

# Rosefield Solar Farm

## Design Commitments [\(Tracked\)](#)

EN010158/APP/5.9.[54](#)  
Revision [054](#)  
Deadline [32](#)  
[April-May](#) 2026  
Rosefield Energyfarm Ltd

APFP Regulation 5(2)(q)  
Planning Act 2008  
Infrastructure Planning  
(Applications: Prescribed Forms  
and Procedure) Regulations 2009



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# 1. Introduction

## 1.1. Background

- 1.1.1. This Design Commitments document has been prepared on behalf of Rosefield Energyfarm Limited ('the Applicant') to support the application for the Development Consent Order (DCO) for the construction, operation (including maintenance), and decommissioning of Rosefield Solar Farm (hereafter referred to as the 'Proposed Development').
- 1.1.2. This document has been updated at Deadline ~~32~~ to add design commitments D25 in response to Written Representations from Preston Farms and TCS Biosciences Ltd [REP2-107] (see the response reference 5.5.8 of the Applicant's Response to Deadline 2 Submissions [EN010158/APP/8.18] for further detail), F6 in response to discussions with Buckinghamshire Council and G3 in response to Written Representations from Philip Claridge on behalf of A.E.J. & F.J. Claridge [REP2-123] amend design commitment G2 to indicate a minimum width of corridor through the Solar PV development in Field E23 in response to Written Representations from the tenants. References to other application documents have not been updated from the original submission. Please refer to the **Guide to the Application [EN010158/APP/1.2.87]** for the list of current versions of documents.
- 1.1.3. The purpose of this document is to set out design commitments and secure the parameters for the detailed design of the Proposed Development as set out in **Environmental Statement (ES) Volume 1, Chapter 3: Proposed Development Description [EN010158/APP/6.1]**. Design commitments and parameters are needed to secure elements of the design which are not covered by other Control Documents and to deliver the conclusions of the **ES [EN010158/APP/6.1 – 6.4]**. They include commitments relating to the size, type and colour of elements of the Proposed Development, and inclusion of setbacks from sensitive receptors.
- 1.1.4. This document should be read alongside the **Draft DCO [EN010158/APP/3.1]**, the **Design Approach Document [EN010158/APP/5.8]** (which sets out the main design principles and design process undertaken for the Proposed Development), and **ES Volume 1, Chapter 3: Proposed Development Description [EN010158/APP/6.1]**.

## 1.2. The Order Limits

- 1.2.1. The extent of the Order Limits are shown in **Location, Order Limits and Grid Coordinate Plans [EN010158/APP/2.1]** and the Proposed Development is described in full in **ES Volume 1, Chapter 3: Proposed**

**Development Description [EN010158/APP/6.1]** and shown spatially on the **Works Plans [EN010158/APP/2.3]**.

### 1.3. The Proposed Development

- 1.3.1. The Proposed Development comprises the construction, operation (including maintenance), and decommissioning of solar photovoltaic ('PV') development and energy storage, together with associated infrastructure and an underground cable connection to the National Grid East Claydon Substation.
- 1.3.2. The Proposed Development would include a generating station with a total exporting capacity exceeding 50 megawatts ('MW').
- 1.3.3. The location of the Proposed Development is shown on **ES Volume 3, Figure 1.1: Location Plan [EN010158/APP/6.3]**. The Proposed Development would be located within the Order Limits (the land shown on the **Works Plans [EN010158/APP/2.3]** within which the Proposed Development can be carried out). The Order Limits plan is provided as **ES Volume 3, Figure 1.2: Order Limits [EN010158/APP/6.3]**. Land within the Order Limits is known as the 'Site'.

### 1.4. Flexibility

- 1.4.1. When the detailed design for the Proposed Development is submitted for approval to the relevant planning authority (if DCO consent is granted), those details must be in accordance with the design commitments and parameters set out within this document.
- 1.4.2. Securing the detailed design post-consent is necessary to achieve technological and design flexibility for the proposed development because technology is rapidly evolving, such as the output of the individual solar PV modules and the capacity of the inverters and transformers.
- 1.4.3. The Proposed Development seeks to allow provisions in the DCO for technological innovation and improvements that may be realised during the procurement and construction phase to ensure that sustainable techniques and technologies will be prioritised in construction and operation and positively contribute to delivering the UK to net zero by 2050.
- 1.4.4. The Environmental Impact Assessment presented in the **ES [EN010158/APP/6.1 – 6.4]** has been undertaken on the maximum (or minimum where appropriate) extents of the design commitments and parameters set out within this document, which reflect the likely worst-case scenario for the Proposed Development. This approach is known as the use of the 'Rochdale Envelope' which is described in footnote 106 to paragraph 4.3.12 of the Overarching National Policy Statement for Energy (NPS EN-1) as being an assessment 'sufficient to fully assess the project's

