	SYNTHESI	S OF SPFCL	ALIST IMP	ACTS AS F	XTRACTED	FROM THF	SPFCIALIST	REPORTS
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY /	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGAT
				PLANNING 8	DESIGN PHAS	F		
It is import	ant to note that specialist planning and design phase impo	acts were not ex	whether the since the since the since the second	he developer o	lesianed the lav	_ out presented in	the FIR based or	n sensitivity data and
		The plan	ning and desid	in impacts wei	e therefore miti	gated at Plannii	ng Phase.	
			A	GRICULTURAL I	MPACT ASSESSME	ENT	<u> </u>	
None identified by special	ist							
				AQUATIC IMP	ACT ASSESSMENT	-		
None identified by special	ist					_		
Nono identified by created	i4			AVIFAUNAL IM	PACT ASSESSMEN	Π		
None identified by special				HERITAGE IM	PACT ASSESSMENT	т		
None identified by special	ist				ACT ASSESSMENT			
			PA	LAENTOLOGICA	L IMPACT ASSESSI	MENT		
None identified by special	ist							
			RI	VERINE RABBIT	IMPACT ASSESSM	IENT		
None identified by special	ist		50			AENIT		
None identified by special	ist		30		INIPACI ASSESSI			
			TERRES	STRIAL BIODIVER	SITY IMPACT ASS	ESSMENT		
None identified by special	ist							
				CONSTRU	CTION PHASE			
		ſ	4	GRICULTURAL I	MPACT ASSESSME	INT		
OCCUPATION OF LAND	Agricultural land directly occupied by the development	DIRECT	STUDY AREA	MEDIUM	POSSIBLE	DEFINITE	LOW -	The amount of a
	intrastructure will become restricted for agricultural use, with consequent potential loss of agricultural productivity for the					DEEINIITE	10₩/-	by the project is development li
	duration of the project lifetime. The small and widely	CONICLATIVE	STODT AREA	TERM	FOSSIBLE	DEFINITE		agricultural prot
	distributed nature of the agricultural footprint of the OHL	NO-GO			NO IMPACT			conservation of a
	means that only an insignificant proportion of the available agricultural land is impacted in this way.							The footprint approximately ei
	The notential cumulative agricultural impact of importance is							the development
	a regional loss (including by degradation) of future agricultural production potential.							
	Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure (including the OHLs) are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to disturbance of agricultural system as no known construction activities are present on site.							
SOIL EROSION AND	Erosion can occur as a result of the alteration of the land	DIRECT	STUDY AREA	SHORT	PROBABLE	MODERATE	LOW -	The risk of a loss of a
DEGRADATION	surface run-off characteristics, predominantly through the			TERM				degradation can ef
	establishment of hard surface areas including roads. Soil erosion is completely preventable. The storm water	CUMULATIVE	STUDY AREA	SHORT TERM	PROBABLE	MODERATE	LOW -	renewable energy dev
	management that will be an inherent part of the road engineering on site and standard, best practice erosion control measures recommended and included in the EMPr, are likely	NO-GO			NO IMPACT			Mitigation measures are all inherent in the standard, best-practic

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REVERSABILITY/SIGNIFICANCE MITIGATION

POST-MITIGATION

d constraints provided by the various specialists.

agricultural land loss caused is well within the allowable	REVERSIBLE	LOW -
imits prescribed by the tocol to ensure appropriate	REVERSIBLE	LOW -
agricultural production land. of the development is ight times smaller than what t limits allow.	NO IMP	ACT
agricultural potential by soil ffectively be mitigated for	REVERSIBLE	LOW -
velopments.	REVERSIBLE	LOW -
to prevent soil degradation e project design and / or are ce for construction sites.	NO IMP	ACT

	SYNTHESIS	OF SPECIA	LIST IMP/	ACTS AS E	XTRACTED I	FROM THE	SPECIALIST	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
	to be effective in preventing soil erosion. Loss of topsoil can result from poor topsoil management during construction related excavations. The risk for each individual development is low and the cumulative risk is also low as it can be effectively mitigated for renewable energy developments. <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the Taaibos and Soutrivier WEF clusters construction</i> <i>timelines overlap. However, it is important to note that the 5</i> <i>WEFs and their associated infrastructure (including OHLs) are</i> <i>proposed by the same developer and the EMPrs will be</i> <i>prepared to the same standard.</i> <i>No-go alternative would result in no impact related to</i> <i>disturbance of agricultural system as no known construction</i> <i>activities are present on site.</i>							A system of storm water management, which will prevent erosion, will be an inherent part of the road engineering on site. Any occurrences of erosion must be attended to immediately and the integrity of the erosion control system at that point must be amended to prevent further erosion from occurring there. Any excavations done during the construction phase, in areas that will be re-vegetated at the end of the construction phase, must separate the upper 30 cm of topsoil from the rest of the excavation spoils and store it in a separate stockpile. When the excavation is back-filled, the topsoil must be back-filled last, so that it is at the surface. Topsoil should only be stripped in areas that are excavated. Across the majority of the site, including construction lay down areas, it will be much more effective for rehabilitation, to retain the topsoil in place. If levelling requires significant cutting, topsoil should be temporarily stockpiled and then re-spread after cutting, so that there is a covering of topsoil over the entire surface.		
CONSTRUCTION PHASE	Transportation of construction materials can result in	DIRECT	LOCALISED	AQUATIC IMP. SHORT	ACT ASSESSMENT PROBABLE	MODERATE	MODERATE -		REVERSIBLE	LOW -
- IMPACT ASSESSMENT OF SITE PREPARATION ACTIVITIES PRIOR TO	disturbances to soil, and increased risk of sedimentation/erosion; Soil contamination and potential oil and hydrocarbon spills originating from construction vehicles;	CUMULATIVE	LOCALISED	TERM SHORT TERM	PROBABLE	SEVERE MODERATE SEVERE	MODERATE -	 It is strongly recommended that the proposed powerline support structures be located outsideof the freshwater features 	REVERSIBLE	LOW -
THE CONSTRUCTION OF THE POWERLINE: Vehicular movement (transportation of construction materials)	and Soil compaction leading to increased runoff and erosion within the vicinity of the freshwater feature(s). Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to disturbance of aquatic habitats as no known construction activities are present on site.	NO-GO			NO IMPACT			 and at least 32 m (as far as possible/feasible) from the delineated edge of a freshwater feature – this in itself is considered a mitigation measure, which entails no direct negative impacts from occurring to the freshwater features. Should the following mitigation measures (pertaining to the construction of the proposed powerline) be applied, a Low risk significance can be expected; ▲ It is imperative that all construction works 	NO IMP	ACT
CONSTRUCTION PHASE – IMPACT ASSESSMENT	Exposure of soil, leading to increased runoff, and erosion, and thus increased sedimentation of the receiving freshwater	DIRECT	LOCALISED	SHORT TERM	PROBABLE	MODERATELY SEVERE	MODERATE	(with specific mention of potential upgrading of any road crossings) be	REVERSIBLE	LOW -
OF SITE PREPARATION ACTIVITIES PRIOR TO	features; Increased sedimentation of the freshwater feature(s). leading	CUMULATIVE	LOCALISED	SHORT TFRM	PROBABLE	MODERATE	MODERATE -	undertaken during the driest period of the	REVERSIBLE	LOW -
THE CONSTRUCTION OF THE POWERLINE: Construction of camp/contractor laydown and storage area	to smothering of vegetation associated with freshwater features; Dust pollution during construction which may impact on water quality; and Proliferation of alien and/or invasive vegetation as a result of disturbances.	NO-GO			NO IMPACT	JLVLIL		 freshwater features; Due to the accessibility of the sites, no unnecessary crossing of the freshwater features may be permitted and it is strongly recommended that the 	NO IMP	ACT

	SYNTHESI	S OF SPECIA	ALIST IMP	ACTS AS E	XTRACTED	FROM THE	SPECIALIST	REPORTS
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY /	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGAT
CONSTRUCTION PHASE - IMPACT ASSESSMENT OF SITE PREPARATION ACTIVITIES PRIOR TO THE CONSTRUCTION OF THE POWERLINE: Removal of vegetation and associated disturbances to soil	Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to disturbance of aquatic habitats as no known construction activities are present on site. Earthworks could be potential sources of sediment, which may be transported as runoff into the downstream freshwater ecosystems; Disturbances of soil leading to potential impacts to the freshwater feature(s) and increased sediment runoff from the construction site to the freshwater feature(s), in turn leading to altered freshwater habitat; Altered runoff patterns, leading to increased erosion and sedimentation of the receiving freshwater features down gradient of the development; Dust pollution during construction which may impact on water quality (if surface water is present). Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to disturbance of aquatic habitats as no known earthworks activities are present on site.	DIRECT CUMULATIVE NO-GO	(EXTENT)	(DURATION)	(PROBABILITY / LIKELIHOOD) PROBABLE PROBABLE NO IMPACT	SEVERE	HIGH - MODERATE -	 calculated the features be construined will limit edges sedimentation of during the construing the powerling features is plant no-go areas; Contractor layd fuelling areas facilities to reafershwater features as plant no-go areas; Contractor layd fuelling areas facilities to reafershwater features as plant no-go areas; Contractor layd fuelling areas facilities to reafershwater features as facilities to reafershwater features as facilities to reafershwater features as facilities at the freshwater features areas facilities to reafershwater features as facilities at the freshwater features as facilities to reafershwater features as they are most occur. This the freshwater features as they are most
								growingshrub an species; Removed veg delineated fresh stockpiled outs boundary of a footprint areas stockpiles must and The removed
								must be reinstat phase. How

