



NGH

Environmental Management Strategy

Dunedoo Energy Project

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Acronyms and abbreviations

AES	Accommodation and Employment Strategy
AC	Alternating current
ARA	Appropriate regulatory authority
BCS	Biodiversity, Conservation and Science Directorate
BESS	Battery Energy Storage System
BMP	Biodiversity Management Plan
CCP	Community Consultation Plan
CoA	Conditions of Approval
DPE	Former Department of Planning and Environment (NSW)
DPHI	Department of Planning, Housing and Infrastructure (NSW)
EE	Essential Energy
EIS	Environmental impact statement
EMS	Environmental Management Strategy
EPA	Environment Protection Authority (NSW)
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i> (NSW)
EP&A Regulation	Environmental Planning and Assessment Regulation 2000
ESR	Environmental Site Representative
FSS	Fire Safety Study
HMP	Heritage Management Plan
km	kilometres
LGA	Local Government Area
LP	Landscaping Plan
m	metres
MW	Megawatt
MWh	Megawatt hours

NPW Act	<i>National Parks and Wildlife Act 1974 (NSW)</i>
NVHR	National Heavy Vehicle Regulator
OSOM	Oversize Overmass
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
PV	Photovoltaic
SMS	Safety Management Study
SSD	State Significant Development
SWMP	Soil and Water Management Plan
SWMS	Safe Work Method Statements
TfNSW	Transport for NSW
TMP	Traffic Management Plan
WMP	Waste Management Plan

1. Introduction

1.1. Background

Flow Power (the Applicant) have approval for the construction, operation and decommissioning of a 55 megawatt (MW), alternating current (AC), photovoltaic (PV) solar farm with a Battery Energy Storage System (BESS), referred to as the Dunedoo Energy Project (previously called Dunedoo Solar Farm) (the Project) (SSD-8847). The Project is located on agricultural land approximately 2 kilometres (km) north of Dunedoo in the Central West Region of New South Wales (NSW).

The Project will assist Australia in transiting from coal based to renewable power generation and consequently contribute to meeting renewable energy targets committed to by the NSW and Federal Governments. Once constructed, the Project will provide around 144,540 megawatt hours (MWh) per year of renewable electricity and reduce greenhouse gas emissions from electricity generation. In addition, the Project will provide local social and economic benefits associated with the construction and operation of the Project through employment and use of local businesses.

The Project was assessed in an Environmental Impact Statement (EIS) in accordance with Part 4 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) and Schedule 2 of the Environmental Planning and Assessment Regulation 2000 (EP&A Regulation). It is considered State Significant Development (SSD).

In response to submissions made during exhibition of the EIS, a Submissions Report and Amendment Report were prepared by NGH. The submissions resulted in changes to the proposed development as documented in the EIS and changes to the safeguards and management measures outlined in the EIS. Two further amendments were prepared in response to Project changes.

The Project received approval on 2 September 2021 from the Minister for Planning and Public Spaces, Department of Planning and Environment (DPE, now the Department of Planning, Housing and Infrastructure (DPHI)). An amended Development Consent for the Project was determined on 18 March 2022.

The Environmental Assessment documents for the Project include:

- Environmental Impact Statement (EIS) which comprises:
 - EIS dated 24 September 2020 (NGH)
 - Submissions Report and Amendment Report dated 8 March 2021 (NGH)
 - Additional information letter dated 3 June 2021 (NGH)
 - Amendment Report dated 23 July 2021 (NGH)
 - Landscaping Plan
 - Updated layout plan letter prepared by NGH dated 15 February 2022.
- Conditions of Approval (CoA) of the Development Consent (LEC No: 2021/303846; DPE, 18 March 2022).

The environmental safeguards outlined in the Environmental Assessment documents have been incorporated into this document and associated sub-plans where relevant. The Project will be carried out generally in accordance with the EIS and in accordance with the CoA. If there is any inconsistency between the documents the most recent document must prevail to the extent of the inconsistency. However the CoA must prevail to the extent of any inconsistency.

1.2. Purpose of this EMS

This Environmental Management Strategy (EMS) is a requirement under CoA 1, Schedule 4, and presents the framework for the environmental management for the Project. It has been prepared to outline and describe how Flow Power will comply with the environmental assessment and approval during all stages of the Project.

The EMS has been prepared in accordance with:

- Environmental Assessment documents
- Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004)
- AS/NZS ISO 14001: 2016 Environmental Management systems
- Applicable Federal and State Legislation
- AS/NZS ISO 31000:2009 Risk management.

This EMS outlines the requirements, controls and management procedures that direct the Project team and provides an overall approach to the Project. It also provides requirements for and directs contractors and suppliers for the Project regarding specific measures that they need to adopt for their own work for the Project. Implementing this EMS effectively will ensure that the Project team will meet regulatory and policy requirements in a systematic manner and continually improves environmental performance.

This EMS:

- Describes the Project in detail including activities to be undertaken
- States obligations, objectives and targets for issues that are important to the environmental performance of the Project
- Identifies the approvals, licences and permits that relate to the Project
- Describes the strategic framework for environmental management of the Project
- Describes the environmental management related roles and responsibilities of personnel
- Outlines training and induction requirements for employees, contractors and sub-contractors, in relation to environmental and compliance obligations with applicable policies, approvals, licences, permits, consultation agreements and legislation
- Describes the procedures that will be implemented for community consultation and notification, and complaints management
- Includes protocols for managing and reporting incidents and non-compliances with applicable policies, approvals, licences, permits, consultation agreements and legislation
- Outlines a monitoring regime and inspection program to check the adequacy of controls as they are implemented during construction.

This EMS is the overarching document in the environmental management system for the Project that includes a number of management documents as described in Section 4. It is applicable to all staff and sub-contractors associated with the Project and is applicable to all stages of the Project.

2. Project description

2.1. Project site and location

The Project is located approximately 2 km north of the township of Dunedoo and approximately 90 km northeast of the city of Dubbo, within the Warrumbungle Shire Local Government Area (LGA).

The majority of the land within the Project site is cleared of trees and it has a long history of grazing and cropping. The Project site is generally flat with a slight increase in elevation toward its northern end. Two (2) small stock dams are located within the Project site. The Talbragar River runs in an east-west alignment through the transmission line corridor near the EE Dunedoo Substation in the south of the Project site. This river is part of the Macquarie Catchment within the Murray-Darling basin.

Allweather Road runs east-west along the southern boundary of the solar farm component of Project Site, providing direct access. Allweather Road connects to Digilah Road to the east and the Castlereagh Highway to the west (Figure 2-1). Road upgrades for the Project will occur on Allweather Road and its intersection with Castlereagh Highway.

A new transmission line will be constructed to connect the Project to the EE Dunedoo Substation, at the southern end of the Project site, approximately 2km south of the solar farm.

There are nine sensitive receivers within a 2 km radius of the Project site. One involved residence occurs 220 metres (m) west of the Project site (R2). The closest non-involved receiver (R4) is 730m north of the site (Figure 2-1).

Figure 2-1 shows the Project area and surrounding features. The approved general layout of the Project (Appendix 1 of the Development Consent) is provided in Appendix A.

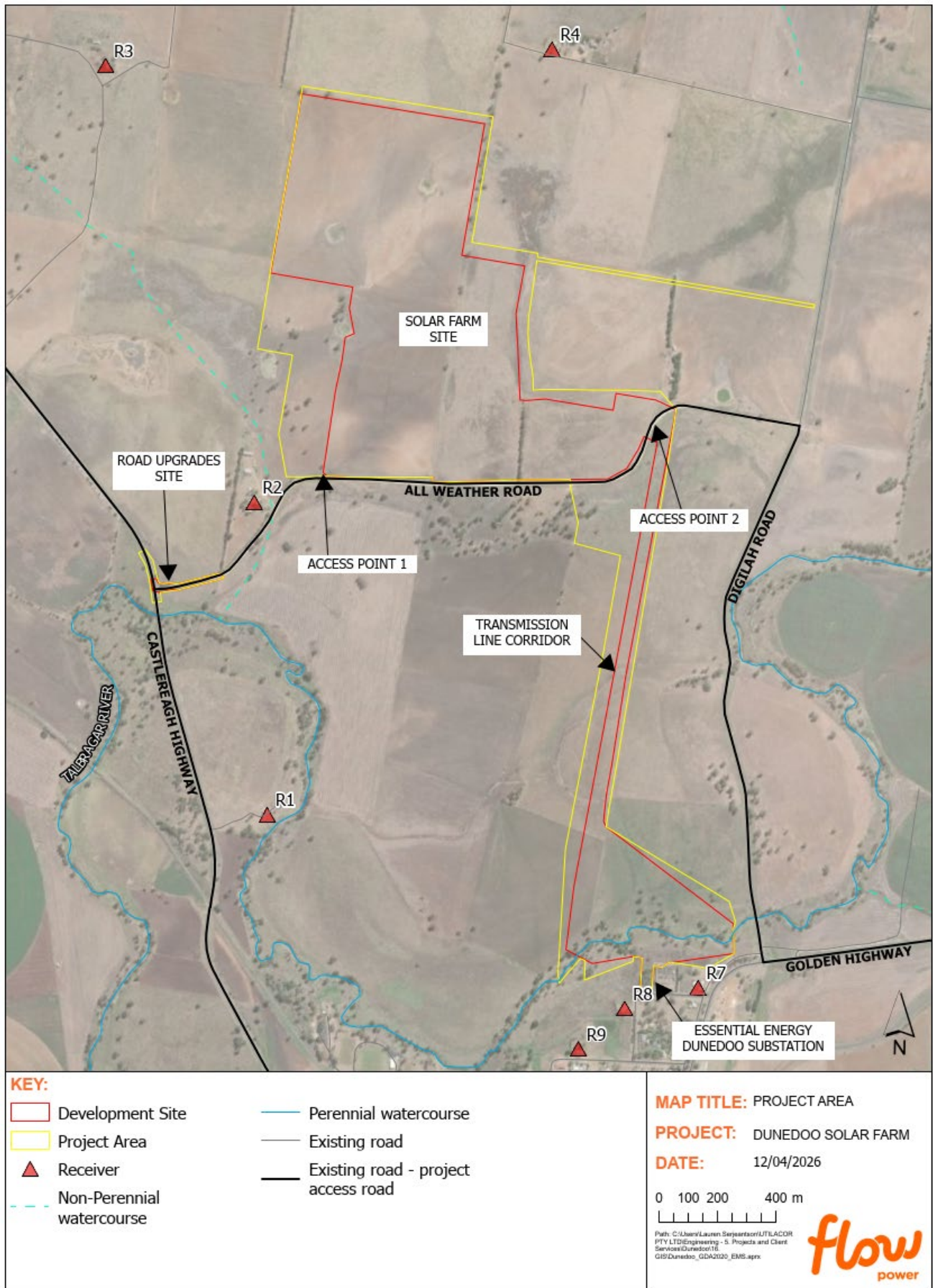


Figure 2-1 Project site and surrounding features

2.2. Overview

The Project comprises the construction, operation and decommissioning of a 55 MW AC PV solar farm with a BESS in Dunedoo, NSW.

Key elements include:

- Approximately 173,000 PV solar panels, mounted on single axis tracking systems, powered by tracker motors
- Electrical cables and conduits
- Inverter/transformer stations, containerised or skid mounted, distributed across the site
- Battery storage units containerised in a central battery yard
- On site substation containing transformer, synchronous condenser, associated HV switchgear, switch room, control room and lightning protection masts
- Communications tower (up to 25 metres high), within the facility connection substation fenced area
- Site office, compounds, storage shed, parking, access tracks and perimeter fencing
- Two (2) access points via Allweather Road
- Internal access tracks
- Lighting, CCTV system, security fencing
- Vegetative screening
- A new Transmission Line to connect the solar farm into the Essential Energy (EE) transmission network at the Dunedoo Substation
- A new bay in the Dunedoo Substation and any required augmentation within the existing Dunedoo Substation
- Subdivision and consolidation of lots
- Construction of a heavy vehicle passing bay along Allweather Road and upgrade to the Castlereagh Highway and Allweather Road intersection.

2.3. Project staging

The Project will be undertaken in the following stages, as per the staging strategy approved by the Planning Secretary on 12 May 2026, in accordance with CoA 3 of Schedule 4:

- **Stage 1a: Preconstruction activities**, including:
 - Salvage of Aboriginal heritage artefacts; and
 - Landscaping Stage 1 (landscaping works at the solar farm site).
- **Stage 1b: Preconstruction activities**, including:
 - Road upgrades as required by the Development Consent Condition of Approval (CoA) 8, Schedule 3.
- **Stage 2: Construction**, including construction of:
 - Solar farm, BESS and associated infrastructure; and
 - Transmission line from the solar farm to the EE Dunedoo Substation; and
 - EE Dunedoo substation expansion and connection works, including landscaping at the EE Dunedoo substation.
- **Stage 3: Operation**

- **Stage 4: Decommissioning**

The Project stages are outlined in further detail in the following sections.

2.3.1. Stage 1a Preconstruction

Stage 1a preconstruction comprises the salvage of Aboriginal heritage artefacts in accordance with the Heritage Management Plan, and Stage 1 landscaping works in accordance the Stage 1 Landscaping Plan.

The Stage 1 landscaping works is the landscaping required at the solar farm site, including the planting of the vegetation buffer and associated works as required by CoA 12, Schedule 3, and detailed with the Landscape Plan required under CoA 13 and 13A, along designated sections of the solar farm site perimeter.

Vegetation screening to be planted at the EE Dunedoo substation (as shown in Appendix 1 of the Development Consent) will not be undertaken as part of Stage 1 and will be undertaken as part of Stage 2 Construction, once the detailed design of the substation expansion, including APZs, is completed by EE. This landscaping will be incorporated into an updated Landscaping Plan prior to the commencement of Stage 2.

Due to the location of Stage 1 landscaping coinciding with some Aboriginal heritage sites, the salvage program in accordance with the Project's Heritage Management Plan will be undertaken prior to the commencement of Stage 1 landscaping works.

2.3.2. Stage 1b Preconstruction:

Stage 1b preconstruction comprises the road upgrades to the public road network as required by CoA 8, Schedule 3, prior to the commencement of construction, comprising:

- (a) the intersection of Castlereagh Highway and All Weather Road with BAL treatments to be sealed, designed and constructed for 100 km/h speed environment, able to accommodate the largest vehicle using the intersection, match existing road levels and not interfere with existing road drainage, identified in Appendix 4 (of the Development Consent).
- (b) the south-western section of All Weather Road to provide a heavy vehicle passing bay identified in Appendix 4 (of the Development Consent).

2.3.3. Stage 2 Construction

Stage 2 construction effectively involves the construction of all remaining elements of the Project, not undertaken in Stage 1. This includes the solar farm, BESS, and associated infrastructure, the transmission line from the solar farm to the EE Dunedoo Substation, EE Dunedoo substation expansion and connection works and landscaping at the EE Dunedoo substation. It also includes commissioning activities.

At the end of Stage 2, the Project will be commissioned and ready to commence operation.