impact on the environment and establish clearly defined worst case parameters for the assessment'. As the detailed design of the Proposed Development will be in accordance with these assessed design commitments and parameters, the conclusions of the **ES** will be delivered.

- 1.4.5. Paragraph 4.3.11 of NPS EN-1 recognises that in some instances, it may not be possible at the time of the application for development consent for all aspects of the proposal to have been settled in precise detail. Paragraph 4.3.12 continues that where some details are still to be finalised, the **ES** should set out to the best of the applicant's knowledge, what the likely worst-case environmental, social, and economic effects of a project may be and assess on that basis to ensure that the impacts of the Proposed Development, as it may be constructed, have been properly assessed.
- 1.4.6. Paragraph 2.10.70 of NPS EN-3 also accepts that not all aspects of a project may have been settled in precise detail at the point of application. Such aspects including the type, number and dimensions of panels, layout and spacing are among aspects of the Proposed Development which are not settled at the time of DCO Application down to a final design. The extent of flexibility sought by the Applicant is described in **ES Volume 1, Chapter 5: Approach to the EIA [EN010158/APP/6.1]**.
- 1.4.7. Due to the rapidly evolving technology within the solar photovoltaics and energy storage system sectors, the in-built flexibility allows for the most up-to-date technology to be utilised for the Proposed Development. The full detailed design at the point of construction will be managed post-consent through the requirements set out in Schedule 2 to the **Draft DCO [EN010158/APP/3.1]**.
- 1.4.8. The development envelope is controlled by the **Works Plans [EN010158/APP/2.3]** and the design commitments and parameters set out in Tables 1 and 2 below. In addition to the design commitments and parameters set out in this document, Design Guidance has also been established for the Proposed Development, as set out in the **Design Approach Document [EN010158/APP/5.8]**. Management Objectives to provide a framework for the operational management of the Green and Blue Infrastructure of the Proposed Development have also been developed, as set out in the **Outline Landscape and Ecological Management Plan [EN010158/APP/7.6]**.

## 1.5. Securing Mechanisms

- 1.5.1. Assuming that the DCO is granted, the design commitments and parameters will be secured with respect to the detailed design for the Proposed Development as follows, in order to provide confidence to the relevant planning authority that the environmental effects would be the same or no worse than those assessed and reported in the ES:

- 1.5.2. **Requirement 4 (Detailed design approval):** The design commitments and parameters will be secured by Requirement 4 of the **Draft DCO [EN010158/APP/3.1]** which requires the detailed design proposals to be developed in accordance with the design commitments. The Requirement secures the approval of the detailed design for Work Nos. 1-7 and 10, being the ground mounted Solar PV generating station (Work No. 1), Rosefield Substation Compound (Work No. 2), Satellite Collector Compounds (Work No. 3), Battery Energy Storage System (Work No. 4), Main Collector Compound (Work No. 5), Grid Connection Cable Corridor (Work No. 6), Interconnecting Cable Corridor (Work No. 7) and works related to green and blue infrastructure (Work No. 10). The details will be submitted for approval to the relevant planning authority.
- 1.5.3. **Requirement 8 (Fencing and other means of enclosure):** The design commitments and parameters relevant to permanent fencing are secured by Requirement 8 of the **Draft DCO [EN010158/APP/3.1]** which requires the approval of all permanent fences, walls or other means of enclosure by the relevant planning authority. The details must be substantially in accordance with the relevant design commitments and parameters.
- 1.5.4. **Requirement 16 (Rights of way and access strategy):** The design commitments relevant to the layout, alignment and specification of new and permissive paths created as part of the Proposed Development are secured by Requirement 16 of the **Draft DCO [EN010158/APP/3.1]** which requires the approval of these details by the relevant planning authority. The details must be in accordance with the design commitments.
- 1.5.5. The construction, operation (including maintenance) and decommissioning activities are subject to the controls included within the following documents, which are secured by requirements of the **Draft DCO [EN010158/APP/3.1]**:
- **Outline Construction Environmental Management Plan [EN010158/APP/7.2]**
  - **Outline Operational Environmental Management Plan [EN010158/APP/7.3]**
  - **Outline Decommissioning Environmental Management Plan [EN010158/APP/7.4]**
  - **Outline Construction Traffic Management Plan [EN010158/APP/7.5]**
  - **Outline Landscape and Ecological Management Plan [EN010158/APP/7.6]**
  - **Outline Soil Management Plan [EN010158/APP/7.7]**