ION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
delineated freshwater		
dered a no-ao area. This		
effects erosion and		
the freshwater features		
uction phase		
the freshwater features		
ities are planned (i.e.		
rtstructures or snanning		
e over the freshwater	REVERSIBLE	LOW -
e over the freshwater	NEVEN0/DEE	
ea) mast be considered	REVERSIBLE	LOW -
own areas, vehicle re-		
and material storage		ACI
main outside of the		
res and their associated		
of Regulation (ZoR);		
owerline servitudes of		
hnically, only a very		
ip of woody vegetation		
n clearance height needs		
lower woody vegetation		
aceous vegetation must		
e cleared. Clearing of the		
the servitude through		
res must not occur. Keep		
on below the minimum		
, and no indiscriminate		
ation within the servitude		
is considered feasible for		
features identified to be		
the proposed powerline		
tly characterised by low		
nd graminoid vegetation		
etation outside the		
water features must be		
de of the delineated		
freshwater feature. The		
and height of these		
be kept to a minimum;		
(indigenous) vegetation		
ed after the construction		
ever, alien/invasive		

	SYNTHESIS	S OF SPECIA	ALIST IMPA	ACTS AS E	XTRACTED	FROM THE	SPECIALIST	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY /	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
					LIKELIHOOD)					
								vegetation species present and removed must not be reinstated but must be disposed of at a registered garden refuse site and may not be burned or mulched on		
	Earthworks could be potential sources of sediment, which may	DIRECT	STUDY AREA	SHORT	PROBABLE	MODERATELY	MODERATE -	Stringing of the line (i.e., pulling the cables into	REVERSIBLE	LOW -
STRUCTURES	areas;	CUMULATIVE	STUDY AREA	SHORT	PROBABLE	MODERATELY	MODERATE -	lower foothill tributary and must not entail the	REVERSIBLE	LOW -
(FURTHER THAN 32	Disturbances of soil leading to potential impacts to freshwater			TERM		SEVERE		movement of machinery across the feature,	-	
M BUT WITHIN 100	vegetation, increased alien vegetation proliferation in the	NO-GO						unless as part of an approved existing access		
	Altered runoff patterns, leading to increased erosion and							The construction footprint and period must be		
FRESHWATER	sedimentation of the receiving freshwater features down							kept as small and as short as possible,		
FEATURES) AND	gradient of the development;							respectively; and construction activities		
SPANNING OF THE	Dust pollution during construction which may impact on water quality (if surface							within the delineated freshwater features must be avoided:		
POWERLINE: Excavation	water is present).							 Only a 5 m zone of disturbance / construction 		
of foundation pits for								right of way must be permitted to be		
the support structures	Cumulative impact, on a localised scale, would be moderate							disturbed. This 5 m construction right of way		
soil	construction timelines overlap. However, it is important to note							disturb the surrounding area to freshwater		
	that the Overhead Line infrastructure is proposed by the same							features, should the support structures be		
	developer and the EMPrs will be prepared to the same							located in close proximity to a freshwater		
	standard. No-ao alternative would result in no impact related to							feature;		
	disturbance of aquatic habitats as no known earthworks							wind and limit the time in which the stockpiled		
	activities are present on site.							soil is exposed, by covering with a suitable		
	Potential contamination of surface water (if present).	DIRECT	REGIONAL	SHORT	PROBABLE	MODERATELY	MODERATE -	geotextile such as hessian sheeting;	REVERSIBLE	LOW -
STRUCTURES	be transported as runoff into the downstream freshwater	CUMULATIVE	REGIONAL	SHORT	PROBABLE	MODERATELY	MODERATE -	structures may result in loose sediments	REVERSIBLE	LOW -
(FURTHER THAN 32	areas;			TERM		SEVERE		within the landscape, specifically if works are		
M BUT WITHIN 100	Disturbances of soil leading to potential impacts to freshwater	NO-GO						undertaken during a period of rainfall (if		
DELINEATED	vegetation, increased alien vegetation proliferation in the footprint areas, and in turn to altered freshwater babitat.							applicable);		
FRESHWATER	Altered runoff patterns, leading to increased erosion and							stockpiled upgradient of the excavated area.		
FEATURES) AND	sedimentation of the receiving freshwater features down							Mixture of the lower and upper layers of the		
SPANNING OF THE	gradient of the development;							excavated soil must be kept to a minimum.		
PROPOSED POWERLINE: Potential	quality (if surface							(support structures), immediately after		
movement of	water is present).							installation of the support structures and/or		
construction equipment	Cumulative impact, on a localised scale, would be moderate							other infrastructure;		
and personnel within	snoula the Taalbos and Soutrivier WEF clusters' Overhead Lines							 Material used as bedding material (at the bottom of the excavated foundation nit) must 		
the neshwater leatures	that the Overhead Line infrastructure is proposed by the same							be stockpiled outside of the 32m NEMA ZoR		
	developer and the EMPrs will be prepared to the same							and as close as possible to the support		
	standard.							structures footprint area. Once the pit has		
	ivo-go alternative would result in no impact related to							been excavated, the bedaing material must directly be placed within the foundation pit		
	activities are present on site.							rather than stockpiling it alongside the		
INSTALLATION OF	Potential contamination of surface water (if present).	DIRECT	REGIONAL	SHORT	PROBABLE	MODERATELY	HIGH -	foundation pit;	REVERSIBLE	LOW -

	SYNTHESIS	S OF SPECIA	LIST IMP	ACTS AS EX	XTRACTED F	ROM THE	SPECIALIST I	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
THE SUPPORT	Cumulative impact, on a localised scale, would be moderate			TERM		SEVERE		▲ The bedding layer (such as clean gravel) must		
STRUCTURES (FURTHER THAN 32 M BUT WITHIN 100 M OF THE	should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer, and the EMPrs will be prepared to the same	CUMULATIVE	REGIONAL	SHORT TERM	PROBABLE	MODERATE	MODERATE -	 be spread evenly and compacted uniformly to the required density using a hand tamper (one man operator) in order to minimise the use of large machinery within the freshwater feature or within close proximity to a freshwater feature; When the powerline is strung between the support structures, no vehicles may indiscriminately drive through the freshwater features, use must be made of the existing access roads. 	REVERSIBLE	LOW -
DELINEATED FRESHWATER FEATURES) AND	standard. No-go alternative would result in no impact related to disturbance of aquatic habitats as no known earthworks									
SPANNING OF THE PROPOSED POWERLINE: Mixing and casting of concrete for	activities are present on site.									
foundations								 Control measures for concrete mixing on site: No mixed concrete may be deposited outside of the designated construction footprint; 		
								 As far as possible, concrete mixing must be restricted to the batching plant. Additionally, batter / dagag board mixing travs and impermeable 		
								sumps must be provided, onto which any mixed concrete can be deposited while it awaits placing; and		
								 Concrete spilled outside of the demarcated area must be promptly removed and taken to a suitably licensed waste disposal site. With regards to backfilling of the concrete 		
								 encasing: Soil removed for excavating the foundation pit must be used as backfill material; 		
								 All excavated pits must be compacted to natural soil compaction levels to prevent the formation of preferential surface flow paths and subsequent arcsion. Conversely, grass 		
								compacted as a result of construction activities must be loosened to natural soil compaction levels:		
								Any remaining soil following the completion of backfilling of the pits are to be spread out thinly surrounding the installed support		
								structures (outside of the delineated freshwater features) to aid in the natural reclamation process; and		
								 The construction jootprint must be limited to the foundation pit area associated with the support structures and recommended 5 m construction buffer (to allow for the 		
								stockpiling and movement of personnel). The area must be rehabilitated after the completion of the construction phase,		
								including revegetation thereof with indigenous vegetation. In addition, alien		

	SYNTHESIS	S OF SPECI	ALIST IMP	ACTS AS EX	XTRACTED I	ROM THE	SPECIALIST	REPORTS
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								vegetation eradio must be unde Hydroseeding recommended.
ACCESS ROUTE "JEEP- TRACK": SOIL	Soil compaction for the access route; Disturbances of soil resulting in altered runoff patterns within the visibility of the freshwater features; and	DIRECT	STUDY AREA	SHORT TERM	PROBABLE	MODERATELY SEVERE	MODERATE -	 All footprint area possible and vege
COMPACTION FOR THE ACCESS ROUTE AND	the vicinity of the freshwater features; and Altered runoff patterns, leading to increased erosion and	CUMULATIVE	STUDY AREA	SHORT TERM	PROBABLE	MODERATELY SEVERE	MODERATE -	to what is absolut No vegetation cle
ASSOCIATED DISTURBANCES OF SOIL WITHIN THE VICINITY OF THE FRESHWATER FEATURES	sedimentation of freshwater habitat.NO-GOF SOIL NITY ATERCumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to disturbance of aquatic habitats as no known earthworks activities are present on site.NO-GO			freshwater featur No formal paving route. In situ com track" as propose				
CUMULATIVE IMPACT	Direct and indirect impacts identified within the assessed	DIRECT						🔺 With manageme
	freshwater features can predominantly be attributed to informal road crossings leading to limited alien and invasive	CUMULATIVE	STUDY AREA	SHORT	PROBABLE	SLIGHT	LOW -	implemented dui and monitorina
	species establishment. Considering that the proposed powerline support structures and substation will be located outside the assessed freshwater features (thus avoiding direct negative impacts), increased vehicular movement and infrastructure in the surrounding landscape may result in indirect edge effects. Such edge effects may have cumulative impacts to the freshwater features, with specific mention of alien and invasive species establishment and increased sediment loads.	NO-GO			NO IMPACT			substation for operational pha. negative impac cumulative impac can, therefore, bu
				AVIFAUNAL IM	PACT ASSESSMEN	Т		
THROUGH DISTURBANCE	or population level by increasing stress, decreasing food and habitat availability, causing displacement into potentially less suitable neighbouring environments, and ultimately potentially decreasing reproductive success (Frid & Drill 2002, Percival 2005, Birdlife SA 2017, Bennun et al. 2021). This is particularly true for resident breeding species, some of which are shy, secretive and not habituated to human activities. For this project, disturbance is of particular concern due to the confirmed occurrence of the SCC Ludwig's Bustard, Verreaux's Eagle, Blue Crane, Karoo Korhaan, Lanner Falcon and Secretarybird, which are all locally breeding residents. The impact of disturbance on avifauna is negative and would affect the PAOI for the duration of all phases. Some disturbance is definite to occur, but the impact will cease with the completion of the phases and is reversible. Avifauna could	CUMULATIVE NO-GO	STUDY AREA	SHORT TERM	DEFINITE NO IMPACT	SLIGHT	LOW -	 at the design st nesting, roosting sensitive species layout design. In order to ensure the proposed dis the commencer decommissioning the site must k possible prior t activities. The impact n outcomes as per the EMPr for the
	continue to be present on site but in a modified manner, if for example breeding SCC are affected.							