2.3.4. Stage 3 Operation

Stage 3 is the operational phase of the Project post-commissioning. This phase is likely to be approximately 30 years. Operational activities would include:

- Routine visual inspections, general maintenance and cleaning operations of the solar arrays as required
- Routine visual inspections, general maintenance and cleaning operations of the BESS, inverters, substation and other equipment
- Vegetation management, using sheep to control grass growth beneath the panels if possible. Groundcover vegetation would be maintained over the site to minimise erosion, dust and weeds (subject to climatic conditions). Groundcover would be monitored and remediation (such as reseeded or soil protection) undertaken as required
- Site security response (24-hr) if required
- Site operational response (24-hr) if required
- Replacement of equipment and infrastructure as required
- Maintenance of landscaping and screening plantings as required
- Pest plant and animal control as required.

2.3.5. Stage 4 Decommissioning or Upgrading

Stage 4 is the decommissioning or upgrading of the Project at the end of the Project's expected life (following approximately 30 years of operation). Decommissioning would involve the dismantling, demolition and removal of all Project infrastructure and the rehabilitation of the site.

Alternatively the infrastructure may be upgraded, involving the replacement and refurbishment of infrastructure to renew the operating life of the Project.

2.4. Design requirements

Flow Power will ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the Building Code of Australia.

The battery storage facility or system associated with the development must not exceed a total delivery capacity of 60.48 MW.

2.5. Subdivision

Flow Power may subdivide land comprising the site for the purposes of carrying out the development as shown in Appendix 3 of the CoA and in accordance with the requirements of the EP&A Act, EP&A Regulation, *Conveyancing Act 1919* (NSW) and the NSW Land Registration Services (or its successor).

2.6. Site access

In accordance with the CoA:

- All heavy vehicles associated with the development travel to and from the site via Castlereagh Highway and All Weather Road and must enter and exit the site via Access Point 1
- All light vehicles associated with the development travel to and from the site via Golden Highway, Digilah Road and All Weather Road and must enter and exit the site via Access Point 2.

Refer to Figure 2-1 for location of access points.

2.7. Upgrading requirements

As per Schedule 2 Condition 5, Flow Power may upgrade the solar panels and ancillary infrastructure on site provided these upgrades remain within the approved development footprint of the site. Prior to carrying out any such upgrades, Flow Power will provide revised layout plans and Project details of the development to the Planning Secretary incorporating the proposed upgrades.

2.8. Project program

An indicative timeline for the Project is outlined in Table 2-1.

Table 2-1 Indicative timeline

Phase	Target commencement	Approximate duration
Stage 1a Preconstruction	Q3 2026	1-2 months (landscaping)
Stage 1b Preconstruction	Q4 2026	3 months (road upgrades)
Stage 2 Construction	Q1 2027	10-12 months
Stage 3 Operation	Q1 2028	30 years
Stage 4 Decommissioning	2058	6 months

The Stage 1a and Stage 1b preconstruction activities may be undertaken concurrently. Timing will depend on timing of pre-commencement and third party approvals and seasonal constraints for planting. However, the road upgrades and landscaping at the solar farm site are required to be completed prior to the commencement of Stage 2 (commencement of construction).

2.9. Project hours

Construction activities will only be undertaken during standard daytime construction hours (7.00am to 6.00pm Monday to Friday and 8.00am to 1.00pm on Saturdays). No works will be undertaken on Sundays or NSW public holidays.

The following construction, upgrading or decommissioning activities may be undertaken outside these hours without the approval of the Planning Secretary:

- The delivery of materials as requested by the NSW Police Force or other authorities for safety reasons; or
- Emergency work to avoid the loss of life, property and/or material harm to the environment.

3. Planning

3.1. Legal and other requirements

A register of legal and other requirements for the Project is contained in Appendix C. This register is maintained as a checklist. This register will be reviewed at regular intervals e.g., during management reviews, and updated with any applicable changes. Any changes made to the legal requirements register will be communicated to the wider team where necessary through toolbox talks, specific training and other methods detailed in Section 5.

3.2. Conditions of Approval

The CoA relevant to this EMS are outlined in Table 3-1. The full list of CoA and mitigation measures from the Environmental Assessment documents are identified in Appendix B, along with the management plan where conditions and measures have been addressed.

Table 3-1 Conditions relevant to the EMS

Condition	Requirement	Where addressed
Schedule 4 Environmental Management and reporting		
Environmental management		
Environmental Management Strategy		
1	Prior to commencing the development, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Planning Secretary. This strategy must:	This plan
	a) Provide the strategic framework for environmental management of the development;	
	b) Identify the statutory approvals that apply to the development;	Section 3.3 of this EMS
	c) Describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	Section 4.4 of this EMS
	d) Describe the procedures that would be implemented to: Keep the local community and relevant agencies informed about the operation and environmental performance of the development;	Section 7.2 of this EMS
	Receive, handle, respond to, and record complaints;	Section 7.3 of this EMS

Condition	Requirement	Where addressed
	Resolve any disputes that may arise;	Section 7.4 of this EMS
	Respond to any non-compliance;	Section 8.4 of this EMS
	Respond to emergencies; and	Section 8.2 of this EMS
	e) Include: References to any plans approved under the conditions of this consent; and	Section 4.2 of this EMS
	A clear plan depicting all the monitoring to be carried out in relation to the development.	Section 9.2 of this EMS
	Following the Planning Secretary's approval, the Applicant must implement the Environmental Management Strategy.	
Revision of Strategies, Plans and Programs		
2	The Applicant must: a) Update the strategies, plans or programs required under this consent to the satisfaction of the Planning Secretary prior to carrying out any upgrading or decommissioning activities on site; and b) Review and, if necessary, revise the strategies, plans or programs required under this consent to the satisfaction of the Planning Secretary within 1 month of the: - Submission of an incident report under condition 7 of Schedule 4; - Submission of an audit report under condition 11 of Schedule 4; or - Any modification to the conditions of this consent	Section 10.1 of this EMS.
Updating and Staging of Strategies, Plans or Programs		
3	With the approval of the Planning Secretary, the Applicant may submit any strategy, plan or program required by this consent on a progressive basis. To ensure the strategies, plans or programs under the conditions of this consent are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the Planning Secretary for approval.	Section 4.2 and 10.2 and of this EMS The Project received staging approval from the Planning Secretary on 12 May 2026.

Condition	Requirement	Where addressed
	With the agreement of the Planning Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all the parties referred to under the relevant condition of this consent. Notes: • While any strategy, plan or program may be submitted on a progressive basis, the Applicant must ensure that all development being carried out on site is covered by suitable strategies, plans or programs at all times. • If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.	This EMS will be regularly reviewed and be updated as necessary to the satisfaction of Planning Secretary.
Notifications		
Notification of Department		
4	Prior to commencing the road upgrades, construction, operations, upgrading or decommissioning of the development or the cessation of operations, the Applicant must notify the Department in writing via the Major Projects website portal of the date of commencement, or cessation, of the relevant phase. If any of these phases of the development are to be staged, then the Applicant must notify the Department in writing prior to commencing the relevant stage, and clearly identify the development that would be carried out during the relevant stage.	Section 7.2.1 of this EMS
Final Layout Plans		
5	Prior to commencing construction, the Applicant must submit detailed plans of the final layout of the development to the Secretary, including details on the siting of solar panels and ancillary infrastructure, via the Major Projects website.	Section 7.2.1 of this EMS
Work as Executed Plans		
6	Prior to commencing operations, or following the upgrades of any solar panels or ancillary infrastructure, the Applicant must submit work as executed plans of the development to the Secretary, via the Major Projects website.	Section 7.2.1 of this EMS
Incident notification		
7	The Department must be notified in writing via the Major	Section 9.5.1 of this

Condition	Requirement	Where addressed
	Projects website portal immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 6.	EMS
Non-compliance Notification		
8	The Department must be notified via the Major Projects website portal within 7 days after the Applicant becomes aware of any non-compliance with the conditions of this consent.	Section 9.5.3 of this EMS
9	The non-compliance notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been done, or will be, undertaken to address the non-compliance.	Section 9.5.3 of this EMS
10	A non-compliance which has been notified as an incident does need to also be notified as a non-compliance.	Section 9.5.3 of this EMS
Independent Environmental Audit		
11	Independent Audits of the development must be conducted and carried out in accordance with the <i>Independent Audit Post Approval Requirements</i> (2020) for the following frequency: (a) within 3 months of commencing construction; and (b) within 3 months of commencing operations.	Section 9.3 of this EMS
12	Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.	Section 9.3 of this EMS
13	The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in condition 11 of Schedule 4, upon giving at least 4 weeks' notice to the Applicant of the date upon which the audit must be commenced.	Section 9.3 of this EMS
14	In accordance with the specific requirements of the <i>Independent Audit Post Approval Requirements</i> (2020), the Applicant must: (a) review and respond to each Independent Audit Report prepared under condition 11 of Schedule 4 of this consent, or condition 13 of Schedule 4 where notice is given by the Planning Secretary; (b) submit the response to the Planning Secretary; and (c) make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Planning Secretary, unless otherwise agreed by the Planning Secretary.	Section 9.3 of this EMS

Condition	Requirement	Where addressed
15	Independent Audit Reports and the Applicant's response to audit findings must be submitted to the Planning Secretary within 2 months of undertaking the independent audit site inspection as outlined in the <i>Independent Audit Post Approval Requirements</i> (2020) unless otherwise agreed by the Planning Secretary.	Section 9.3 of this EMS
16	Notwithstanding the requirements of the <i>Independent Audit Post Approval Requirements</i> (2020), the Planning Secretary may approve a request for ongoing independent operational audits to be ceased where it has been demonstrated to the Planning Secretary's satisfaction that independent operational audits have demonstrated operational compliance.	Section 9.3 of this EMS
Access to information		
17	The Applicant must: (a) make the following information publicly available on its website as relevant to the stage of the development: - the EIS; - the final layout plans for the development; - current statutory approvals for the development; - approved strategies, plans or programs required under the conditions of this consent; - the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged; - how complaints about the development can be made; - any independent environmental audit, and the Applicant's response to the recommendations in any audit; and - any other matter required by the Planning Secretary; and (b) keep this information up to date.	Section 11.3 of this EMS

3.3. Approvals, permits and licensing

The Project will be undertaken in accordance with the following:

- The Project EIS (NGH, 2020)
- The Project Submissions Report (NGH, 2021a)
- The Project Amendment Reports (NGH, 2021b, 2021c and 2022)
- Project Development Consent (LEC No: 2021/303846; DPE, 18 March 2022).

Additionally, the Project requires the following permits and licences:

- *Roads Act 1993*, Section 138 consent: Any works to local or classified roads requires consent under this act from the relevant road authority. Warrumbungle Shire Council is the road authority for local roads within the Dunedoo area, including Allweather Road, and Transport for NSW (TfNSW) is the road authority for classified roads, including Castlereagh Highway.
- Oversize Overmass (OSOM) Permit: An OSOM permit will be required from the National Heavy Vehicle Regulator (NVHR) for any oversized vehicles.

Should any additional environmental or planning approvals, permits or licences be required the following procedure will be implemented:

- Approval, licence or permit need is identified
- The Project Manager will identify impacts to the Project in relation to the approval (e.g., stop work)
- The Project Manager in consultation with Flow Power will arrange the necessary work to apply for the approval, licence or permit
- The Project Manager will notify Flow Power in writing of the outcome of the application.
- If changes are necessary to the EMS, the procedure in Section 9.5 will be followed.

4. Environmental management system

4.1. Objectives and targets

As a means of assessing environmental performance over the life of the Project, environmental objectives and targets have been established. These objectives and targets have been developed with consideration of key issues identified through the environmental assessment and risk assessment process. The objectives and targets are consistent with the Project environmental policy and will assist in monitoring whether the commitments of the policy are being met.

The targets are incorporated into relevant environmental management sub-plans.

The performance of the Project against the objectives and targets will be documented in the Project compliance reports and at least on an annual basis as part of the management review.

Environmental objectives and targets for the Project are provided in Table 4-1.

Table 4-1 Environmental objectives and targets

Objective	Target	Measurement Tool
Construction, operation and decommissioning of the Project in accordance with environmental approvals.	Compliance with statutory approvals.	Audits, site inspections, compliance reporting, management review.
Construction, operation and decommissioning of the Project in accordance with approved environmental management plans.	- Compliance with EMS and associated Sub-plans. - Compliance with relevant environmental procedures.	Audits, site inspections, compliance reporting, management review.
Compliance with all legal requirements.	- No regulatory infringements (PINs or prosecutions). - No formal regulatory warning.	Audits, site inspection compliance reporting, management review (construction and operation).
Implement rigorous and comprehensive EMS that generally meets the requirements of AS/NZS ISO 14001.	Address non-compliances and corrective actions within specific timeframes.	Audits, management review (complaints/corrective actions register).
Engage with the affected and broader community, minimise complaints and respond to any complaints within a suitable timeframe	- Disseminate regular Project updates and other information through the Project website and other tools identified in the Project's Community Consultation Plan (CCP). - Record and respond to complaints in accordance with timeframes	Review complaints register, compliance report, audits.

Objective	Target	Measurement Tool
	specified in the CCP and outlined in this EMS.	
Continuously improve environmental performance.	- Develop and maintain a program of ongoing environmental training. - Capture lessons learnt from environmental incidents to minimise repeat issues. - Encourage and reward innovation and effort throughout the works force.	Compliance report, management review, training records construction and operational audits.

4.2. Environmental management sub-plans

The EMS and subplan documents are prepared to identify requirements and processes applicable to specific impacts or aspects of the activities described in Section 2. They address the measures identified in the EIS documentation and Project CoA.

The sub-plans for the Project, their consultation approval requirements, and staging are provided in Table 4-2. The results of the consultation are provided in each of the sub-plans.

Refer to DPHI's approval of staging dated 12 May 2026 for more detail on the staging of management plans.

Table 4-2 Environmental management plans and approval and consultation requirements

Plan	Consultation Requirements	Approval requirements	Applicable to Stage	Timing
EMS (CoA 1, Schedule 4)	NA	To the satisfaction of the Planning Secretary in writing	All	This Plan, to be prepared and approved prior to commencement of Stage 1a. EMS to be updated prior to the commencement of Stage 2, and subsequent stages where required.
Traffic Management Plan (TMP) (CoA 11, Schedule 3)	Developed in consultation with TfNSW and Warrumbungle Shire Council	To the satisfaction of the Planning Secretary in writing	Stage 1b, 2, 3, 4	Separate sub-plan document to be prepared and approved prior to commencement of Stage 1b and updated prior to the commencement of Stage 2, and subsequent stages where required.
Landscaping Plan (LP)	In consultation with the owner of	To the satisfaction of the	Stage 1a, 2, 3	Separate sub-plan document to be prepared

Plan	Consultation Requirements	Approval requirements	Applicable to Stage	Timing
(CoA 13, Schedule 3)	residences R3 and R4.	Planning Secretary in writing		and approved prior to commencement of Stage 1a and updated prior to the commencement of Stage 2, and subsequent stages where required.
Biodiversity Management Plan (BMP) (CoA 17, Schedule 3)	Developed in consultation with Former Biodiversity, Conservation and Science Directorate (BCS)	To the satisfaction of the Planning Secretary in writing	Stage 1b, 2, 3, 4	Separate sub-plan document to be prepared and approved prior to commencement of Stage 1b and updated prior to the commencement of Stage 2, and subsequent stages where required.
Heritage Management Plan (HMP) (CoA 25, Schedule 3)	Developed in consultation with Heritage NSW and Aboriginal Stakeholders	To the satisfaction of the Planning Secretary in writing	All	Separate sub-plan document to be prepared and approved prior to commencement of Stage 1a and updated prior to subsequent stages where required.
Fire Safety Study (FSS) (CoA 29, Schedule 3)	Consultation with FRNSW via review process.	To the satisfaction of FRNSW and the Planning Secretary in writing	Stage 2, 3, 4	Separate sub-plan document to be prepared and approved prior to commencement of Stage 2.
Safety Management Study (SMS) (CoA 30, Schedule 3)	Developed in consultation with the owner of the gas pipeline.	To the satisfaction of the owner of the gas pipeline.	Stage 2, 3, 4	Separate sub-plan document to be prepared and approved prior to commencement of Stage 2.
Accommodation and Employment Strategy (A&ES) (CoA 35, Schedule 3)	Developed in consultation with Warrumbungle Shire Council	To the satisfaction of the Planning Secretary in writing	Stage 2, 3, 4	Separate document to be prepared and approved prior to commencement of Stage 2, and updated prior to subsequent stages where required.
Emergency Plan	Developed in consultation with Fire Rescue NSW	To the satisfaction of FRNSW and	Stage 2, 3, 4	Separate sub-plan document to be prepared and approved prior to

Plan	Consultation Requirements	Approval requirements	Applicable to Stage	Timing
	(FRNSW) and the Rural Fire Service (RFS)	RFS		commencement of Stage 2, and updated prior to subsequent stages where required.
Soil and Water Management Plan (EIS Mitigation measure S3)	NA	NA	All	Separate sub-plan document to be prepared prior to commencement of Stage 1a, and updated prior to subsequent stages where required.
Waste Management Plan (EIS Mitigation measure WM1)	NA	NA	All	Separate sub-plan document to be prepared prior to commencement of Stage 1a, and updated prior to subsequent stages where required.