- **Outline Rights of Way and Access Strategy [EN010158/APP/7.8]**
- **Outline Battery Safety Management Plan [EN010158/APP/7.9]**
- **Outline Drainage Strategy [EN010158/APP/7.11].**

## 2. Design Commitments

- 2.1.1. The following design commitments relate to the size, type and colour of elements of the Proposed Development, as well as offsets from features of the Site and its surrounding context identified as embedded mitigation through the Environmental Impact Assessment (EIA) process. They are organised according to the Project Principles (where applicable) as set out and explained in greater detail in the **Design Approach Document [EN010158/APP/5.8]**. These design commitments are set out within Table 1 below.

Table 1: Design Commitments

Design places that support and enhance local communities		Requirement/Work No.
A1	Rosefield Substation, BESS, Collector Compounds, Standalone Inverter, Transformer and Switchgear and ITS (part of the balance of solar system plant comprised in Work No. 1) will be offset a minimum distance of 50m from all existing residential properties.	Requirement 4. Work No. 1, 2, 3, 4 and 5.
A2	Cable routes will be designed to minimise temporary road closures as far as reasonably practicable. No full road closures are proposed in order to construct the Interconnecting Cabling Corridor(s).	Requirement 4. Work No. 6 and 7.
Increase biodiversity appropriate to the landscape character and connect nature		Requirement/Work No.
B1	Perimeter fencing surrounding the Solar PV development will be offset at least 30m from existing statutory and locally designated wildlife sites.	Requirement 8. Work No. 1, 2, 3, 4 and 5.
B2	Perimeter fencing surrounding the Solar PV development will be offset at least 30m from existing woodland and hedgerows located along the boundaries of Field D29 and partially in Field D28.	Requirement 8.
B3	Perimeter fencing surrounding the Solar PV development will be offset at least 15m either side from existing hedgerows located within Fields B3 and B7, between Fields B7 and B8/B10 and between Fields B8/B10 and B9/B11.	Requirement 8.
B4	Perimeter fencing surrounding the Solar PV development will be offset at least 30m from existing main setts where practicable.	Requirement 8.

<b>Increase biodiversity appropriate to the landscape character and connect nature</b>		<b>Requirement/Work No.</b>
B5	Perimeter fencing will permit the passage of wildlife, either through a clearance at ground level or via mammal gates.	Requirement 8.
B6	Perimeter fencing surrounding the Solar PV development will be offset at least 10m from existing ponds.	Requirement 8.
B7	Lighting will use directional fittings and face away from woodland and hedgerow boundaries and into the Order Limits, in accordance with environmental requirements.	Requirement 4. Further associated development in connection with Work No. 1.
B8	Perimeter fencing surrounding the primary and secondary compounds will be offset 50m from existing woodlands.	Requirement 8. Work No. 8.
B9	Any bridge crossing of the existing Claydon Brook watercourse will be designed to promote longitudinal connectivity for flora and fauna along the riparian corridor.	Requirement 4. Work No. 2B.

<b>Lead with the landscape</b>		<b>Requirement/Work No.</b>
C1	Perimeter fencing surrounding the Solar PV development will be offset at least 30m from existing ancient woodlands.	Requirement 8.
C2	Perimeter fencing surrounding the Solar PV development will be offset at least 20m from all other existing woodlands, including HS2 planting.	Requirement 8.
C3	Perimeter fencing surrounding the Solar PV development will be offset at least 10m either side from all existing hedgerows, except where a hedgerow crossing is required for access tracks and/or cable routes.	Requirement 8.
C4	Perimeter fencing surrounding the Solar PV development will be offset at least 10m either side from all existing ditches and ordinary watercourses except where access tracks and/or cable routes are required to cross an existing feature.	Requirement 8.
C5	Perimeter fencing surrounding the Solar PV development will be offset at least 20m from the top of bank of Claydon Brook in Fields E20, E11, E10 and north section of E21.	Requirement 8.