ION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
ication of the footprint area ertaken where applicable. of disturbed areas is		
as must remain as small as etation clearing to be limited	REVERSIBLE	LOW -
itely essential; earing must take place in the	REVERSIBLE	LOW -
res; and g must be used for the access npaction of soil for the "jeep- ed is preferred.	NO IM	РАСТ
ent and mitigation measures ring the construction phase of support structures and	REVERSIBLE	LOW -
any erosion during the se, the direct and indirect ts can be reduced, thus act on the larger catchment e considered low/limited.	NO IMI	РАСТ
be managed and mitigated	ACHIEVABLE	LOW -
age by avoiding important g and foraging areas of during site selection and	ACHIEVABLE NO IMI	PACT
e no SCCS are breeding within sturbance footprint prior to ment of construction or g activities, a walkthrough of be conducted, as close as to the commencement of management actions and Table 11 must be included in		

	SYNTHESIS	S OF SPECI	ALIST IMP	ACTS AS E	XTRACTED	FROM THE	SPECIALIST	REPORTS
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					LIKELIHOOD)			
	Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to disturbance of avifaunal habitats.							
DISPLACEMENT	Any transformation of vegetation leads to habitat loss for avian	DIRECT	STUDY AREA	LONG-TERM	DEFINITE	MODERATELY	MODERATE -	 With implement avoids all SCC breact
LOSS	areas which are potentially less suitable or already occupied by	CUMULATIVE	STUDY AREA	LONG-TERM	DEFINITE	MODERATELY	MODERATE -	pre-construction
	competing individuals or species (Frid & Dill 2002, Percival 2005, Dwyer et al. 2018). The clearing of vegetation will be required for the servitude road and pylon foundations and associated infrastructure. Pylons also represent potential new nesting, roosting and perching habitat for a variety of species, which would be lost with decommissioning. For some of these, in particular Martial Eagle and Verreaux's Eagle this will however be a higher risk environment than their natural substrate, due to the associated risk of collisions and electrocutions. The impact of habitat loss on avifauna is negative and would affect the site directly and surrounding areas indirectly through displacement. Therefore, the spatial extent of the impact is rated as the study area. Habitat loss is definite to occur and may impact SCC. Reversibility is considered to be possible with rehabilitation to some degree for the construction phase. The impact will persist for the lifetime of the facility and is therefore rated as long-term. The habitat is of Least Concern, with much equivalent habitat remaining in surrounding areas, but the resource will be partly lost. The severity of habitat loss for SCC is potentially severe if habitat loss occurs within breeding areas.	NO-GO			NO IMPACT	SEVERE		and likelihood of development for small. Mitigation of hall the development by retaining as vegetation as pu footprint of all including buildin and the width an Pylons should nesting birds by i nesting devices. avifaunal walkt active nesting an could have es lifetime of the a protected until th The impact m outcomes as per the EMPr for the
	the OHPL and infrastructure as a perching, roosting or nesting locality. Decommissioning therefore potentially results in habitat loss for these individuals, and can affect breeding success. The affected species are likely to be SCC. Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to disturbance of avifaunal habitats.							

ION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
ation of an alignment that	ACHIEVABLE	LOW -
eeding sites, and an avifaunal walkthrough the severity	ACHIEVABLE	LOW -
can be reduced. The total otprint would be relatively	NO IMF	РАСТ
bitat loss from construction of t is only marginally possible is much of the indigenous ossible, and minimising the l associated infrastructure, hags, electrical infrastructure and length of roads. be made unattractive for installing anti-perch and anti- Before decommissioning an hrough must identify any and breeding sites of SCC, that istablished throughout the levelopment, which must be the breeding has concluded. management actions and Table 11 must be included in proposed development.		

	SYNTHESIS	S OF SPECI	ALIST IMP	ACTS AS EX	XTRACTED I	ROM THE	SPECIALIST	REPORTS
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				HERITAGE IMP	LIKELIHOOD)			
LOSS OF HERITAGE	Construction activities pose the greatest threat to tangible	DIRECT	STUDY AREA	SHORT TERM	MAY OCCUR	SLIGHT	LOW -	Stone Age remains occur abundantly in
OCCURANCES	during this Phase that heritage sites are lost. Previously							the manufacture of stone tools is available raw
	undetected cultural (archaeological) layers are usually superficial, subsoil layers and that makes them easily	CUMULATIVE	STUDY AREA	SHORT AND LONG TERM	MAY OCCUR	SLIGHT	LOW -	geological setting. Most of the ar probably Middle Stone Age (MSA) lith
	vulnerable to destruction and the likelihood for	NO-GO						blades, scrapers, chunks and cores p
	encountering additional cultural heritage sites as the land clearing process commences, or during construction of	CUMULATIVE	STUDY AREA	SHORT AND LONG TERM	MAY OCCUR	SLIGHT	LOW -	quartzite. Single possible Later Stone microlithic tools were noted. Stor
	infrastructure should be considered.							scatters are usually located in areas
	Cummulative impact: The low frequency of significant archaeological resources documented in the project area and in its immediate surroundings implies low-severity short and long-term impacts on the heritage landscape Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to destruction of archaeological resources.	NO-GO						gravels along drainage lines, pans decomposing calcretes, rocky outcrop Despite the high number of obse artefacts and high densities in pla resources are common and represe similar scatters across widespread at Karoo. The widespread but epheme are often of low heritage value due to mixed contexts and the frequent a faunal, organic and other cultural ren is scattered over thousands of square of the Karoo. The Stone Age localit conservation-worthy and even the resources may be destroyed during co the impact is inconsequential. Information on the layout of civil serve access roads were made available to s an advanced stage of this assessment of these proposed access road aligned be included in site investigation recommended that a suitably archaeologist be appointed du Construction Phase to monitor vegetat and excavation activities for the occurrence of archaeological materia and features in these areas. Considering the localised nature of remains, the general monitoring development progress by an ECO heritage specialist is recommended for of the project. Should any palaeontological, archaeological or material, or burials be exposed construction activities, all activities suspended and the archaeological should be notified immediately. <i>Cumulative impact:</i> <i>The significance of the landscape in the</i> and secavation activities areas.

REVERSABILITY MITIGATION

SIGNIFICANCE POST-MITIGATION

n the project material for ilable in the rtefacts are hics such as produced on e Age (LSA) ne artefact with fluvial and within ps or ridges. ervations of aces, these sentative of areas of the eral scatters o temporally absence of mains which e kilometres ties are not hough the onstruction,

vices such as specialists at t and not all ments could ons. It is qualified luring the tion clearing ne possible rial remains

of heritage g of the or by the or all stages subsurface historical sed during should be specialist

terms of its g the course

REVERSIBLE,	LOW -
EASILY	
ACHIEVABLE	
REVERSIBLE	LOW –
	AND LOW (+)
NO IMP	ACT
NO IMP	ACT
NO IMP REVERSIBLE	ACT LOW –
NO IMP REVERSIBLE	ACT LOW – AND LOW (+)

NO IMPACT

	SYNTHESIS	S OF SPECIA	ALIST IMP	ACTS AS EX	KTRACTED P	ROM THE	SPECIALIST	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
								of construction, operation and decommissioning of the project. It should be noted that archaeological knowledge and the initiation of research projects into significant archaeological sites often result from Heritage Impact Assessments conducted for developments. Provided that significant archaeological sites are conserved and that appropriate heritage mitigation and management procedures are followed, the cumulative impact of development can be positive.		
			PAI	LAENTOLOGICAL	IMPACT ASSESSM	IENT	-			
LOSS OF PALAEONTOLOGICAL	Disturbance, damage, destruction or sealing-in of legally protected, scientifically valuable fossil remains preserved at or	DIRECT	LOCALISED	LONG TERM	POSSIBILITY	MODERATE TO SEVERE	LOW -	Impact severity can be effectively (albeit only partially) mitigated through:	IRREVERSIBLE	LOW -
HERITAGE RESOURCES	beneath the ground surface within the development footprint, especially during ground clearance or bedrock excavations	CUMULATIVE	LOCALISED	LONG TERM	POSSIBILITY	MODERATE TO SEVERE	LOW -	 Pre-construction walk-down of authorized project footprint by specialist palaeontologist 	IRREVERSIBLE	LOW -
	Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to loss of palaeontological resources.	NO-GO			NO IMPACI			 Ongoing monitoring for fossil remains of all substantial bedrock excavations and surface clearance activities by ECO during Construction Phase, with safeguarding and reporting of new palaeontological finds (notably fossil vertebrate bones & teeth) to SAHRA for possible specialist mitigation (See appended Chance Fossil Finds Protocol). Low Negative impact may also be partially offset by professional recording and collection of new fossil finds, which may be a compensatory positive outcome. Cumulative impacts: Anticipated cumulative impacts on local palaeontological heritage fall within acceptable limits based largely on the paucity of significant fossil sites recorded hitherto within the combined cluster project area and assumes that the proposed Pre-Construction and Construction Phase mitigation measures recommended for all these projects are implemented in full. 		ACI
	The construction of goods trucking bout stands work	DIRECT	RI		MPACT ASSESSMI			Turbings and pulses should be brooted as to the		LOW
LOSS OF HABITAT	The construction of roads, turbine hard-stands, roads and		STUDY AREA	SHUKT TERM	PROBABLE	SEVERE	AIGH -	 I urbines and pylons should be located outside of the buffers around rivering babitat 	REVERSIBLE	
	aydown areas will result in the destruction of vegetation and top-soil within areas of potential Riverine Rabbit habitat. No turbines should be constructed in riparian zones demarcated as High sensitivity, or their associated buffers. Furthermore, the developer should strive to reduce the amount of roads intersecting these riparian zones. If these measures are correctly implemented the total extent of habitat loss is likely	NO-GO	STUDY AREA	SHORT TERM	I PROBABLE NO IMPACT	SEVERE	HIGH -	 of the buffers around riverine habitat An ECO must be employed to demarcate areas for use during construction, and to ensure that the construction activities remain within the designated area and that no unauthorised activities occur outside of the construction footprint 	REVERSIBLE NO IMP	LOW -
	to be low, and the resulting impact on the species from habitat							Avoid road development traversing riparian		

