

Appendix 18 - Consolidated Management Measures

RES will be responsible for implementing the management and mitigation measures identified in the EIS. The management and mitigation measures will be implemented through a Construction Environmental Management Plan (CEMP) and Operational Environmental Management Plan (OEMP). These plans will be prepared sequentially, prior to each stage of the Project by RES and the relevant contractor, and in consultation with relevant Government Agencies. The following table provides a consolidated list of the management and mitigation measures applicable to the Project and relevant timing for implementation.

Aspect	Management/Mitigation Measure	Timing
General	RES will prepare and implement a Construction Environmental Management Plan (CEMP) for the Project, incorporating all relevant management and mitigation measures outlined in the EIS.	Pre-construction
	RES will prepare and implement an Operation Environmental Management Plan (OEMP) for the Project, incorporating all relevant management and mitigation measures outlined in the EIS.	Pre-operation
	<p>Construction works will be primarily completed between standard construction hours in accordance with the <i>Interim Construction Noise Guideline</i> (DECC 2009), which are as follows:</p> <ul style="list-style-type: none"> 7:00 am to 6:00 pm – Monday to Friday 8:00 am to 1:00 pm – Saturdays Sunday and Public Holidays – no work to be completed <p>Exceptions to these hours would be limited to activities with low noise generation where practicable. Prior to undertaking such works (outside of standard construction hours) RES will undertake a notification and consultation process with any landowners potentially affected by noise-related impacts. The approach to notification and consultation will be outlined in the Construction Environmental Management Plan (CEMP).</p>	Construction
Social Impact	A Social Impact Management Plan (SIMP) will be prepared and implemented for the Project to manage and enhance social impacts through each stage of the Project.	Pre-construction / Construction
	RES will develop an Accommodation, Employment and Procurement Strategy (AEPS) as part of the CEMP in collaboration with the local community and Mid-Western Regional Council. The AEPS will include targeted and proactive initiatives to maximise local employment and sourcing from local communities such as training, up-skilling and capacity building support, in collaboration with local stakeholders and training providers, and will consider targeted initiatives to appropriately manage workforce during construction period to manage social changes caused by the incoming population.	Pre-construction / Construction
	Multi-stakeholder liaison will occur to ensure widespread integration and prioritisation of social acceptance across various projects and to jointly develop or contribute to a Community Engagement Strategy across planning and	Pre-construction / Construction

Aspect	Management/Mitigation Measure	Timing
	delivery of the CWO - REZ.	
	<p>RES will develop and implement a Community Shared Benefit Strategy in consultation with local stakeholders to target investment to local needs and priorities and cognisant of activities/efforts of adjacent projects and across the broader REZ. The strategy will include:</p> <ul style="list-style-type: none"> • A Neighbours Shared Benefit Program, focused on delivering benefits to the Project's closest neighbours and those most directly affected by Project activities. • A dedicated Community Enhancement Program, focused on support and funding of broader community initiatives or programs at the local and regional level. 	Pre-construction / Construction / Operation
	<p>RES will prepare a Community Engagement Strategy for the Project to include consistent, transparent and proactive information provision and consultation with stakeholders throughout Project development. This will include:</p> <ul style="list-style-type: none"> • Collaboration and coordination with local stakeholders including other developers, local and state government, community groups and service providers in responding to community issues relating to REZ establishment • Consultation with DPI Agriculture ongoing throughout Project establishment • Open and proactive communication with nearby residents to share information and generate awareness about construction activities and potential periods of disruption, including a responsive and easy-to-access community grievance mechanism • Information provision and awareness creation on the actual impacts of electrical infrastructure on human health. 	Pre-construction / Construction
	<p>A Community Benefit Sharing Strategy will be established for the Project. It will:</p> <ul style="list-style-type: none"> • Consider legacy initiatives targeting local housing provision • Be designed and developed in consultation with local stakeholders to target investment to local needs and priorities and cognisant of activities/efforts of adjacent projects and across the broader REZ • Consider proactive partnerships with local tourism providers and development of tourism opportunities that the Project could generate or contribute to for the broader community • Include coordinated efforts with stakeholders across the REZ to support sustainable development of industry in co-existence with other key sectors • Work with affected parties to ensure targeting of investment to local priorities • Target initiatives to those most affected by the Project or living nearest to the Project 	Pre-construction / Construction / Operation

