# SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE ENVIRONMENTAL SENSITIVITY

**EIA Reference number:** To be Confirmed **Project name:** Acrux Solar PV project One

Project title: Proposed Acrux Solar PV Project One near Bloemfontein, Free State Province

Date screening report generated: 13/04/2023 16:19:36

Applicant: Acrux Solar PV Project One (Pty) Ltd

**Compiler:** Environamics Environmental Consultants

Compiler signature:

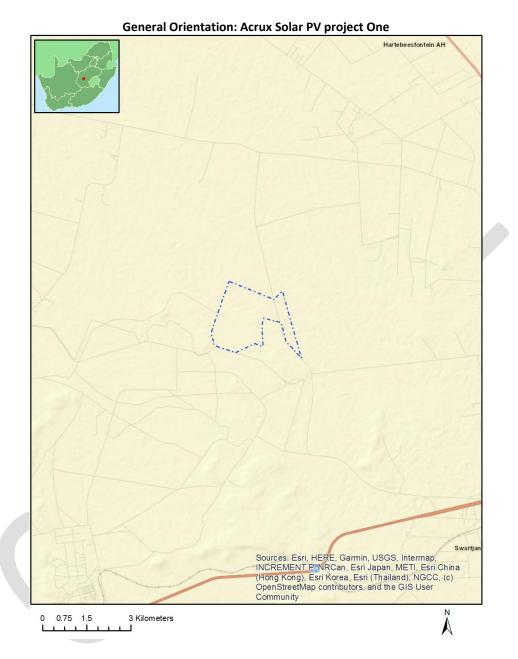
Application Category: Utilities Infrastructure | Electricity | Generation | Renewable | Solar | PV

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# **Proposed Project Location**

# Orientation map 1: General location

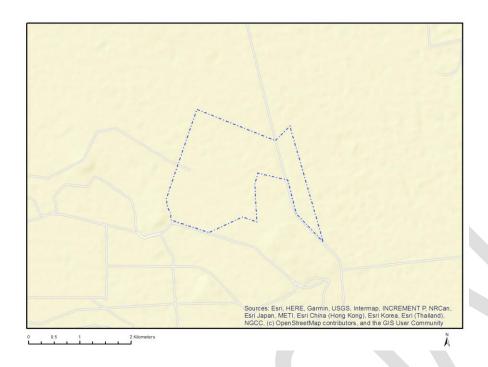


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# Map of proposed site and relevant area(s)



#### Cadastral details of the proposed site

#### Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	HIGHLANDS	204	0	29°5'5.98S	26°1'6.19E	Farm
2	BRABANT	205	0	29°5'12.73S	26°2'43.82E	Farm
3	BRABANT	205	6	29°5'36.57S	26°2'8.14E	Farm Portion
4	HIGHLANDS	204	3	29°4'51.31S	26°1'16.43E	Farm Portion
5	BRABANT	205	12	29°4'50.92S	26°1'51.48E	Farm Portion
6	BRABANT	205	14	29°4'52.49S	26°2'18.72E	Farm Portion

Development footprint<sup>1</sup> vertices: No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	14/12/16/3/3/1/1093	Solar PV	Approved	3.2
2	14/12/16/3/3/1/1093	Solar PV	Approved	3.2

<sup>&</sup>lt;sup>1</sup> "development footprint", means the area within the site on which the development will take place and incudes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

3	12/12/20/1972/1	Solar PV	Approved	20
4	14/12/16/3/3/1/1092	Solar PV	Approved	3.2
5	12/12/20/1972/2	Solar PV	Approved	21.1
6	12/12/20/1972	Solar PV	Approved	20
7	14/12/16/3/3/1/564	Solar PV	Approved	15.1

#### Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

# Environmental screening results and assessment outcomes

The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is:

Utilities Infrastructure | Electricity | Generation | Renewable | Solar | PV.

#### Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incentive, restriction	Implication	
or prohibition		
South African Protected Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SAPAD OR 2022 Q3 Metadata.pdf	

#### Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High	High	Medium	Low
	sensitivity	sensitivity	sensitivity	sensitivity
Agriculture Theme		Χ		
Animal Species Theme			Χ	
Aquatic Biodiversity Theme	Х			
Archaeological and Cultural				Х
Heritage Theme				
Avian Theme				Х
Civil Aviation (Solar PV)				Х
Theme				
Defence Theme			Χ	
Landscape (Solar) Theme	Х			
Paleontology Theme	Х			
Plant Species Theme			Х	

