



# Electro Magnetic Interference (EMI) Assessment

**Cooljarloo Energy Park**

**DC Project SPV1 PTY Ltd as Trustee for DC Project Trust 1**

Prepared by:

**SLR Consulting Australia**

SLR Project No.: 675.073398.00002

SLR Report No.: 675.073398.02

17 September 2026

Revision: 1.3

## Revision Record

| Revision | Date              | Prepared By | Checked By | Authorised By |
|----------|-------------------|-------------|------------|---------------|
| 1.0      | 19 June 2026      | A Gibson    | P Hayman   | W Kok         |
| 1.1      | 28 August 2026    | A Gibson    | P Hayman   | W Kok         |
| 1.2      | 4 September 2026  | A Gibson    | P Hayman   | W Kok         |
| 1.3      | 17 September 2026 | A Gibson    | P Hayman   | W Kok         |

## Basis of Report

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with DC Project SPV1 PTY Ltd as Trustee for DC Project Trust 1 (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

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## Executive Summary

The Cooljarloo Energy Park (the Project) is a renewable power generation project to be located within the operational Cooljarloo Mine. Located ~170km north of Perth, the Cooljarloo Mine is owned and operated by Tronox Management Pty Ltd ("Tronox"). DC Project SPV1 PTY Ltd as Trustee for DC Project Trust 1 is coordinating pre-FID development works including initial design, project approvals, network approvals and associated studies. Tronox's Australian operations are predominantly based on the mining and processing of titanium ore, zircon, and other materials, with the Cooljarloo Mine being an important source of raw materials for titanium dioxide production. The Project is part of Tronox's commitment to carbon reduction targets, requiring all possible regions to source 'green power' by 2030.

This report outlines the activities undertaken by SLR Consulting when assessing the Project's electro-magnetic effects and its potential for interference with existing radiocommunications infrastructure. In the absence of any appropriate guidelines being published by Western Australian Government agencies, this assessment has been completed in accordance with the National Wind Farm Development Guidelines – Draft (EPHC 2010).

The assessment identifies the locations of existing telecommunications infrastructure and through consultation activities with stakeholders, also identifies those stakeholder services that are potentially affected. The assessment draws on information available from publicly accessible databases from the Australian Media and Communications Authority (ACMA) and the licensees of telecommunications infrastructure in the vicinity of the Project development area.

The assessment found that no significant impacts are anticipated. Consultation activities with the stakeholders who were potentially affected is summarized in Table 1. Further detail is provided in Appendix C.

**Table 1. Summary of affected services and mitigations, following stakeholder consultation**

| Service Type                                                                              | Responsible Operator(s)  | Potential Impact                                                                                                         | Mitigation                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Point-to-Point Links & Point-to-Area Communications (incl. broadband internet data links) | Telstra & Optus          | Reduction in localised cellular data/voice signal quality and/or strength.<br>Interference with point-to-point services. | For the detailed design phase, an analysis of the full power coordination impact (Low Frequency Induction (LFI) and/or Earth Potential Rise (EPR)) has been requested by Telstra. |
| Meteorological Radar                                                                      | Bureau of Meteorology    | No impact                                                                                                                | Not required                                                                                                                                                                      |
| Point-to-Point Links                                                                      | Western Australia Police | EMI compatibility concerns between WA Police communications and WTG electromagnetic emissions were raised.               | Additional technical specification information was provided to WA Police, which has resolved the underlying concerns.                                                             |



## Table of Contents

|                                                                          |            |
|--------------------------------------------------------------------------|------------|
| <b>Basis of Report .....</b>                                             | <b>i</b>   |
| <b>Executive Summary .....</b>                                           | <b>ii</b>  |
| <b>Acronyms and Abbreviations .....</b>                                  | <b>iv</b>  |
| <b>1.0 Introduction .....</b>                                            | <b>1</b>   |
| 1.1 Wind Turbine Generator .....                                         | 2          |
| 1.1.1 Electromagnetic Emissions .....                                    | 2          |
| <b>2.0 Electromagnetic Interference from Wind Farms .....</b>            | <b>4</b>   |
| <b>3.0 Assessment Methodology .....</b>                                  | <b>5</b>   |
| 3.1 Data Collection .....                                                | 5          |
| 3.1.1 Service Types .....                                                | 5          |
| 3.2 Identification of Services Potentially Affected .....                | 7          |
| 3.2.1 Recommended Criteria to Mitigate EMI using Avoidance Measures..... | 7          |
| 3.3 Consultation .....                                                   | 10         |
| 3.4 Mitigation Strategy.....                                             | 10         |
| <b>4.0 Key Findings.....</b>                                             | <b>12</b>  |
| <b>5.0 Closure.....</b>                                                  | <b>12</b>  |
| <b>References .....</b>                                                  | <b>D-2</b> |

## Figures in Text

|                                                               |          |
|---------------------------------------------------------------|----------|
| <b>Figure 1. Fresnel Zone radius (<math>r_n</math>) .....</b> | <b>8</b> |
|---------------------------------------------------------------|----------|

## Appendices

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| <b>Appendix A</b> | <b>ACMA Registered Radiocommunications Facilities within 50km</b> |
| <b>Appendix B</b> | <b>Figures</b>                                                    |
| <b>Appendix C</b> | <b>Stakeholder Consultation Summary</b>                           |
| <b>Appendix D</b> | <b>References</b>                                                 |



## Acronyms and Abbreviations

|        |                                                              |
|--------|--------------------------------------------------------------|
| ACMA   | Australian Communications and Media Authority                |
| ARQZWA | Australian Radio Quiet Zone, Western Australia               |
| CSIRO  | Commonwealth Scientific and Industrial Research Organisation |
| EMC    | Electromagnetic Compatibility                                |
| EMF    | Electromagnetic Field                                        |
| EMI    | Electromagnetic Interference                                 |
| EPHC   | Environment Protection and Heritage Council                  |
| IEC    | International Electrotechnical Commission                    |
| RFNSA  | Radio Frequency National Site Archive                        |
| SFZ    | Second Fresnel Zone                                          |
| SWIS   | South West Interconnected System                             |
| UHK    | Ultra High Frequency                                         |
| VHF    | Very High Frequency                                          |
| WTG    | Wind Turbine Generator                                       |



## 1.0 Introduction

The Cooljarloo Energy Park (“CEP”, “Energy Park”, or “Project”) is planned to be a multi-technology renewable energy (RE) generation and storage project located the operational Cooljarloo Mine. Located ~170km north of Perth, the Cooljarloo Mine is owned and operated by Tronox Management Pty Ltd (“Tronox”). DC Project SPV1 PTY Ltd as Trustee for DC Project Trust 1 is coordinating pre-FID development works including initial design, project approvals, network approvals and associated studies.

Tronox's Australian operations are predominantly based on the mining and processing of titanium ore, zircon, and other materials, with the Cooljarloo Mine being an important source of raw materials for titanium dioxide production. The CEP is part of Tronox's commitment to carbon reduction targets, requiring all possible regions to source ‘green power’ by 2030.

The CEP will include:

- Up to 240 MW of wind energy generation (up to 27 wind turbines)
- Up to 150 MW / 900 MWh of Battery Energy Storage System (BESS)

The CEP will provide renewable energy to Tronox's Western Australian operations, including the Cooljarloo Mine and six other grid-connected sites. The location of the Energy Park has been selected as it offers several benefits, including:

- The site offers a large expanse of already disturbed land, enabling the development of a large-scale renewable project. BESS and wind turbine locations are targeting areas previously disturbed by mining activities within the mine's existing approved disturbed boundary, minimising clearing of native vegetation
- A good baseline understanding of fauna and flora exists, given previous studies as well as existing management plans that are being implemented successfully
- Established relationships within the community given existing operations
- Cataby Substation, a zone substation for the 132kV network is located on the site



**Figure 1: Project location (Google Maps, 2025; Google Earth, 2025)**

The project aims to minimise impacts to the environment by adhering to the following site layout principles:

- Locating turbines on land that is already disturbed by mining operations, with sufficient geotechnical integrity (e.g., topsoil stockpile locations)
- Minimizing clearance of remnant vegetation or high value Carnaby's Black Cockatoo foraging sites
- Minimum 1.5km setback from any dwelling
- Avoid mining activities and dredge path
- Segregate CEP from mine operations as much as possible

## 1.1 Wind Turbine Generator

The wind turbine generator (WTG) OEM and model provisionally selected for the Project and the EMI Assessment is the Envision EN182-7.8. With the detailed design and procurement process yet to be undertaken for the Project, another OEM's technically equivalent wind turbine may be selected for the Project's construction. The EMI Assessment herewith will still be valid should this occur.

The Envision EN182-7.8 WTG has the following technical features relevant to the environmental and social impact studies:

- Standard rated power = 7,800 kW
- Cut-in wind speed = 3 m/s
- Wind class = IEC S (user defined)
- Rotor diameter = 181.1 m
- Rotor blade length = 89.7 m
- Rotor swept area = 25,759 m<sup>2</sup>
- Hub height (above ground) = 150 m (IEC S)

### 1.1.1 Electromagnetic Emissions

The electromagnetic frequency energy emitted by the Envision EN182-7.8 WTG complies with all applicable International Electrotechnical Commission (IEC) standards. The IEC standards have been adopted by Standards Australia under IEC Technical Committee 88 *Wind Energy Generating Systems* and are therefore applicable to Australian wind farm projects. This also covers compliance with the ACMA-mandated Electromagnetic Compatibility (EMC) standards through the adoption of these IEC Standards by the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA).

## 1.2 Buildings & Dwellings

Buildings and dwellings in the vicinity of the proposed project can be points of radiocommunications reception that require evaluation for electromagnetic interference. For example, digital television signals may be degraded by the placement and operation of the wind turbines.

The locations of dwellings in the vicinity of the Project have been provided by the Customer. There are 20 commercial buildings and dwellings located within 10 km of the project development area. Detailed are provided in Table 2.