Aspect	Management/Mitigation Measure	Timing
	<ul style="list-style-type: none"> Provide open and proactive engagement with nearby residents to ensure understanding of Project impacts on a case-by-case basis and target Neighbours Shared Benefit Program accordingly. 	
Economic Impact	A Community Shared Benefit Strategy will be developed and implemented for the Project in collaboration with representatives of the local community and Mid-Western Regional Council. This will include a Community Benefit Fund to be available to the wider community.	Pre-construction
Land Resources and Land Use	The CEMP will be developed and implemented for the construction phase of the Project and will include relevant erosion and sediment control measures, in accordance with the Managing Urban Stormwater: Soils and Construction Volume 1 (NSW DPIE, 2004) "The Blue Book".	Pre-construction / Construction
	RES will develop a Sheep Grazing Vegetation Management Plan (SGVMP) as part of the OEMP that will outline management measures for solar grazing in line with the Agrisolar Guide 2021 as well as other animal health and welfare standards and guidelines. This will include measures to manage the stock appropriately, including a requirement to keep the stock in good health, ensuring frequent shearing (to keep wool growth low), ensure mustering is conducted in an agreed safe manner, and that any fatalities are managed by the farmer. The SGVMP will be developed in consultation with the involved landholders and DPI Agriculture. RES will enter into a grazing agreement (agistment contract) with the relevant involved landholders to allow the opportunity for dual use of the Project Area.	Pre-construction / Construction / Operation
	The OEMP for the Project will detail requirements to manage the spread of weeds, pests and biosecurity risks, including erosion, soil fertility and compaction during the operation of the Project.	Operation
	The rehabilitation of the Project Area will be conducted in accordance with the Rehabilitation Management Plan to be prepared as part of the OEMP for the Project.	Post-operation
Traffic	RES will undertake intersection works at the Project access to provide basic left/right turn or auxiliary left/right turn treatments on the Castlereagh Highway approaches as per Austroads standards, providing for direct access from the Castlereagh Highway. The design of the intersection works will be finalised in consultation with Mid-Western Regional Council and Transport for NSW.	Pre-construction
	RES will prepare and implement a Traffic Management Plan (TMP) in consultation with the Mid-Western Regional Council and Transport for NSW. The TMP will include a Drivers Code of Conduct and will be designed to minimise the impact of Project construction traffic (including OSOM vehicles) on the external road network.	Pre-construction / Construction
	Suitable parking arrangements within the Project Area will be provided for the construction and operation workforce to avoid parking on the public roads adjacent to the Project Area.	Pre-construction / Construction / Operation
	RES will prepare road dilapidation reports covering pavement, drainage and bridge structures in consultation with Transport for NSW and the local Councils for the proposed transport routes before and after construction. Regular inspection regimes undertaken in consultation between local Councils and the Proponent will be developed. Any	Pre-construction / Construction / Operation