4.3. Consultation

Summaries of consultation, in accordance with the Development Consent as outlined in Table 4-2, are included in the relevant plans detailing the consultation undertaken, the outcome of that consultation, as well as any matters resolved and unresolved. Flow Power will consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval. DPHI has been made aware of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.

4.4. Roles and responsibilities

The key environmental management roles and responsibilities for the construction phase of the Project are described below. An organisational structure is provided in Appendix E.

Flow Power is the Applicant and proponent for the Dunedoo Energy Project. Flow Power will engage contractors to undertake the works including a Principal Contractor (PC). The PC will be responsible for Work, Health Safety as well as environmental management. Notwithstanding the appointment of a PC and other contractors, Flow Power as the Applicant has ultimate responsibility for environmental management and compliance with the CoA.

The contractors shall ensure specific responsibilities are communicated to all personnel via appropriate environmental management training (part of the initial safety and environment induction).

4.4.1. Environmental management team

Flow Power and PC's environmental management team are provided in Table 4-3.

Table 4-3 Environmental management team

Role	Responsibility
Flow Power Project Manager	• Primary point of contact for DPHI and Council • Engaging with all relevant stakeholders and authorities to determine Project environmental requirements; and acquiring Project environmental approvals including relevant licensing and permits • Fulfilling the Proponent's obligations under the Conditions of Approval for the Project works • Providing the contractor visibility and transparency to Project environmental requirements and commitments, to enable outcomes • Advising or enabling environmental requirements and considerations in a timely manner • Initiating and participating in Project meetings, workshops, and consultations to facilitate outcomes throughout the Project • Setting up and managing a Project complaint handling and resolution process, as detailed by the Project CoAs • Making Project approvals and environmental documents publicly accessible, as detailed by the Project CoAs • Regularly monitoring environmental performance and maintaining visibility on work sites for environmental compliance • Advising the DPHI and Stakeholders on Project environmental performance • Duty to Notify and timely reporting of environmental incidents and non-compliances to the Department, and as otherwise required. • Ensuring all Project activities are carried out in an environmentally responsible way, without environmental harm, and in compliance with the Project CoAs • Advising the Department and Stakeholders of key timeframes and dates associated with the works • Validating the capabilities, proficiencies and performance of parties engaged for the works.
Principal Contractor's Project Manager	• Ensure all works comply with relevant regulatory and Project requirements • Ensure the requirements of this EMS and sub-plans are fully implemented, and environmental requirements are not secondary to other construction requirements • Liaise with Flow Power and Government authorities as required • Participate and provide guidance in the regular review of this EMS and sub-plans • Provide adequate resources (personnel, financial and technological) to

Role	Responsibility
	ensure effective development, implementation and maintenance of this EMS • Ensure that all personnel receive appropriate induction training, including details of the environmental and community requirements • Ensure that complaints are investigated to ensure effective resolution • Stop work immediately if an unacceptable impact on the environment is likely to occur.
Principal Contractor's Construction Manager	• Plan construction works in a manner that avoids or minimises impact to environment • Ensure the requirements of this EMS and sub-plans are fully implemented • Ensure construction personnel manage construction works in accordance with statutory and approval requirements • Support the Environmental Site Representative in achieving the Project environmental objectives • Ensure environmental management procedures and protection measures are implemented • Ensure all Project personnel attend an induction prior to commencing works • Liaise with Flow Power and other Government authorities as required • Stop work immediately if an unacceptable impact on the environment is likely to occur.
Principal Contractor's Superintendent	• Communicate with all personnel and sub-contractors regarding compliance with the EMS, sub-plans and site-specific environmental issues • Ensure all site workers attend an environmental induction prior to the commencement of works • Coordinate the implementation of the EMS and sub-plans • Coordinate the implementation and maintenance of pollution control measures • Identify resources required for implementation of the EMS and sub-plans • Support the Environmental Site Representative in achieving the Project environmental objectives, including on ground implementation of any work method statements • Report any activity that has resulted, or has the potential to result, in an environmental incident immediately to the Environmental Site Representative • Coordinate action in emergency situations and allocate required resources • Stop activities where there is an actual or immediate risk of harm to the environment and advise the Construction Manager and Environmental Site Representative.
Principal Contractor's Environmental Site Representative (ESR)	• Advising on environmental matters specified in the environmental assessment documents and Project approvals • Maintaining a register of all environmental management documents for the Project • Ensuring that the EMS and sub-plans is established, implemented and

Role	Responsibility
	maintained in compliance with the safeguards, procedures and supplementary EWMS relevant to the Project. The ESR will upgrade these documents (as needed) to remain up to date with the progress of the Project • Overall responsibility for the establishment, management, monitoring and maintenance of erosion and sediment controls within the site • Carrying out regular inspections and auditing of the works to ensure that environmental safeguards are being followed • Identifying where the implemented environmental measures are not meeting the targets set and identifying areas where improvement can be achieved • Preparing monthly reports outlining the works that have been undertaken and the achievements that have been met, as well as identifying those areas where improvements were made • Facilitating environmental induction and toolbox talks for all site personnel • Specific authority to stop work on any activity where the ESR deems it necessary to prevent environmental nonconformities • Notification to relevant parties of any environmental incidents.
Flow Power's Head of Community & Stakeholder Engagement	• Reporting any environmental issues raised by stakeholders or members of the community to the Project Manager • Communicating general Project progress, performance and issues to stakeholders, including the community • Ensuring the complaint register is up to date. • Maintaining the Community Contacts Database.
Contractors' Project/Site Engineers	• Provide input into the preparation of environmental planning documents as required • Ensure that instructions are issued, and adequate information provided to employees that relate to environmental risks on-site • Ensure that the works are carried out in accordance with the requirements of the EMS and supporting documentation, including the implementation of all environmental controls • Identify any environmental risks • Identify resource needs for implementation of EMS and sub-plans • Take action in the event of an emergency and allocate the required resources to minimise the environmental impact • Report any activity that has resulted, or has the potential to result, in an environmental incident or reportable event immediately to the Construction Manager and ESR.
Contractors' Site Supervisor	• Undertake any environmental duties as defined by the superintendent or Project/Site Engineer • Control field works and implement/maintain effective environmental controls • Where required, undertake environmental risk assessment of works prior to commencement • Ensure site activities comply with work method statements and relevant records are kept

Role	Responsibility
	• Ensure all site workers are site inducted prior to commencement of works • Attend to any spills or environmental incidents that may occur on-site • Report any activity that has resulted, or has the potential to result, in an environmental incident or reportable event immediately to the Superintendent • Stop activities where there is an actual or immediate risk of harm to the environment and advise the Construction Manager and ESR.
Wider Project team (including subcontractors)	• Complying with the relevant requirements of the EMS, sub-plans, or other environmental management guidance as instructed by a member of the Project's management • Participating in the mandatory Project/site induction program • Reporting any environmental incidents to the site supervisor immediately or as soon as practicable if reasonable steps can be adopted to control the incident • Undertaking remedial action as required to ensure environmental controls are maintained in good working order • Stopping activities where there is an actual or immediate risk of harm to the environment and advise the Project Manager, Construction Manager, Superintendent or ESR.

4.4.2. Contractor and sub-contractor management

Contractors, sub-contractors and their employees will be required to comply in full with the requirements of the EMS, sub-plans and relevant environmental requirements as it applies to site environmental management and control. Contractor's and sub-contractors' personnel are considered equivalent to Flow Power Project personnel in all aspects of environmental management and control. Their responsibility in this respect mirrors those of Flow Power personnel.

Contractor's and subcontractors' Safe Work Method Statements (SWMS) and other documentation such as work method statements and risk assessments, will be reviewed and assessed to ensure they are appropriate for the tasks being conducted.

The Project Manager is responsible to ensure the subcontractor documentation, plant and equipment has been approved prior to commencing on site.

Contractor's and sub-contractors working on the Project will be required to:

- Undertake environmental awareness training (refer to Section 5)
- Observe contract and statutory requirements relating to environmental protection and other environmental legislation and to follow instructions issued by Flow Power management, supervisory personnel
- Nominate site representatives to liaise with Flow Power representatives with respect to, and take responsibility for, environmental requirements for the site activities
- Adhere to Flow Power's environment management system as it applies to their operations on the site
- Undertake weekly environmental inspections of their work areas

- Co-operate fully with the site emergency incident procedures and consultative arrangements
- Follow procedures incorporated in the EMS and sub-plans.

All contractor's and subcontractors are monitored on site by the site supervisor and are required to work in accordance with their method statements at all times. All subcontractors are monitored on site for compliance in the same manner as Flow Power employees. Monitoring will include but is not limited to:

- Undertaking daily checks of environmental controls in high-risk sites or in environmentally sensitive environments
- Documenting findings on daily checks
- Completing checklist as required.

Observations will be made by the ESR to assess the effectiveness of environmental protective measures being used onsite by the sub-contractor and to determine compliance with the requirements of the EMS and sub-plans.

Internal audits will also be conducted by Flow Power to assess:

- Communication with sub-contractors
- Compliance with contractual requirements
- Knowledge of and compliance with the EMS and sub-plans
- Work procedures and environmental management controls on site.

5. Environmental mitigation measures

Project environmental mitigation measures are provided in Table 5-1. This table does not include mitigation measures for the environmental aspects covered under separate sub-plans (refer Section 4.2).

Table 5-1 Project environmental mitigation measures

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
General					
EMS1	The Applicant will ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.	Induction materials Toolbox training material	All stages	Flow Power Project Manager	Good practice
EMS2	All reasonable and feasible measures will be implemented to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction, operation, upgrading, commissioning, rehabilitation or decommissioning of the development. This includes all mitigation measures outlined in this EMS and the environmental management plans listed in Section 4.2 will be implemented throughout the relevant stages of the Project.		All stages	Flow Power Project Manager Contractor Project Manager	Schedule 2 Condition 1
EMS3	Permit and licences outlined in Section 3.3 of this EMS will be acquired where required.		Pre-construction Construction	Flow Power Project Manager PC Project Manager	Good practice
EMS4	The Applicant will not clear any native vegetation or fauna habitat located outside the		All stages	Flow Power	Schedule 3

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
	approved disturbance areas described in the EIS.			Project Manager PC	Condition 15
EMS5	Prior to commencing construction, the Applicant will retire biodiversity credits of a number and class specified in Table 1 of the CoA, unless the Secretary agrees otherwise. The retirement of these credits will be carried out in accordance with the <i>NSW Biodiversity Offsets Scheme</i> and can be achieved by: a) acquiring or retiring 'biodiversity credits' within the meaning of the <i>Biodiversity Conservation Act 2016</i>; b) making payments into an offset fund that has been developed by the NSW Government; and/or c) funding a biodiversity conservation action that benefits the entity impacted and is listed in the ancillary rules of the biodiversity offset scheme.		Pre-construction, prior to the commencement of Stage 1b (road upgrades)	Flow Power Project Manager	Schedule 3 Condition 16
EMS6	Flow Power will minimise the noise generated by any construction, upgrading or decommissioning activities on site in accordance with the best practice requirements outlined in the Interim Construction Noise Guideline (DECC, 2009), or its latest version.		All stages	Flow Power Project Manager PC	Schedule 3 Condition 19
EMS7	Flow Power will ensure that the noise generated by the operation of the development during the night does not exceed 35 dB(A) LAeq,15min to be determined in accordance with the procedures in the <i>NSW Noise Policy for Industry</i> (EPA, 2017) at any non-associated residence.		Operation	Flow Power Project Manager PC	Schedule 3 Condition 19
EMS8	Flow Power will store and handle all chemicals, fuels and oils used on-site in accordance with: • The requirements of all relevant Australian Standards; and • The NSW EPA's <i>Storing and Handling of Liquids: Environmental Protection – Participants Handbook if the chemicals are liquids</i>. In the event of an inconsistency between the requirements listed from (a) to (b) above, the most stringent requirement will prevail to the extent of the inconsistency.		All stages	Flow Power Project Manager PC	Schedule 3 Condition 31

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
EMS9	Flow Power will: - Minimise the waste generated by the development; - Classify all waste generated on site in accordance with the EPA's <i>Waste Classification Guidelines 2014</i> (or its latest version); - Store and handle all waste on site in accordance with its classification; - Not receive or dispose of any waste on site; and - Remove all waste from the site as soon as practicable, and ensure it is sent to an appropriately licensed waste facility for disposal.	WMP	All stages	Flow Power Project Manager PC	Schedule 3 Condition 34
EMS10	The Flow Power will maintain the agricultural land capability of the site, including: - Establishing the ground cover of the site within 3 months following completion of any construction or upgrading; - Properly maintaining the ground cover with appropriate perennial species and weed management; and - Maintaining grazing within the development footprint, where practicable, unless the Planning Secretary agrees otherwise.	BMP	All stages	Flow Power Project Manager PC	Schedule 3 Condition 14
Soil and Water					
EMS11	Flow Power will minimise dust generated by the development.		All stages	Flow Power Project Manager PC	Schedule 3 Condition 20
EMS12	Flow Power will ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of the development to match its available water supply.		All stages	Flow Power Project Manager PC	Schedule 3 Condition 26
EMS13	Flow Power will ensure that the development does not cause any water pollution, as defined under Section 120 of the POEO Act.		All stages	Flow Power Project Manager	Schedule 3 Condition 29