<b>Lead with the landscape</b>		<b>Requirement/Work No.</b>
C6	Perimeter fencing surrounding the Solar PV development will not be constructed through existing hedgerows or across ditches where reasonably practicable. Where security fencing is required to pass through existing hedgerows, vegetation removals will be minimised as far as reasonably practicable.	Requirement 8.
C7	Principal components of the Proposed Development will avoid root protection areas of trees and hedgerows as far as reasonably practicable, except where a hedgerow crossing is required for access tracks and/or cable routes.	Requirement 4. Work No. 1, 2, 3, 4, 5, 6 and 7.
C8	Internal access track between Parcel 1 and Parcel 2 to be of similar style to agricultural tracks in the area.	Requirement 4. Work No. 7.

<b>Make efficient use of the land, touch it lightly</b>		<b>Requirement/Work No.</b>
D1	Internal access tracks and cable routes will use existing agricultural gateways/tracks, crossings and/or gaps in the hedgerows where practicable.	Requirement 4. Further associated development in connection with Work No. 1, 6 and 7.
D2	Interconnecting Cable Corridors and Grid Connection Cabling Corridors will run alongside access tracks where practicable, avoiding wider excavations.	Requirement 4. Work No. 1, 6 and 7.
D3	Perimeter fencing around the Solar PV development will comprise wooden and/or metal posts and wire mesh 'deer-proof fencing'.	Requirement 8. Work No. 1.
D4	CCTV system will include passive infra-red detectors around the Solar PV development to reduce the use of lighting.	Requirement 4. Further associated development in connection with Work No. 1.
D5	CCTV will be deployed at regular intervals to provide a sufficient field of view within the boundaries of each field, typically one spaced every 50-60 metres.	Requirement 4. Further associated development in connection with Work No. 1.
D6	Solar PV mounting structure foundations will be helical or driven piled vertical posts or screw piles or ballasted or shallow concrete foundations to avoid piling depths (if	Requirement 4. Work No. 1.

<b>Make efficient use of the land, touch it lightly</b>		<b>Requirement/Work No.</b>
	required) due to ground conditions or to reduce the impact on areas of archaeological sensitivity.	
D7	Solar PV mounting structures will be steel frames.	Requirement 4. Work No. 1.
D8	Solar PV modules will be dark blue or black in colour and held with a metallic frame structure.	Requirement 4. Work No. 1.
D9	Solar PV modules will be bifacial with an anti-reflective coating.	Requirement 4. Work No. 1.
D10	String inverters will be mounted below the Solar PV modules.	Requirement 4. Work No. 1.
D11	String inverters will be grey or white in colour.	Requirement 4. Work No. 1.
D12	Centralised inverters, transformers and switchgear will be mounted on adjustable legs or metal skids on concrete pads, concrete columns, or foundation slab, or compacted hardcore material, surrounded by permeable hardstanding, or screw piles as either Independent Outdoor Equipment or ITS.	Requirement 4. Work No. 1.
D13	Independent Outdoor Equipment (Standalone Central Inverters and Standalone Switchgear) will be grey, green or white in colour.	Requirement 4. Work No. 1.
D14	Independent Outdoor Equipment (Standalone Transformers) and Inverter Transformer Stations will be grey or green in colour.	Requirement 4. Work No. 1.
D15	Equipment within the Main Collector Compound will be grey, green, white and/or metallic. Proposed buildings and/or containers within the Main Collector Compound will be grey or painted green in colour and rendered to suit local building styles, be sensitive to the local environment and seek to reflect agricultural development.	Requirement 4. Work No. 5.
D16	Satellite Collector Compounds will be mounted on concrete pad foundations or plinths. The proposed structures will be grey or green containers and sensitive to the local environment.	Requirement 4. Work No. 3A and 3B.
D17	BESS containers and transformer units will be mounted on either compacted hardcore, reinforced concrete foundation slab or concrete piles or screw piles.	Requirement 4. Work No. 4.
D18	BESS containers and transformer units will be grey, green or white in colour.	Requirement 4. Work No. 4.
D19	Acoustic barriers will be provided around elements of the Independent Outdoor Equipment centralised inverters, transformers and switchgear), ITS (centralised inverters,	Requirement 4. Work No. 4.