**Table 2. Third Party Buildings and Dwellings Surrounding the Project Development Area**

| Property #           | Type                   | Address                                 | Landgate Lot Number              | Distance to Nearest WTG | Nearest WTG |
|----------------------|------------------------|-----------------------------------------|----------------------------------|-------------------------|-------------|
| <b>West of Mine</b>  |                        |                                         |                                  |                         |             |
| Site #1              | Dwelling               | 792 Cooljarloo Road, COOLJARLOO 6507    | Lot 980 On Deposited Plan 103269 | ~4.4km                  | WTG A26     |
| <b>North of Mine</b> |                        |                                         |                                  |                         |             |
| Site #2              | Dwelling               | 371 Yerramullah Road, NAMBUNG 6521      | Lot 3862 On Plan 209085          | ~6.2km                  | WTG A40     |
| Site #3              | Dwelling               | 215 Yerramullah Road, NAMBUNG 6251      | Lot 3861 On Plan 209085          | ~4.2km                  | WTG A40     |
| Site #4              | Dwelling               | 1964 Wongonderrah Road, NAMBUNG 6521    | Lot 3860 On Plan 209085          | ~5.7km                  | WTG A40     |
| Site #5              | Dwelling               | 762 Wongonderrah Road, BADGINGARRA 6521 | Lot 3806 On Plan 209084          | ~4.3km                  | WTG A33     |
| Site #6              | Dwelling               | 482 Wongonderrah Road, BADGINGARRA 6521 | Lot 3807 on Plan 209084          | ~3.9km                  | WTG A23     |
| <b>East of Mine</b>  |                        |                                         |                                  |                         |             |
| Site #7              | Commercial             | 12438 Brand HWY, Cooljarloo             | Lot 3902 On Plan 209567          | ~4.9km                  | WTG A16     |
| Site #8              | Dwelling               | 271 Mullering Road, Cooljarloo          | Lot 105 on Plan 59027            | ~5.5km                  | WTG A16     |
| Site #9              | Commercial             | 10944 Brand Hwy, Cataby                 | Lot 201 On Plan 73034            | ~5.9km                  | WTG A1      |
| Dwelling #1          | Billinue Site Dwelling | 11785 Brand Hwy, Cooljarloo             | Lot 100 On Diagram 82665         | ~1.7km                  | WTG A8      |
| Dwelling #2          | Billinue Site Dwelling | 11786 Brand Hwy, Cooljarloo             | Lot 100 On Diagram 82666         | ~1.7km                  | WTG A8      |
| Dwelling #3          | Billinue Site Dwelling | 11787 Brand Hwy, Cooljarloo             | Lot 100 On Diagram 82667         | ~1.7km                  | WTG A8      |
| Dwelling #4          | Billinue Site Dwelling | 11788 Brand Hwy, Cooljarloo             | Lot 100 On Diagram 82668         | ~1.7km                  | WTG A8      |
| Dwelling #5          | Billinue Site Dwelling | 11789 Brand Hwy, Cooljarloo             | Lot 100 On Diagram 82669         | ~1.7km                  | WTG A8      |
| Dwelling #6          | Billinue Site Dwelling | 11790 Brand Hwy, Cooljarloo             | Lot 100 On Diagram 82670         | ~1.7km                  | WTG A8      |
| Dwelling #7          | Billinue Site Dwelling | 11791 Brand Hwy, Cooljarloo             | Lot 100 On Diagram 82671         | ~1.7km                  | WTG A8      |

| Property #           | Type                   | Address                     | Landgate Lot Number      | Distance to Nearest WTG | Nearest WTG |
|----------------------|------------------------|-----------------------------|--------------------------|-------------------------|-------------|
| Dwelling #8          | Billinue Site Dwelling | 11792 Brand Hwy, Cooljarloo | Lot 100 On Diagram 82672 | ~1.7km                  | WTG A8      |
| <b>South of Mine</b> |                        |                             |                          |                         |             |
| Site #10             | Commercial             | No Street Address           | Lot 3907 On Plan 209656  | ~1.5km                  | WTG A1      |
| Site #11             | Dwelling               | 367 Caro Rd, Cataby         | Lot 754 On Plan 249997   | ~5.7km                  | WTG A1      |
| Site #12             | Commercial             | No Street Address           | Lot 1555 On Plan 252096  | ~5.1km                  | WTG A1      |
| Site #13             | Commercial             | 11019 Brand Hwy Cataby      | Lot 101 on Diagram 66701 | ~5.9km                  | WTG A1      |
| Site #14             | Commercial             | No Street Address           | Lot 1 on Diagram 43813   | ~1.8km                  | WTG A1      |
| Site #15             | Commercial             | N/A                         | N/A                      | ~5.6km                  | WTG A2      |

## 2.0 Electromagnetic Interference from Wind Farms

As stated in the National Wind Farm Development Guidelines – Draft (EPHC 2010):

*EMI caused by utility-scale wind farm projects may affect various radiocommunications systems, including broadcast radio and television, mobile phones and radar.*

*Any obstructions between a transmitter and receiver will cause degradation to a radiocommunications signal. Obstructions in the vicinity of a radiocommunications service may also cause reflections or refraction which can degrade a radiocommunications signal, and signals from a transmitter located on a high point in the landscape are less likely to be obstructed. Radiocommunications services are designed to cater for any existing obstructions in the service area. However, the construction of a new wind farm can create new obstructions that may affect existing radiocommunications services.*

EMI may affect various types of radiocommunications services, including:

- point-to-point links, which rely on line-of-sight between transmitter and receiver,
- point-to-area links, including mobile phones, broadcast radio and television,
- meteorological radar,
- aviation radar.

There are three sources of EMI on radiocommunications service potentially created by wind farms:

- **Wind turbine tower** – physical obstruction, reflection and/or refraction of the electromagnetic waves transmitted by radiocommunications services;
- **Wind turbine blades** – similar interference to that created by wind turbine towers, with the added complexity of rotating blades creating scattering and doppler effects;
- **Wind turbine generator** – as stated in Section 1.1.1, the electromagnetic emissions from WTGs is of lesser concern, with a generator being akin to an electric motor.

These sources of EMI are considered in the assessment methodology.

### 3.0 Assessment Methodology

The assessment methodology applied by SLR to the assessment of EMI on the Project follows the workflow outlined in Appendix F of the National Wind Farm Development Guidelines – Draft (EPHC 2010). In accordance with these guidelines, the activities included for assessing the Project at its feasibility and planning (development) application stages is shown in Table 3. The assessment methodology included in this report is intended to support the Project's Development Application.

**Table 3. EMI mitigation methodology at the feasibility and planning application stages (EPHC 2010)**

| Assessment Stage                          | Workflow of Activities by Project Proponent |
|-------------------------------------------|---------------------------------------------|
| <b>Project Feasibility</b>                | Collect preliminary data                    |
|                                           | Determine organisations for consultation    |
|                                           | Identify potential services affected        |
|                                           | Preliminary impact assessment               |
| <b>Planning (Development) Application</b> | Collect data for validation                 |
|                                           | Consult potentially affected parties        |
|                                           | Develop mitigation strategy                 |
|                                           | Finalise mitigation strategy                |

The assessment methodology included in this report excludes the evaluation of EMI on aviation operations. It is included in the Project's Aviation Impact Assessment.

### 3.1 Data Collection

SLR conducted a search of the Australian Communications and Media Authority (ACMA) Register of Radiocommunications Licenses (Jan 2026) to develop a listing of all licensed services within 50 km of the proposed wind turbine locations forming the Project. These are listed in Appendix A. A geospatial overlay of these services, including the Project's wind turbine locations, is shown in Figure B-2 (Appendix B).

#### 3.1.1 Service Types

The types of radiocommunications service considered in the EMI assessment include:

- Point-to-point links
- Point-to-area services

- CB radio
- Radar services
- Trigonometrical stations
- Military Operations

#### **3.1.1.1 Point-to-Point Links**

The most susceptible radiocommunications service type to wind farm developments is point-to-point radio links. These rely on line-of-sight between transmitter and receiver. Any obstruction, such as a large wind turbine, in the vicinity of a straight line between these two points may cause interference and signal degradation. Therefore, assessing interference with the vector positioning of a point-to-point link is one of the primary subjects of a wind farm's EMI assessment.

#### **3.1.1.2 Point-to-Area Services**

Point to area services include public radio (analogue and digital), digital television and digital voice based technologies such as mobile phones (often called Global System for Mobile Communications, or GSM phones), and fourth and fifth generation phones (often called 4G and 5G phones). These services are generally unaffected by wind farm development. In some instances, a reduction in receiving signal caused by WTGs may necessitate the installation of higher-powered radiocommunications equipment or a booster station. These situations are difficult to quantify during the project planning stage. Therefore, a suitable mitigation strategy is put in place for a project's detailed design and construction stages to rectify unwanted losses in reception.

#### **3.1.1.3 Citizens' Band (CB) Radio**

This class licence lets you use citizen band (CB) radios to communicate over short distances. CB radios may only be used on designated channels in the follow narrow frequency bands (ACMA 2025):

- HF – 26.965 MHz to 27.405 MHz (inclusive)
- UHF – 476.4125 MHz to 477.4125 MHz (inclusive)

Given their relatively short range application, CB Radio operations are generally not affected by wind farm operations. It should also be noted that the use of CB Radio does not require an ACMA licence and therefore the extent of its use in the vicinity of the Project development area is difficult to quantify.

#### **3.1.1.4 Radar Services**

Radars send out electromagnetic waves in short pulses which may be reflected by objects in their path back to the point of transmission. The reflected signal is used to detect the presence of objects in the lower atmosphere, such as aircraft and precipitation (rainfall) (Bureau of Meteorology 2025). Wind turbines, when sited within a radar station's operating range, are large targets that can create unwanted radar reflections. These targets can create 'clutter' on a radar image which reduces the image quality.

Radar services are used in the Mid West region of Western Australia for meteorological and aviation operations. The Bureau of Meteorology operates a nationwide network of over 60 Weather Watch radars, the closest to the Project being Geraldton. The radar images on the Bureau's website display rainfall echoes from clouds located between 2,500 m and 3,500 m

above ground. At this height, the optimal radar coverage extends to 200 km from each radar (Bureau of Meteorology 2025).