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
				PC	
EMS14	Flow Power will: - Minimise erosion and control sediment generation - Ensure that construction, upgrading or decommissioning of the development has appropriate drainage and erosion sediment controls designed, installed and maintained in accordance with the relevant requirements in the Managing Urban Stormwater: Soils and Construction (Landcom, 2004) manual, or its latest version - Ensure the solar panels and ancillary infrastructure are designed, constructed and maintained to reduce impacts on localised flooding and groundwater at the site - Ensure the solar panels do not cause any increased water being diverted off site - Ensure the solar panels and ancillary infrastructure are designed, constructed and maintained to avoid causing any erosion on site - Ensure all works are undertaken in accordance with the Guidelines for Controlled Activities on Waterfront Land (NRAR, 2018), unless DPE Water agrees otherwise.		All stages	Flow Power Project Manager PC	Schedule 3 Condition 28
Infrastructure and equipment					
EMS15	All plant and equipment used on site, or in connection with the development, will be: - Maintained in a proper and efficient condition; and - Operated in a proper and efficient manner.		All stages	Flow Power Project Manager PC Supervisor Operator	Schedule 2 Condition 9
EMS16	Unless Flow Power and the applicable authority agree otherwise, Flow Power will: - Repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and - Relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.		All stages	Flow Power Project Manager	Schedule 2 Condition 8

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
	This condition does not apply to the upgrade and maintenance of the road network, which is expressly provided for in the conditions of the consent.				
EMS17	Flow Power will minimise the off-site visual impacts of the development, including the potential for any glare or reflection.	Landscape Plan	All stages	Flow Power Project Manager	Schedule 3 Condition 21
EMS18	Flow Power will implement the Landscaping Plan.	Landscape Plan	All stages	Flow Power Project Manager	Schedule 3 Condition 13
EMS19	The materials and colour of onsite infrastructure will, where practical, be non-reflective and in keeping with the materials and colouring of existing infrastructure or of a colour that will blend with the landscape to reduce any potential for glare and reflection.		All stages	Flow Power Project Manager	Schedule 3 Condition 21
EMS20	Flow Power will not mount any advertising signs or logos on site, except where this is required for identification or safety purposes.		All stages	Flow Power Project Manager	Schedule 3 Condition 21
EMS21	The Project Site is to be kept tidy.		All stages	Flow Power Project Manager	Good practice
EMS22	Any security cameras installed as part of the development will be mounted so that they are not directed towards residences R3 and R4.		All stages	Flow Power Project Manager	Schedule 3 Condition 21A
EMS23	Flow Power will: - Minimise the off-site lighting impacts of the development; and - Ensure that any external lighting associated with the development: - Is installed as low intensity lighting (except where required for safety or emergency purposes); - Does not shine above the horizontal; and - Complies with <i>Australian Standard AS4282 (INT) 1997 – Control of Obtrusive</i>		All stages	Flow Power Project Manager	Schedule 3 Condition 22

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
	<i>Effects of Outdoor Lighting</i> , or its latest version.				

6. Training, awareness and competency

To ensure that this EMS is effectively implemented, each level of management is responsible for ensuring that all personnel reporting to them are aware of the requirements of this EMS. The ESR will coordinate the environmental training in conjunction with other training and development activities (e.g. safety).

6.1. Environmental site induction

Prior to working on site, all personnel and sub-contractors will undertake an environmental induction as part of the general site induction. This is done to ensure all personnel involved in the Project are aware of the requirements of the EMS and to ensure the implementation of environmental management measures.

Short-term visitors to site for purposes such as deliveries will be required to be accompanied by inducted personnel at all times.

The Project Manager is responsible for ensuring that all employees and contractor employees undertake an induction prior to starting work.

The environment component of the induction is to cover core issues including (but not limited to):

- Relevant details of the EMS including purpose and objectives
- Requirements of due diligence and duty of care
- Conditions of environmental licences, permits and approvals
- Potential environmental emergencies on site and the emergency response procedures
- Reporting and notification requirements for pollution and other environmental incidents or reportable events, including identification of contaminated land and damage and maintenance to environmental controls
- High risk activities and associated environmental safeguards
- Controls when working in or near environmentally sensitive areas
- Specific environmental management requirements and responsibilities
- Mitigation measures for the control of environmental issues
- Incident response and reporting requirements
- Information relating to the location of environmental constraints
- Site specific issues including:
 - Site flagging protocol
 - Erosion and sediment controls, water quality controls and sediment basin management
 - Management of contaminated material
 - Groundwater and surface water management and controls
 - Obligations under the *Biosecurity Act 2015* to prevent the spread of weeds during construction
 - Responsibilities under the following legislation and permits:
 - *National Parks and Wildlife Act 1974*, including the need to cease work immediately and report any object of potential Aboriginal heritage unearthed during clearing, grubbing and earthworks operations.
 - *Protection of the Environment Operations Act 1997*.
 - Noise, vibration and air quality management controls

- Requirement to maintain surrounding property access for residences, business owners, and their visitors, and to minimise disruptions to these properties for the duration of construction
- Location of refuse bins, washing, refuelling and maintenance of vehicles, plant and equipment
- Waste minimisation and disposal protocols
- Boundaries for vegetation clearing, flora and fauna habitat management including awareness of threatened fauna species and fauna rescue.
- Incident management processes
- Environmental emergencies including pollution incidents, floods and bushfires
- Key environmental issues
- Site-specific training will be provided to personnel engaged in activities or areas of higher risk, including but not limited to:
 - Working in and near waterways
 - Construction noise management
 - Areas of Aboriginal heritage sensitivity.

The site induction will also include communications training including:

- How to respond to community queries
- Aware and abide by the requirements for the release of information
- Understand the identity of the community.

A record of all environment inductions will be maintained and kept on-site in hard copy or in database. The ESR may authorise amendments to the induction at any time. Possible reasons for changes to the induction may be Project modifications, legislative changes or amendments to this EMS or related documentation.

An induction register is kept on site to demonstrate compliance with EMS activities.

6.2. Toolbox talks

Toolbox talks will be one method of raising awareness and educating personnel on issues related to all aspects of construction including environmental issues. The toolbox talks are used to ensure environmental awareness continues throughout construction.

Toolbox talks will include, but not be limited to:

- A description of the activity and the area
- Identification of the environmental issues and risks for the area
- Outline the mitigation measures for the works and the area

Toolbox talks will also be tailored to specific environmental issues relevant to upcoming works.

Relevant environmental issues include (but are not limited to):

- Erosion and sedimentation controls
- Working hours
- Emergency and spill response
- Weed management
- Water management
- Construction noise management
- Working in or near waterways

- Dust control
- Vegetation trimming and clearing
- Waste storage and segregation
- Management of identified heritage items.

Toolbox attendance is mandatory, and attendees of toolbox talks are required to sign an attendance form and the records maintained.

6.3. Daily prestart meetings

The pre-start meeting is a tool for informing the workforce of the day's activities, safe work practices, environmental protection practices, work area restrictions, activities that may affect the works, coordination issues with other trades, hazards and other information that may be relevant to the day's work.

The Site Supervisor will conduct a daily pre-start meeting with the site workforce before the commencement of work each day (or shift) or where changes occur during a shift. Daily pre-start meetings are generally succinct in nature and take about 10–15 minutes.

The environmental component of pre-starts will be determined by relevant superintendent and environmental personnel and will include any environmental issues that could potentially be impacted by, or impact on, the day's activities. All attendees will be required to sign on to the pre-start and acknowledge their understanding of the issues explained.

Pre-start topics, delivery date and a register of attendees will be recorded and kept on site to demonstrate compliance with EMS activities.

7. Communication

7.1. Internal communication

Clear lines of communication through all levels and functions (e.g., management, staff and sub-contractors) is key to minimising environmental impacts and achieving continual improvements in environmental performance.

The methods of communication on site will include:

- Pre-start meetings
- Inductions
- Toolbox talks
- Alerts, bulletins and / or initiatives.

The ESR will meet as part of Project meetings to discuss any issues with environmental management onsite, any amendments to plans that may be required or any new or changed Project activities.

Fortnightly environmental inspections will be scheduled with the ESR and relevant Project staff. The purpose of these inspections will be to communicate ongoing environmental performance and to identify any issues to be addressed.

In addition, the ESR will participate in toolbox talks on at least a weekly basis. This forum will provide an opportunity for the environment team members to communicate on environmental performance, to advise on any upcoming sensitive environmental matters for future work areas and receive feedback from onsite personnel.

Further internal communication regarding environmental issues and aspects will be through awareness training as described in Section 6.

7.2. External communication

7.2.1. Agencies and authorities

The Flow Power Project Manager will be the Project's primary point of contact for the DPHI and will be responsible for the submission of any notifications or Project documents to DPHI.

The ESR has the responsibility to report on the ongoing environmental performance of the Project to Flow Power. The ESR will report regularly to Flow Power through the monitoring and reporting requirements listed in Section 8.4.

A report will be prepared on each occasion the site is visited by NSW Environment Protection Authority (EPA) and any other relevant authorities, and Flow Power will be immediately notified. The report will be provided to Flow Power within 7 days of the visit outlining any concerns or outcomes from the visit.

EE will be consulted prior to commencement of works to ensure that the works do not adversely affect electricity transmission or impede access for inspection and maintenance.

It is noted, that Flow Power must comply with any requirement/s of the Planning Secretary arising from the Department's assessment of:

- Any strategies, plans or correspondence that are submitted in accordance with this consent
- Any reports, reviews or audits commissioned by the Department regarding compliance with the consent
- The implementation of any actions or measures contained in these documents.

In accordance with CoA 4, Schedule 4, prior to commencing the road upgrades, construction, operations, upgrading or decommissioning of the development or the cessation of operations, Flow Power will notify the Department in writing via the Major Projects portal of the date of commencement, or cessation, of the relevant phase.

In accordance with CoA 5, Schedule 4, prior to commencing construction, Flow Power will submit detailed plans of the final layout of the development to the Secretary, including details on the siting of solar panels and ancillary infrastructure, via the Major Projects website.

In accordance with CoA 6, Schedule 4, prior to commencing operations, or following the upgrades of any solar panels or ancillary infrastructure, Flow Power will submit work as executed plans of the development to the Secretary, via the Major Projects website.

7.2.2. Community and stakeholders

A Community Consultation Plan (CCP) is in place to provide an approach to stakeholder and community communications for the Project. The plan identifies opportunities for providing information and consulting with the community and stakeholders during the Project. The plan contains:

- Identification of community stakeholders that are likely to be affected by the Project
- Issues and risks related to the engagement of each stakeholder group
- A consultation strategy for each stakeholder group
- A set of activities against the project development timeline to facilitate consultation.

The CCP is a living document and will continue to be updated and implemented during all stages of the Project. Flow Power will provide regular updates about the progress of the project via the project website and newsletters.

The Head of Community & Stakeholder Engagement will be responsible for management of the Community Contacts Database. Details regarding the specific requirements for maintaining this database and reporting will be included in the CCP.

Flow Power is required to consult and notify neighbours of the Dunedoo Energy Project about any major deliveries which may require traffic control and disruption to access at least seven days before delivery.

The notification will provide details of:

- The Project
- The construction period and construction hours
- Delivery traffic control and disruptions
- Contact information for Project management staff
- Complaint and incident reporting
- How to obtain further information.

Any concerns raised by residents are to be addressed in accordance with the complaints procedure as outlined below.

7.3. Complaints procedure

External complaints are defined by Flow Power as complaints received from parties outside of the organisation where a response or resolution is expected. A complaint may be regarding project's staff or contractors, services or project works, or complaint handling during development, construction and operations of a project that is built, owned and operated by Flow Power. Complaints do not include general objections to a project or fundamental disagreement with renewable energy projects.

Complaints and queries can be made by the following methods:

- Email: info@dunedooenergyproject.com.au
- Toll-free phone number: 1800 377 639
- Mail: PO Box 6074 Hawthorn, VIC 3122.
- In Person: At any Flow Power information sessions relating to this project

Information on how complaints can be lodged as well as a link to this Plan will be provided on the project website: <https://flowpower.com.au/dunedoo-energy-project/>

The above contact details will also be included on any community notifications for the project, such as letters and newsletters.

No charges apply to make or have a complaint considered.

On receiving a complaint, the Project Manager will promptly conduct a review to determine the appropriate response and whether issues relating to the complaint could be avoided or minimised. The Project Manager will record the information in the Complaints Register.

Records of all complaints received will include the following details:

- Date and time of the complaint
- Method by which the complaint was made
- Contact details of the complainant and preferred method of communication
- Any personal details of the complainant
- The nature of the complaint and description of concerns
- The time and date of the incident, and the prevailing weather and operational conditions at the time of the incident (if applicable).
- The process for investigating the complaint and target timeframes.
- Person responsible for the complaint investigation and communication with complainant.
- Action taken in relation to the complaint and any follow up
- Any monitoring to confirm that the complaint has been satisfactorily resolved
- If no action taken, reasons why.
- Summary of communication with the complainant and method.

This information will be included in a Complaints Register provided in Appendix F. The information contained within the register will be made available DPHI on request.

Within 2 working days of the complaint being made, the Project Manager shall provide the complainant with an acknowledgement of the complaint.

Following receipt of the complaint, the Project Manager shall assess the complaint in terms of the following criteria:

- Severity
- Health and safety implications

- Complexity
- Adequacy of the information provided
- Impact on the individual, the general public, or Flow Power
- Potential to escalate
- Options available to address the concerns
- The need and possibility of immediate action
- Jurisdiction and statutory requirements
- The outcomes sought by the complainant
- Whether other organisations need to be involved.

After acknowledgement, a further detailed response, including steps taken to resolve the issue(s) that lead to the complaint, will be provided within 15 business days. At all times the stakeholder will be kept informed of when they will receive a response.

The Project Manager will apply an adaptive approach to ensure that corrective actions are applied in consultation with the appropriate construction staff to allow modifications and improvements in the management of any environmental issues resulting in community complaints.

Once a resolution has been identified, Flow Power shall communicate the below to the complainant:

- What actions were taken in response to the complaint
- Any resolutions that have been offered.

The reasons for any decision that have been made. At the time the complaint is resolved, the Complaints Register will be updated by the Project Manager to record the steps taken to address the complaint, the outcome, and any follow up action required with timeframes. Some complaints may require continual monitoring to ensure the effectiveness of measures taken. All complaints will be closed off in the stakeholder database.

7.4. Dispute resolution

Disputes are broader disagreements between parties that generally include multiple concerns. Any disputes that may arise during the Project, will be handled by the Flow Power Project Manager or delegate in accordance with the complaint procedure outlined in Section 7.3. As part of the complaint procedure, disputes will involve further consultation and negotiation with the parties involved and if required mediation to assist with finding a resolution.

8. Environmental incidents and emergencies

8.1. Emergency contact details

Emergency contact details for key Project personnel and emergency services are listed in Table 8-1. An updated contact list will be provided in the site induction.

Table 8-1 Emergency contact details for the Project

Name / organisation	Contact
Project Manager	TBC
Supervisor	TBC
ESR	TBC
Emergency (Police, Fire, Ambulance)	000
NSW SES	132 500
NSW Fire and Rescue Dunedoo	02 6375 1501
Dunedoo Multipurpose Service (Hospital)	02 6370 3000
RSPCA NSW	1300 278 358
WIRES NSW	1300 094 737

8.2. Emergency and incident preparedness

During the course of the Project, the following preventative strategies will be implemented onsite:

- Daily inspections of active work sites
- Completion of Environmental Inspection Checklist (weekly)
- Issue and quick close-out of non-compliance notices (as required)
- Prompt maintenance and repairs
- Ongoing environmental training
- Access for emergency services vehicles will be maintained throughout the site at all times
- Environmental audits of worksites, subcontractors and general compliance.