Aspect	Management/Mitigation Measure	Timing																					
	damage resulting from construction traffic, except that resulting from normal wear and tear, would be repaired to pre-existing conditions.																						
	RES will establish a 'carpool' initiative or provide bus services for construction staff from nearby centres to minimise construction staff trips.	Pre-construction / Construction																					
	For decommissioning, the TMP will be revised to address traffic operation and volume changes in the future years during the decommissioning phase. The revised TMP will be implemented for the decommissioning phase.	Decommissioning																					
Biodiversity	<p>RES will develop a biodiversity offset strategy during the assessment process in consultation with BCD, DPE and DAWE; and based on the credits required to be retired to offset the impacts of the Project as outlined in Table 1 and the offset options available under the BC Act and BC Regulation including:</p> <ul style="list-style-type: none"> Land based offsets through the establishment of new Stewardship Sites (and subsequent retirement of credits) or by retiring credits from existing Stewardship Sites. RES would retire the required number and class of credits determined in accordance with the BDAR and the offset rules in the BC Regulation. Securing (purchasing) credits through the open credit market, and/or Paying into to the Biodiversity Conservation Fund (BCF). <p>Table 1 Credits Required to Offset the Project</p> <table> <tr> <th>PCT/Species-credit</th><th colspan="2">Credits Required</th></tr> <tr> <th>Ecosystem Credits</th><th>Solar farm/BESS</th><th>Transmission line</th></tr> <tr> <td>81 Western Grey Box - cypress pine shrub grass shrub tall woodland in the Brigalow Belt South Bioregion Moderate Condition</td><td>45</td><td>0</td></tr> <tr> <td>281 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 Moderate Condition</td><td>146</td><td>463</td></tr> <tr> <td>318 Mugga Ironbark -Tumbledown Red Gum - Red Box - Black Cypress Pine open forest on shallow stony soils on hills in the NSW South Western Slopes Bioregion Moderate Condition</td><td>47</td><td>0</td></tr> <tr> <td>281 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 DNG</td><td>0</td><td>423</td></tr> <tr> <td>Total</td><td colspan="2">1124</td></tr> </table>	PCT/Species-credit	Credits Required		Ecosystem Credits	Solar farm/BESS	Transmission line	81 Western Grey Box - cypress pine shrub grass shrub tall woodland in the Brigalow Belt South Bioregion Moderate Condition	45	0	281 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 Moderate Condition	146	463	318 Mugga Ironbark -Tumbledown Red Gum - Red Box - Black Cypress Pine open forest on shallow stony soils on hills in the NSW South Western Slopes Bioregion Moderate Condition	47	0	281 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 DNG	0	423	Total	1124		Prior to clearing of native vegetation requiring offsets (or timing as otherwise agreed with the Secretary of DPIE)
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Aspect	Management/Mitigation Measure	Timing
	Salvage of biodiversity features, including habitat resources (e.g., hollow logs, tree hollows, fallen timber and rocks/boulders) and replacement of them in suitable locations in the landscape to augment existing habitat.	Construction
	A pre-clearing procedure will be implemented to minimise the potential for impacts on native fauna species (focusing on threatened species) as a result of the clearing of hollow-bearing trees. The pre-clearing procedure is designed to minimise impacts to hollow-dependent and ground-dwelling fauna.	
	Pre-clearance surveys and tree-felling supervision recommendations will be implemented to minimise the potential for impacts on native fauna species (including threatened species) as a result of the clearing of hollow-bearing trees.	
	During construction, temporary fencing will be used to demarcate vegetation where required to avoid accidental damage to areas outside of the disturbance area.	
	<p>Weed management controls will include:</p> <ul style="list-style-type: none"> • machinery and equipment will be cleaned thoroughly prior to entering the Subject Land. Cleaning must include the removal of all mud and plant matter, followed by washing with high pressure water. • mulch containing weeds will be placed in piles separate from clean mulch, removed from site, and disposed of in accordance with weed management guidelines as soon as practicable. 	Construction / Operation
	<p>Access control is an important feature in protecting and demarcating areas outside the disturbance area from vehicle access, human access, and accidental disturbance. Measures include:</p> <ul style="list-style-type: none"> • Appropriate fencing and signposting of areas to prevent the uncontrolled entry of people, accidental disturbance and to minimise vehicular and human traffic • Clear and visible signage is to be appropriately located to inform the workforce and others of the restricted access or otherwise of areas outside the Subject Land and • Locking of gates to prevent unwanted vehicle, person access and disturbance. 	
	<p>The following mitigation actions will be implemented for the Project to develop a greater understanding and awareness of biodiversity issues in non-ecological trained personnel:</p> <ul style="list-style-type: none"> • Inductions for the workforce will be undertaken to make them aware of the key ecological issues present in the Subject Land and so that they know their role and responsibilities in the protection and/or minimisation of impacts to all native biodiversity • Inductions will identify the location of sensitive flora and fauna and the policies being implemented to protect the biodiversity values of such areas. 	
	General fencing will be non-inhibiting fauna fencing (excludes security fencing).	