<b>Make efficient use of the land, touch it lightly</b>		<b>Requirement/Work No.</b>
	transformers and switchgear), Rosefield Substation, Main Collector Compound, Satellite Collector Compounds and BESS compound, to ensure that unacceptable noise impacts do not arise.	
D20	There will be no permanent (continuous) lighting for security purposes, except where necessary to take account of health and safety requirements at emergency exits.	Requirement 4. Further associated development in connection with Work No. 2, 3, 4 and 5.
D21	Manually operated or sensor operated lighting will be utilised at the Rosefield Substation, BESS, Main and Satellite Collector Compounds and will remain switched off unless operatives are on-site and working during dusk/winter periods, unless health and safety requirements deem otherwise.	Requirement 4. Further associated development in connection with Work No. 2, 3, 4 and 5.
D22	Lighting will use directional fittings and face away from boundaries and into the Order Limits, in accordance with health and safety requirements.	Requirement 4. Further associated development in connection with Work No. 1.
D23	Perimeter fencing around the Rosefield Substation, Satellite Collector Compounds, BESS and Main Collector Compound will comprise metal palisade fencing or a monitored pulse fence and wire mesh fence.	Requirement 8. Work No. 2, 3, 4 and 5.
D24	Perimeter fencing around the Rosefield Substation, Satellite Collector Compounds, BESS and Main Collector Compound will be metallic or green in colour.	Requirement 8. Work No. 2, 3, 4 and 5.
<a href="#">D25</a>	<a href="#">BESS containers and transformer units will be offset at least 50m from the southern boundaries of Fields D8 and D9 and the eastern boundary of Field D9.</a>	<a href="#">Requirement 4. Work No. 4.</a>

<b>Manage water, improve quality, reduce pollution</b>		<b>Requirement/Work No.</b>
E1	Rosefield Substation, BESS, ITS, Independent Outdoor Equipment (transformer, switchgear and central inverters), Collector Compounds and Construction Compounds will be located outside of Flood Zone 2 and 3 areas.	Requirement 4. Work No. 1, 2, 3, 4, 5 and 8.
E2	Internal access tracks will typically be surfaced with permeable material such as gravel and will include	Requirement 4. Further associated

Manage water, improve quality, reduce pollution		Requirement/Work No.
	drainage such as a swale or ditch on the downhill side of the track.	development in connection with Work No. 1, 6 and 7.
E3	The Abnormal Indivisible Load Access Track will be surfaced with permeable material (assumed to be compacted gravel) or temporary plating.	Requirement 4. Work No. 2B.
E4	Any watercourse crossings associated with the Abnormal Indivisible Load Access Track will be clear span bridge(s), with crossings designed to ensure appropriate flood flows are maintained.	Requirement 4. Work No. 2B.

Provide new ways to enjoy the countryside		Requirement/Work No.
F1	Perimeter fencing surrounding the Solar PV development will be offset at least 10m from either side of existing PRoW.	Requirement 8.
F2	CCTV will be mounted on wooden poles and would not be positioned to face any residential properties and would have fixed views into the Order Limits as a security measure.	Requirement 4. Further associated development in connection with Work No. 1.
F3	New signage and/or waymarking will be provided along diverted PRoW and permissive footpaths.	Requirement 4. Work No. 10.
F4	Perimeter fencing surrounding the Solar PV development will be offset at least 55m from the Bernwood Jubilee Way within Fields D4, D11, D14 and D15 to allow views to be retained over the Solar PV development.	Requirement 8. Work No. 10.
F5	Perimeter fencing surrounding the Solar PV development will be offset at least 30m from the Mid Shires Way and North Bucks Way within Fields E21/E22 and E23.	Requirement 8. Work No. 10.
F6	<a href="#"><u>No fencing will be implemented along PRoW SCL/12/2 or SCL/13/1 through Field B5 during operation (including maintenance), unless agreed in advance with Buckinghamshire Council for operational requirements, to avoid greater maintenance requirements and users of the PRoW being inconvenienced.</u></a>	<a href="#"><u>Requirement 8. Work No. 10.</u></a>

