Reporting

6(n)	Details of the processes and procedures by which the specified operator will monitor the effectiveness of the Plan.	Section 10 – Monitoring Section 11 – Auditing and Reporting
6(o)	The policy of the specified operator in relation to the assistance to be provided to fire control authorities in the investigation of fires near the specified operator's at-risk electric lines.	Section 9.5 – Investigations Section 9.7 – External Agencies Section 11 – Auditing and Reporting
15(1) and 15(2)	Energy Safe may exempt a specified operator or major electricity company from any requirement of the Regulations and may specify conditions to which the exemption is subject.	Section 11 – Auditing and Reporting. No exemptions have been granted and no exemption conditions apply.
s83BA(3)(a)	A specified operator must cause a copy of an accepted bushfire mitigation plan to be available for inspection on the operator's internet site.	Section 2 – Distribution. Website URL
s83BA(3)(b)	A specified operator must cause a copy of an accepted bushfire mitigation plan to be available for inspection at the operator's principal office in the State during ordinary business hours.	Section 2 – Distribution. Victorian office location identified.
Five-year BMP submission framework	Mandatory resubmission is required at intervals not exceeding five years from the last accepted Bushfire Mitigation Plan.	Review Details; Section 7.2 – Site Management Procedure for the BMP.
Document control and standalone compliance	The BMP must operate as a standalone compliance document and clearly identify referenced and incorporated documents, document control, approval and traceability information.	Document History; Review Details; Section 12 – References; controlled header and document-control fields.