Aspect	Management/Mitigation Measure	Timing
Water	<p>RES will develop and implement a Soil and Water Management Plan (SWMP) as part of the CEMP to manage soil and water impacts associated with the construction works, including contaminated land. The SWMP will provide:</p> <ul style="list-style-type: none"> Measures to minimise/manage erosion and sediment transport including requirements for the preparation of erosion and sediment control plans (ESCP) for all progressive stages of construction. Measures to manage waste including the classification and handling of spoil. Procedures to manage unexpected, contaminated finds. Measures to manage stockpiles including locations, separation of waste types, sediment controls and stabilisation. Measures to manage accidental spills including the requirement to maintain materials such as spill kits. Controls for receiving waterways which may include: <ul style="list-style-type: none"> Designation of 'no go' zones for construction plant and equipment Creation of catch/diversion drains and sediment fences at the downstream boundary of construction activities where practicable to support containment of sediment-laden runoff <p>Erosion and sediment control measures will be implemented and maintained at all work site in accordance with the principles and requirements in Managing Urban Stormwater - Soils and Construction, Volume 1 (Landcom 2004) and Volume 2D (NSW Department of Environment, Climate Change and Water 2008b), commonly referred to as the "Blue Book".</p>	Pre-construction / Construction
	Water sources will be confirmed during detailed design phase and in consultation with suppliers and landholders and be subject to availability. A water sourcing strategy will be developed so that water used during the construction phase does not cause issues to adjacent landowners or other stakeholders. The use of any bore water during construction and decommissioning would be agreed with the landholder and Water Access Licences (WAL) would need to be confirmed and/or obtained	Pre-construction / Construction / Decommissioning
	Any other water sourced from either surface water or groundwater sources to meet Project construction demands will be licenced and managed, as required, in accordance with the requirements of the <i>Water Management Act 2000</i> .	Construction
	Potable water demands for both the construction and operational phases of the Project will be supplied via water tanker and stored in on-site water tanks. Potable water storages will be routinely tested to ensure water quality meets the requirements of the <i>Australian Drinking Water Guidelines (ADWG)</i> (National Health and Medical Research Council, 2011) and an appropriate maintenance regime will be implemented to ensure water quality ADWG water quality standards are maintained.	Construction / Operation
	Wastewater generated by amenities during the Project construction phase will be collected in a tank(s) and periodically removed by a suitably licensed waste contractor. During the operational phase of the Project, the volume	

Aspect	Management/Mitigation Measure	Timing
	of amenities wastewater will be significantly lower than that generated in the construction phase and will be managed by either collection in a tank(s) and periodic removal by a suitably licensed waste contractor or in an on-site wastewater management system.	
	The OEMP to be developed for the Project will include measures to address potentially adverse impacts on the receiving environment surface water quality during the operational phase. This will include the development and appropriate maintenance of suitable ground cover around solar panels, and grassed table drains near access tracks to minimize the potential for erosion and export of sediment.	Operation
	Project waterway crossings will be designed to minimise impacts on stream stability.	Detailed Design (prior to construction of waterway crossings)
	Development of the Emergency Response Plan to be included in the CEMP and OEMP will include consultation with NSW State Emergency Services (NSW SES) and local Councils covering the management and response to flooding.	Construction / Operation
Aboriginal Archaeology	Ensure that all employees and contractors are aware that it is an offence under Section 86 of the NPW Act to harm or desecrate an Aboriginal object unless that harm has been subject to approval as part of the necessary approvals process.	Construction / Operation
	<p>An Aboriginal cultural heritage management plan (ACHMP) for the Project will be developed in consultation with the registered Aboriginal parties, including:</p> <ul style="list-style-type: none"> Protecting the Aboriginal archaeological sites and areas of archaeological potential identified in Table 2 including establishing appropriate fencing/site demarcation prior to the commencement of construction and ensuring ongoing protection during construction and operation. This will include provision for consultation with the RAPs regarding the establishment of site fencing and any associated signage. Surface collection of isolated artefact and additional inspection of surrounding area (10 m radius) to identify whether additional artefacts have become exposed/visible and can be collected. Fencing is to be carried out in consultation with RAPs, with wording of any signage to be subject to RAP review. Managing impacts to sites identified in row 2 of Table 2. This will include the provision of methodologies for surface collection and for fencing/site demarcation (where impact is partial only). Surface collection of isolated artefact and additional inspection of surrounding area (10m radius) to identify whether additional artefacts have become exposed/visible and can be collected. Fencing is to be carried out in consultation with RAPs, with wording of any signage to be subject to RAP review. Protocols to be followed in the instance that additional ground disturbance works are required outside the assessed areas. This will include requirements for further survey and assessment of any such works. 	Pre-construction / Construction