Support agricultural productivity		Requirement/Work No.
G1	Rosefield Substation, BESS, Collector Compounds and Construction Compounds will avoid Best and Most Versatile (BMV) land and new access tracks will avoid BMV land as far as reasonably practicable.	Requirement 4. Work No. 1, 2, 3, 4, 5, 6 and 7.
G2	The arrangement of Solar PV modules within Field E23 will be designed to create a corridor for grazing animals to pass through the Solar PV development in consultation with the tenants. The corridor will have a minimum width of 20m.	Requirement 4. Work No. 1.
<u>G3</u>	<u>The agricultural well within Field B17 will remain in situ and access for the tenants will be retained on its current alignment.</u>	<u>Requirement 4. Work No. 10.</u>

### 3. Design Parameters

- 3.1.1. The parameters, set out in Table 2 below, secure the parameters for the detailed design of the Proposed Development as set out in **ES Volume 1, Chapter 3: Proposed Development Description [EN010158/APP/6.1]** and have been organised in accordance with the description of the Works Numbers as set out in Schedule 1 of the **Draft DCO [EN010158/APP/3.1]**. The spatial extents of each Work No. are shown on the **Works Plans [EN010158/APP/2.3]**.
- 3.1.2. For each component of the Proposed Development outlined in Table 2 below, the parameter has been defined by its:
- Location – the location of the Proposed Development component within the Order Limits as assessed within the ES;
  - Scale – either a minimum or maximum parameter which has been assessed in the ES.

Table 2: Proposed Development Design Parameters

Element of Proposed Development	Parameter Type	Parameter Description
<b>Work No. 1: Ground Mounted Solar PV Generating Station including-</b>		
<b>(a) Solar PV modules fitted to mounting structures;</b>		
<b>(b) Balance of solar system (BoSS) plant.</b>		
<b>Solar PV modules and mounting structures</b>	Scale	The spacing gap between consecutive rows of solar PV modules will be at least 2.8m.
	Scale	The height of the highest part of the solar PV module will be no greater than 3.5m above ground level (AGL) (post-earthworks) outside of flood areas as shown by the yellow areas on the <b>Works Plans [EN010158/APP/2.3]</b> (sheets 6 and 7).
	Scale	The height of the highest part of the solar PV module will be no greater than 4.5m above ground level AGL (post-earthworks) within flood areas as shown by the orange areas on the <b>Works Plans [EN010158/APP/2.3]</b> (sheets 6 and 7).

Element of Proposed Development	Parameter Type	Parameter Description
	Scale	The height of the lower part of the solar PV panels will be no lesser than 0.8m AGL (post-earthworks).
	Scale	The height of the lower part of the solar PV panels will be no greater than 1.8m AGL (post-earthworks) within Flood Zones as set out on the <b>Works Plans [EN010158/APP/2.3]</b> (sheets 6 and 7).
	Scale	The minimum pitch between consecutive rows of solar PV modules would be sloped towards the south at a fixed angle of 10 to 30 degrees from horizontal.
	Scale	The depth of the mounting structure piles will be no greater than 3m below ground level (BGL) (post-earthworks).
<b>Standalone Central Inverter</b>	Scale	The height of standalone Central Inverters will be no greater than 3m AGL (post-earthworks).
<b>Standalone Transformer</b>	Scale	The height of standalone Transformers will be no greater than 3m AGL (post-earthworks).
<b>Standalone Switchgear</b>	Scale	The height of standalone Switchgear will be no greater than 3m AGL (post-earthworks).
<b>Independent Outdoor Equipment</b>	Scale	The height of Independent Outdoor Equipment will be no greater than 3.5m AGL (post-earthworks).
	Scale	The gross external footprint of Independent Outdoor Equipment will be no greater than 80m <sup>2</sup> .

Element of Proposed Development	Parameter Type	Parameter Description
	Scale	The height of the acoustic barrier associated with the Independent Outdoor Equipment will be no greater than 3.5m AGL (post-earthworks).
<b>Inverter Transformer Station</b>	Scale	The height of Inverter Transformer Stations will be no greater than 3.5m AGL (post-earthworks).
	Scale	The gross external footprint of Inverter Transformer Stations will be no greater than 25m <sup>2</sup> .
	Scale	The height of the acoustic barrier associated with Inverter Transformer Stations will be no greater than 3.5m AGL (post-earthworks).