Aviation radar is not presented in this report. Refer to the Project's Aviation Impact Assessment.

### 3.1.1.5 Global Positioning Systems

Trigonometrical stations are used for recording geospatial measurements with Global Positions System (GPS). These systems use Electronic Distance Measuring (EDM) devices, some of which are designed for use over long distances (>100 km).

In Australia there are eight permanent trigonometrical stations equipped with EDM devices and GPS receivers that form the Australian Fiducial Network (AFN) and the Geocentric Datum of Australia 1994 (GDA94) – a crucial component of Australia's spatial data infrastructure which transmits data to Geoscience Australia via phone lines, internet and/or satellite. The nearest of these eight AFN stations to the Project is located at Yarragadee (Depot Hill), operated by Geoscience Australia, approx. 160 km in a northerly direction from the Project boundary. No interference caused by the Project is expected.

Since the realisation of GDA94, there have been significant developments in technology that provide ready access to more accurate positioning systems. The Global Navigation Satellite System (GNSS) underpinned by GDA2020 is now capable of providing positioning services with centimetre accuracy.

The primary role of the Australian Regional GNSS Network (ARGN) is to provide the geodetic framework for the spatial data infrastructure in Australia and its territories. The ARGN consists of a network of ~450 permanent geodetic quality (GNSS) receivers and antennae, on geologically stable marks in Australia and its Territories. These sites provide input for the measurement of Earth processes, such as crustal dynamics and sea level rise. The nearest GNSS Station to the Project is located at Lancelin Golf Club, approx. 39 km in a south-southwest direction. No interference caused by the Project is expected.

### 3.1.1.6 Military Operations

The Australian Department of Defence operates a land-based naval training area adjacent to the coastline south of Lancelin, approx. 25 km southwest of the proposed project. No radiocommunications interference from the proposed Project with these operations is expected.

## 3.2 Identification of Services Potentially Affected

Having determined the licensed radiocommunications services in the vicinity of the Project and reviewed any known exclusion zones defined by the organisations listed above, SLR determined which services may be affected by the Project. A mitigation strategy using broad screening-type avoidance measures was first considered. This identified the WTG locations that required greater scrutiny using analytical methods.

### 3.2.1 Recommended Criteria to Mitigate EMI using Avoidance Measures

The National Wind Farm Development Guidelines – Draft (EPHC 2010) includes general recommendations for where WTGs should avoid being sited:

- **within the maximum second Fresnel zone of a point-to-point radio link.** Several WTG locations with respect to their nearest point-to-point radio link have required second Fresnel zone calculations to verify the potential for EMI. This has also triggered a requirement for stakeholder consultation.

- **within 2 km of a radiocommunications site or a receiver.** Seventeen (17) WTGs proposed on the Project are sited closer than 2 km from the nearest licensed radiocommunications site. While several of these sites are owned and operated by Tronox Management as part of the mine's operations, there are third party services present that also require external evaluation. This has also triggered a requirement for stakeholder consultation.
- **within 250 nm of Aeronautical and Weather Radar operations.** The Project is within this range of the nearest weather radar station, as discussed further below. This has also triggered a requirement for stakeholder consultation.

Further details on setting an appropriate avoidance criteria for specific types of services is provided as follows.

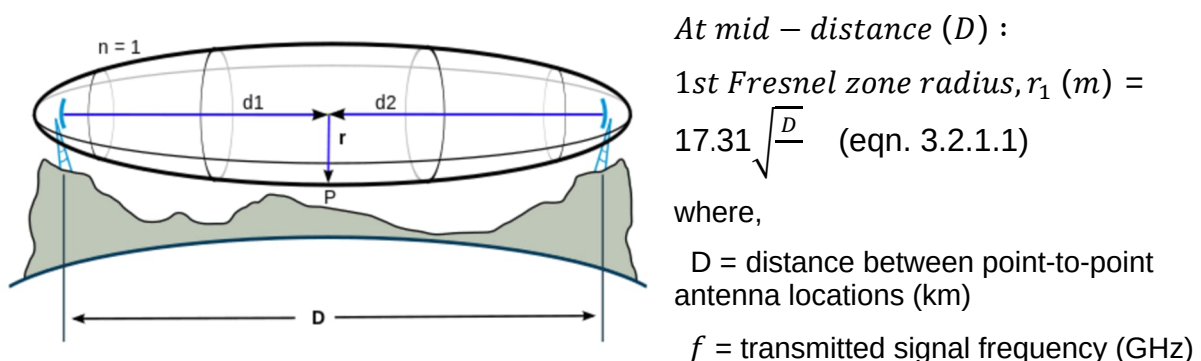
### 3.2.1.1 Point-to-Point Services – Obstruction to Line-of-Sight Path

When the location of a WTG causes point-to-point radiocommunications signals to be partially or fully obstructed, it can result in a reduction or loss of signal.

From prior consultation with radiocommunications operators on wind farm projects, it is generally accepted that effects from obstruction by wind turbines can be avoided by placing the turbines, including their blade swept area, outside the Second Fresnel Zone (SFZ) of the line-of-sight path of a point-to-point radio link. Additional conservatism is often requested by service operators with the inclusion of a margin of error in the calculations, typically in the order of 100 to 200 m, to account for factors such as the geospatial tolerance on licensed radiocommunications sites registration with ACMA.

- The SFZ is calculated using the frequency of the signal and the length of the path. The maximum SFZ radial extent of a link (worst case for detecting potential interference) occurs at the mid-point along the path. The SFZ clearance is equal to 141.4% of the first Fresnel Zone radius (i.e.,  $\sqrt{2} \times r_1$ ), as shown in Table 5.

Figure 2, where the Fresnel Zone is an ellipsoidal shape.



**Figure 2. Fresnel Zone radius ( $r_n$ )**

1. There are nine point-to-point radio links within the Project development area transmitting to/from five sites, as listed in Table 4. The licensees (project stakeholders) were identified as requiring consultation on the Project based on their proximity (<400 m) to the proposed WTGs listed in Further to the sites listed in Table 4, there is one point-to-point link passing through the Project development area with its transmitter and receiver sites located outside the Project development area. This link is tied to Site ID's 9021036 (WAPOL site WEDGE 10092 Indian Ocean Drive COOLJARLOO, WA) and 9015816 (Telstra RBS 12946 Brand Hwy COOLJARLOO). It was included in the assessment that identified some of the WTGs shown in Table 5.

**Table 4. Radiocommunications Sites within 2km of the Project development area with point-to-point links**

| Site ID  | Site Name                              | Licensee(s)                                         |
|----------|----------------------------------------|-----------------------------------------------------|
| 30550    | Substation Cooljarloo<br>DANDARAGAN    | Electricity Networks<br>Corporation (Western Power) |
| 10010135 | Cooljarloo 2051 Brand HW<br>Cooljarloo | Optus Mobile Pty Limited                            |

2. Further to the sites listed in Table 4, there is one point-to-point link passing through the Project development area with its transmitter and receiver sites located outside the Project development area. This link is tied to Site ID's 9021036 (WAPOL site WEDGE 10092 Indian Ocean Drive COOLJARLOO, WA) and 9015816 (Telstra RBS 12946 Brand Hwy COOLJARLOO). It was included in the assessment that identified some of the WTGs shown in Table 5.

**Table 5. Proposed WTG locations within 400m perpendicular distance of ACMA-licensed point-to-point links**

| WTG Tag # | Perpendicular Distance to Nearest Point-to-Point Link from WTG Centreline (m) |
|-----------|-------------------------------------------------------------------------------|
| A22       | 300                                                                           |
| A25       | 255                                                                           |

### 3.2.1.2 Radar Services – Obstruction to Line-of-Sight Path

Meteorological radar services may be affected by wind turbines if they are located within a radar operating range and line of sight. The nearest meteorological radar station to the Project is located at Watheroo on Edawa Road (lat. 30.36° S, long. 116.29° E). According to the Bureau of Meteorology (2025):

*The Watheroo radar is currently undergoing an evaluation period of twelve months to confirm its coverage is unhindered in all directions. The location is expected to provide good radar coverage with minimal impact on the radar beam from any obstructions and provide a full 360 degree view. This will be confirmed after the evaluation period.*

The nearest Project WTGs to the Watheroo Radar Station are approximately 85 km away. While unlikely, the Project may produce anomalous propagation of the weather radar pattern (i.e., unwanted scattering effects) in the direction of the WTGs. Consultation with the Bureau of Meteorology is ongoing to mitigate any adverse effects created by the Project on their services.

### 3.2.1.3 Near-field Zone of Interference

Transmitting and receiving antennas have a reactive “near-field” zone, which requires freedom from any object that can conduct or absorb radio waves. If a wind turbine is located within the near-field of an antenna, it may adversely alter the antenna’s characteristics. The near-field region around an antenna has a reactive distance from the source. Electrically large antennas (e.g., a parabolic reflector) also has a radiating region (also known as the Fresnel region). The reactive and radiating near-fields for an antenna may be calculated using the following equations:

*extent of near field reactive region,  $R = \frac{\lambda}{2\pi}$  (eqn. 3.2.1.3a)*

*extent of near field radiating region,  $R = 0.5 \frac{D^2}{\lambda}$  (eqn. 3.2.1.3b)*

where,

R = distance (m)

$\lambda$  = wavelength of radiocommunications signal (m)

D = largest dimension of the antenna (m), usually taken as its length

An antenna's length, for optimal transmission, should be half the wavelength of the transmitted signal's frequency. In the absence of receiving stakeholder input on a project, this can be used as a conservative rule-of-thumb to assess whether a WTG is located within the near field of a radiocommunications site. When using equation 3.2.1.3b above, it was found that none of the proposed WTG locations on the Project are sited within this near field of any licensed radiocommunications site.

### 3.3 Consultation

The radiocommunications sites and their licensees listed in Appendix A were reviewed with the Client for determining an action plan for stakeholder consultation. The following stakeholders for EMI potential were consulted to support the Project's Development Application:

- Telstra
- Optus
- Bureau of Meteorology
- WA Police Service

All stakeholders consulted on the Project were provided with written communications summarising the details of the proposed Project and a request for their feedback, including any concerns they may have and any preferred mitigations. Also provided was an electronic geospatial data file showing the proposed WTG locations. A summary of all stakeholder consultation completed is provided in Appendix C.