	SYNTHESIS	S OF SPECIA	LIST IMP	ACTS AS EX	KTRACTED F	ROM THE	SPECIALIST I	REPORTS		
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	loss would also be low. Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on the local Riverine Rabbit population.							areas, where possible		
DISTORBANCE THROUGH CONSTRUCTION NOISE	Ine construction of roads, turbine hard-stands, roads and laydown areas will result in elevated levels of both noise and activity, which may displace potential Riverine Rabbits out of the Aol. Mitigation should include minimizing noise and educating workers. If done, the potential displacement of the species from home range is likely to be very low. As there are limited areas of potentially suitable Riverine Rabbit on the site, this would be a largely minimalised, thus requiring minimal mitigation. <i>Cumulative impact, on a localised scale, would be low should</i> <i>the Taaibos and Soutrivier WEF clusters construction timelines</i> <i>overlap. However, it is important to note that the 5 WEFs and</i> <i>their associated infrastructure are proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would result in no impact on the local</i> <i>Riverine Rabbit population.</i>	DIRECT CUMULATIVE NO-GO	STUDY AREA STUDY AREA	SHORT TERM	PROBABLE PROBABLE NO IMPACT	SLIGHT	LOW -	 An ECO must be employed to demarcate areas for use during construction, and to ensure that the construction activities remain within the designated area and that no unauthorised activities occur outside of the construction footprint Traffic and loud machinery should be prohibited during the early hours of the morning (04:00 – 09:00) and early evening (18:00 – 22:00) Any trenches built must have slopes that allow any dispersing rabbits that fall in to escape and must be backfilled. 	REVERSIBLE REVERSIBLE NO IMP	LOW - LOW - ACT
	Roadkill is a significant source of mortality for Riverine Rabbits		STUDY AREA	SHORT TERM	POSSIBLE	SEVERE	MODERATE -	Prohibit all employees from hunting	REVERSIBLE	LOW -
BUSHMEAT HUNTING	in and around the AoI will increase with the added traffic, particularly during the construction phase. This would potentially occur within the site as well as on the nearby larger public roads (such as the R381). During operation, however, this potential impact would be significantly reduced. As Riverine Rabbit activity is 'crepuscular' (i.e., highest between dusk and dawn), traffic during these periods should be curtailed. In addition, speed limits (<40km) in all areas of potential conflict (i.e. High sensitivity) should be implemented to reduce collision risk. Finally, a limitation of roads within the drainage habitat within the AoI should be considered. Bushmeat hunting and active interference with Riverine Rabbits by construction employees may also result in reduced Riverine Rabbit occurrence within the AoI. All employees should be educated thoroughly on the potential impact of hunting in the AoI, and encouraged to report any sightings of the species during construction to their line managers. <i>Cumulative impact, on a localised scale, would be low should</i> <i>the Tagihos and Soutrivier WEE clusters construction timelines</i>	NO-GO	SIGDIAREA		NO IMPACT	JLVLINE		 Promult open fires Prohibit any domestic carnivores (e.g. dogs) from entering the site with employees An ECO must be employed to demarcate areas for use during construction, and to ensure that the construction activities remain within the designated area and that no unauthorised activities occur outside of the construction footprint Avoid road development traversing riparian areas, where possible Speed restrictions for all project vehicles (40km/h is recommended) should be in place to reduce road kills of rabbits killed on the project roads. Traffic should be reduced during the early hours of the morning (04:00 – 09:00) and early evening (18:00 – 22:00) Any contractor employed for development work must ensure that no rabbit or hare species are disturbed, trapped, hunted or killed by them and their team during the 	NO IMP	ACT

	SYNTHESI	S OF SPECI	ALIST IMP	ACTS AS EX	XTRACTED	FROM THE	SPECIALIST	REPORTS
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGAT
	overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on the local			1			1	construction pha clauses should b construction pe penalty clauses fo
			50		INADACT ACCECCA			1
TEMPORARY EMPLOYMENT	During the construction phase, there will be temporary employment associated with the project. It has been	DIRECT	LOCAL	SHORT TERM	DEFINITE	MODERATELY	SOME BENEFITS	 Maximise local en (the Project's dire
	established that approximately 50 employment opportunities will become available over the 8-month construction period.	CUMULATIVE	NATIONAL	SHORT TERM	DEFINITE	MODERATELY BENEFICIAL	HIGH +	Preferential Procu Services Manage
	Of these about 55% will be allocated to unskilled, 30% to semi- skilled and 15% to skilled workers. Semi- and lower skilled workers are usually required to perform electrical and civil duties (site clearing, excavation and casting of concrete foundations, stormwater reticulation, trenching, access roads, cable installations, structural steelwork, buildings, fencing, etc.); whereas higher skilled professionals entail Project Managers, Engineers, Environmental Control Officers and so forth. In addition to direct employment, the construction phase will have a positive spin-off effect on the economy (local, regional and national) through procurement of goods and services, with indirect and induced employment creation as result. <i>Cumulative impact, on a localised scale, would be HIGH should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard.</i>	NO-GO			NO IMPACT			 contractors that a Involve the Ubun early processes (fip possible). Determ with regards to a employment procestakeholders. Appoint a Comm Officer / CL communities threensure transport expectations and
	No-go alternative would not impact the SEIA ratings significantly.	DIRECT	ΝΑΤΙΟΝΑΙ		DEEINITE	SUGHTLY	101//+	Maximise the Pro
ECONOMIC IMPACTS	earnings due to temporary employment result in various induced economic impacts and spin-offs for the local and		NATIONAL	SHORT TERM	DEFINITE	BENEFICIAL		possible.
	regional economies, such as: Business opportunities for the service and manufacturing	NO-GO				BENEFICIAL		
	 industries (locally and nationally), e.g. transport, Personal Protective Equipment, maintenance work, general consumables, civil works; Wages that are spent locally and a general improvement of income levels with higher spending benefits and spinoffs for local businesses, retail, sales, leisure and hospitality, real estate, etc.; Local accommodation facilities that house the workers sourced from outside the direct Project sending area and spin-offs for the tourism industry. Since at least 20% of the South African workforce has to be 							

ION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
ase. Conservation-orientated be built into contracts for ersonnel, complete with for non-compliance		
· · · ·		
mployment and local content	DIFFICULT	SOME
urement Plan and Contractor	DIFFICULT	HIGH +
ement Plan (CSMP) for all		
ntu LM and PKSDM from the from financial close already if nine their existing processes a labour desk and streamline accesses between the various munity Employer Relations LO. Communicate with rough this one channel to arency, limit unrealistic I to avoid conflict.		
oject's local content as far as	VERY DIFFICULT	LOW +
	VERY DIFFICULT	LOW +
	NO IMP	ACT

SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS										
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	residents from local communities a large portion of these induced impacts will manifest locally. Definite positive impacts of 'low significance' will manifest. Wallet loose b Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would not impact the SEIA ratings significantly.									
TRAINING / SKILLS DEVELOPMENT	An important outcome of training and skills development is that it increases the employability of a region's workforce.	DIRECT	REGIONAL	SHORT TERM	DEFINITE	SLIGHTLY BENEFICIAL	LOW +	Where feasible, the Developer should: ACHIEVABLE MODERATE + Make the skill requirements clear to the		
	resulting in enhanced economic opportunities and thus	CUMULATIVE	REGIONAL	SHORT TERM	DEFINITE	SLIGHTLY	MODERATE +	municipalities in advance and do a skills ACHIEVABLE MODERATE +		
	 During the construction phase the following training initiatives would usually take place: On-site training so that workers can safely perform their duties; and Training by contractors to maintain their own BBEEE level, such as health and safety legislation training, first aid, firefighting, construction skills, basic electrical training, quality management, legal compliance or business skills. Consultation with the affected local and district municipalities however identified a great need for training and capacity building as most of the workers and SMME's on their databases are poorly educated with limited skills. These constraints result in gaps between the Developers' requirements and the local communities' / SMME's abilities to provide the required services. It would thus be to the advantage of the Project if on-the-job training is implemented, especially for unskilled workers. Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. 	NO-GO			NO IMPACT			 Implement a SMME skills development programme and do certification (training on how to tender, understanding contracts, basic business skills, etc.) at least 4 months prior inviting SMMEs to tender and involve the relevant LED Units in the programmes. Do a Value-chain analysis of services required (directly and indirectly related to construction) and communicate this to local and district municipalities in advance so that they are prepared and equipped to take part in the tender process. Require larger contractors to work with small SMMEs to train and transfer skills and include this in their respective CSMP's. Implement on-the-job training for unskilled workers. Capacitate the local government structures by involving them as early as possible in the Project; remain transparent throughout the processes. Negotiate a MoU with the municipalities so that each role-player is clearly aware of its roles, responsibilities and timelines in the Project processes. Establish an EMC or similar Forum for the duration of construction to aid communication and transparency. Members of the EMC / Forum to meet on a quarterly basis to discuss issues that may arise during the course of the construction period (if feasible). 		
EMPLOYMENT EQUITY	Statistics obtained from the IP4 overview (DMRE, December 2021) indicate that during the construction phases. Black	DIRECT	REGIONAL	SHORT TERM	DEFINITE	MODERATELY SEVERF	LOW +	Obtain inputs from the local and district ACHIEVABLE MODERATE + municipalities on the contents of the		

	SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS												
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	South African citizens, Youths and rural local communities	CUMULATIVE	REGIONAL	SHORT TERM	DEFINITE	MODERATELY	LOW +	Procurement strategy and Employment	ACHIEVABLE	MODERATE +			
	have primarily been the beneficiaries of RE projects, as they respectively represent 81%, 44% and 48% of total job opportunities created by IPP's to date. However, woman and the disabled could still be significantly empowered as they represent a mere 10% and 0.4% of total jobs created. Pre-mitigation positive impacts of employment equity will hold benefits of 'low overall significance' if only the DMRE's minimum requirements are implemented. With mitigation, the intensity of the impact will increase, and the overall significance can be increased to hold 'moderate benefits'. <i>Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard.</i>	NO-GO			NO IMPACT	SEVERE		 Set targets for the employment of Youth, women and the disabled in the respective CSMPs. 	NO IMI	PACT			
	No-go alternative would not impact the SEIA ratings significantly.				1								
IMPACTS ASSOCIATED	Negative impacts that could manifest for local communities	DIRECT	REGIONAL	SHORT TERM	PROBABLE	MODERATELY	MODERATE -	Employment / Temporary construction workers:	ACHIEVABLE	LOW -			
JOBSEEKERS /	 and the local and district municipalities due to an influx of jobseekers / temporary construction workers include: Conflict between locals and 'outsiders' if the outside labour force receives preference; Conflict due to cultural differences; Increase in the size and number of informal settlements and additional pressure on local government for housing and related services; Increase in the unemployment rate if jobseekers and/or workers do no return to their places of residence post construction; Unwanted pregnancies, an increase in HIV/AIDS and other sexually transmitted diseases (STDs) and additional pressure on health care services; An increase in single parent households and a subsequent reliance on social grants; An increase in drug and alcohol abuse and other social issues should unemployment levels increase. Poor conduct of construction workers and inadequate management of the construction site could result in health and safety risks for landowners that include: Unauthorized access / trespassing resulting in theft, stock poaching, safety and security issues as well as potential damage to the veld and natural grazing; Fire hazards at the construction site and the possibility of fires spreading and damaging surrounding farmland and infrastructure; 	CUMULATIVE	REGIONAL	SHORT TERM	PROBABLE	MODERATELY	MODERATE -	labour sending area and compile the	ACHIEVABLE	LOW -			
WITH AN INFLUX OF JOBSEEKERS / j TEMPORARY (CONSTRUCTION f WORKERS (NO-GO			NO IMPACT	SEVERE		 Imployment strategy in collaboration with the affected municipalities' LED Units. Contractually oblige contractors and subcontractors to only source labour through the labour desk / job registration database and make this known to the target communities. Work through limited communication channels (e.g. Ward Councillors and the Employer Relations Officer / CLO). Be vigilant not to raise unrealistic expectations amongst the local communities and workers with regards to employment, skills requirements, local procurement and so forth. Ensure transparency through the Ward Councillors, CLO and the EMC / Forum. No recruitment of temporary workers at the access to the construction site. As part of their Social Management Plan's (SMP's), contractors to provide a transport and housing plan: (i) no workers are allowed to be housed on site or in informal housing / settlements; (ii) allow workers that do not live nearby time to return to their families at regular intervals or over weekends. No workers to remain on site after shifts. It is also recommended that the Developer 	NO IMI	PACT			

SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS										
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	facilities, littering and refuse) and so forth. In terms of security, landowners and community members could easily consider this construction project as the catalyst should local crime levels and stock theft increase and affect their quality of life. Landowners in and around the study area describe their environment as extremely safe and peaceful with minimal / low levels of crime. Impacts that relate to an influx of construction workers would increase if contractors and sub-contractors refrain from using the labour desk and prefer to bring in their own workforce. The Developer's commitment to maximize local labour, design the recruitment process in conjunction with the municipalities and implement relevant security measures for the duration of construction is thus essential. <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the Taaibos and Soutrivier WEF clusters' Overhead Lines</i> <i>construction timelines overlap. However, it is important to note</i> <i>that the Overhead Line infrastructure is proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would not impact the SEIA ratings</i> <i>significantly.</i>							 the workforce that focuses on sexual health, unwanted pregnancies and related social issues. Security, safety and environmental health: 24-hour security, demarcate and fence the construction site (if possible), material stores to be secured, access control and no trespassing of workers outside designated construction areas. Join the local community policing forum or similar initiative for the duration of construction. Keep the local SAPS, other emergency services, Ward Councillors, landowners and other relevant stakeholders informed about the construction progress and time-lines. Develop a Fire / Emergency Management Plan in conjunction with affected and neighbouring landowners. Dispose of the various types of waste generated in the appropriate manner at licensed waste landfill sites at regular intervals. Comply with the waste management plan compiled for the construction prase. Display "danger" warning signs and "no public access" signs at all potential accesses, paths and along the periphery of the construction period. Ensure implementation of the provisions of the Occupational Health and Safety Act No. 85 of 1993 and adhere to the Emergency and Safety plan procedures for the duration of the Construction phase. Awareness / community engagement: Keep open communication channels with the landowners and address any potential issues as a matter of priority. Make a complaints register / log book available at the entrance to the construction site and exit provesions and EMC / Forum. 		

	SYNTHESI	S OF SPECIA	ALIST IMP	ACTS AS EX	(TRACTED	FROM THE	SPECIALIST	REPORTS
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								 Consult with surr livestock, privat infrastructure cou and other impace movement and activities. Where required, management plan to protect livest addresses restrict when farm gates so forth. Rehabilitate the w construction.
INTRUSION IMPACTS	Intrusion impacts could indirectly impact agricultural land uses thereby having a negative effect on incomes of	DIRECT	STUDY AREA	SHORT TERM	DEFINITE	MODERATELY	MODERATE -	 Comply with the address any notes
	landowners, such as:	CUMULATIVE	STUDY AREA	SHORT TERM	DEFINITE	MODERATELY	MODERATE -	 Proper plannii
	 Negligent construction workers that do not close / lock farm gates resulting in animals that go missing and/or mix with animals in different breeding groups / cycles, potentially introducing diseases into herds; Livestock that is killed on access roads if drivers do not adhere to speed limits and traffic rules; Dust that impact the quality of wool and/or dust that settle on grazing land and have an impact on livestock carrying capacity; Possible noise impacts; and Construction activities that hamper the farmers' access to their own farms. The increase in traffic could result in the degradation of road surfaces and speeding / negligent drivers could cause accidents and fatalities, subsequently placing pressure on local emergency, disaster management and health care services (fire, ambulance, police services, etc.). Abnormal vehicles that transport large project infrastructure could also necessitate intermittent road closures. <i>Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard.</i> 	NO-GO			NO IMPACT	SEVERE		 Fendbillation of forego the visual activities, as pro Planning & Enviro Implement all proposed Discuss constr landowners so the take place away f Collaborate wite management age are required and in advance. Impose penalties to enforce compli
HEALTH AND SAFETY	significantly. Health and safety risks for workers and the broader community	DIRECT	LOCALISED	SHORT TERM	MAY OCCUR	SEVERE	MODERATE -	→ Ensure implemer
RISKS FOR WORKERS	are possible to manifest. Community health and safety risks	CUMULATIVE	LOCALISED	SHORT TERM	MAY OCCUR	SEVERE	MODERATE -	the Occupational
	are associated with the inflow of workers. The Occupational	NO-GO			NO IMPACT			No. 85 of 1993) a
	the health and safety Act (Act No. 85 of 1993) makes provision for the health and safety of workers at construction sites. These							the construction i
	the nearth and safety of workers at construction sites. These							 Promote good co

TION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
rounding landowners whose te residences and other uld be affected by dust, noise acts that result from traffic ad general construction d, draw up a land use an with individual landowners stock and farmland, which ated access areas, procedures s are opened and closed and veld to its original state post		
he EMPr requirements to ential noise and dust impacts.	DIFFICULT	MODERATE -
ing, management and f all construction sites to	DIFFICULT	MODERATE -
l impacts of the construction roposed in the VIA (Nuleaf onmental, October 2022). mitigation measures as rruction timelines with hat grazing of livestock can from construction areas. ith the necessary road gencies when road closures I advertise alternative routes is for reckless drivers as a way liance to traffic rules.		ACT
ntation of the provisions of	ACHIEVABLE	LOW -
II Health and Safety Act (Act	ACHIEVABLE	MODERATE -
procedures for the duration of phase.	NO IMP	'ACI

	SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS											
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					LIKELIHOOD)							
	 risks are broadly associated with: Construction related accidents due to structural safety of Project infrastructure, possibly resulting in fatalities; Dust generation and air pollution resulting in respiratory diseases; High ambient noise levels caused by machinery and construction equipment, resulting in loss of hearing or other similar health issues; Dehydration, sunburn and related issues for workers due to unsafe and insufficient drinking water and high temperatures during summer months; and An increase in HIV/AIDS and other STDs due to prostitution activities and temporary sexual relationships with local women and unwanted pregnancies that place further pressure on Basic Health Care Services. <i>Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard.</i> 							 awareness campaigns. It is also recommended that the Developer embarks on a Social Awareness Campaign for the workforce that focuses on sexual health, unwanted pregnancies and related social issues. Contractors to provide a housing plan that makes provision for workers that do not live nearby to return to their families at regular intervals or over weekends. Provide safe and clean drinking water and instil regular water breaks to keep workers hydrated. Provide sufficient ablution facilities (chemical/portable toilets, etc.) at strategic locations that are cleaned regularly. Keep the local police, emergency and ambulance services informed of construction times and progress. 				
	significantly.		TEDDEC			CCNAENIT						
ΡΟΤΕΝΤΙΔΙ	Permanent or temporary loss of indigenous vegetation cover	DIRECT		DERMANENT		SUGHT	LOW -	Blanket clearing of vegetation must be limited		LOW-		
TERRESTRIAL BIODIVERSITY IMPACTS VEGETATION	because of site clearing. Site clearing before construction will result in the blanket clearing of vegetation within the affected footprint.	CUMULATIVE NO-GO	LOCALISED	PERMANENT	DEFINITE NO IMPACT	SLIGHT	LOW -	 to the site. No clearing outside of required footprint required for construction to take place. Topsoil must be striped and stockpiled separately during site preparation and 	DIFFICULT NO IMP	LOW -		
	the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on vegetation.							 replaced on completion where revegetation will take place. Any site camps and laydown areas requiring clearing must be located within already disturbed areas as far as possible, or away from watercourses, alluvial areas and other sensitive features (rocky outcrops). 				
POTENTIAL	Loss of flora species of special concern during pre-construction	DIRECT	LOCALISED	PERMANENT	DEFINITE	SLIGHT	LOW -	▲ A flora search and rescue is recommended	REVERSIBLE	LOW -		
	site clearing activities. Several special of concern are known		LOCALISED	PERMANENT	DEFINITE	SLIGHT	LOW -	before commencement.	REVERSIBLE	LOW -		
FLORA SPECIES	preparation.	NO-GO			ΝΟΙΜΡΑCΙ			beforehand.	NO IMP	ACI		
	Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on floral species.											
POTENTIAL	Susceptibility of post construction disturbed areas to invasion	DIRECT	LOCALISED	SHORT TERM	DEFINITE	SLIGHT	LOW -	 Alien trees and weeds must be removed from the site as par CARA (NEARA requirements) 	REVERSIBLE	LOW -		
TERRESTRIAL	by exolic and allen invasive species and removal of exolic and	CUIVIULATIVE	LUCALISED	SHORT TERM	DEFINITE	SLIGHT	LOW -	the site as per CARA/ NEIVIBA requirements.	KEVEKSIBLE	LOW -		

of vegetation must be limited	DIFFICULT	LOW -
clearing outside of required	DIFFICULT	LOW -
ed for construction to take	NO IMP/	ACT
be striped and stockpiled ing site preparation and npletion where revegetation		
and laydown areas requiring be located within already as far as possible, or away ses, alluvial areas and other s (rocky outcrops).		
and rescue is recommended	REVERSIBLE	LOW -
ement.	REVERSIBLE	LOW -
rmits to be obtained	NO IMP/	ACT
veeds must be removed from	REVERSIBLE	LOW -
ARA/ NEMBA requirements	REVERSIBLE	LOW -

	SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS											
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION		
BIODIVERSITY IMPACTS	alien invasive species during construction. Post construction disturbed areas having no vegetation cover are often susceptible to invasion by weedy and alien species, which can not only become invasive but also prevent natural flora from becoming established. <i>Cumulative impact, on a localised scale, would be low should</i> <i>the Taaibos and Soutrivier WEF clusters construction timelines</i> <i>overlap. However, it is important to note that the 5 WEFs and</i> <i>their associated infrastructure are proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would result in no impact on alien invasive</i>	NO-GO			NO IMPACT			 A suitable weed and alien invasive plant management plan to be implemented in construction and operation phases. After clearing and construction is completed, an appropriate cover crop may be required, should natural re-establishment of grasses not take place in a timely manner, such as along road verges. This will also minimise dust. 	NO IMF	ACT		
POTENTIAL TERRESTRIAL BIODIVERSITY IMPACTS EROSION	Susceptibility of some areas to erosion because of construction related disturbances. Removal of vegetation cover and soil disturbance may result in some areas being susceptible to soil erosion after completion of the activity. Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard.	DIRECT CUMULATIVE NO-GO	LOCALISED LOCALISED	SHORT TERM SHORT TERM	POSSIBLE POSSIBLE NO IMPACT	SLIGHT SLIGHT	LOW - LOW -	 Suitable measures must be implemented in areas that are susceptible to erosion. Areas must be rehabilitated, and a suitable cover crop planted once construction is completed. Topsoil must be stripped and stockpiled separately and replaced on completion. If natural vegetation re-establishment does not occur, a suitable grass must be applied. 	REVERSIBLE REVERSIBLE NO IMF	LOW - LOW -		
POTENTIAL TERRESTRIAL BIODIVERSITY IMPACTS ECOLOGICAL PROCESSES	Disturbances to ecological processes: Activity may result in disturbances to ecological processes such as fragmentation (road, etc). Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on ecological processes.	DIRECT CUMULATIVE NO-GO	LOCALISED LOCALISED	PERMANENT PERMANENT	DEFINITE DEFINITE NO IMPACT	SLIGHT SLIGHT	LOW - LOW -	 Blanket clearing of vegetation must be limited to the development footprint, and the area to be cleared must be demarcated before any clearing commences. 	DIFFICULT DIFFICULT NO IMF	LOW - LOW - PACT		
POTENTIAL TERRESTRIAL BIODIVERSITY IMPACTS AQUATIC AND RIPARIAN PROCESSES	Aquatic and Riparian processes: Diversion and increased velocity of surface water flows – Changes to the hydrological regime and increased potential for erosion. Impact of changes to water quality. Loss of riparian vegetation / aquatic habitat. Loss of species of special concern. <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the Taaibos and Soutrivier WEF clusters' Overhead Lines</i> <i>construction timelines overlap. However, it is important to note</i> <i>that the Overhead Line infrastructure is proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would result in no impact on aquatic and</i>	DIRECT CUMULATIVE NO-GO	LOCALISED	PERMANENT PERMANENT	DEFINITE DEFINITE NO IMPACT	MODERATE MODERATE	MODERATE - MODERATE -	 Suitable structures to be constructed at watercourse crossings that do not alter flows. Stormwater discharge into watercourses to be protected against erosion. 	REVERSIBLE REVERSIBLE NO IMF	LOW - LOW - ACT		

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ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION		
	riparian processes.											
POTENTIAL	Loss of Faunal Habitat: Activity may result in the loss of habitat	DIRECT	LOCALISED	PERMANENT	DEFINITE	SLIGHT	LOW -	A Blanket clearing of vegetation must be limited	DIFFICULT	LOW -		
TERRESTRIAL	for faunal species, which could result in disturbance and	CUMULATIVE	LOCALISED	PERMANENT	DEFINITE	SLIGHT	LOW -	to the construction footprint required.	DIFFICULT	LOW -		
BIODIVERSITY IMPACTS	displacement of faunal species.	NO-GO			NO IMPACT			▲ Rocky outcrop areas and Riverine Rabbit	NO IMF	РАСТ		
FAUNAL HABITAT	Cumulative impact, on a localised scale, would be XX should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on XX.				1			 Habitat to be avoided as far as possible. It is important that clearing activities are kept to the minimum and take place in a phased manner, where applicable. This allows any smaller animal species to move into safe areas and prevents wind and water erosion of the cleared areas. 				
POTENTIAL	Impacts to faunal processes because of the activity such as	DIRECT	LOCALISED	PERMANENT	DEFINITE	MODERATE	LOW -	The habitats and microhabitats present on the anglish site and microhabitats present on	DIFFICULT	LOW -		
	erection of barriers to movement.		LOCALISED	PERMANENT		MODERATE	LOW -	the project site are not unique and are widespread in the general area hence the	DIFFICULI	LOW -		
FAUNAL PROCESSES	Cumulative impact, on a localised scale, would be XX should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on XX.	NO-GO			NOIMPACI			 widespread in the general area, nerice the local impact associated with the footprint would be of low significance if mitigation measures are adhered to. Small mammals within the habitat on and around the affected area are generally mobile and likely to be transient to the area. They will most likely vacate the area once construction commences. As with all construction sites there is a latent risk that there will be some accidental mortalities. Specific measures are made to reduce this risk. The risk of species of special concern is low, and it is unlikely that there will be any impact to populations of such species because of the activity. Reptiles such as lizards are less mobile compared to mammals, and some mortalities could arise. It is recommended that a faunal search and rescue be conducted before construction is underway. A retile handler should be on call for such circumstances. Should any amphibian migrations occur between wetland areas during construction, appropriate measures (including temporarily suspending works in the affected area) should be implemented. 		2AC1		
POTENTIAL	Loss of faunal SSC due to construction activities: Activities	DIRECT	LOCALISED	PERMANENT	DEFINITE	MODERATE	MODERATE -	▲ A pre-commencement faunal search and	DIFFICULT	LOW -		
	associated with bush clearing, killing of perceived dangerous		LOCALISED	PERMANENT		MODERATE	MODERATE -	rescue is recommended.	DIFFICULT	LOW -		
BIODIVERSITT INPACTS	rauna, may ieau to increaseu mortailties among faunai species.	NU-GU			NO IMPACT			beforehand.	NO IMI	ACI		
FAUNAL SPECIES	Cumulative impact, on a localised scale, would be moderate							 No animals are to be harmed or killed during 				
	should the Taaibos and Soutrivier WEF clusters' Overhead Lines							the course of operations.				
	construction timelines overlap. However, it is important to note							→ Workers are NOT allowed to snare any faunal				