Element of Proposed Development	Parameter Type	Parameter Description
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**Work No. 2 – Rosefield Substation Compound, including**

**(a) Work No. 2A - Substation works**

**(b) Work No. 2B - An abnormal indivisible load corridor required to facilitate abnormal indivisible load movements in connection with Work No. 2A.**

<b>Rosefield Substation Compound</b>	Location	Rosefield Substation will be located within Parcel 3 across Field E11 and/or E20.
	Scale	The footprint of Rosefield Substation compound will be no greater than 60,000m <sup>2</sup> .
	Scale	The height of any acoustic barrier along the boundary of the Rosefield Substation compound will be no greater than 5m AGL (post-earthworks).

**Rosefield Substation  
Electrical  
Infrastructure**

Scale The height of Rosefield Substation and electrical infrastructure will be no greater than 15m AGL (post-earthworks where the Finished Platform Level (FPL) is to be 90m AOD in Fields E11 and E20).

Scale The number of main Transformers will be no greater than seven.

Scale The gross external footprint of each main Transformer will be no greater than 235m<sup>2</sup> (falling within the Rosefield Substation compound).

Scale The height of the Busbar System will be no greater than 15m AGL (post-earthworks).

Scale The height of the lighting surge arrestors will be no greater than 15m AGL (post-earthworks).

**Building(s),  
Equipment and  
Security Cabin (falling  
within the Rosefield  
Substation  
compound)**

Scale The height of building(s) will be no greater than 7m AGL (post-earthworks).

Scale The total/combined gross external footprint of buildings will be no greater than 1,200m<sup>2</sup>.

Scale The height of the emergency back-up generator will be no greater than 3m AGL (post-earthworks).

Scale The gross external footprint of the emergency back-up generator will be no greater than 18m<sup>2</sup>.

Scale The height of security cabin will be no greater than 4m AGL (post-earthworks).

Scale The gross external footprint of the security cabin will be no greater than 35m<sup>2</sup>.

<b>Pole mounted internal facing CCTV</b>	Scale	The height of CCTV will be no greater than 5m AGL (post-earthworks).
<b>Abnormal Indivisible Load Access Track</b>	Scale	The running width of the AIL Access Corridor will be no greater than 8m.

Element of Proposed Development	Parameter Type	Parameter Description
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**Work No. 3 Satellite Collector Compounds**

**(a) Work No. 3A – satellite collector compound works**

**(b) Work No. 3B – transformers that form part of the satellite collector compounds for Work No. 3A and associated barriers for fire safety and noise mitigation**

<b>Satellite Collector Compound</b>	Location	Two Satellite Collector Compounds, with one Satellite Collector Compound located within each of the following areas: <ul style="list-style-type: none"> <li>- Field B23 (South)</li> <li>- Fields D8, D9 and/or D17.</li> </ul>
	Scale	The combined footprint of both Satellite Collector Compounds will be no greater than 2,500m <sup>2</sup> .
	Scale	The height of the Satellite Collector Compounds will be no greater than 6m AGL (post-earthworks).
	Scale	The height of acoustic barriers associated with any Satellite Collector Compound will be no greater than 3.5m AGL (post-earthworks).
<b>Pole mounted internal facing CCTV</b>	Scale	The height of CCTV will be no greater than 5m AGL (post-earthworks).

Element of Proposed Development	Parameter Type	Parameter Description
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**Work No.4 Battery Energy Storage System**

<b>BESS compound</b>	Location	The BESS compound will be located within Parcel 2 in Fields D8 and/or D9.
	Scale	The footprint of the BESS compound will be no greater than 105,000m <sup>2</sup> .
	Scale	The height of the BESS compound will be no greater than 6m AGL (post-earthworks where the FPL is to be 97m AOD in Field D8 and 98m AOD in Field D9).
	Scale	The height of the acoustic barrier associated with the BESS compound will be no greater than 3.5m AGL (post-earthworks).
<b>Electrical infrastructure</b>	Scale	The height of the BESS units (inclusive of noise reduction kits and heating, ventilation and air conditioning system) will be no greater than 4.5m AGL (post-earthworks).
<b>Ancillary buildings and other associated electrical infrastructure</b>	Scale	The height of the Switch Room(s) will be no greater than 6m AGL (post-earthworks).
	Scale	The height of the emergency back-up generator will be no greater than 3m AGL (post-earthworks).
	Scale	The gross external footprint of the emergency back-up generator will be no greater than 12m <sup>2</sup> .
<b>Pole mounted internal facing CCTV</b>	Scale	The height of CCTV will be no greater than 5m AGL (post-earthworks).