### 3.4 Mitigation Strategy

The required setbacks calculated by SLR for point-to-point services and feedback received from consulted stakeholders has been incorporated into the Project's Development Application. This includes the identification of practical mitigations to limit EMI. The preferred mitigation measure is to adjust spacing and/or relocate WTGs in relation to any affected services (i.e., an avoidance strategy) while avoiding additional impacts the WA Planning and Development Act and WA Environment Protection Act (e.g., avoid clearing native vegetation).

Where WTG relocation is not possible due to other constraints, such as protection of nearby remnant native vegetation, then the affected stakeholders and radiocommunications licensees will be consulted to reach agreement on a set of mutually acceptable solutions, depending on the service type affected. As part of this process, the following mitigation measures may be considered:

- Selection of tower and nacelle shape and available construction materials, the use of absorbing (or non-reflective) materials from those available for blade construction;

- Replacement of existing radiocommunications service equipment with another less affected type (e.g., UHF link → Microwave link);
- Relocation of impacted services to another nearby existing radiocommunications transmitter/receiver site, or relocation of services to a new site requiring construction. Note that such a site may need to be established to provide telecommunications services to the wind farm itself, thereby providing a dual-purpose solution;
- Employ underground or overhead optical fibre as the telecommunications medium in lieu of a radiocommunications service, thereby avoiding the wind farm interference effects;
- Install enhanced signal filters in affected systems that adjust for spurious return signals created by WTGs;

Where the EMI effects cannot be easily quantified prior to Project construction, additional mitigation measures may include:

- Carry out baseline testing prior to construction to quantify existing signals where relevant (e.g., residential TV signals for receptors in close proximity to WTGs); and
- Carry out post-construction validation monitoring to identify other retrofit mitigations for the affected radiocommunications systems. These may include:
  - o Review and improve the receiving antenna orientation and state of repair,
  - o Installation of a more directional and/or higher gain antenna,
  - o Relocation of the antenna to a less affected position,
  - o Installation of an appropriate amplifier,
  - o Installation of a digital TV translator for an affected area,
  - o Provision of satellite TV services.

## 4.0 Key Findings

When applying the Guidelines (EPHC 2010), as included in the EMI assessment outlined in this report, it was found that no significant EMI impacts from the Cooljarloo Energy Park are anticipated. There are no WTGs proposed within the radiating near field of existing radiocommunications sites. All WTGs are appropriately positioned to avoid the potential for interference from point-to-point, point-to-area and meteorological radar services.

Further consultation with affected stakeholders will take place during the detailed design stage to verify the positioning of the WTGs with respect to radiocommunications services. These consultation activities will also account for those services that may have been decommissioned, upgraded or introduced after the time of Development Application lodgement. The mitigation strategy included in Section 3.4 will be used to facilitate continuation of the stakeholder consultation process for detailed design.

## 5.0 Closure

This report provides an assessment of the potential for electro-magnetic interference created by the proposed development of the Cooljarloo Energy Park. This assessment is designed to support the Project's Development Application lodgement with the relevant authorities.

Sincerely,

**SLR Consulting Australia**



**Ashley Gibson, CPEng**

Technical Director – Renewable Energy

# **Appendix A    ACMA Registered Radiocommunications Facilities within 50km**

## **Electro Magnetic Interference (EMI) Assessment**

**Cooljarloo Energy Park**

**DC Project SPV1 PTY Ltd as Trustee for DC Project Trust 1**

SLR Project No.: 675.073398.00002

17 September 2026



**Table A-1:** Australian Communications and Media Authority (ACMA), Register of Radiocommunications Licence (RRL) Sites within 50 km of Cooljarloo Energy Park (ACMA, retrieved January 2026)

| SITE ID | LATITUDE (°) | LONGITUDE (°) | NAME                                                                | SITE PRECISION | # ASSIGNMENTS |
|---------|--------------|---------------|---------------------------------------------------------------------|----------------|---------------|
| 26316   | -30.848834   | 115.268077    | Gunnery Range Observation Tower Defence Gunnery Range N of LANCELIN | Unknown        | 4             |
| 26321   | -30.841283   | 115.23005     | Navy Accom Area Defence Gunnery Range N of LANCELIN                 | Unknown        | 4             |
| 26323   | -30.849231   | 115.284277    | Navy Obs Post Defence Gunnery Range N of LANCELIN                   | Unknown        | 2             |
| 29807   | -30.853831   | 115.768071    | Rowes Road DANDARAGAN                                               | Unknown        | 0             |
| 30523   | -30.604714   | 115.857073    | 15km West North West MOORA                                          | Unknown        | 0             |
| 30525   | -30.715645   | 115.472746    | 21km West South West of DANDARAGAN                                  | Unknown        | 0             |
| 30527   | -30.928049   | 115.694236    | 30km South of DANDARAGAN                                            | Unknown        | 0             |
| 30534   | -30.649958   | 115.435982    | Cataby Mine Site DANDARAGAN                                         | Unknown        | 4             |
| 30535   | -30.746343   | 115.579624    | Cataby Road DANDARAGAN                                              | Unknown        | 0             |
| 30537   | -30.648292   | 115.447488    | Telstra Site Cooljarloo Dredge CATABY                               | Unknown        | 0             |
| 30538   | -30.650434   | 115.45466     | Telstra Site Cooljarloo Mine DANDARAGAN                             | Unknown        | 6             |
| 30540   | -30.737947   | 115.540903    | Telstra Exchange DANDARAGAN WEST                                    | Unknown        | 6             |
| 30548   | -30.665603   | 115.701567    | Rowes Road DANDARAGAN                                               | Unknown        | 8             |
| 30549   | -30.581222   | 115.755149    | Site R52 MUTHAWANDERY SPRING                                        | Unknown        | 18            |
| 30550   | -30.652939   | 115.458892    | Substation Cooljarloo DANDARAGAN                                    | Unknown        | 4             |



| SITE ID | LATITUDE (°) | LONGITUDE (°) | NAME                                                                        | SITE PRECISION       | # ASSIGNMENTS |
|---------|--------------|---------------|-----------------------------------------------------------------------------|----------------------|---------------|
| 30551   | -30.62637    | 115.564656    | Dampier Bunbury Gas Pipeline Mullering Rd<br>10km E of Brand Hwy DANDARAGAN | Within 100<br>metres | 36            |
| 30553   | -30.758363   | 115.598169    | Yandan Hill CATABY                                                          | Within 10<br>metres  | 30            |
| 30554   | -30.843544   | 115.626922    | Telstra/Police Site Walyer Walyer Hill CATABY                               | Unknown              | 42            |
| 30555   | -30.910801   | 115.689166    | Comm Site WALYOO HILL                                                       | Unknown              | 0             |
| 30557   | -30.638167   | 115.674074    | Wolba Rd DANDARAGAN                                                         | Unknown              | 4             |
| 30558   | -30.66693    | 115.385089    | Cooljarloo Mine Cataby WEDGE ISLAND                                         | Unknown              | 6             |
| 30577   | -30.744364   | 115.945967    | Barbeton West Rd MOORA                                                      | Within 100<br>metres | 6             |
| 30584   | -30.641116   | 115.982474    | Golf Course Road off Dandaragan Road<br>MOORA                               | Within 100<br>metres | 0             |
| 30605   | -30.889258   | 115.88816     | Western Power Site WALYOO                                                   | Unknown              | 2             |
| 30611   | -30.498801   | 115.068109    | Broadcast Site CERVANTES                                                    | Unknown              | 0             |
| 30612   | -30.501498   | 115.071055    | Broadcast Site cnr Seville and Aragon Streets<br>CERVANTES                  | Within 10<br>metres  | 7             |
| 30613   | -30.502842   | 115.071103    | Telstra Exchange CERVANTES                                                  | Unknown              | 47            |
| 30618   | -30.502058   | 115.070566    | Telstra Exchange CERVANTES                                                  | Unknown              | 0             |
| 30619   | -30.665472   | 115.134776    | Telstra Town Site Charles GREY                                              | Unknown              | 0             |
| 30620   | -30.388662   | 115.184145    | Verne Hill CERVANTES                                                        | Unknown              | 0             |
| 30688   | -30.396048   | 115.07005     | Telstra Customer Sheen 12 km N of<br>CERVANTES                              | Unknown              | 0             |



| SITE ID | LATITUDE (°) | LONGITUDE (°) | NAME                                                               | SITE PRECISION       | # ASSIGNMENTS |
|---------|--------------|---------------|--------------------------------------------------------------------|----------------------|---------------|
| 30737   | -30.467491   | 115.659726    | Richards 18 km SE of BADGINGARRA                                   | Unknown              | 0             |
| 30740   | -30.413067   | 115.503687    | Comm Site BADGINGARRA                                              | Unknown              | 0             |
| 30742   | -30.413122   | 115.503759    | Dampier to Bunbury Gas Pipeline<br>BADGINGARRA                     | Within 100<br>metres | 34            |
| 30745   | -30.517227   | 115.670508    | CALM Site Bald Hill DANDARAGAN                                     | Unknown              | 4             |
| 30746   | -30.36209    | 115.287635    | Cowalla Peak Rd JURIEN BAY                                         | Unknown              | 10            |
| 30748   | -30.329669   | 115.610893    | Dinner Hill BADGINGARRA                                            | Unknown              | 4             |
| 30750   | -30.440937   | 115.386221    | Shire Site High Hill Farm DANDARAGAN                               | Unknown              | 20            |
| 36736   | -30.887463   | 115.678812    | Dampier to Bunbury Gas Pipeline WALYOO                             | Unknown              | 28            |
| 40905   | -30.391075   | 115.499235    | Broadcast Site BADGINGARRA                                         | Within 10<br>metres  | 1             |
| 47255   | -30.598786   | 115.934789    | Cnr Dandaragon & Princes MOORA                                     | Unknown              | 0             |
| 47557   | -30.701009   | 115.860347    | Rowes Road MOORA                                                   | Unknown              | 4             |
| 52839   | -30.850794   | 115.273646    | Defence Site LANCELIN                                              | Unknown              | 4             |
| 134030  | -30.537164   | 115.499811    | Broadcast Site Waddi Bush Resort 17 km S of<br>BADGINGARRA         | Unknown              | 0             |
| 137734  | -30.505853   | 115.058622    | West of settlement adjacent to beach rd<br>CERVANTES               | Unknown              | 0             |
| 138194  | -30.764617   | 115.285613    | Beacon Road Dangaragan West                                        | Within 10<br>metres  | 0             |
| 138793  | -30.899594   | 115.414751    | Pump Station West of Nilgen & Dingo Roads<br>Intersection LANCELIN | Within 10<br>metres  | 2             |