Spill kits will be available at the main site office and where liquid substances are to be stored (Stages 2, Stage 3 and 4 only). Spill kits and other emergency supplies (e.g., silt fences, pumps) will also be located at site compounds, machinery park up areas and on refuelling vehicles. A spill response procedure is provided in Appendix G.

Personnel involved in emergency response activities will be provided with specific training. As a minimum for environmental response, all onsite light vehicles and light trucks/heavy vehicles shall carry a vehicle spill kit to provide immediate response to an event. Hydrocarbon spills are noted as the most likely type of occurrence on the works.

Consulting with emergency services and NSW Police as required throughout construction to ensure that any potential impacts to emergency services are identified and appropriately managed.

An up-to-date list of emergency response personnel and relevant organisations (emergency services, EPA, etc.) will be maintained at the main office and site compounds.

8.3. Environmental incidents

An Incident is defined a set of circumstances that causes or threatens to cause material harm to the environment. Is harm that:

- Involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or
- Results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).

Various incidents may have the potential to occur on site, which may include but not be limited to the following:

- Spills of fuels, oils, chemicals and other hazardous materials
- Unauthorised discharge from sediment containment devices
- Unauthorised clearing or clearing beyond the extent of the Project boundary or premises
- Inadequate installation and subsequent failure of temporary erosion and sediment controls
- Unauthorised damage or interference to threatened species, threatened ecological communities or critical habitat
- Unauthorised harm or desecration to Aboriginal objects and Aboriginal places
- Unauthorised damage or destruction to any State or locally significant relic or Heritage item
- Unauthorised dredging or reclamation works within a watercourse
- Potential contamination of waterways or land
- Accidental starting of a fire or a fire breaking out of containment
- Breach of legislation, including a potential breach of a condition of: An environment protection licence, approval, or any agency permit condition
- Works done that are not covered by the Project approval, or not found to be consistent with the approval, or done without a modification of the approval
- Works undertaken that are not in accordance with the Environmental Assessment documents
- Unauthorised dumping of waste.

Should an incident occur, the Supervisor will ensure that work ceases in that area and that the site is not disturbed until the appropriate level of investigation is conducted to ensure that any potential evidence is preserved.

Refer to Section 9.4 for reporting requirements.

8.4. Non-compliance, corrective and preventative actions

A non-compliance is defined as an occurrence, set of circumstances or development that is a breach of the Development Consent but is not an incident.

Any member of the Project team may raise a non-compliance or improvement opportunity. n environmental non-compliance might include:

- Failing to comply with the environmental regulations or license/permit conditions
- A serious breach of EMS requirements
- Carrying out an unsafe work practice that has the potential to cause harm to the environment (i.e. near misses)
- Activities that have caused actual harm to the environment not permitted by the Project or covered in the environmental assessment documentation
- Deficiencies or concerns raised by client representatives and/or by state and local authorities or agencies.

The Flow Power management system shall be used to monitor and verify:

- a) That planned actions, work processes and procedures are effectively implemented
- b) That inspection, testing and verification reports are maintained as objective evidence that Project activities are being carried out in compliance with client contract conditions and specifications, NSW Acts and regulations, license conditions and referenced publications.

For each non-compliance identified a corrective/preventative action (or actions) will be implemented. In addition, any environmental management improvement opportunities can be initiated as a result of incidents or emergencies, monitoring and measurement, or other reviews. Improvement opportunities may also result in the implementation of corrective/preventative actions.

Corrective/preventative actions and improvement opportunities will be entered into the contractor's quality system database and include detail of the issue, action required and timing and responsibilities. The record will be updated with date of close out and any necessary notes. The database will be reviewed regularly to ensure actions are closed out as required.

Refer to Section 9.4 for reporting requirements.

9. Inspections, monitoring and auditing

9.1. Environmental inspections

Throughout the Project, the ESR will be responsible for carrying out weekly environmental and rainfall inspections using standard forms, in accordance with Table 9-1

At completion of an inspection, the ESR will prepare the following:

- A site inspection record
- A site inspection action plan listing deficiencies and corrective actions required
- Sub-contractor notices for major/ serious deficiencies.

All deficiencies will be promptly issued to the applicable parties, actioned, verified and closed out within an appropriate time frame based on the risk score associated with each deficiency. Actions listed will be identified and an appropriate time frame to close out will take into consideration risks (e.g., location, weather).

Other environmental specialists may be engaged to enter site for the purposes of surveillance or inspection, to liaison with Project personnel, and to attend site meetings to discuss aspects of the work.

All inspection records are to be made available to Flow Power as they are produced.

Table 9-1 Inspection schedule

Activity	Frequency	Responsibility	Record
Environmental site inspection	Weekly	ESR	Site inspection checklist
Joint Environmental site inspection	Fortnightly	Flow Power representative ESR	Site inspection checklist
Pre-rainfall inspection	Within 3 hours of the start of a forecast (>80% chance) significant rainfall event during work hours. Within 24 hours of the start of a significant rainfall event (or on the following working day). A significant rainfall event is 10mm or more with 24 hours	ESR	Pre-rainfall inspection checklist
Post-rainfall inspection	Within 24 hours of a significant rainfall event occurring	ESR	Post-rainfall inspection checklist

9.2. Environmental monitoring

The objective of the monitoring and reporting will be to validate the impacts predicted for the Project, to measure the effectiveness of environmental controls and implementation of this EMS, and to address specific requirements. The detailed monitoring requirements for required aspects are included in the relevant environmental management sub plans.

Table 9-2 Summary of monitoring requirements

Aspect	Addressed	Monitoring parameters	Frequency	Reporting
Heritage	HMP	Monitoring the performance of mitigation measures in the HMP. Restrict work in vicinity of the heritage area if heritage is found in accordance with Unexpected Finds Protocol. Heritage management measures fully implemented and no heritage incidents.	Fortnightly during Stage 1a, Stage 1b and Stage 2. 6 monthly post construction.	Environmental inspection
Aboriginal heritage salvaged items	HMP	Monitoring of salvaged items.	Post salvage to outline the effectiveness of the program. Fortnightly during Stage 1a, Stage 1b and Stage 2. 6 monthly post construction.	Salvage report Environmental inspection
Traffic	TMP	Monitoring of the length of heavy vehicles	Daily during all stages on days of works.	Recording sheets
		Monitoring of the access route and point used by vehicles associated with the development.	Daily during all stages on days of works.	Recording sheets

Aspect	Addressed	Monitoring parameters	Frequency	Reporting
		Monitoring the performance of mitigation measures in the TMP.	Refer to the TMP monitoring program.	Environmental inspection
Biodiversity	BMP	Monitoring the performance of mitigation measures in the BMP.	Refer to the BMP monitoring program.	Environmental inspection
Landscaping	Landscaping Plan	Monitoring the performance of plantings, screening and mitigation measures in the Landscaping Plan.	Refer to the Landscaping Plan monitoring program.	Landscaping inspection
Waste	WMP	Waste tracking for materials taken to a licenced facility	When waste taken offsite. Waste Register to be updated regularly.	Waste Register
			When waste taken offsite to a waste facility.	Waste dockets
			When EPA 'Trackable' waste taken offsite.	Transportation dockets
		Inspections for litter, materials management, unauthorised disposal of construction waste streams and adequacy of capacity of waste receptacles.	Weekly during construction. Monthly during operation.	Environmental Inspection/Inspection sheets
Accommodation and	AES	Monitoring the performance of AES	Refer to the AES monitoring	As per AES

Aspect	Addressed	Monitoring parameters	Frequency	Reporting
Employment		requirements in the AES.	program.	
Noise	NA	Monitoring operational noise during the night to ensure the development does not exceed 35 dB(A) LAeq,15min	In response to complaint	Record sheet Monitoring report

9.3. Independent environmental audits

Independent Audits will be undertaken in accordance with the CoA 11-16, Schedule 4, as outlined below:

Independent Audits of the development must be conducted and carried out in accordance with the *Independent Audit Post Approval Requirements* (2020) for the following frequency:

- Within 3 months of commencing construction; and
- Within 3 months of commencing operations.

Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.

The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified above, upon giving at least 4 weeks' notice to the Applicant of the date upon which the audit must be commenced.

In accordance with the specific requirements of the *Independent Audit Post Approval Requirements* (2020), the Applicant will:

- Review and respond to each Independent Audit Report prepared under condition 11 of Schedule 4 of the Development Consent, or condition 13 of Schedule 4 where notice is given by the Planning Secretary;
- Submit the response to the Planning Secretary; and
- Make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Planning Secretary, unless otherwise agreed by the Planning Secretary.

Independent Audit Reports and the Applicant's response to audit findings will be submitted to the Planning Secretary within 2 months of undertaking the independent audit site inspection as outlined in the *Independent Audit Post Approval Requirements* (2020) unless otherwise agreed by the Planning Secretary.

Notwithstanding the requirements of the *Independent Audit Post Approval Requirements* (2020), the Planning Secretary may approve a request for ongoing independent operational audits to be

ceased, where it has been demonstrated to the Planning Secretary's satisfaction that independent operational audits have demonstrated operational compliance.

9.4. Reporting

Table 9-3 sets out the general reporting requirements applicable to the Project, timing of the reporting, who is responsible for managing preparation of the reports, and the intended recipient(s).

Additional reporting may be necessary as the works progress. In such a circumstance, Table 9-3 will be amended to reflect these changes.

Table 9-3 General reporting requirements

Report	Requirement	Timing	Responsibility	Recipient
Compliance Tracking Report	Compliance tracking report providing the following details at the completion of the works: (a) compliance with the relevant, licences/permits approval conditions, Environmental Assessment document safeguards and management measures; (b) environmental performance for environmental issues including air quality, noise, soil and water, biodiversity, traffic, vibration, heritage, waste, incidents and community; (c) copies of environmental records and monitoring results; (d) record of inspections; (e) record of any internal audits; (f) evidence of any approval or permits obtained for works during the reporting period; (g) complaint register and complaints resolution; and (h) summary of non-compliances for the reporting period. The final compliance tracking report must be submitted within 20 days of the date of Construction Completion of the Contractor's Work. The final compliance tracking report must also provide details of how the relevant Environmental Assessment document requirements have been closed out.	Monthly. Final Compliance Tracking Report to be prepared within 20 days of the date of Construction Completion of the Contractor's Work.	ESR	Flow Power

9.5. Incident reporting

All workers (employees and contractors) are responsible for ensuring timely and effective initial internal reporting of incidents that they are involved with or witness.

Flow Power are to be informed of any environmental incidents immediately verbally and within 24 hours in writing. Incident reports will include lessons learnt from each environmental incident occurring. Including lessons learnt from each environmental incident and proposed measures to prevent the occurrence of a similar incident. All efforts will be undertaken immediately to avoid and reduce impacts of incidents and suitable controls put in place. Incidents will be closed out as quickly as possible, taking all required action to resolve each environmental incident.

The contractor must liaise with Flow Power prior to notifying any agencies of any incident on site (i.e., EPA). Within 7 days of the date of the incident, the contractor will provide the client and/or any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

Where an incident involves an Aboriginal site, relevant authorities such Heritage NSW and Registered Aboriginal Parties will be notified, and their input sought in closing out the incident.

9.5.1. Incident reporting in accordance with the conditions

The contractor will immediately notify Flow Power of an incident which arises through the CoA.

In accordance with Condition 7 of Schedule 4 of the CoA, the Planning Secretary must be notified in writing via the Major Projects website immediately after the Flow Power becomes aware of an incident. A written incident notification addressing the requirements set out below must be submitted to the Planning Secretary via the Major Projects website within seven days after Flow Power becomes aware of an incident. Notification is required to be given under this condition even if Flow Power fails to give the notification required under Condition 7 of Schedule 4 (immediately) or, having given such notification, subsequently forms the view that an incident has not occurred.

Written notification of an incident must:

- Identify the development and application number
- Provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident)
- Identify how the incident was detected
- Identify when the applicant became aware of the incident
- Identify any actual or potential non-compliance with conditions of consent
- Describe what immediate steps were taken in relation to the incident
- Identify further action(s) that will be taken in relation to the incident
- Identify a project contact for further communication regarding the incident.

As per Appendix 6 of the CoA (Incident Notification and Reporting Requirements), within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, the Applicant will provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.

The Incident Report will also include:

- A summary of the incident

- Outcomes of an incident investigation, including identification of the cause of the incident
- Details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence
- Details of any communication with other stakeholders regarding the incident.

Non-compliances will be reported in accordance with Section 8.4 of this EMS.

All written requirements of the Planning Secretary or relevant public authority, which may be given at any point in time, to address the cause or impact of an incident will be complied with, within any timeframe specified by the Planning Secretary or relevant public authority.

9.5.2. Incident reporting in accordance with the POEO Act

Flow Power will notify the EPA of any environmental incidents or pollution incidents on or around the site via the EPA Environment Line (telephone 131 555) in accordance with Part 5.7 of the *Protection of the Environment Operations Act 1997* (NSW) (POEO Act). The circumstances where this will take place include:

- a) If the actual or potential harm to the health or safety of human beings or ecosystems is not trivial.
- b) If actual or potential loss or property damage (including clean-up costs) associated with an environmental incident exceeds \$10,000 (Material Harm).

Pollution incidents posing material harm to the environment shall be notified by Flow Power to each 'relevant authority' as defined in Section 148 (8) of the POEO Act. 'Relevant authority' means:

- NSW EPA as the appropriate regulatory authority (ARA) on **131 555 or (02) 9995 5555**
- The Environment Protection Authority (EPA) if they are not the ARA
- Safe Work NSW (formerly WorkCover) on **13 10 50**
- Fire and Rescue NSW on **000** or for Mobiles Only **112**.

9.5.3. Non-compliance reporting

Flow Power will notify the Department within seven days of becoming aware of a non-compliance. The notification will be in writing and submitted via the NSW planning portal (Major Projects). In accordance with Schedule 4 Condition 9 of the Development Consent, the notification will:

- Identify the development (including the development application number and name)
- Set out the condition of this consent that the development is non-compliant with
- Outline why the development is non-compliant
- Provide the reasons for the non-compliance (if known)
- Describe what actions have been undertaken, or will be undertaken, and when, to address the non-compliance.

In accordance with Condition 10 of Schedule 4, a non-compliance that has been notified as an incident does not need to also be notified as a non-compliance.

10. Review and improvement

10.1. Revision of strategies and plans

In accordance with CoA 3, Schedule 3, to ensure the strategies, plans or programs under the conditions of the Development Consent are updated on a regular basis, the Applicant (Flow Power) may at any time submit revised strategies, plans or programs to the Planning Secretary for approval.

In accordance with CoA 2 of Schedule 4, at minimum the applicant will:

- Update the strategies, plans or programs required under the Development Consent to the satisfaction of the Secretary prior to carrying out any upgrading or decommissioning activities on site (Stage 4); and
- Review and, if necessary, revise the strategies, plans or programs required under the Development Consent to the satisfaction of the Secretary within 1 month of the:
 - Submission of an incident report under condition 7 of Schedule 4
 - Submission of an audit report under condition 11 of Schedule 4 or
 - Any modification to the conditions of the Development Consent.

Reviews of the EMS and sub-plans may additionally be triggered by outcomes of internal audits, identification of additional environmental risks, and each Project stage change.

Should the EMS or management plans not require review or revision, then they will be reviewed at least annually by the Flow Power Project Manager.