Element of Proposed Development	Parameter Type	Parameter Description
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**Work No. 5 Main Collector Compound**

<b>Main Collector Compound</b>	Location	The Main Collector Compound will be located within Parcel 3 in Field E22, E11, E20, and/or E21.
	Scale	The height of the Main Collector Compound will be no greater than 6m AGL (post-earthworks where the FPL is to be 92m AOD in Fields E22 and E21 or as per the FPLs of the Rosefield Substation compound in Fields E20 and E11).
	Scale	The footprint of the Main Collector Compound will be no greater than 25,000m <sup>2</sup> .
	Scale	The height of the acoustic barrier associated with the Main Collector Compound will be no greater than 3.5m AGL (post-earthworks).
<b>Pole mounted internal facing CCTV</b>	Scale	The height of CCTV will be no greater than 5m AGL (post-earthworks).

Element of Proposed Development	Parameter Type	Parameter Description
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**Work No. 6 Grid Connection Cable Corridor**

<b>Electrical cable trenches</b>	Scale	<p>The Grid Connection cables will be underground in trenches no greater than 6m in width and no greater than 1.5m BGL (post-earthworks), except where cabling would need to cross under roads, utilities, watercourses or ditches where depths may be greater. In these cases, cabling would be laid at least:</p> <ul style="list-style-type: none"> <li>- 1.5m below roads,</li> </ul>
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		<ul style="list-style-type: none"> <li>- 0.5m below utilities, and</li> <li>- 2m below the bed of watercourses and ditches.</li> </ul>
	Scale	There will be a separation distance of at least 0.5m between circuits within trenches.
<b>Jointing Bays</b>	Scale	<p>The dimensions for jointing bays will be no greater than:</p> <ul style="list-style-type: none"> <li>- 5.5m in width</li> <li>- 20m in length</li> <li>- 2.5m BGL in depth (post-earthworks).</li> </ul>
<b>Pole mounted internal facing CCTV</b>	Scale	The height of CCTV will be no greater than 5m AGL (post-earthworks).

Element of Proposed Development	Parameter Type	Parameter Description
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**Work No. 7 Interconnecting Cable Corridor(s)**

<b>Electrical cable trenches</b>	Scale	<p>The width of the Interconnecting cable trench will be no greater than:</p> <ul style="list-style-type: none"> <li>- 1.5m for single cable circuits; and</li> <li>- 35m for multiple cable circuits.</li> </ul>
	Scale	<p>The depth of the Interconnecting cable trench will be no greater than 1.5m BGL (post-earthworks), except where cabling would need to cross under roads, utilities, watercourses or ditches where depths may be greater. In these cases, cabling would be laid at least:</p> <ul style="list-style-type: none"> <li>- 1.5m below roads,</li> <li>- 0.5m below utilities, and</li> </ul>

		<ul style="list-style-type: none"> <li>- 2m below the bed of watercourses and ditches.</li> </ul>
<b>Electrical circuits</b>	Scale	<p>The width of the cable circuits will be no greater than:</p> <ul style="list-style-type: none"> <li>- 1.5m for single cable circuits; and</li> <li>- 35m for multiple cable circuits.</li> </ul>
	Scale	<p>There will be a separation distance of at least 0.5m between circuits within trenches.</p>

Element of Proposed Development	Parameter Type	Parameter Description
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**Work No. 10 Blue and Green Infrastructure**

<b>Fencing</b>	Scale	The height of Deer-proof fencing will be no greater than 2.5m AGL (post-earthworks).
	Scale	The height of Palisade fencing will be no greater than 2.75m AGL (post-earthworks).
	Scale	The height of Mesh fencing will be no greater than 2.75m AGL (post-earthworks).
	Scale	The height of Pulse monitoring security fencing will be no greater than 3.4m AGL (post-earthworks).
<b>Internal Access Track</b>	Scale	The width of Internal Access Tracks will be no greater than 6m.
	Scale	The constructed depth of any Check Dam will be no greater than 0.2m BGL (post-earthworks).



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