| SITE ID | LATITUDE (°) | LONGITUDE (°) | NAME                                                      | SITE PRECISION    | # ASSIGNMENTS |
|---------|--------------|---------------|-----------------------------------------------------------|-------------------|---------------|
| 150669  | -30.505154   | 115.066442    | Cnr Seville & Weston St. CERVANTES                        | Unknown           | 0             |
| 204740  | -30.839573   | 115.229026    | Caretakers House Lancelin Military Training Area LANCELIN | Unknown           | 6             |
| 305324  | -30.503543   | 115.07335     | cnr Hansen Bay Road & Seville Street CERVANTES            | Within 10 metres  | 0             |
| 404777  | -30.507144   | 115.066715    | 6 Picasso Place CERVANTES                                 | Within 100 metres | 1             |
| 600418  | -30.488989   | 115.071345    | Lot 617-618 Beach Rd CERVANTES                            | Unknown           | 0             |
| 600797  | -30.399896   | 115.553663    | Telstra Exchange BADGINGARRA                              | Unknown           | 2             |
| 600806  | -30.503889   | 115.066258    | Ambulance Centre Weston Street CERVANTES                  | Unknown           | 2             |
| 600873  | -30.820063   | 115.195944    | Telstra Customer Wedge Island Pt LANCELIN                 | Unknown           | 2             |
| 600876  | -30.652797   | 115.448625    | Comms Tower Cooljarloo Minesite CATABY                    | Within 10 metres  | 14            |
| 600924  | -30.666222   | 115.443892    | Cooljarloo Minesite Mullering farm CATABY                 | Within 10 metres  | 2             |
| 601222  | -30.836016   | 115.748683    | Rowes Road DANDARAGAN                                     | Unknown           | 2             |
| 602202  | -30.752427   | 115.558642    | Roadhouse CATABY                                          | Unknown           | 2             |
| 602497  | -30.772195   | 115.295226    | Telstra Customer Dawe DANDARAGAN WEST                     | Unknown           | 2             |
| 602655  | -30.657674   | 115.773686    | Dandaragan Olives Kayanba Road DANDARAGAN                 | Unknown           | 0             |
| 602888  | -30.639776   | 115.746229    | Telstra CMTS Site DANDARAGAN                              | Unknown           | 24            |



| SITE ID | LATITUDE (°) | LONGITUDE (°) | NAME                                                               | SITE PRECISION    | # ASSIGNMENTS |
|---------|--------------|---------------|--------------------------------------------------------------------|-------------------|---------------|
| 602951  | -30.453539   | 115.189401    | Telstra Customer Hodby Bibby Springs 13 km NW of CERVANTES         | Unknown           | 2             |
| 603212  | -30.878667   | 115.408825    | Lot 3909 Nilgen Road LANCELIN                                      | Unknown           | 2             |
| 9000714 | -30.454716   | 115.83279     | 2504 Comberdale West Road BADGINGARRA                              | Within 100 metres | 0             |
| 9001039 | -30.666755   | 115.707549    | Water Treatment Plant Off Dandaragan Road DANDARAGAN               | Within 10 metres  | 4             |
| 9001260 | -30.605285   | 115.70643     | Coalara Park 765 Coalara Road BADGINGARRA                          | Within 100 metres | 0             |
| 9001631 | -30.612256   | 115.880699    | Kolburn Water Treatment Plant Dandaragan Road 11.8km West of MOORA | Within 100 metres | 2             |
| 9003097 | -30.500696   | 115.080929    | Cervantes 11 Gazeley Way CERVANTES                                 | Within 10 metres  | 32            |
| 9004256 | -30.448098   | 115.492314    | DB Gas Pipeline Site 16 adj Brand Hwy 7 km S of BADGINGARRA        | Within 10 metres  | 0             |
| 9004406 | -30.627619   | 115.564231    | DB Gas Pipeline Site 17 7.5 km W of COWALLA HILL                   | Within 10 metres  | 0             |
| 9006894 | -30.605698   | 115.155801    | Telstra Site Nambung National Park, 20 km S of CERVANTES           | Within 100 metres | 2             |
| 9009751 | -30.503142   | 115.071827    | Water Tank Site Office 1 Seville Street CERVANTES                  | Within 10 metres  | 4             |
| 9010870 | -30.459496   | 115.565524    | Nixon MDB 8-1 Site (45km WNW of) MOORA                             | Within 10 metres  | 0             |
| 9012265 | -30.730786   | 115.575185    | Optus Site Cataby 324 Cataby Road CATABY                           | Within 10 metres  | 30            |



| SITE ID | LATITUDE (°) | LONGITUDE (°) | NAME                                                                          | SITE PRECISION    | # ASSIGNMENTS |
|---------|--------------|---------------|-------------------------------------------------------------------------------|-------------------|---------------|
| 9012418 | -30.411473   | 115.504743    | Optus Site Badgingarra 504 North West Road BADGINGARRA                        | Within 10 metres  | 26            |
| 9012712 | -30.639521   | 115.744939    | Optus Site Dandaragan 407 Kayanaba Road DANDARAGAN                            | Within 10 metres  | 34            |
| 9015497 | -30.744357   | 115.945527    | Orkneyside Barberton West Road MOORA                                          | Within 10 metres  | 2             |
| 9015816 | -30.485756   | 115.488275    | Telstra RBS 12946 Brand Hwy COOLJARLOO                                        | Within 10 metres  | 10            |
| 9016215 | -30.868767   | 115.393504    | Wind Turbine 3 Nilgen Rd LANCELIN                                             | Within 10 metres  | 2             |
| 9019443 | -30.624098   | 115.641985    | Shire of Dandaragan mast Badgingarra Road 8 KM northwest of DANDARAGAN        | Within 100 metres | 2             |
| 9020135 | -30.660107   | 115.440223    | DGPS Site Cooljarloo Mine Off Brand Highway, 13 km NW of CATABY               | Within 10 metres  | 4             |
| 9020319 | -30.973675   | 115.420115    | NBN Co Site 424 Nilgen Road NILGEN                                            | Within 10 metres  | 89            |
| 9020902 | -30.819344   | 115.931088    | Yathroo-R275 Boundary Rd YATHROO                                              | Within 10 metres  | 8             |
| 9020923 | -30.712944   | 115.816681    | DGPS Site Lupin Valley Road 4 km SSW of Kayanaba Road Intersection DANDARAGAN | Within 10 metres  | 2             |
| 9020972 | -30.510961   | 115.670147    | WAPOL site 19km East of DANDARAGAN 233 Mundergar Road, DANDARAGAN, WA, 6507   | Within 100 metres | 0             |
| 9021036 | -30.763667   | 115.285933    | WAPOL site WEDGE 10092 Indian Ocean Drive COOLJARLOO, WA                      | Within 100 metres | 12            |



| SITE ID | LATITUDE (°) | LONGITUDE (°) | NAME                                                                        | SITE PRECISION    | # ASSIGNMENTS |
|---------|--------------|---------------|-----------------------------------------------------------------------------|-------------------|---------------|
| 9021037 | -30.906933   | 115.676976    | DGPS Site 581 Walyoo Road YATHROO                                           | Within 10 metres  | 2             |
| 9021038 | -30.391915   | 115.63533     | DGPS Site 624 Wathingarra Road BADGINGARRA                                  | Within 10 metres  | 2             |
| 9021040 | -30.510969   | 115.670135    | WAPOL site 19km East of DANDARAGAN 233 Mundergar Road, DANDARAGAN, WA, 6507 | Within 100 metres | 8             |
| 9021122 | -30.611881   | 115.39454     | S12 Feed Prep Cooljarloo Mine CATABY                                        | Within 10 metres  | 2             |
| 9021306 | -30.61204    | 115.213462    | Nambung Park Unnamed off Wongonderrah Rd DANDARAGAN, WA 6521                | Within 100 metres | 6             |
| 9021904 | -30.480106   | 115.66595     | 1882 Northwest Road DANDARAGAN                                              | Within 100 metres | 0             |
| 9909330 | -30.623718   | 115.46524     | Mobile Spectrum Licensing Site BRAND HIGHWAY                                | Unknown           | 0             |
| 9911904 | -30.372674   | 115.488995    | Mobile Spectrum Licensing Site BRAND HIGHWAY                                | Unknown           | 0             |
| 9911920 | -30.458572   | 115.490735    | Mobile Spectrum Licensing Site BRAND HIGHWAY                                | Unknown           | 0             |
| 9911950 | -30.537534   | 115.461186    | Mobile Spectrum Licensing Site BRAND HIGHWAY                                | Unknown           | 0             |
| 9911971 | -30.730682   | 115.527884    | Mobile Spectrum Licensing Site BRAND HIGHWAY                                | Unknown           | 0             |
| 9911981 | -30.781838   | 115.572269    | Mobile Spectrum Licensing Site BRAND HIGHWAY                                | Unknown           | 0             |