Should the review process identify any issues or items within the documents that are in need of updating, it is the responsibility of the Flow Power Project Manager to arrange the revisions. Any updates made to the EMS will be to the satisfaction of the Planning Secretary in writing.

In accordance with CoA 3, Schedule 4, with the agreement of the Planning Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all the parties referred to under the relevant condition of the Development Consent.

Only the Flow Power Project Manager, or delegate, has the authority to change any of the environmental management documentation approved under the Development Consent.

Any updates to other management plans that form part of the environmental management system are the responsibility of Flow Power Project Manager.

The approved EMS will be held in the site office and be available on the Project website. It will additionally be on the Project's web-based document management system available to key contractors.

10.2. Staging of Strategies and plans

In accordance with CoA 3, Schedule 4, with the approval of the Planning Secretary, the Applicant (Flow Power) may submit any strategy, plan or program required by this consent on a progressive basis.

The current approved staging was approved by DPHI on 12 May 2026. Any changes to the proposed staging requires further approval of the Planning Secretary.

While any strategy, plan or program may be submitted on a progressive basis, the Applicant (Flow Power) must ensure that all development being carried out on site is covered by suitable strategies, plans or programs at all times. If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.

10.3. Continuous improvement

Continuous improvement of this EMS will be achieved by the ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement.

The continuous improvement process will be designed to:

- Identify areas of opportunity for improvement of environmental management and performance
- Determine the cause or causes of non-conformances and deficiencies
- Develop and implement a plan of corrective and preventative action to address any non-conformances and deficiencies
- Document any changes in procedures resulting from process improvement
- Make comparisons with objectives and targets.

11. Documentation

11.1. Environmental records

The ESR is responsible for maintaining all environmental management documents as current at the point of use. Types of records include:

- All monitoring, inspection and compliance reports/records
- Correspondence with public authorities
- Induction and training records
- Reports on environmental incidents, other environmental incidents non-compliances, complaints and follow-up action
- Environmental events and Investigation reports, and trends
- Environmental monitoring data (Should it be developed)
- Waste quantity reports and regulated waste documentation where required
- Weed Hygiene Checklists
- Community engagement information.

All environmental management documents are subject to ongoing review and continual improvement. This includes times of change to scheduled activities or to legislative or licensing requirements.

11.2. Document control

Flow Power will coordinate the preparation, review and distribution, as appropriate, of the environmental management plans as well as the conditions of approval, and environmental assessment documents. During the Project, the environmental documents will be stored at the main site compound.

Flow Power will implement a document control procedure to control the flow of documents within and between stakeholders and sub-contractors.

The procedure will also ensure that documentation is:

- Developed, reviewed and approved prior to issue
- Issued for use
- Controlled and stored for the legally required timeframe
- Removed from use when superseded or obsolete
- Archived.

A register and distribution list will identify the current revision of particular documents or data.

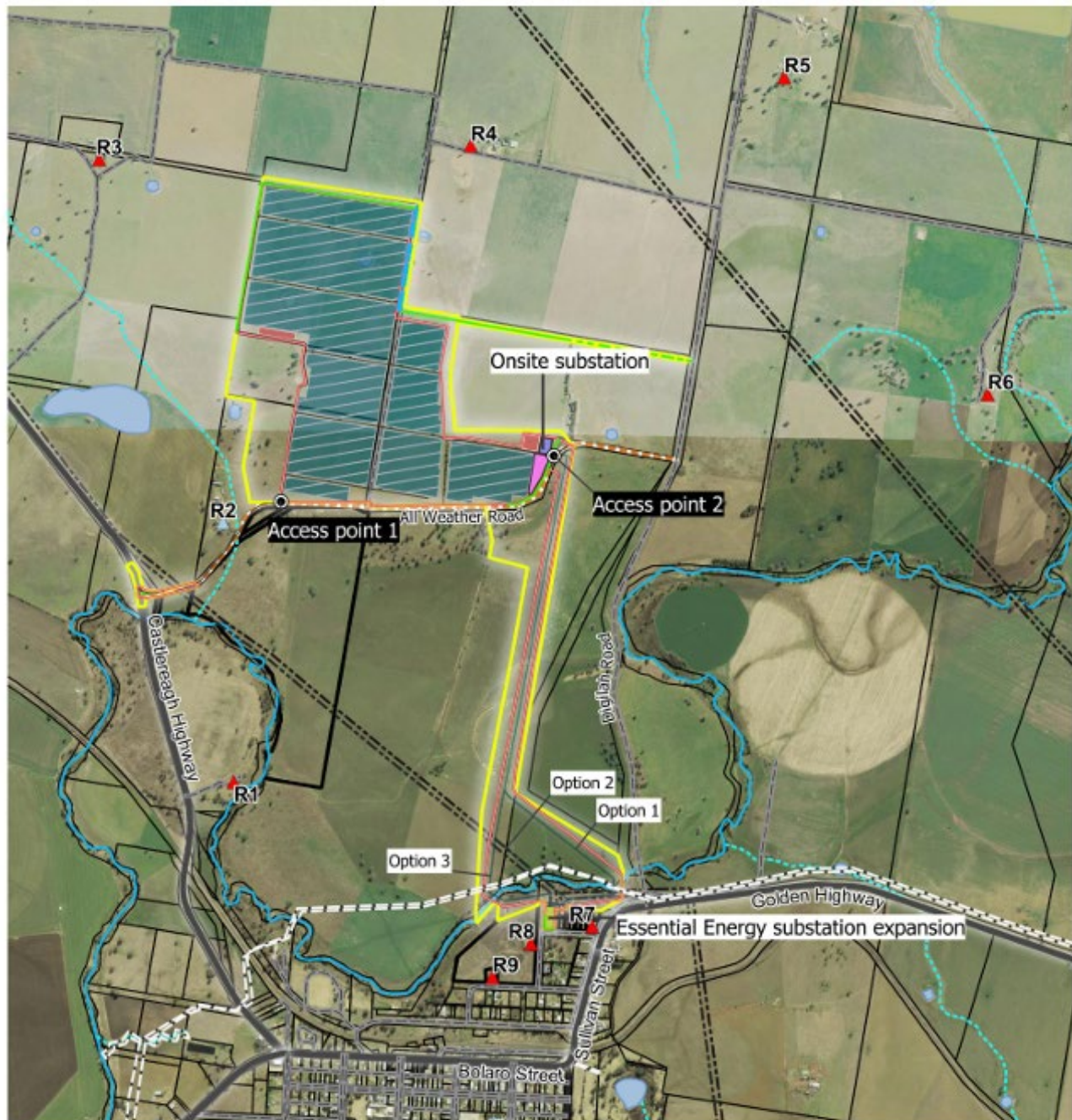
11.3. Access to information

As per Schedule 4 Condition 17 of the Development Consent, Flow Power will make the following information publicly available on its website (<https://flowpower.com.au/dunedoo-energy-project/>) as relevant to the stage of the development and keep this information update to date:

- The EIS
- The final layout plans for the development
- Current statutory approvals for the development

- Approved strategies, plans or programs required under the conditions of this consent
- The proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged
- How complaints about the development can be made
- Any independent environmental audit, and Flow Power's response to the recommendations in any audit
- Any other matter required by the Planning Secretary.

APPENDIX A APPROVED GENERAL LAYOUT



Data Attribution
© NGH 2022
© Design: ibvogt 2022
© Basemap and topographic features: Land and Property Information 2020

Ref: 17-362 Dunedoo Solar Farm 8.1.2020\ Attachment B Feb 2022
Author: z Jokadar
Date created: 17.02.2022
Datum: GDA94 / MGA zone 55



APPENDIX B PROJECT CONDITIONS OF APPROVAL

SSD 8847 (determined 18 March 2022)

Condition No.	Condition	Where addressed?
Schedule 2 Administrative Conditions		
Obligation to minimise harm to the environment		
1	In meeting the specific performance measures and criteria in this consent, all reasonable and feasible measures must be implemented to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction, operation, upgrading, commissioning, rehabilitation or decommissioning of the development.	This EMS and subplans Section 5 of this EMS
Terms of consent		
2	The development may only be carried out: a) generally in accordance with the EIS b) in accordance with the conditions of this consent; <i>Note: The general layout of the development is shown in Appendix 1</i>	Section 1.1 of this EMS
3	If there is any inconsistency between the above documents, the most recent document must prevail to the extent of the inconsistency. However, the conditions of this consent must prevail to the extent of any inconsistency.	Section 1.1 of this EMS
4	The Applicant must comply with any requirement/s of the Planning Secretary arising from the Department's assessment of: a) any strategies, plans or correspondence that are submitted in accordance with this consent; b) any reports, reviews or audits commissioned by the Department regarding compliance with this consent; and c) the implementation of any actions or measures contained in these documents.	Section 7.2 of this EMS
Upgrading of solar and ancillary infrastructure		
5	The Applicant may upgrade the solar panels and ancillary infrastructure on site provided these upgrades remain within the approved development footprint of the site. Prior to carrying out any such upgrades, the Applicant must provide revised layout plans and project details of the development to the Planning Secretary incorporating the proposed upgrades.	Section 2.4 of this EMS
Structural Adequacy		
6	The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the Building Code of Australia. <i>Notes:</i>	Section 2.4 of this EMS

Condition No.	Condition	Where addressed?
	- Under Part 6 of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the development. - Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.	
Demolition		
7	The Applicant must ensure that all demolition work on site is carried out in accordance with <i>Australian Standard AS 2601-2001: The Demolition of Structures</i> , or its latest version.	No demolition works proposed.
Protection of public infrastructure		
8	Unless the Applicant and the applicable authority agree otherwise, the Applicant must: a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. This condition does not apply to the upgrade and maintenance of the road network, which is expressly provided for in the conditions of this consent.	Section 5 of this EMS
Operation of plant and equipment		
9	The Applicant must ensure that all plant and equipment used on site, or in connection with the development, is: a) maintained in a proper and efficient condition; and b) operated in a proper and efficient manner.	Section 5 of this EMS
Subdivision		
10	The Applicant may subdivide land comprising the site for the purposes of carrying out the development as shown in Appendix 3 and in accordance with the requirements of the EP&A Act, EP&A Regulation, <i>Conveyancing Act 1919</i> (NSW) and the NSW Land Registration Services (or its successor). Notes: - Under Part 6 of the EP&A Act, the Applicant is required to obtain a subdivision certificate for a plan of subdivision. - Division 6.4 of Part 6 of the EP&A Act sets out the application requirements for subdivision certificates.	Section 2.5 of this EMS
Schedule 3 – Environmental Conditions - General		
Batteries		
Battery Storage Restriction		
1	The battery storage facility or system associated with the development must not exceed a total delivery capacity of 60.48 MW. Note: This condition does not prevent the Applicant from seeking to lodge a separate development application or modify the consent to increase the	Section 2.4 of this EMS

Condition No.	Condition	Where addressed?
	<i>capacity of the battery storage facility or system in the future.</i>	
Transport		
Heavy vehicle restriction		
2	The Applicant must ensure that the: a) development does not generate more than 80 heavy vehicle movements a day during construction, upgrading and decommissioning on the public road network; and b) length of any vehicles used for the development does not exceed 20.6 metres. unless the Planning Secretary agrees otherwise	TMP
3	The Applicant must keep accurate records of the number of heavy vehicles entering or leaving the site each day for the duration of the project.	TMP
Access route		
4	All heavy vehicles associated with the development travel to and from the site via Castlereagh Highway and All Weather Road, as shown in Appendix 1.	TMP Section 2.6 of this EMS
5	All light vehicles associated with the development travel to and from the site via Golden Highway, Digilah Road and All Weather Road, as shown in Appendix 1.	TMP Section 2.6 of this EMS
Site Access		
6	All heavy vehicles associated with the development must enter and exit the site via Access Point 1, as identified in Appendix 1.	TMP Section 2.6 of this EMS
7	All light vehicles associated with the development must enter and exit the site via Access Point 2, as identified in Appendix 1.	TMP Section 2.6 of this EMS
Road Upgrades		
8	Unless the Planning Secretary agrees otherwise, prior to commencing construction, the Applicant must upgrade: a) the intersection of Castlereagh Highway and All Weather Road with BAL treatments to be sealed, designed and constructed for 100 km/h speed environment, able to accommodate the largest vehicle using the intersection, match existing road levels and not interfere with existing road drainage, identified in Appendix 4. b) the south-western section of All Weather Road to provide a heavy vehicle passing bay identified in Appendix 4. Unless the relevant roads authority agrees otherwise, these upgrades must comply with the <i>Austroads Guide to Road Design</i> (as amended by TfNSW supplements), and be carried out to the satisfaction of the relevant roads authority.	Section 2.3.1 of this EMS TMP

Condition No.	Condition	Where addressed?
Road Maintenance		
9	The Applicant must: - undertake an independent dilapidation survey to assess the: - existing condition of Castlereagh Highway / All Weather Road intersection, Digilah Road and All Weather Road on the transport route, prior to construction, upgrading and decommissioning activities; and - condition of Castlereagh Highway / All Weather Road intersection, Digilah Road and All Weather Road on the transport route, following construction, upgrading and decommissioning activities; - repair Castlereagh Highway / All Weather Road intersection, Digilah Road and All Weather Road on the transport route, if dilapidation surveys identify that the road/s have been damaged during construction, upgrading and decommissioning works; in consultation with the relevant roads authority, and to the satisfaction of the Planning Secretary. If there is a dispute about the repair of Castlereagh Highway / All Weather Road intersection, Digilah Road or All Weather between the applicant and the relevant roads authority, then either party may refer the matter to the Planning Secretary for resolution. The Planning Secretary's decision on the matter must be final and binding on both parties.	TMP
Operating conditions		
10	The Applicant must ensure: - the internal roads are constructed as all-weather roads; - there is sufficient parking on site for all vehicles, and no parking occurs on the public road network in the vicinity of the site; - the capacity of the existing roadside drainage network is not reduced; - all vehicles are loaded and unloaded on site, and enter and leave the site in a forward direction; and - development-related vehicles leaving the site are in a clean condition to minimise dirt being tracked onto the sealed public road network.	TMP
Traffic Management Plan		
11	Prior to commencing construction, the Applicant must prepare a Traffic Management Plan for the development in consultation with TfNSW and Council, and to the satisfaction of the Secretary. This plan must include: - details of the transport route to be used for all development-related traffic; including the location of access points; - details of the road upgrade works required by condition 8 of Schedule 3 of this consent; - details of the measures that would be implemented to minimise traffic impacts during construction, upgrading or decommissioning works, including: - details of the dilapidation surveys required by condition 9 of Schedule 3 of this consent; - temporary traffic controls, including detours, signage and provisions detailed in the draft Traffic Control Plan provided with the EIS; - notifying the local community about project-related traffic impacts;	TMP