RFI Theme	Х		
Terrestrial Biodiversity Theme	Χ		

#### Specialist assessments identified

Based on the selected classification, and the known impacts associated with the proposed development, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse ssmentProtocols/Gazetted WindAndSolar Agriculture Assessme
		nt Protocols.pdf
2	Landscape/Visual Impact	https://screening.environment.gov.za/ScreeningDownloads/Asse
	Assessment	ssmentProtocols/Gazetted General Requirement Assessment P rotocols.pdf
3	Archaeological and	https://screening.environment.gov.za/ScreeningDownloads/Asse
	Cultural Heritage Impact Assessment	<u>ssmentProtocols/Gazetted General Requirement Assessment P</u> rotocols.pdf
4	Palaeontology Impact	https://screening.environment.gov.za/ScreeningDownloads/Asse
	Assessment	ssmentProtocols/Gazetted General Requirement Assessment P
		rotocols.pdf
5	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
	impact Assessment	ssmentProtocols/Gazetted Terrestrial Biodiversity Assessment
	Assorbie Die disconite	Protocols.pdf
6	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
	impact Assessment	ssmentProtocols/Gazetted Aquatic Biodiversity Assessment Pr
	Civil Aviation Assessment	otocols.pdf
7	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
		ssmentProtocols/Gazetted Civil Aviation Installations Assessme
O Defense Assessment		nt Protocols.pdf
8	Defense Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
		ssmentProtocols/Gazetted Defence Installations Assessment Pr
9	RFI Assessment	otocols.pdf
9	Kri Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
		ssmentProtocols/Gazetted_General_Requirement_Assessment_P
10	Geotechnical Assessment	rotocols.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
		<u>ssmentProtocols/Gazetted General Requirement Assessment P</u> rotocols.pdf
11	Socio-Economic	https://screening.environment.gov.za/ScreeningDownloads/Asse
	Assessment	ssmentProtocols/Gazetted General Requirement Assessment P
		rotocols.pdf
12	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
	·	ssmentProtocols/Gazetted Plant Species Assessment Protocols.
		pdf
13	Animal Species	https://screening.environment.gov.za/ScreeningDownloads/Asse
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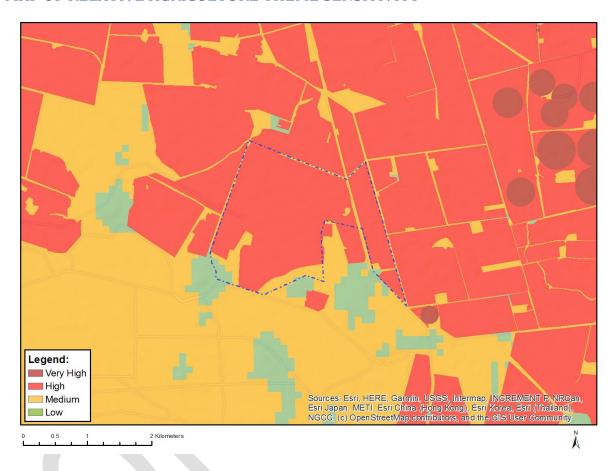
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# Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed site for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.

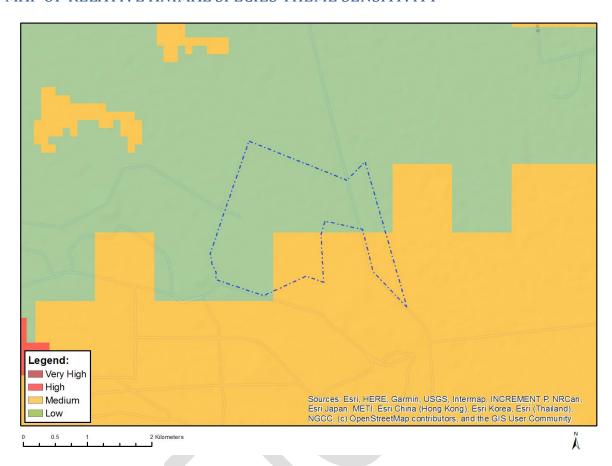
#### MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity	Feature(s)		
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;01. Very low/02. Very low/03.		
	Low-Very low/04. Low-Very low/05. Low		
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;06. Low-Moderate/07. Low-		
	Moderate/08. Moderate		
High	Old Fields;Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low		
High	Old Fields; Land capability; 06. Low-Moderate/07. Low-Moderate/08. Moderate		
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low		
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate		

#### MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY

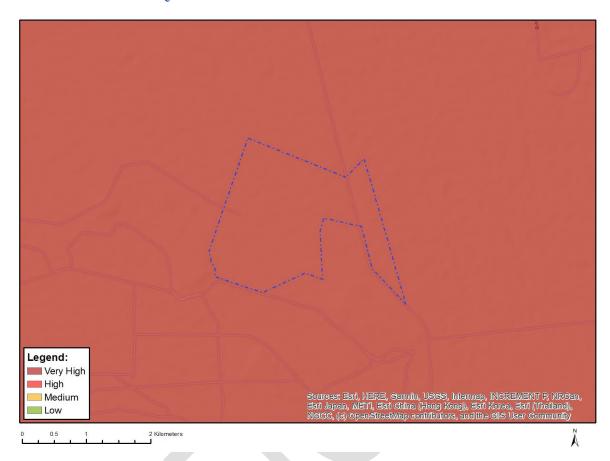


Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at <a href="mailto:eiadatarequests@sanbi.org.za">eiadatarequests@sanbi.org.za</a> listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