Aspect	Management/Mitigation Measure	Timing									
	<ul style="list-style-type: none"> Development of appropriate management, storage, and eventual repatriation of collected archaeological material from the Project Area in consultation with the RAPs. The management of any new Aboriginal archaeological sites (Unexpected Finds Protocol) that may be identified during these inspections or over the course of construction or operational activities. The management of Aboriginal skeletal remains should any be identified within the construction or operational activities for the Project, and the involvement of the RAPs in this process. Monitoring and reporting on the effectiveness of these measures and to report on the outcomes of any approved mitigation works. Providing Aboriginal cultural heritage awareness training to all staff and contractors working on the Project, including the requirement to avoid impacts to PADs and specified sites. <p>Table 2 Recommendations by site/area of archaeological potential</p> <table> <tr> <th>Sites/PADs</th><th>Proposed Management Strategy</th><th>Requirements</th></tr> <tr> <td>PADs1-9 (with associated artefacts)</td><td>Avoid impacts</td><td>Establish appropriate fencing/site demarcation prior to the commencement of construction and ensure ongoing protection during construction and operation. If design changes and partial impact is required, further assessment will be undertaken.</td></tr> <tr> <td>AS1-12 IF 1 – 10</td><td>Impacts to sites cannot be fully or partially avoided (either because of the Project or ongoing agricultural land use occurring concurrently with the Project)</td><td>Where site is subject to partial impact only, for the portion of the site not subject to impact, establish appropriate fencing/site demarcation prior to the commencement of construction and ensure ongoing protection during construction and operation. Where impacts will occur, undertake surface collection of identified surface artefacts within the area of impact including inspection and collection within a buffer around the identified site boundary (allowance of 10 m from recorded site boundary).</td></tr> </table>	Sites/PADs	Proposed Management Strategy	Requirements	PADs1-9 (with associated artefacts)	Avoid impacts	Establish appropriate fencing/site demarcation prior to the commencement of construction and ensure ongoing protection during construction and operation. If design changes and partial impact is required, further assessment will be undertaken.	AS1-12 IF 1 – 10	Impacts to sites cannot be fully or partially avoided (either because of the Project or ongoing agricultural land use occurring concurrently with the Project)	Where site is subject to partial impact only, for the portion of the site not subject to impact, establish appropriate fencing/site demarcation prior to the commencement of construction and ensure ongoing protection during construction and operation. Where impacts will occur, undertake surface collection of identified surface artefacts within the area of impact including inspection and collection within a buffer around the identified site boundary (allowance of 10 m from recorded site boundary).	
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Historic Heritage	An Unexpected Finds Protocol will be developed and followed in the event that any unexpected historical archaeological material or any buildings, sites or structures of potential heritage significance are identified. This will include ceasing all work in the area and consulting a suitably qualified archaeologist to determine an appropriate course of action. Depending on the extent and significance of the archaeological remains encountered, Heritage NSW may require consultation prior to the commencement of works.	Pre-construction / Construction									

Aspect	Management/Mitigation Measure	Timing
	Relevant employees, contractors and subcontractors will be made aware of their obligations and requirements in relation to the relevant provisions of the <i>Heritage Act 1977</i> . This information will be most effectively provided within mandatory site inductions provided to employees, contractors and sub-contractors working on the Project in accordance with the CEMP.	Pre-construction / Construction
	To avoid the potential for harm to historic objects on unassessed adjacent landforms, all ground surface disturbing activities will be confined to the development footprint.	Pre-construction / Construction
Visual	RES will prepare and implement a Detailed Landscape Plan which will refine the concepts in the Draft Landscape Plan prepared as part of the VIA to screen views of the Project through strategic planting.	Pre-construction / Construction / Operation
	Should the Project be approved, RES is committed to entering into negotiated agreements with affected landholders (VP1, VP24 and VP213) in order to address the moderate visual impacts specific to their dwellings by vegetation screening on their properties (off site). These agreements will be developed in accordance with the <i>draft Large-scale Solar Energy Guideline 2021</i> .	Pre-construction
	Lighting will be installed in accordance with AS4228-1997 - Control of Obtrusive Effects of Outdoor Lighting and will be designed and installed to follow best practice lighting principles identified within the Dark Sky Planning Guidelines.	Pre-construction / Construction / Operation
	During construction appropriate mitigation will be applied to lighting (including directional lighting and light shields) to reduce any associated impact.	Construction
	Ancillary components of the Project, such as the inverter shelters and office/storage containers, will be colour treated so they are dark in colour and less prominent.	Construction / Operation
Noise	RES will update the draft Noise and Vibration Management Plan (NVMP) included in the NVA. The NVMP will be implemented as part of the Construction Environmental Management Plan (CEMP).	Pre-construction / Construction
	The CEMP and NVMP would be regularly updated to account for any changes in noise and vibration management of the Project.	Construction
	All employees, contractors and subcontractors will receive an environmental induction.	Pre-construction / Construction
	The noise levels of plant and equipment will have operating Sound Power or Sound Pressure Levels consistent with those nominated in the NVA.	Construction / Operation
	Non-tonal reversing beepers would be fitted and used on all construction vehicles and mobile plant used regularly on site and for any out of hours work.	Construction
	Potential noise mitigation measures to reduce construction-related traffic noise may include the following: <ul style="list-style-type: none"> Slowing the speed of the heavy vehicles as they pass through the Birriwa township from the sign-posted speed of 80 km/h to a nominal speed of 60 km/h. 	Construction