Condition No.	Condition	Where addressed?
	- procedures for receiving and addressing complaints from the community about development-related traffic; - minimising potential cumulative traffic impacts with other projects in the area, including during construction, upgrading or decommissioning works; - minimising potential for conflict with school buses and other road users as far as practicable, including preventing queuing on the public road network (measures also required during operation of the project); - minimise dirt tracked onto the public road network from development-related traffic; - details of the employee shuttle bus service, including pick-up and drop-off points and associated parking arrangements for construction workers, and measures to encourage employee use of this service; - encourage car-pooling or ride sharing by employees; - scheduling of haulage vehicle movements to minimise convoy length or platoons; - responding to local climate conditions that may affect road safety such as fog, dust or wet weather; and - responding to any emergency repair or regular maintenance requirements d) a driver's code of conduct that addresses: - travelling speeds; - driver fatigue; - procedures to ensure that drivers adhere to the designated transport routes; and - procedures to ensure that drivers implement safe driving practices; and e) a program to ensure drivers working on the development receive suitable training on the code of conduct and any other relevant obligations under the Traffic Management Plan. Following the Secretary's approval, the Applicant must implement the Traffic Management Plan.	
Landscaping		
Vegetation Buffer		
12	The Applicant must establish and maintain a vegetation buffer (landscape screening) as outlined in the figure in Appendix 1 to the satisfaction of the Secretary. The landscape screening must: a) be planted prior to commencing construction; b) be comprised of species that are endemic to the area; c) minimise views from residences R5, R8 and R9 within 3 years of commencing operations d) be designed and maintained in accordance with RFS's Planning for Bushfire Protection 2019 (or equivalent); and e) be properly maintained with appropriate weed management, unless the Secretary agrees otherwise.	Landscape Plan
12A	The vegetation buffer (landscape screening) required by condition 12 must minimise views of the development from residences R3 and R4 within 3 years of commencing operations.	Landscape Plan

Condition No.	Condition	Where addressed?
Landscaping Plan		
13	The Applicant must implement the Landscaping Plan for the development to the satisfaction of the Planning Secretary. This plan includes: a) a description of measures that would be implemented to ensure that the vegetated buffer achieves the objectives of condition 12 (a) – (e) and 12A above; b) a program to monitor and report on the effectiveness of these measures; and c) details of who would be responsible for monitoring, reviewing and implementing the plan, and timeframes for completion of actions.	Landscape Plan
13A	Any updates to the Landscaping Plan must be made in consultation with the owner of residences R3 and R4 and approved by the Planning Secretary prior to being implemented by the Applicant	Landscape Plan
Land Management		
14	The Applicant must maintain the agricultural land capability of the site, including: a) establishing the ground cover of the site within 3 months following completion of any construction or upgrading; b) properly maintaining the ground cover with appropriate perennial species and weed management; and c) maintaining grazing within the development footprint, where practicable, unless the Planning Secretary agrees otherwise.	Section 5 of this EMS BMP
Biodiversity		
Vegetation clearance		
15	The Applicant must not clear any native vegetation or fauna habitat located outside the approved disturbance areas described in the EIS.	Section 5 of this EMS BMP
Biodiversity offsets		
16	Prior to commencing construction, the Applicant must retire biodiversity credits of a number and class specified in Table 1 below, unless the Secretary agrees otherwise. The retirement of these credits must be carried out in accordance with the <i>NSW Biodiversity Offsets Scheme</i> and can be achieved by: a) acquiring or retiring 'biodiversity credits' within the meaning of the <i>Biodiversity Conservation Act 2016</i>; b) making payments into an offset fund that has been developed by the NSW Government; and/or c) funding a biodiversity conservation action that benefits the entity impacted and is listed in the ancillary rules of the biodiversity offset scheme.	Section 5 of this EMS

Condition No.	Condition	Where addressed?																							
	Table 1: Ecosystem Credit Requirements <table><tr><th rowspan="2">Vegetation Community</th><th rowspan="2">PCT ID</th><th colspan="3">Ecosystem Credits Required</th></tr><tr><th>Transmission Option 1</th><th>Transmission Option 2</th><th>Transmission Option 3</th></tr><tr><td>Fuzzy Box woodland on alluvial brown loam soils mainly in the NSW South Western Slopes Bioregion</td><td>201</td><td>1</td><td>1</td><td>1</td></tr><tr><td>River Red Gum riparian tall woodland / open forest wetland in the Nandewar Bioregion and Brigalow Belt South Bioregion</td><td>78</td><td>5</td><td>4</td><td>4</td></tr><tr><td>Rough-Barked Apple – red gum – Yellow Box woodland on alluvial clay to loam soils on valley flats in the northern NSW South Western Slopes Bioregion and Brigalow Belt South Bioregion</td><td>281</td><td>14</td><td>14</td><td>19</td></tr></table>	Vegetation Community	PCT ID	Ecosystem Credits Required			Transmission Option 1	Transmission Option 2	Transmission Option 3	Fuzzy Box woodland on alluvial brown loam soils mainly in the NSW South Western Slopes Bioregion	201	1	1	1	River Red Gum riparian tall woodland / open forest wetland in the Nandewar Bioregion and Brigalow Belt South Bioregion	78	5	4	4	Rough-Barked Apple – red gum – Yellow Box woodland on alluvial clay to loam soils on valley flats in the northern NSW South Western Slopes Bioregion and Brigalow Belt South Bioregion	281	14	14	19	
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Biodiversity Management Plan																									
17	Prior to commencing construction, the Applicant must prepare a Biodiversity Management Plan for the development in consultation with BCD, and to the satisfaction of the Planning Secretary. This plan must: a) include a description of the measures that would be implemented for: • protecting vegetation and fauna habitat outside the approved disturbance areas; • managing the remnant vegetation and fauna habitat on site; • minimising clearing and avoiding unnecessary disturbance of vegetation that is associated with the construction and operation of the development; • minimising the impacts to fauna on site and implementing fauna management protocols; • avoiding the removal of hollow-bearing trees during spring to avoid the main breeding period for hollow-dependent fauna; • rehabilitating and revegetating temporary disturbance areas with species that are endemic to the area; • maximising the salvage of vegetative and soil resources within the approved disturbance area for beneficial reuse in the enhancement or the rehabilitation of the site; and • controlling weeds, feral pests and pathogens; and b) include a program to monitor and report on the effectiveness of mitigation measures; and c) include details of who would be responsible for monitoring, reviewing and implementing the plan, and timeframes for completion of actions. Following the Secretary's approval, the Applicant must implement the Biodiversity Management Plan.	BMP																							
Amenity																									
Construction, upgrading and decommissioning hours																									
18	Unless the Secretary agrees otherwise, the Applicant may only undertake road upgrades, construction, upgrading or decommissioning activities between: a) 7 am to 6 pm Monday to Friday; b) 8 am to 1 pm Saturdays; and c) at no time on Sundays and NSW public holidays. The following construction, upgrading or decommissioning activities may be	Section 0 of this EMS																							

Condition No.	Condition	Where addressed?
	undertaken outside these hours without the approval of the Secretary: - the delivery of materials as requested by the NSW Police Force or other authorities for safety reasons; - emergency work to avoid the loss of life, property and/or material harm to the environment.	
Noise		
19	The Applicant must: - minimise the noise generated by any construction, upgrading or decommissioning activities on site in accordance with the best practice requirements outlined in the Interim Construction Noise Guideline (DECC, 2009), or its latest version. - ensure that the noise generated by the operation of the development during the night does not exceed 35 dB(A) LAeq,15min to be determined in accordance with the procedures in the <i>NSW Noise Policy for Industry</i> (EPA, 2017) at any non-associated residence.	Section 5 of this EMS Section 9.2 of this EMS
Dust		
20	The Applicant must minimise dust generated by the development.	SWMP Section 5 of this EMS
Visual		
21	The Applicant must: - minimise the off-site visual impacts of the development, including the potential for any glare or reflection; - ensure the visual appearance of all ancillary infrastructure (including paint colours) blends in as far as possible with the surrounding landscape; and - not mount any advertising signs or logos on site, except where this is required for identification or safety purposes.	Landscape Plan Section 5 of this EMS
CCTV cameras		
21a	Any security cameras installed as part of the development must be mounted so that they are not directed towards residences R3 and R4.	Section 5 of this EMS
Lighting		
22	The Applicant must: - minimise the off-site lighting impacts of the development; and - ensure that any external lighting associated with the development: - is installed as low intensity lighting (except where required for safety or emergency purposes); - does not shine above the horizontal; and - complies with Australian Standard AS4282 (INT) 1997 – <i>Control of Obtrusive Effects of Outdoor Lighting</i>, or its latest version.	Section 5 of this EMS
Heritage		
Protection of Heritage items		

Condition No.	Condition	Where addressed?
23	The Applicant must ensure the development does not cause any direct or indirect impacts on the Aboriginal heritage item identified in Table 1 of Appendix 5 or located outside the approved development footprint.	HMP
24	The Applicant must ensure the development does not cause any direct or indirect impacts on the Aboriginal heritage item identified in Table 1 of Appendix 5 or located outside the approved development footprint.	HMP
Heritage Management Plan		
25	Prior to carrying out any development that could directly or indirectly impact the heritage items identified in Appendix 5, the Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Planning Secretary; b) be prepared in consultation with Heritage NSW and Aboriginal Stakeholders; c) include a description of the measures that would be implemented for: • protecting the Aboriginal heritage items identified in Table 1 in Appendix 5 or items located outside the approved development footprint, including fencing off the Aboriginal heritage items prior to carrying out any development that could directly or indirectly impact the heritage items located in Table 2 of Appendix 5; • salvaging and relocating the Aboriginal heritage items located within the approved development footprint, as identified in Table 2 of Appendix 5; • a contingency plan and reporting procedure if: ○ previously unidentified heritage items are found; or ○ Aboriginal skeletal material is discovered; • ensuring workers on site receive suitable heritage inductions prior to carrying out any development on site, and that records are kept of these inductions; and • ongoing consultation with Aboriginal stakeholders during the implementation of the plan; d) include a program to monitor and report on the effectiveness of these measures and any heritage impacts of the project. e) Following the Secretary's approval, the Applicant must implement the Heritage Management Plan.	HMP
Soil and Water		
Water Supply		
26	The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of the development to match its available water supply. <i>Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development.</i>	Section 5 of this EMS SWMP
Water Pollution		
29	The Applicant must ensure that the development does not cause any water pollution, as defined under Section 120 of the POEO Act.	Section 5 of this EMS SWMP

Condition No.	Condition	Where addressed?
Operating Conditions		
28	The Applicant must: - minimise erosion and control sediment generation; - ensure that construction, upgrading or decommissioning of the development has appropriate drainage and erosion sediment controls designed, installed and maintained in accordance with the relevant requirements in the <i>Managing Urban Stormwater: Soils and Construction</i> (Landcom, 2004) manual, or its latest version; - ensure the solar panels and ancillary infrastructure are designed, constructed and maintained to reduce impacts on localised flooding and groundwater at the site; - ensure the solar panels do not cause any increased water being diverted off site or alter hydrology off site; - ensure the solar panels and ancillary infrastructure are designed, constructed and maintained to avoid causing any erosion on site; and - ensure all works are undertaken in accordance with the <i>Guidelines for Controlled Activities on Waterfront Land</i> (NRAR, 2018), unless DPE Water agrees otherwise.	Section 5 of this EMS SWMP
Hazards		
Fire Safety Study		
29	Prior to commencing construction of the battery storage facility, unless the Secretary agrees otherwise, the Applicant must prepare a Fire Safety Study for the development, in consultation with FRNSW and RFS and to the satisfaction of the Secretary in writing. The study must: - be consistent with the: - Department's Hazardous Industry Planning Advisory Paper No. 2 'Fire Safety Study' guideline; and - NSW Government's Best Practice Guidelines for Contaminated Water Retention and Treatment Systems; and - describe the final design of the battery storage facility including, but not limited to, demonstrating appropriate separation distances to on-site and off-site receptors, and within sub-units. Following approval, the Applicant must implement the measures described in the Fire Safety Study.	FSS
Safety Management Study		
30	Prior to commencing construction, unless the Planning Secretary agrees otherwise, the Applicant must prepare a Safety Management Study for the development, in consultation with the owner of the gas pipeline. The study must include an assessment of potential electrical hazards, and must be consistent with the <i>Australian Standard 2885 for Pipelines – Gas and Liquid Petroleum</i> and <i>Australian Standard 4853-2012-Electrical Hazards on Metallic Pipelines</i>. Following completion of the Study, the Applicant must implement the measures described in the Safety Management Study.	Safety Management Study
Storage and Handling of Dangerous Materials		
31	The Applicant must store and handle all chemicals, fuels and oils used on-site in accordance with: - the requirements of all relevant Australian Standards; and - the NSW EPA's <i>Storing and Handling of Liquids: Environmental Protection – Participants Handbook if the chemicals are liquids</i>. In the event of an inconsistency between the requirements listed from (a) to (b)	Section 5 of this EMS SWMP

Condition No.	Condition	Where addressed?
	above, the most stringent requirement must prevail to the extent of the inconsistency.	
Operating Conditions		
32	The Applicant must: - minimise the fire risks of the development, including managing vegetation fuel loads on-site; - ensure that the development: - includes at least a 10 metre defendable space around the perimeter of the solar array area and battery storage facility that permits unobstructed vehicle access; - manages the defendable space and solar array areas as an Asset Protection Zone; - complies with the relevant asset protection requirements in the RFS's Planning for Bushfire Protection 2019 (or equivalent) and Standards for Asset Protection Zones - includes an Asset Protection Zone that is wholly contained within the development footprint; - is suitably equipped to respond to any fires on site including provision of a 20,000 litre water supply tank fitted with a 65 mm Storz fitting and a FRNSW compatible suction connection located adjacent to the internal access road; - assist the RFS and emergency services as much as practicable if there is a fire in the vicinity of the site; and - notify the relevant local emergency management committee following construction of the development, and prior to commencing operations.	EP
Emergency Plan		
33	Prior to commencing operations, the Applicant must develop and implement a comprehensive Emergency Plan and detailed emergency procedures for the development, to the satisfaction of FRNSW and the RFS. The Applicant must keep two copies of the plan on-site in a prominent position adjacent to the site entry points at all times. The plan must: - be consistent with the Department's <i>Hazardous Industry Planning Advisory Paper No. 1, 'Emergency Planning'</i> and RFS's <i>Planning for Bushfire Protection 2019</i> (or equivalent); - identify the fire risks and hazards and detailed measures for the development to prevent or mitigate fires igniting; - include procedures that would be implemented if there is a fire on-site or in the vicinity of the site; - list works that should not be carried out during a total fire ban; - include availability of fire suppression equipment, access and water; - include procedures for the storage and maintenance of any flammable materials; - notification of the local RFS Fire Control Centre for any works that have the potential to ignite surrounding vegetation proposed to be carried out during a bushfire danger period to ensure whether conditions are appropriate; - detail access provisions for emergency vehicles and contact details for both a primary and alternative site contact who may be reached 24/7 in the event of an emergency; - include a figure showing site infrastructure, Asset Protection Zone and the fire fighting water supply; - include location of hazards (physical, chemical and electrical) that may impact on fire fighting operations and procedures to manage identified hazards during fire fighting operations; - include details of the location, management and maintenance of the	EP