	SYNTHESIS	S OF SPECIA	ALIST IMP	ACTS AS EX	KTRACTED F	ROM THE	SPECIALIST	REPORTS
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY /	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATI
	that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard.							species.
POTENTIAL RISKS TO FAUNA SPECIES OF CONSERVATION CONCERN: HABITAT LOSS, DEGRADATION AND FRAGMENTATION	The development may fragment an already highly fragmented landscape which may create barriers to geneflow where subpopulations are disconnected and isolated. Roads and fences can affect the quality and quantity of available habitat, most notably through fragmentation, creating barriers to animal movement. Erosion from construction may degrade the habitat and direct loss of habitat will occur due to necessity of access roads. <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the Taaibos and Soutrivier WEF clusters' Overhead Lines</i> <i>construction timelines overlap. However, it is important to note</i> <i>that the Overhead Line infrastructure is proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would result in no impact on habitat loss,</i> <i>degradation and fragmentation with regards to faunal species.</i>	DIRECT CUMULATIVE NO-GO	LOCALISED	PERMANENT PERMANENT	DEFINITE DEFINITE NO IMPACT	MODERATE MODERATE	MODERATE - MODERATE -	 Minimising the previsiting roads and technically possible Locate developments ensitive habitats, and buffer zones substations and her construction laydo Implementing and erosion control. Careful planning the length of the length of the length of the length of the sen identified as which may creat habitats. Establish wildlife barriers are found partiers are found to the sen to the sen
POTENTIAL RISKS TO FAUNA SPECIES OF CONSERVATION CONCERN: MORTALITY FROM ROAD COLLISION	There is an increased collision risk from increased traffic levels at the site and in the general area. This impact is likely to be of highest concern during construction but is also expected during the operational phase. Roads and roadsides may attract SCC such as Riverine Rabbits and Karoo Dwarf Tortoises due to verge edge enhancement of vegetation and roads may be used to facilitate movement, thus further increasing collision risks. Access roads that traverse riverine habitats require careful planning and monitoring to reduce risk of rabbit mortality. <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the Taaibos and Soutrivier WEF clusters' Overhead Lines</i> <i>construction timelines overlap. However, it is important to note</i> <i>that the Overhead Line infrastructure is proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would result in no impact on faunal species</i> <i>in relation to road collision mortality.</i>	DIRECT CUMULATIVE NO-GO	LOCALISED	PERMANENT PERMANENT	DEFINITE DEFINITE NO IMPACT	MODERATE MODERATE	MODERATE - MODERATE -	 physical barriers s Develop and imp management plan Careful planning length that trave rocky habitats th Very high or high s Use existing roads Roadkill monitorin and external public habitats and with Monitoring progra pre-construction progra pre-construction and conducted over dia Pre-construction target sites for with monitoring find structures must b road planner, c wildlife biologist. effective than retuin Assess efficiency approaches via roadkill monitorin Implementation internal access With

TION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
project footprint by utilising	DIFFICULT	LOW -
nd disturbed areas as much as	DIFFICULT	LOW -
ble.	NO IMP	РАСТ
ments away from identified ts, this includes no go zones s for turbine pads, electrical housing facilities as well as down areas. adequate dust control and		
of road layout to minimise roads traversing through and rocky ridges that have s Very high or high sensitivity ate barriers and fragment fe passes, where artificial		
nd; this particularly refers to such as roads and fences. plement a site-specific spill		
g of roads to minimise the	DIFFICULT	LOW -
verses through riverine and hat have been identified as a sensitivity. ds as much as possible. ing program on both internal blic roads targeting sensitive wildlife corridors. Roadkill grams must be initiated at a phase and continued during d post-construction as well as different seasons. a road planning to identify wildlife crossing structures e considered during the EIA th pre-construction roadkill adings. Wildlife crossing be made in consultation with construction manager and the fixing existing roads. cy of roadkill mitigation a a post-implementation ing program. of speed limits on both	DIFFICULT NO IMF	LOW - PACT

					VINACILU I		SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS											
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION								
		DIRECT		DEDMANENT	DEEINITE	ΜΟΡΕΡΑΤΕ		 external public roads (60km/h). Reduced speed limits of 30km/h where roads (both internal and external) cross High and Very high sensitivity areas identified; including riverine habitat, koppies and ecotones which may harbour sensitive species and generally have higher species diversity and abundance Wildlife warning signage and speed reduction measures where roads cross High and Very high sensitivity areas. Education and awareness campaigns on SCC and their habitat must form part of staff induction procedures to help increase awareness, respect and responsibility towards the environment for all staff and contractors. Inductions on safe wildlife passing and driving to reduce possible injury and roadkill alongside roads. There is higher risk of collision when animals are more active which is typically from late afternoon to early morning. During these times a low speed limit (30km/h) needs to be implemented. Night-time driving should be avoided as much as possible but if necessary, speed needs to be reduced significantly to avoid collisions. Lagomorph species (hares and rabbits) often freeze in headlights and require headlights to be implemented during reduced visibility such as misty conditions that have been observed on the site. Induction must include reporting of any vehicle/wildlife collision or found roadkill to the appointed Roadkill monitoring personnel. Search and rescue of slow-moving species, specifically Karoo Dwarf Tortoises, during the consulted. Tortoises will need to be carefully relocated and provided shelter and waterrich food as well as monitoring of threatened species to ensure of their survival. Should a subpopulation be found further consultations with a herpetologist will be required for appropriated mitigation. 										
FAUNA SPECIES OF	renewable-energy industry is rapidly expanding in South		LOCALISED	PERMANENT	DEFINITE	MODERATE	MODERATE -	of each development before the next is beaun.	DIFFICULT	LOW -								

	SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS											
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION		
CONSERVATION CONCERN: CUMULATIVE IMPACT	Africa. The local fauna is already impacted and threatened by past and current land use and the combination of these existing anthropogenic impacts with planned developments may impact the local fauna with unexpectedly large effects. Cumulative effects can also result where the construction phase occurs at several locations simultaneously or if a new project begins construction immediately following the completion of another. Cumulative effects can cause a small localized effect (which may have a limited effect on its own) to have a significant impact on population level as there may be thresholds where the cumulative effects increase disproportionally. <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the Taaibos and Soutrivier WEF clusters' Overhead Lines</i> <i>construction timelines overlap. However, it is important to note</i> <i>that the Overhead Line infrastructure is proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would result in no impact from a cumulative</i> <i>faunal species of conservation concern loss perspective.</i>	NO-GO			NO IMPACT			 Use a precautionary approach and aim to minimise negative effects even when the effects are not fully known. Ensure the construction phase is done in as short a period as possible and avoid breeding season, typically in the spring after good rains. Construction needs to be done during daytime, avoiding noise and disturbance when faunal communities are most likely active, particularly where the construction is in proximity to their habitat. Sensitive habitats near construction will need to be clearly marked. Relating construction phase of the development with neighbouring developments and farming activity to ensure construction does not begin immediately after the completion of another or simultaneously. The developer instigates a proactive mitigation measure by initiating a multistakeholder dialogue at a workshop to clarify these concerns and how they might be taken forward and co-funded. The aim of this mitigation is to reduce current impacts that threaten the survival of SCC populations. We recommend a biodiversity wildlife corridor approach whereby protecting sensitive habitats is made a priority. This may include species refuge areas where no form of indiscriminate wildlife killing/snaring is allowed, no or highly reduced livestock grazing, and no pest control including locust spraying is carried out. 	NO IMF	PACT		
POTENTIAL RISKS TO	The effect of the wind farm on one species may have indirect	DIRECT	LOCALISED	PERMANENT	DEFINITE	MODERATE	MODERATE -	→ Initiate a general Fauna Biodiversity	DIFFICULT	LOW -		
FAUNA SPECIES OF	cascading effects (knock on effect) on other species within the same community due to ecological relations to one another		LOCALISED	PERMANENT		MODÉRATE	MODERATE -	vionitoring program		LOW -		
CONCERN:	This means that an effect on one species may in turn affect							initiated pre-construction to have baseline				
	many others within the same ecosystem. Cascading effects							population status and monitoring must be				
CASCADING IMPACT	may be complex and unpredictable as it may be the result of							ongoing post-construction to identify any				
ACROSS TROPHIC	different types of interactions including competition,							changes in occupancy in certain species'				
	predation, parasitism, or symplosis.							impact other fauna populations.				
	Cumulative impact, on a localised scale, would be moderate							★ We recommend the use of multiple				
	should the Taaibos and Soutrivier WEF clusters' Overhead Lines							monitoring methods including and not limited				
	construction timelines overlap. However, it is important to note							to; camera trapping in diverse habitats,				
	that the Overhead Line infrastructure is proposed by the same							targeted camera trapping for SCC; small				
	aeveloper and the ENIPrs will be prepared to the same standard							mammai monitoring with the use of Sherman trans: the use of Conservation Scent Detection				
	stunuulu.							aups, are use of conservation scent Detection				