Aspect	Management/Mitigation Measure	Timing
	<ul style="list-style-type: none"> Car-pooling and the use of buses/mini vans to reduce the total number of light vehicle movements. 	
	<p>Vibration generating plant not listed in Table 5.4 of the NVA should not be used within the identified safe working distances. If vibratory rollers or other vibration inducing construction sources are required within the safe working distances for residential nominated in Table 5.4, the following is recommended:</p> <ul style="list-style-type: none"> An independent specific structural assessment is undertaken on the structure to ascertain the structural integrity and its ability to withstand vibration, and establishment of an appropriate vibration criterion A dilapidation survey is undertaken on the structure prior to works commencing, and regular inspection of the structure throughout the construction activities Pre-construction vibration monitoring to establish baseline vibration impacts induced on the structure from road traffic Where appropriate, continuous vibration monitoring is conducted on the structure for the duration of the period of construction while vibration generating equipment is used. The vibration logger should be equipped with the facility to remotely alert the site to reduce or cease construction activities if vibration levels are approaching the criterion threshold Stationary noise sources should be enclosed or shielded where feasible or reasonable. 	Construction
	All sensitive receivers likely to be affected will be notified at least seven days prior to commencement of any works associated with the activity that may have an adverse noise or vibration impact.	Pre-construction / Construction
Hazard	RES will develop and implement an Emergency Management Plan (EMP) which will outline detailed emergency procedures consistent with Hazardous Industry Planning and Advisory Paper No. 1 Emergency Planning (HIPAP 1) and the RFS Planning for Bushfire Protection (or equivalent). Reference will also be made to Australian Standard AS 3745-2010 Planning for emergencies in facilities for the preparation of the EMP. The EMP will be developed in consultation with RFS, FRNSW and the LEMC.	Pre-construction / Construction / Operation
	A Fire Safety Study (FSS) will be prepared in accordance with HIPAP No. 2 Fire Safety Study Guidelines (DoP, 2011) in consultation with FRNSW and will determine the requirement for any fire safety systems (e.g. provision of fire water tanks and hydrant booster sets) on site.	
	BESS units will be transported to site by a suitably accredited freight company in vehicles with a dangerous goods vehicle licence driven by drivers with a dangerous goods driver's licence.	
	First responders will be made aware of Project hazards (including those specific to Lithium-Ion Batteries (LIBs) and electrical hazards that pose a threat during emergency response) and appropriate response to Project hazard events in post construction inductions for first responders. Handbooks will be provided detailing how to respond to hazard events and the appropriate precautions for first responders	Post-construction