Condition No.	Condition	Where addressed?
	Asset Protection Zone and who is responsible for the maintenance and management of the Asset Protection Zone; l) include bushfire emergency management planning; m) include details of the how RFS would be notified, and procedures that would be implemented, in the event that: - there is a fire on-site or in the vicinity of the site; - there are any activities on site that would have the potential to ignite surrounding vegetation; or - there are any proposed activities to be carried out during a bushfire danger period; and n) include details on how the battery storage facility and sub-systems can be safely isolated in an emergency. The Applicant must implement the Emergency Plan for the duration of the development.	
Waste		
34	The Applicant must: a) minimise the waste generated by the development; b) classify all waste generated on site in accordance with the EPA's <i>Waste Classification Guidelines 2014</i> (or its latest version); c) store and handle all waste on site in accordance with its classification; d) not receive or dispose of any waste on site; and e) remove all waste from the site as soon as practicable, and ensure it is sent to an appropriately licensed waste facility for disposal.	Section 5 of this EMS WMP
Accommodation And Employment Strategy		
35	Prior to commencing construction, the Applicant must prepare an Accommodation and Employment Strategy for the development in consultation with Council, and to the satisfaction of the Secretary. This strategy must: a) propose measures to ensure there is sufficient accommodation for the workforce associated with the development; b) consider the cumulative impacts associated with other State significant developments in the area and tourism activity; c) investigate options for prioritising the employment of local workers for the construction and operation of the development, where feasible; and d) include a program to monitor and review the effectiveness of the strategy over the life of the development, including regular monitoring and review during construction. Following the Secretary's approval, the Applicant must implement the Accommodation and Employment strategy.	AES
Decommissioning And Rehabilitation		
36	Within 18 months of the cessation of operations, unless the Secretary agrees otherwise, the Applicant must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must comply with the objectives in Table 2.	N/A- Decommissioning

Condition No.	Condition	Where addressed?										
	Table 2: Rehabilitation Objectives <table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Site</td><td> - Safe, stable and non-polluting - Minimise the visual impact of any above ground ancillary infrastructure agreed to be retained for an alternative use </td></tr><tr><td>Solar farm infrastructure</td><td> - To be decommissioned and removed, unless the Secretary agrees otherwise </td></tr><tr><td>Land use</td><td> - Restore land capability to pre-existing use </td></tr><tr><td>Community</td><td> - Ensure public safety at all times </td></tr></table>	Feature	Objective	Site	- Safe, stable and non-polluting - Minimise the visual impact of any above ground ancillary infrastructure agreed to be retained for an alternative use	Solar farm infrastructure	To be decommissioned and removed, unless the Secretary agrees otherwise	Land use	Restore land capability to pre-existing use	Community	Ensure public safety at all times	
Feature	Objective											
Site	- Safe, stable and non-polluting - Minimise the visual impact of any above ground ancillary infrastructure agreed to be retained for an alternative use											
Solar farm infrastructure	To be decommissioned and removed, unless the Secretary agrees otherwise											
Land use	Restore land capability to pre-existing use											
Community	Ensure public safety at all times											
Schedule 4 Environmental Management and Reporting												
Environmental Management												
Environmental Management Strategy												
1	Prior to commencing the development, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Planning Secretary. This strategy must: a) provide the strategic framework for environmental management of the development; b) identify the statutory approvals that apply to the development; c) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development; d) describe the procedures that would be implemented to: - keep the local community and relevant agencies informed about the operation and environmental performance of the development; - receive, handle, respond to, and record complaints; - resolve any disputes that may arise; - respond to any non-compliance; and - respond to emergencies; and e) include: - references to any plans approved under the conditions of this consent; and - a clear plan depicting all the monitoring to be carried out in relation to the development. Following the Planning Secretary’s approval, the Applicant must implement the Environmental Management Strategy.	This Plan										
Review of Strategies, Plans and Programs												
2	The Applicant must: a) update the strategies, plans or programs required under this consent to the satisfaction of the Planning Secretary prior to carrying out any upgrading or decommissioning activities on site; and b) review and, if necessary, revise the strategies, plans or programs required under this consent to the satisfaction of the Planning Secretary within 1 month of the: - submission of an incident report under condition 7 of Schedule 4; - submission of an audit report under condition 11 of Schedule 4; or - any modification to the conditions of this consent.	Section 10.1 of this EMS										

Condition No.	Condition	Where addressed?
Updating and Staging of Strategies, Plans or Programs		
3	With the approval of the Planning Secretary, the Applicant may submit any strategy, plan or program required by this consent on a progressive basis. To ensure the strategies, plans or programs under the conditions of this consent are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the Planning Secretary for approval. With the agreement of the Planning Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all the parties referred to under the relevant condition of this consent.	Section 10.2 of this EMS
Notifications		
Notification Of Department		
4	Prior to commencing the road upgrades, construction, operations, upgrading or decommissioning of the development or the cessation of operations, the Applicant must notify the Department in writing via the Major Projects website portal of the date of commencement, or cessation, of the relevant phase. If any of these phases of the development are to be staged, then the Applicant must notify the Department in writing prior to commencing the relevant stage, and clearly identify the development that would be carried out during the relevant stage.	Section 7.2.1 of this EMS
Final Layout Plans		
5	Prior to commencing construction, the Applicant must submit detailed plans of the final layout of the development to the Secretary including details on the siting of solar panels and ancillary infrastructure, via the Major Projects website.	Section 7.2.1 of this EMS
Work as Executed Plans		
6	Prior to commencing operations or following the upgrades of any solar panels or ancillary infrastructure, the Applicant must submit work as executed plans of the development to the Secretary via the Major Projects website.	Section 7.2.1 of this EMS
Incident Notification		
7	The Department must be notified via the Major Projects website portal immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 6.	Section 9.5.1 of this EMS
Non-Compliance Notification		
8	The Department must be notified in writing via the Major Projects website portal within 7 days after the Applicant becomes aware of any non-compliance.	Section 9.5.3 of this EMS
9	The Department must be notified in writing via the Major Projects website portal within 7 days after the Applicant becomes aware of any non-compliance.	Section 9.5.3 of this EMS

Condition No.	Condition	Where addressed?
10	A non-compliance which has been notified as an incident does need to also be notified as a non-compliance.	Section 9.5.3 of this EMS
Independent Environmental Audit		
11	Independent Audits of the development must be conducted and carried out in accordance with the <i>Independent Audit Post Approval Requirements (2020)</i> for the following frequency: a) within 3 months of commencing construction; and b) within 3 months of commencing operations.	Section 9.3 of this EMS
12	Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.	Section 9.3 of this EMS
13	The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in condition 11 of Schedule 4, upon giving at least 4 weeks' notice to the Applicant of the date upon which the audit must be commenced.	Section 9.3 of this EMS
14	In accordance with the specific requirements of the <i>Independent Audit Post Approval Requirements (2020)</i> , the Applicant must: a) review and respond to each Independent Audit Report prepared under condition 11 of Schedule 4 of this consent, or condition 13 of Schedule 4 where notice is given by the Planning Secretary; b) submit the response to the Planning Secretary; and c) make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Planning Secretary, unless otherwise agreed by the Planning Secretary.	Section 9.3 of this EMS
15	Independent Audit Reports and the Applicant's response to audit findings must be submitted to the Planning Secretary within 2 months of undertaking the independent audit site inspection as outlined in the <i>Independent Audit Post Approval Requirements (2020)</i> unless otherwise agreed by the Planning Secretary.	Section 9.3 of this EMS
16	Notwithstanding the requirements of the <i>Independent Audit Post Approval Requirements (2020)</i> , the Planning Secretary may approve a request for ongoing independent operational audits to be ceased where it has been demonstrated to the Planning Secretary's satisfaction that independent operational audits have demonstrated operational compliance.	Section 9.3 of this EMS
Access to Information		
17	The Applicant must: a) make the following information publicly available on its website as relevant to the stage of the development: - the EIS; - the final layout plans for the development; - current statutory approvals for the development; - approved strategies, plans or programs required under the conditions of this consent; - the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged; - how complaints about the development can be made;	Section 11.3 of this EMS

Environmental Management Strategy

Dunedoo Energy Project

Condition No.	Condition	Where addressed?
	- any independent environmental audit, and the Applicant's response to the recommendations in any audit; and - any other matter required by the Planning Secretary; and b) keep this information up to date.	

APPENDIX C LEGAL REGISTER

Act	Activity / aspect	Requirement	Reference	Applicable?
General				
<i>Protection of the Environment Operations Act 1997</i>	Harming the environment	Do not risk harming the environment by wilfully or negligently: disposing of waste unlawfully causing any substance to leak, spill or otherwise escape (whether or not from a container); or emitting an ozone depleting substance.	S115 S116 S117	Yes
<i>Protection of the Environment Operations Act 1997.</i>	Notification of Pollution incidents	Notify the EPA, NSW Ministry of Health via local Public Health Unit, Safe Work NSW, Local authority and Fire and Rescue NSW immediately of pollution incidents where material harm to the environment is caused or threatened.	S148	Yes
<i>Dangerous Goods (Road and Rail Transport) Act 2008</i>	Hazards and risks	Ensure that dangerous goods are transported in a safe manner.	S9	Yes
<i>Pesticides Act 1999</i>	Hazards and risks	Use pesticides in an environmentally sensitive manner. Do not use an unregistered pesticide without a permit. Read the label or permit for the pesticide. Use registered pesticides in accordance with instructions on the label. Do not use any restricted pesticide unless authorised by a certificate of competency or a pesticide control order under the Act. Compliance with pesticide codes of practice is required.	S12 S13 S14 S15 S17	Yes
<i>National Greenhouse and Energy Reporting Act, 2007 and Regulations 2008</i>	Greenhouse gas emissions	Accounting and reporting of greenhouse gases produced and energy consumed during construction. Applicability dependent on thresholds.	-	No

Act	Activity / aspect	Requirement	Reference	Applicable?
<i>Privacy and Personal Information Protection Act 1998 (NSW)</i>	Community Liaison	Legislation relevant to community liaison.	-	Yes
<i>Environmental Planning and Assessment Act 1979</i>	All	Comply with approved conditions.	Part 4, s4.10	Yes
Water				
<i>Water Management Act 2000</i>	Water access and use	Do not take water from a water source (a lake, river or estuary or place where water occurs naturally on or below the surface of the ground and includes coastal waters) without an access licence. Do not use of water on land (unless supplied by a water utility, irrigation corporation etc. or in accordance with basic landholder rights) without a water use approval. With the exception of controlled activity approvals, the <i>Water Management Act 2000</i> (WM Act) only applies in relation to those water sources covered by operational water sharing plans – these areas cover most of the State's major regulated river systems.	S56 S60A S89 S 89 S91A	Yes
<i>Protection of the Environment Operations Act 1997</i>	Water pollution	Do not cause water pollution.	S120 S122	Yes
Noise				
<i>Protection of the Environment Operations Act 1997</i>	Plant maintenance and operation	Do not operate plant if it emits noise caused by poor maintenance or operation.	S139	Yes
<i>Protection of the Environment Operations Act 1997</i>	Materials management	Do not cause noise by failing to properly and efficiently deal with materials.	S140	Yes
Contaminated soil				

Act	Activity / aspect	Requirement	Reference	Applicable?
<i>Protection of the Environment Operations Act 1997</i>	Land pollution	Do not cause or permit land pollution other than under authority of a licence or regulation (However it is not a land pollution offence to place virgin excavated natural material or lawful pesticides and fertilisers on land, or by placing matter on land that has been notified to the EPA as an unlicensed landfill and which is operated in accordance with the regulations.)	S142A – S142E	Yes
<i>Contaminated Land Management Act 1997</i>	Reporting contamination	Notify the EPA if contaminants exceed thresholds contained in guidelines or the regulations where contamination has entered or will foreseeably enter neighbouring land, the atmosphere, groundwater or surface water. Contaminants in soil are equal to or exceed guideline levels with respect to the current or approved use of the land. Contamination meets other criteria that may be prescribed by the regulations.	S60	Yes
Biodiversity				
<i>Biosecurity Act 2015</i>	Weed, pest and disease control.	The duty to prevent, eliminate and minimise biosecurity risks posed by biosecurity matters as defined by the Act.	s22 Schedule 1	Yes
<i>Biosecurity Regulation 2017</i>	Pests and diseases.	Notify the presence any pest or disease listed in Schedule 1 of the Biosecurity Regulation 2014, within 1 working day after suspecting or becoming aware of the pest or disease.	cl. 7, Schedule 1	Yes
<i>Biodiversity Conservation Act 2016</i>	Threatened flora and fauna.	Do not harm any animal that is; of a threatened species, that is part of a threatened ecological community or is a protected animal, unless authorised under other legislation (e.g. planning approval). Do not damage habitat of a threatened species or ecological community unless authorised under other legislation (e.g. planning approval). Do not damage declared areas of outstanding biodiversity value unless authorised under other legislation (e.g. planning approval).	S2.1-2.4 S2.8	Yes

Act	Activity / aspect	Requirement	Reference	Applicable?
		Do not pick a plant that is; of a threatened species, that is part of a threatened ecological community or is a protected plant, unless authorised under other legislation (e.g. planning approval).		
<i>Fisheries Management Act 1994</i>	Mangroves, seagrasses and marine vegetation	Do not harm any mangroves, seagrasses or other marine vegetation on public water land protected by the regulations without a permit.	S205	No
<i>Fisheries Management Act 1994</i>	Fish passage	Do not block fish passage without a permit.	S219	No
<i>Environment Protection Biodiversity Conservation Act 1999 (Commonwealth)</i>	Flora and fauna conservation	Comply with approved Development Consent conditions.	N/A	Yes
Waste				
<i>Protection of the Environment Operations Act 1997</i>	Littering	Do not litter in a public place or an open private place. Do not litter from a vehicle. Only deposit advertising material in receptacles provided for mail or newspapers or under the door of the premises. Do not deposit advertising material on or in vehicles.	Part 5.6A	Yes
<i>Protection of the Environment Operations Act 1997</i>	Waste and transportation	Do not undertake a scheduled waste activity unless in accordance with an environment protection licence. Refer also to the Resource Recovery Exemptions. Only transport waste to a facility that can lawfully accept the waste within 150 km from Project. Do not dispose of waste in a manner that harms or is likely to harm the environment.	Part 3.2 Schedule 1 S143 S115	Yes
<i>Protection of the Environment Operations (Waste) Regulation 2014</i>	Waste and transportation	Comply with general requirements for the transport of waste. For example, any vehicle used by the person to transport waste must be kept in a clean condition and be maintained so as to prevent spillage of waste. For some wastes only licensed transporters can be used.	Regulation cl.49	Yes

Act	Activity / aspect	Requirement	Reference	Applicable?
		Comply with record keeping requirements in relation to the transport of certain types of waste.	Regulation Part 3	Yes
Heritage				
<i>Heritage Act 1977</i>	Heritage	Do not undertake an activity that will affect a place, building, work, relic, moveable object or precinct which is subject to an Interim Heritage Order or is listed on the State Heritage Register without approval from the Heritage Council.	S56-57	Yes
		Do not disturb or excavate land with knowledge or reasonable cause to suspect that the disturbance or excavation will or is likely to result in a relic being discovered, exposed, moved, damaged or destroyed; or Do not disturb or excavate land on where a relic has been discovered or exposed unless an excavation permit in place.	S139	No
		Notify the Heritage Council on discovery of a relic.	S146	Yes
		Give the Heritage Council at least 14 days' notice before removing or demolishing any item listed in a section 170 register.	S170A	Yes
<i>National Parks and Wildlife Act 1974</i>	Aboriginal places and objects.	Do not harm or desecrate an Aboriginal object or Aboriginal place without consent.	S86 S90	Yes
		Notify the NPWS within reasonable time of becoming aware of the location or discovery of certain Aboriginal objects.	S89A	Yes
<i>Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Commonwealth).</i>	Protection of areas and objects.	Report any discovery of Aboriginal remains to the Federal Minister for the Environment and Heritage.	S20	Yes
		Comply with the provisions of any declaration in relation to a significant Aboriginal area or object.	S22	Yes

APPENDIX D ORGANISATIONAL CHART