Sensitivity	Feature(s)
Low	Subject to confirmation
Medium	Mammalia-Hydrictis maculicollis

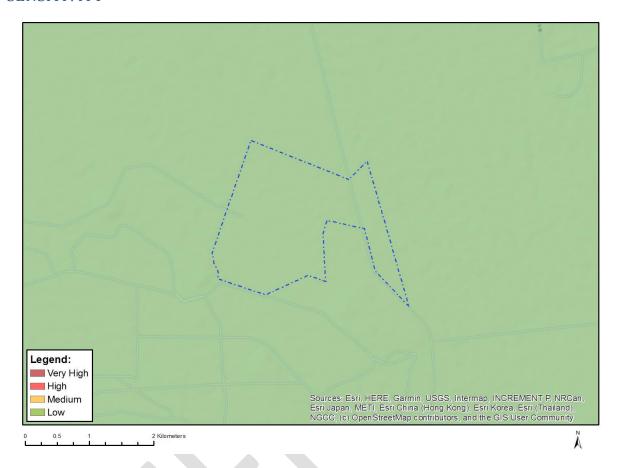
# MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)
Very High	Strategic water source area

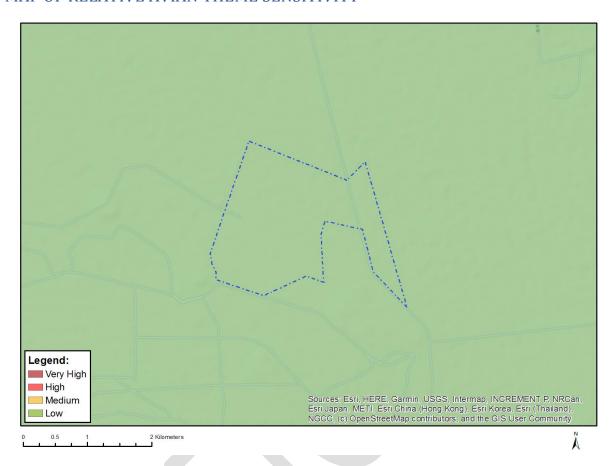
# MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Χ

Sensitivity	Feature(s)	
Low	Low sensitivity	

#### MAP OF RELATIVE AVIAN THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Χ

Sensitivity	Feature(s)	
Low	Low Sensitivity	

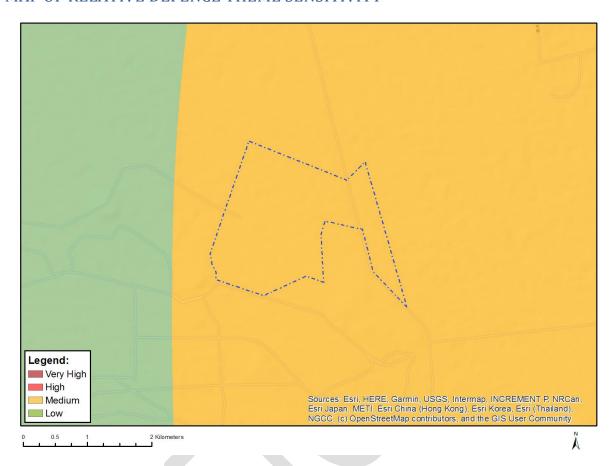
# MAP OF RELATIVE CIVIL AVIATION (SOLAR PV) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Feature(s)	
Low	No major or other types of civil aviation aerodromes

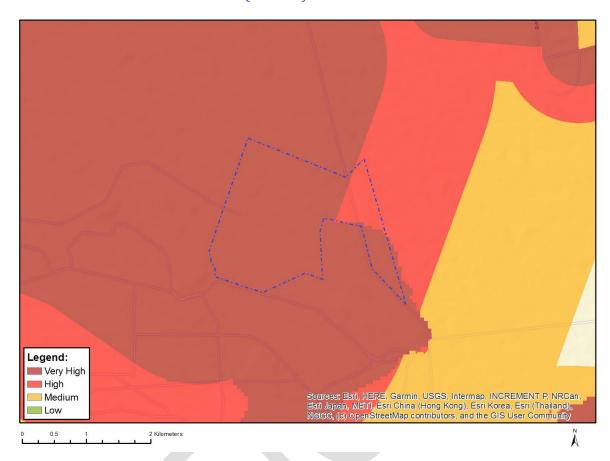
#### MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