| SITE ID  | LATITUDE (°) | LONGITUDE (°) | NAME                                                      | SITE PRECISION    | # ASSIGNMENTS |
|----------|--------------|---------------|-----------------------------------------------------------|-------------------|---------------|
| 9911999  | -30.872977   | 115.626273    | Mobile Spectrum Licensing Site BRAND HIGHWAY              | Unknown           | 0             |
| 9912015  | -30.966195   | 115.691583    | Mobile Spectrum Licensing Site BRAND HIGHWAY              | Unknown           | 0             |
| 10004621 | -30.90077    | 115.42295     | 1289 Nilgen Road NILGEN                                   | Within 10 metres  | 14            |
| 10006147 | -30.681536   | 115.974723    | PAL Site Airstrip Rd Moora Airport MOORA 6510             | Within 10 metres  | 2             |
| 10006739 | -30.712744   | 115.171344    | Indian Ocean Dr 6km South of Grey Wedge Island            | Within 100 metres | 0             |
| 10007235 | -30.3963     | 115.3124      | DGPS Badgingarra Wind Farm Seville Street Badgingarra     | Within 10 metres  | 0             |
| 10007295 | -30.909677   | 115.681941    | Walyoo Farm 8402 Brand Highway YATHROO                    | Within 10 metres  | 2             |
| 10007862 | -30.467578   | 115.667269    | Telstra Site 2041 North West Road Badgingarra Dandaragan  | Within 10 metres  | 24            |
| 10008696 | -30.747434   | 115.533865    | Y036 Cataby                                               | Within 10 metres  | 0             |
| 10009079 | -30.7253     | 115.585277    | Telstra Site 4km East of Cataby, off Cataby Rd Dandaragan | Within 10 metres  | 12            |
| 10010135 | -30.650392   | 115.45522     | Cooljarloo 2051 Brand HW Cooljarloo                       | Within 10 metres  | 2             |
| 10010560 | -30.812967   | 115.5794      | Iluka Mine Site SouthTrailer 9967 Brand Highway MIMEGARRA | Within 100 metres | 6             |



| SITE ID  | LATITUDE (°) | LONGITUDE (°) | NAME                                                                                      | SITE PRECISION    | # ASSIGNMENTS |
|----------|--------------|---------------|-------------------------------------------------------------------------------------------|-------------------|---------------|
| 10010561 | -30.744033   | 115.55055     | Iluka Mine Site NorthTrailer off Brand Highway 1 km SE of Cataby Road Intersection CATABY | Within 100 metres | 6             |
| 10010562 | -30.76525    | 115.54255     | Haul Road Tower Iluka Mine Site Mimegarra Road CATABY                                     | Within 100 metres | 12            |
| 10010847 | -30.487814   | 115.377936    | Badgingarra (EMU Downs Wind Farm) EMU Downs Wind Farm Badgingarra                         | Within 10 metres  | 2             |
| 10010848 | -30.440247   | 115.388406    | Badgingarra (Badgingarra Wind Farm) Badgingarra Wind Farm Badgingarra                     | Within 10 metres  | 4             |
| 10010913 | -30.765089   | 115.285794    | Wedge Island 10092 Indian Ocean Drive COOLJARLOO                                          | Within 10 metres  | 12            |
| 10011351 | -30.742106   | 115.53999     | DGPS Site off Brand Hwy CATABY                                                            | Within 10 metres  | 2             |
| 10011463 | -30.754426   | 115.537352    | DGPS Site via Brand Hwy 2km S of CATABY                                                   | Within 10 metres  | 0             |
| 10011666 | -30.899719   | 115.414724    | DGPS Nilgen 5632 Indian Ocean Drive Nilgen                                                | Within 10 metres  | 2             |
| 10012495 | -30.750614   | 115.535588    | Cataby concentrator 1.7 km SSW of Cataby                                                  | Within 10 metres  | 2             |
| 10015644 | -30.65039    | 115.45458     | Cooljarloo Off the Brand Highway COOLJARLOO                                               | Within 10 metres  | 34            |
| 10020018 | -30.768186   | 115.642567    | 757 Yandin Road Dandaragan                                                                | Within 10 metres  | 0             |
| 10021009 | -30.729281   | 115.730794    | Yandin Wind Farm Turbine 233223 Dambadjie Road Dandaragan                                 | Within 10 metres  | 0             |



| SITE ID  | LATITUDE (°) | LONGITUDE (°) | NAME                                                           | SITE PRECISION   | # ASSIGNMENTS |
|----------|--------------|---------------|----------------------------------------------------------------|------------------|---------------|
| 10021199 | -30.81747    | 115.931184    | Koojan Downs Off Boundary Rd YATHROO                           | Within 10 metres | 0             |
| 10021412 | -30.768357   | 115.631281    | Yandin Wind Farm Turbine 233252 757 Yandin Road Dandaragan     | Within 10 metres | 2             |
| 10021961 | -30.8218     | 115.9267      | Yathroo 45m Lattice Tower Boundary Rd near Koojan W Rd YATHROO | Within 10 metres | 0             |
| 10024848 | -30.96943    | 115.41341     | Nilgen Tank Nilgen Road NILGEN                                 | Within 10 metres | 2             |
| 10025044 | -30.848289   | 115.61951     | Starlink Earth Station Brand Highway, 14 Km SE of CATABY       | Within 10 metres | 10            |
| 10027426 | -30.78046    | 115.8898      | FSG Site Yathroo Off Barbeton W Rd YATHROO                     | Within 10 metres | 0             |
| 10027427 | -30.81971    | 115.900061    | FSG Site Yathroo East Off Boundary Rd YATHROO                  | Within 10 metres | 0             |
| 10031806 | -30.39364    | 115.27842     | HILL RIVER SOUTH Cadda Road Nambung                            | Within 10 metres | 20            |
| 10033038 | -30.84091    | 115.75065     | Yathroo 1202 Dandaragan Rd YATHROO                             | Within 10 metres | 28            |
| 10033691 | -30.84482    | 115.61349     | Cataby Pit 1 Trailer, 9294 Brand Highway YATHROO               | Within 10 metres | 6             |
| 10034033 | -30.81487    | 115.58101     | CT002 Pit 1 Tower, 9967 Brand Highway Mimegarra                | Within 10 metres | 2             |
| 10042329 | -30.43729    | 115.523563    | Logic IT 40m Mast, 14314 Brand Highway BADGINGARRA             | Within 10 metres | 0             |



| SITE ID  | LATITUDE (°) | LONGITUDE (°) | NAME                                                          | SITE PRECISION   | # ASSIGNMENTS |
|----------|--------------|---------------|---------------------------------------------------------------|------------------|---------------|
| 10042330 | -30.66216    | 115.75024     | Logic IT 40m Mast, Lot 1142 adj. 245 Kayanaba Road DANDARAGAN | Within 10 metres | 0             |
| 10042475 | -30.828266   | 115.907846    | Koojan Downs Feedlot 1097 Boundary Rd YATHROO                 | Within 10 metres | 2             |
| 10042708 | -30.493574   | 115.068771    | 37 Catalonia St CERVANTES                                     | Within 10 metres | 2             |

**Table A-2:** Radio & TV Broadcast Transmitters (ACMA, retrieved Jan 2026)

Site ID: 150533

Site Name: Council Site off Nilgen Rd NILGEN

**Area Served: Lancelin**

Latitude: 30°59'7.84"S

Longitude: 115°23'7.57"E

Distance from this location to nearest Project wind turbine = 31 km.

| Purpose        | Callsign | Frequency   | Power | Polarisation | Antenna Pattern | Antenna Height |
|----------------|----------|-------------|-------|--------------|-----------------|----------------|
| Retransmission | SBS40    | 613.500 MHz | 250 W | Horizontal   | Directional     | 62 m           |
| Retransmission | ABC41    | 620.500 MHz | 250 W | Horizontal   | Directional     | 62 m           |
| Retransmission | TVW42    | 627.500 MHz | 250 W | Horizontal   | Directional     | 62 m           |
| Retransmission | STW43    | 634.500 MHz | 250 W | Horizontal   | Directional     | 62 m           |
| Retransmission | NEW44    | 641.500 MHz | 250 W | Horizontal   | Directional     | 62 m           |



| Purpose    | Callsign | Frequency | Power | Polarisation | Antenna Pattern | Antenna Height |
|------------|----------|-----------|-------|--------------|-----------------|----------------|
| Commercial | 6FMS     | 102.3 MHz | 150 W | Vertical     | Omnidirectional | 40 m           |
| Commercial | 6SAT     | 103.9 MHz | 150 W | Vertical     | Omnidirectional | 40 m           |

Site ID: 30613

Site Name: Telstra Exchange CERVANTES

**Area Served: Cervantes**

Latitude: 30°59'7.84"S

Longitude: 115°23'7.57"E

Distance from this location to nearest Project wind turbine = 25 km.

| Purpose  | Callsign | Frequency   | Power | Polarisation | Antenna Pattern | Antenna Height |
|----------|----------|-------------|-------|--------------|-----------------|----------------|
| National | ABC47    | 662.625 MHz | 3.5 W | Vertical     | Omnidirectional | 47 m           |