Aspect	Management/Mitigation Measure	Timing
	A combustible materials (including vegetation) exclusion zone of 20 m will be maintained around the BESS containers to reduce the risk of external fire initiating LIB hazard events.	Operation
	On site speed limits will be restricted to between 20 and 40 km/h, depending on condition of site, and designated traffic flow directions.	Construction / Operation
	All personnel responsible for operations, maintenance and emergency response will be suitably trained.	Operation
	Hot work/safe work procedures for any maintenance works on BESSs or electrical transformers will be implemented.	Operation
	Routine preventative maintenance, interlock testing and condition monitoring (e.g. thermography, insulating oil analysis) of BESSs and electrical transformers will be undertaken during the operational phase.	Operation
	All waste materials will be disposed of in a safe and responsible manner by suitably licenced waste contractors.	Operation
Electromagnetic Fields	All relevant procedures in relation to a high voltage installation will be adhered to throughout the life of the Project.	Pre-construction / Construction and Operation
	All project infrastructure will be designed in accordance with relevant industry standards.	
	Public access will be restricted throughout the life of the Project.	
Bushfire	<p>A Bushfire Emergency Management Plan will be developed for the Project in accordance with PBP 2019 and in consultation with the RFS (including any requirements in relation to aerial firefighting). The plan will identify all relevant bushfire risks and mitigation measures associated with the construction and operation of the Project, including:</p> <ul style="list-style-type: none"> detailed measures to prevent or mitigate fires igniting, outlining: <ul style="list-style-type: none"> APZ locations and management requirements access locations, passing bays and any alternate emergency access water supply and any other bush fire suppression systems (including any drenching systems, static water supply, natural water sources) work that should not be carried out during total fire bans Animal grazing to control the amount of potential vegetation fuel under the panels. availability of fire-suppression equipment storage and maintenance of fuels and other flammable materials non-combustible fencing notification of the local NSW RFS Fire Control Centre for any works that have the potential to ignite surrounding vegetation, proposed to be carried out during a bush-fire fire danger period to ensure weather conditions are appropriate. an appropriate Emergency Evacuation Plan (including bush fire emergency management). 	Pre-construction / Construction / Operation

Aspect	Management/Mitigation Measure	Timing
	Roads will be maintained in the Project Area to allow for safe and accessible travel of emergency vehicles (if required).	
	Maintain a 10m setback line around the perimeter and along the fence line with an additional 40m setback around vegetated areas within the Project Area.	
Waste	<p>RES will prepare a Waste Management Plan which will include a detailed breakdown of waste types and quantities in accordance with relevant legislation and guidelines.</p> <p>The Waste Management Plan will outline the measures and strategies to be implemented on site to manage, reuse, recycle and safely dispose of waste including:</p> <ul style="list-style-type: none"> a summary of the waste types, classification and estimated annual quantities of wastes produced during the construction of the Project measures to managed waste disposal in accordance with the principles of the waste hierarchy, with emphasis on reduce, reuse, recycle prior to disposal of its wastes the procedure for assessing, classifying and storing waste in accordance with the EPA's Waste Classification Guidelines (EPA, 2014) and management options procedures for storage, transport and disposal of waste monitoring, record keeping and reporting, such as waste tracking data demonstrating the lawful disposal of contaminated products, waste or residues generated at the facility. <p>On-site waste management will include the appropriate separation and storage of waste streams to enable recycling and reuse wherever possible to reduce associated environmental impacts and impact to the capacity of local waste management facilities.</p>	Pre-construction / Construction
Air Quality	<p>The CEMP will include relevant management measures to limit off-site dust impacts. Specific measures will include:</p> <ul style="list-style-type: none"> water suppression on all exposed areas, unsealed roads and stockpile areas when required (i.e. if visible dust emissions are observed) the location and scale of activities which generate dust emissions would be modified and limited during periods of dry and windy weather engines to switch off when not in use for prolonged periods development of a complaints procedure to promptly identify and respond to complaints. 	Pre-construction / Operation
	<p>The OEMP, will include on-site management measures to limit off-site air quality emissions. Specific measures will include:</p> <ul style="list-style-type: none"> implement and enforce speed limits for operations vehicles and equipment on unsealed access tracks and hardstand areas minimise dust emissions from exposed areas through the application of water and/or dust suppressants using a water cart (as required) 	Pre-operation / Operation

Aspect	Management/Mitigation Measure	Timing
	<ul style="list-style-type: none"> limit operational maintenance activities during unfavourable (windy) weather conditions regular inspections/audits to ensure appropriate air quality controls are being implemented during operations and maintenance activities. 	
Decommissioning and Closure	Should decommissioning be required, RES will prepare a Decommissioning and Rehabilitation Plan for the Project, 2 years prior to closure. The plan will include rehabilitation of the site and a detailed review of the associated waste streams and recycling/disposal options available at the time. Preparation of the Decommissioning and Rehabilitation Plan will be subject to consultation with key stakeholders including relevant the host landholders, community, Local and State Government.	2 years prior to decommissioning