Sensitivity	Feature(s)	
Medium	Defence Site	

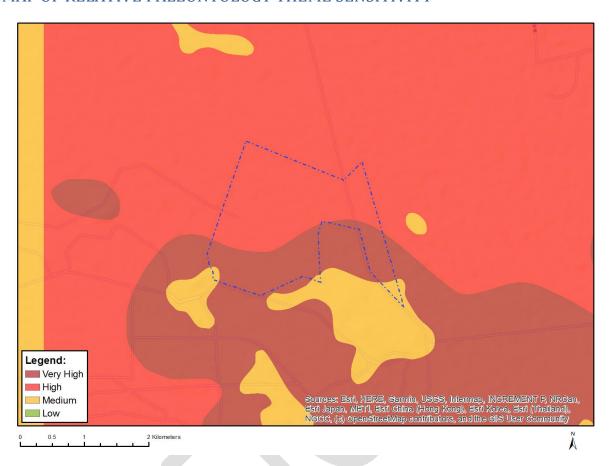
# MAP OF RELATIVE LANDSCAPE (SOLAR) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)	
High	Slope between 1:4 and 1:10	
High	Between 1.5 and 3 km of a nature reserve	
Very High	Mountain tops and high ridges	
Very High	Nature Reserve	
Very High	Within 1.5 km of a nature reserve	

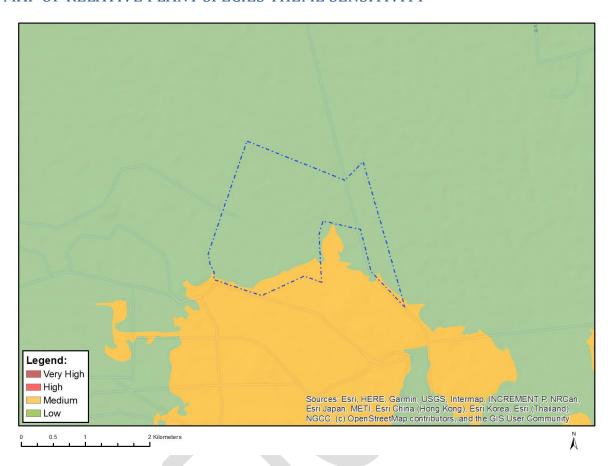
#### MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)
High	Features with a High paleontological sensitivity
Medium	Features with a Medium paleontological sensitivity
Very High	Features with a Very High paleontological sensitivity

#### MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY

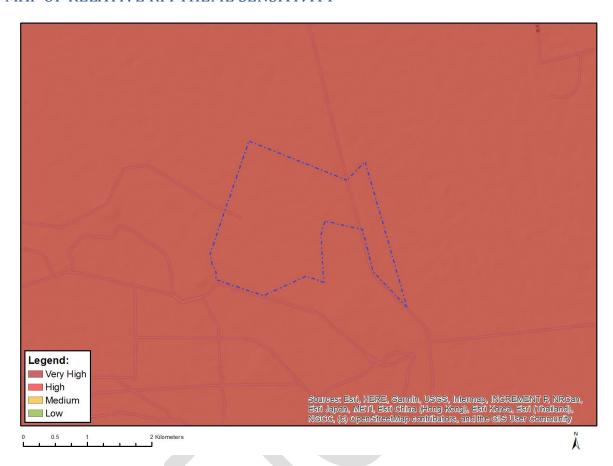


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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

Sensitivity	Feature(s)
Low	Low Sensitivity
Medium	Sensitive species 257

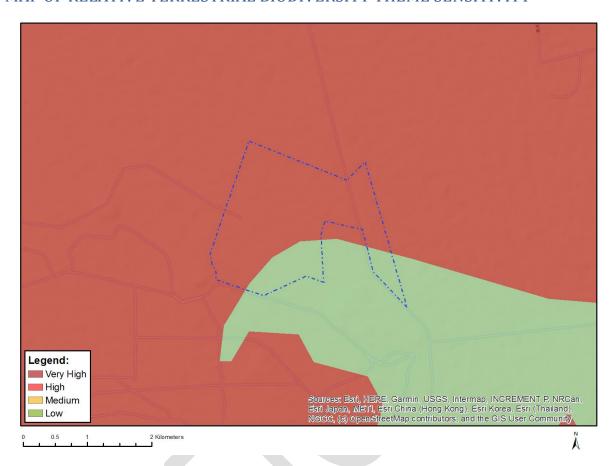
#### MAP OF RELATIVE RFI THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)	
Very High	Less than 18 km form a Weather Radar installation	

#### MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	Vulnerable ecosystem
Very High	Highlands Reserve