# Appendix B   Figures

## Electro Magnetic Interference (EMI) Assessment

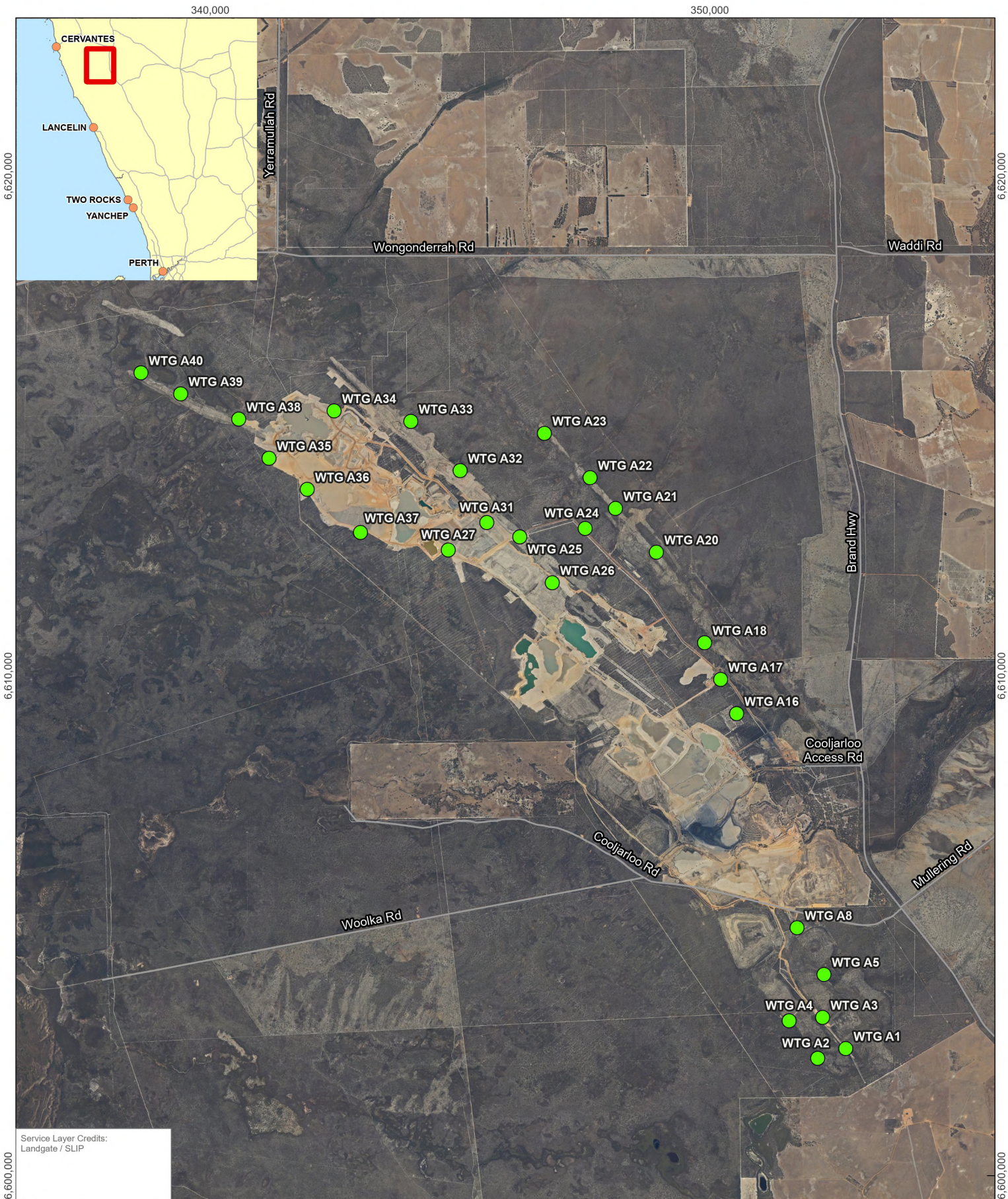
Cooljarloo Energy Park

DC Project SPV1 PTY Ltd as Trustee for DC Project Trust 1

SLR Project No.: 675.073398.00002

17 September 2026





Service Layer Credits:  
Landgate / SLIP



Coordinate System: GDA2020 MGA Zone 50

Scale: 1:100,000 at A4

Project Number: 675.073398

Date Drawn: 4/09/2026

Drawn by: JH

#### LEGEND

- Wind Turbine Generators
- Roads

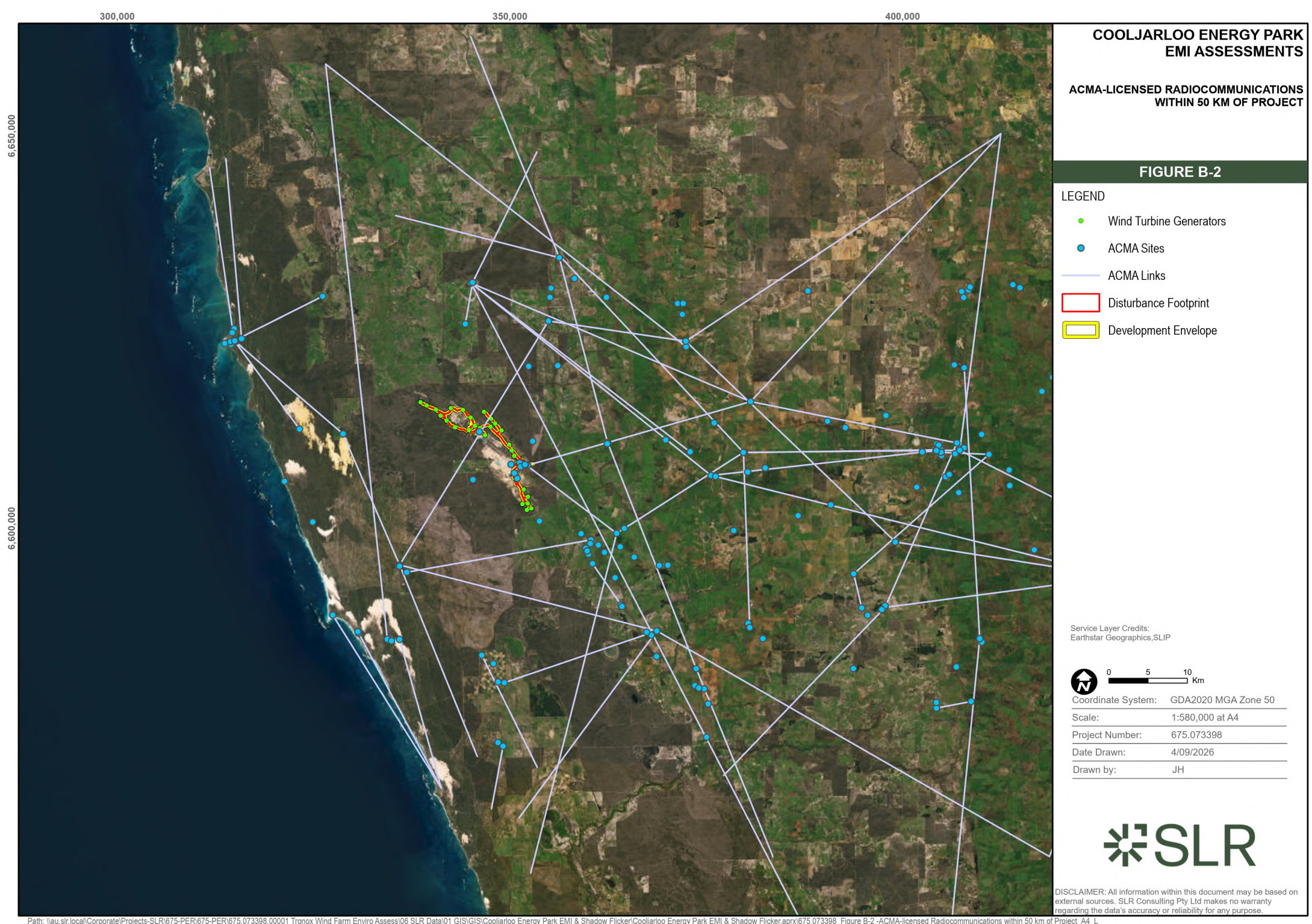
#### COOLJARLOO ENERGY PARK EMI ASSESSMENTS

#### WIND TURBINE GENERATOR ARRANGEMENT



DISCLAIMER: All information within this document may be based on external sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose.

**FIGURE B-1**



**COOLJARLOO ENERGY PARK  
EMI ASSESSMENTS**

**ACMA-LICENSED RADIOCOMMUNICATIONS  
WITHIN 50 KM OF PROJECT**

**FIGURE B-2**

**LEGEND**

- Wind Turbine Generators
- ACMA Sites
- ACMA Links
- ▭ Disturbance Footprint
- ▭ Development Envelope

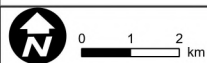
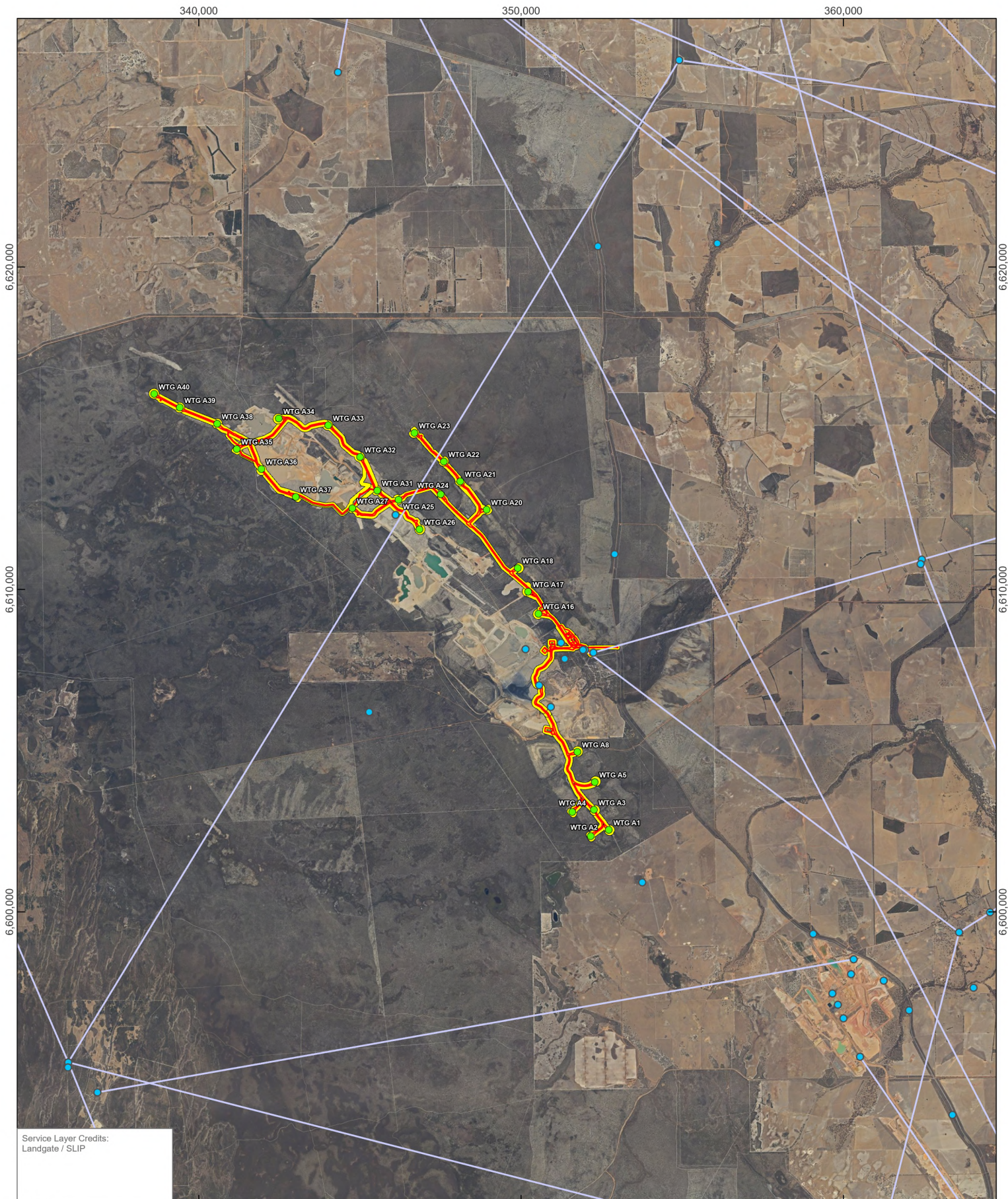
Service Layer Credits:  
Earthstar Geographics, SLIP



|                    |                     |
|--------------------|---------------------|
| Coordinate System: | GDA2020 MGA Zone 50 |
| Scale:             | 1:580,000 at A4     |
| Project Number:    | 675.073398          |
| Date Drawn:        | 4/09/2026           |
| Drawn by:          | JH                  |



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Coordinate System: GDA2020 MGA Zone 50

Scale: 1:155,000 at A4

Project Number: 675.073398

Date Drawn: 4/09/2026

Drawn by: JH

#### LEGEND

- Wind Turbine Generators
- ACMA Sites
- ACMA Links

- Development Envelope
- Disturbance Footprint

### COOLJARLOO ENERGY PARK EMI ASSESSMENTS

#### PROJECT DEVELOPMENT AREA



DISCLAIMER: All information within this document may be based on external sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose.

**FIGURE B-3**

# **Appendix C   Stakeholder Consultation Summary**

## **Electro Magnetic Interference (EMI) Assessment**

**Cooljarloo Energy Park**

**DC Project SPV1 PTY Ltd as Trustee for DC Project Trust 1**

SLR Project No.: 675.073398.00002

17 September 2026



**Table C-1. Cooljarloo Energy Park, Stakeholder Consultation Summary for Electromagnetic Interference (EMI)**

| Stakeholder Name                         | Initial Contact Date | Format | Project Information Provided                                                                                                         | Stakeholder Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Project Development Next Steps                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------|----------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Telstra Limited<br>(Wind Farm Enquiries) | 07/01/26             | Email  | Project information email requesting feedback.<br>Native format geospatial data showing the Project's wind turbine (revised) layout. | <ol style="list-style-type: none"> <li>1. There are no expected impacts to Telstra's Mobile network due to this wind farm based on the turbine locations provided.</li> <li>2. Based on the turbine locations provided and information regarding Telstra's existing point to point radio links obtained from Waypoint and maprad.io, the proposed wind farm should not impact on any of Telstra's existing point to point radio links.</li> <li>3. A detailed analysis of the full power coordination impact (Low Frequency Induction (LFI) and/or Earth Potential Rise (EPR)) of the wind farm development is required. This includes location of the wind farm switch yard, the route and potential of any associated HV transmissions lines and the LFI and EPR impact on any Telstra plant they may affect.</li> <li>4. It is recommended that you contact Before You Dig</li> </ol> | The requested detailed analysis will be incorporated into the Project's detailed design activities. The analysis relies on having specific material and component details that will only become available after detailed design has commenced. A copy of the analysis report, once available, will be provided to Telstra for comment and acceptance. |



| Stakeholder Name               | Initial Contact Date | Format | Project Information Provided                                                                                                                                              | Stakeholder Response                                                                                                                                                                                                                                                                                                                             | Project Development Next Steps |
|--------------------------------|----------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                                |                      |        |                                                                                                                                                                           | Australia, so you are aware of the underground assets in the area. They will provide you with the location of Telstra's as well as any other utilities' underground assets.                                                                                                                                                                      |                                |
| Optus Limited                  | 06/01/26             | Email  | Project information email requesting feedback.<br>Native format geospatial data showing the Project's wind turbine (revised) layout                                       | No concerns raised.                                                                                                                                                                                                                                                                                                                              | No further actions proposed.   |
| Bureau of Meteorology          | 26/06/26             | Email  | Project information email requesting feedback.<br>Standard BoM wind farm data form.<br>Native format geospatial data showing the Project's wind turbine (revised) layout. | "Our assessment of the current Cooljarloo Energy Project has determined that, under normal atmospheric conditions, it remains a manageable risk to Bureau radar and radiocommunication assets."<br>"As a result, the Bureau has no objections to the proposed development proceeding, as detailed in the documentation provided for assessment." | No further actions proposed.   |
| Western Australia Police Force | 06/01/26             | Email  | Project information email requesting feedback.<br>Native format geospatial data showing the Project's wind turbine (revised) layout.                                      | WA Police stated on 29/06/26, "Based on the information currently available, RES did not identify any immediate or material concerns that would preclude the                                                                                                                                                                                     | No further actions proposed.   |



| Stakeholder Name | Initial Contact Date | Format | Project Information Provided                                                                                                                                                                                                                             | Stakeholder Response                                                                                                                                                                                                                                                                                                               | Project Development Next Steps |
|------------------|----------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                  |                      |        | Standard WA Police change request form.<br>Through subsequent correspondence, WA Police were also provided with technical specifications to demonstrate EMI compatibility between existing WA Police radiocommunications and the proposed wind turbines. | proposed development from proceeding from an EMI perspective."<br>"Electromagnetic compatibility compliance is demonstrated through IEC 61400-1, IEC 61000-6-2 and IEC 61000-6-4 as referenced in Section 2 and Section 4.1 of the Envision EMC report, and further supported by the SLR assessment and associated IEC standards." |                                |



## Appendix D    References

### **Electro Magnetic Interference (EMI) Assessment**

**Cooljarloo Energy Park**

**DC Project SPV1 PTY Ltd as Trustee for DC Project Trust 1**

SLR Project No.: 675.073398.00002

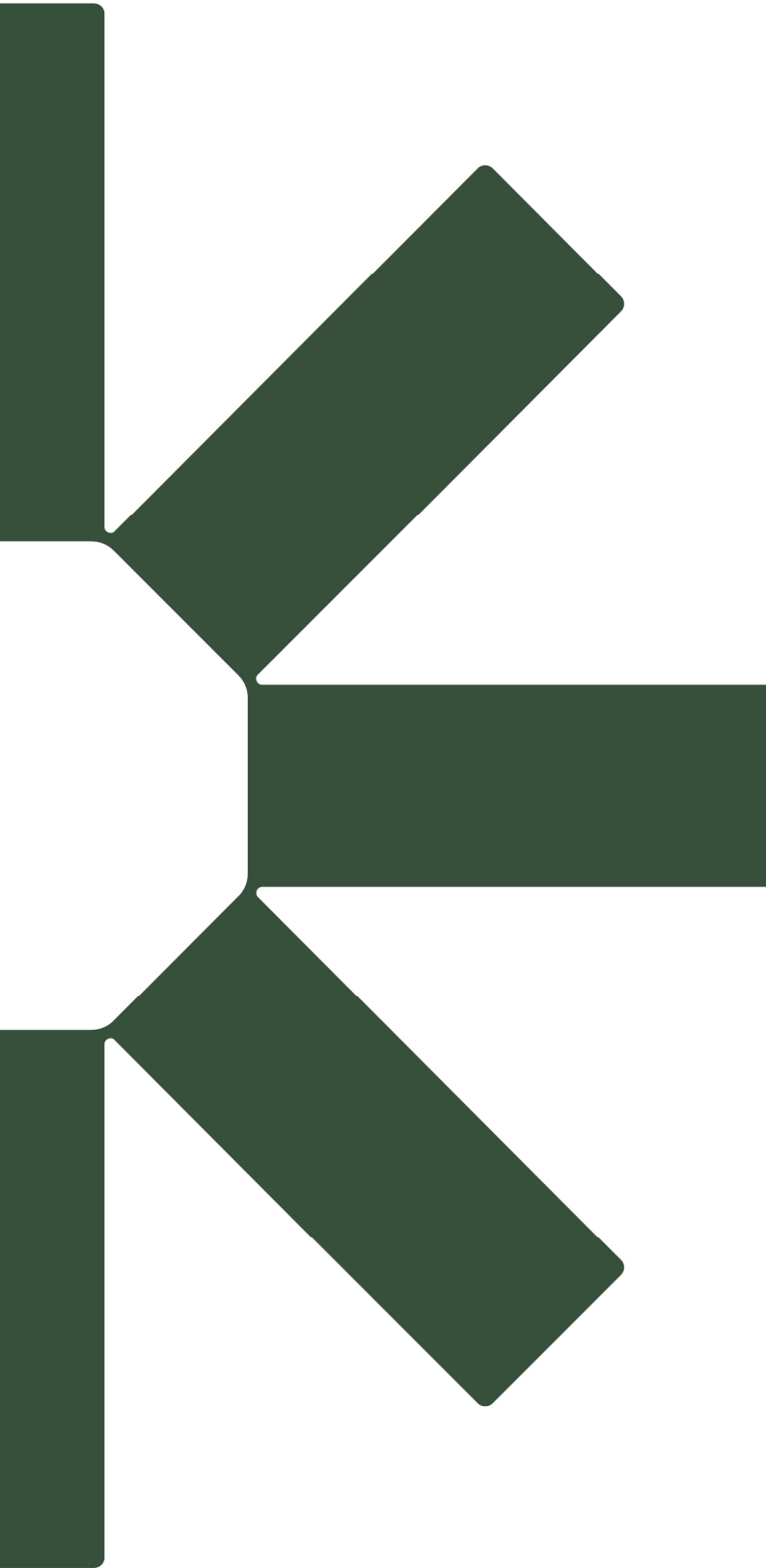
17 September 2026



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