	SYNTHESIS	S OF SPECIA	ALIST IMP	ACTS AS EX	KTRACTED F	ROM THE	SPECIALIST	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
	No-go alternative would result in no cascading impact across				Encennooby			Dog teams to assist in detecting SCC.		
				OPFRATIO	NAL PHASE					
			A	GRICULTURAL II	APACT ASSESSME	NT				
OCCUPATION OF LAND	Agricultural land directly occupied by the OHL infrastructure	DIRECT	STUDY AREA	MEDIUM	POSSIBLE	DEFINITE	LOW -	The land is of limited land capability and is not	REVERSIBLE	LOW -
	will become restricted for agricultural use, with consequent			TERM				suitable for crop production, the amount of		
	potential loss of agricultural productivity for the duration of	CUMULATIVE	STUDY AREA	MEDIUM	POSSIBLE	DEFINITE	LOW -	agricultural land loss is well within the allowable	REVERSIBLE	LOW -
	the project lifetime. The small and widely distributed nature of	NO CO		TERM				development limits prescribed by the agricultural		ACT
	the agricultural rootprint of the facility means that only an insignificant proportion of the available agricultural land is impacted in this way. Furthermore, all agricultural activities can continue completely unhindered underneath the power line. This is because its direct, permanent, physical footprint that has any potential to interfere with agriculture (pylon bases and servitude track, where it is needed), is insignificantly small. The potential cumulative agricultural impact of importance is a regional loss (including by degradation) of future agricultural production potential. <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the Taaibos and Soutrivier WEF clusters construction</i> <i>timelines overlap. However, it is important to note that the 5</i> <i>WEFs and their associated infrastructure (including the OHLs)</i> <i>are proposed by the same developer and the EMPrs will be</i> <i>prepared to the same standard.</i> <i>No-go alternative would result in no impact related to</i> <i>disturbance of agricultural system as no known construction</i> <i>activities are present on site.</i>	NO-GO			NO IMPACT			protocol, and that the proposed development offers some positive impact on agriculture by way of improved financial security for farming operations and improved security against stock theft and crime, as well as wider, societal benefits. Furthermore, all agricultural activities that are viable in this environment, can continue completely unhindered underneath the power line and there will therefore be no loss of agricultural production potential underneath it.	NOIMP	ACT
SOIL EROSION AND	Erosion can occur as a result of the alteration of the land	DIRECT	STUDY AREA	SHORT TERM	PROBABLE	MODERATE	LOW -	Mitigation measures to prevent soil degradation	REVERSIBLE	LOW -
DEGRADATION	surface run-off characteristics, predominantly through the	CUMULATIVE	STUDY AREA	SHORT TERM	PROBABLE	MODERATE	LOW -	are all inherent in the project design and / or are	REVERSIBLE	LOW -
	erosion is completely preventable. The storm water management that will be an inherent part of the road engineering on site and standard, best practice erosion control measures recommended and included in the EMPr, are likely to be effective in preventing soil erosion. Loss of topsoil can result from poor topsoil management during construction related excavations. <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the OHL construction timelines overlap. However, it is</i> <i>important to note that the OHL infrastructure (including the</i> <i>OHLs) are proposed by the same developer and the EMPrs will</i> <i>be prepared to the same standard.</i> <i>No-go alternative would result in no impact related to</i> <i>disturbance of agricultural system as no known construction</i> <i>activities are present on site.</i>		environment potential imp exacerbated increased pre would preve environmento development	in the absence bact is that d by climate ch ssure in terms o ent the propo al, social an of renewable e	of the proposed i ue to irregular ange, agriculture of economic viabil osed developme d economic b nergy in South A	development. Th rainfall, which e in the area v ity. In addition, a nt from contr enefits associo frica.	he one identified is likely to be will come under the no-go option ributing to the ated with the	 A system of storm water management, which will prevent erosion, will be an inherent part of the road engineering on site. Any occurrences of erosion must be attended to immediately and the integrity of the erosion control system at that point must be amended to prevent further erosion from occurring there. Any excavations done during the construction phase, in areas that will be re-vegetated at the end of the construction phase, must separate the upper 30 cm of topsoil from the rest of the excavation spoils and store it in a separate stockpile. When the excavation is back-filled, the topsoil must be back-filled 		
INCREASED FINANCIAL	Reliable and predictable income will be generated by the	DIRECT	STUDY AREA	SHORT TERM	PROBABLE	MODERATE	LOW +	only be stripped in areas that are excavated.	ACHIEVABLE	LOW +

	SYNTHESIS	S OF SPECIA	LIST IMPA	ACTS AS EX	TRACTED F	ROM THE	SPECIALIST I	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
SECURITY FOR FARMING OPERATIONS	farming enterprises through the lease of the land to the energy facility. This is likely to increase their cash flow and financial security and could improve farming operations and productivity through increased investment into farming. <i>Cumulative impact, on a localised scale, would be LOW should</i> <i>the Taaibos and Soutrivier WEF clusters construction timelines</i> <i>overlap. However, it is important to note that the 5 WEFs and</i> <i>their associated infrastructure are proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would result in no impact related to</i> <i>disturbance of agricultural system as no known construction</i> <i>activities are present on site.</i>	CUMULATIVE NO-GO	STUDY AREA	SHORT TERM	PROBABLE NO IMPACT	MODERATE	LOW +	Across the majority of the site, including construction lay down areas, it will be much more effective for rehabilitation, to retain the topsoil in place. If levelling requires significant cutting, topsoil should be temporarily stockpiled and then re-spread after cutting, so that there is a covering of topsoil over the entire surface.	<u>ACHIEVABLE</u> NO IMP	LOW + ACT
IMPROVED SECURITY	Improved security against stock theft and other crime due to	DIRECT	STUDY AREA	SHORT TERM	POSSIBLE	SLIGHT	LOW +		ACHIEVABLE	LOW +
AGAINST STOCK THEFT	the presence of security infrastructure and security personnel	CUMULATIVE	STUDY AREA	SHORT TERM	POSSIBLE	SLIGHT	LOW +		ACHIEVABLE	LOW +
	Cumulative impact, on a localised scale, would be LOW should the Taaibos and Soutrivier WEF clusters construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to disturbance of agricultural system as no known construction activities are present on site.									
				AQUATIC IMPA	CT ASSESSMENT					
CUMULATIVE IMPACT	Direct and indirect impacts identified within the assessed freshwater features can predominantly be attributed to informal road crossings leading to limited alien and invasive species establishment. Considering that the proposed powerline support structures and substation will be located outside the assessed freshwater features (thus avoiding direct negative impacts), increased vehicular movement and infrastructure in the surrounding landscape may result in indirect edge effects. Such edge effects may have cumulative impacts to the freshwater features, with specific mention of alien and invasive species establishment and increased sediment loads.	DIRECT CUMULATIVE NO-GO	STUDY AREA	SHORT TERM	PROBABLE NO IMPACT	MODERATE	LOW -	 With management and mitigation measures implemented during the construction phase and monitoring of support structures and substation for any erosion during the operational phase, the direct and indirect negative impacts can be reduced, thus cumulative impact on the larger catchment can, therefore, be considered low/limited. CUMULATIVE 	STUDY AREA NO IMP	SHORT TERM ACT
OPERATION AND	Potential indiscriminate movement of maintenance vehicles	DIRECT	LOCALISED	LONG TERM	PROBABLE	MODERATELY	MODERATE -	 Clearing of powerline servitudes of 	REVERSIBLE	LOW -
MAINTENANCE OF THE	within close proximity of the freshwater features. Disturbance					SEVERE		vegetation. All lower woody vegetation and		
POWERLINE ENTAILING POTENTIAL INDISCRIMINATE	to soil and ongoing erosion as a result of periodic maintenance activities;		LOCALISED	LONG TERM	PROBABLE	MODERATELY SEVERE	MODERATE -	other herbaceous vegetation must remain and not be cleared. Clearing of the entire width of the servitude through freshwater	REVERSIBLE	LOW -
MOVEMENT OF MAINTENANCE VEHICLES WITHIN CLOSE PROXIMITY TO THE	Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier OHL timelines overlap, which is likely. However, it is important to note that the OHL infrastructure are proposed by the same developer and the							features must not occur even during maintenance activities. Keep woody vegetation below the minimum clearance height, and no indiscriminate removal of		

	SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS											
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATI				
FRESHWATER FEATURES	EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to erosion of aquatic habitats.			1			I	vegetation within This is considered features identifie				
OPERATION AND MAINTENANCE OF THE POWERLINE ENTAILING POTENTIAL INDISCRIMINATE MOVEMENT OF MAINTENANCE VEHICLES WITHIN CLOSE PROXIMITY TO THE FRESHWATER FEATURES	Increased risk of sedimentation and/or hydrocarbons entering the freshwater features via stormwater runoff from the access roads. Altered water quality (if surface water is present) as a result of increased availability of pollutants. <i>Cumulative impact, on a localised scale, would be low should</i> <i>the Taaibos and Soutrivier OHL timelines overlap, which is</i> <i>likely. However, it is important to note that the OHL</i> <i>infrastructure are proposed by the same developer and the</i> <i>EMPrs will be prepared to the same standard.</i> <i>No-go alternative would result in no impact related to erosion</i> <i>of aquatic habitats.</i>	DIRECT CUMULATIVE NO-GO	REGIONAL	LONG TERM LONG TERM	PROBABLE PROBABLE NO IMPACT	SEVERE SEVERE	HIGH - HIGH -	 proposed power characterised by graminoid vegeta Maintenance vel dedicated access movement in the permitted; During periodic m powerline, monit undertaken; Should erosion b support structur rehabilitated by in revegetation ther vegetation; Monitoring for the invasive vegeta undertaken, speci structures are wir 32 m) to the fresh roads through features. Should species be identiff and disposed of revegetated wir vegetation. 				
			A	VIFAUNAL II	MPACT ASSE	SSMENT						
MORTALITY FROM COLLISIONS WITH POWERLINES	Collisions with powerlines is a well-known and increasing threat for many bird species worldwide (Bernardino et al. 2018, Jenkins et al. 2010, Loss et al. 2014). In South Africa, a number of endemic and threatened species are known to be significantly affected by collisions (Taylor et al. 2015, Shaw et al. 2021), including SCC's that have a high probability of occurrence or are known to occur in the PAOI such as Ludwig's Bustard, Blue Crane, Karoo Korhaan, Verreaux's Eagle, Martial Eagle, and Secretarybird. Ludwig's Bustard is particularly prone	DIRECT	REGIONAL	LONG-TERM	PROBABLE	SEVERE	HIGH -	The most widely measure (Jenkins et a the powerline, or not line away from sens bodies, valley heads, the line as short as p low as possible, (c) m possible, (d) avoid ve lines as much as pos				
	to collisions and made up 69% of carcasses found under powerlines in a two year study in the Karoo (Shaw 2013). Karoo	CUMULATIVE NO-GO	REGIONAL	LONG-TERM	PROBABLE NO IMPACT	SEVERE	HIGH -	similar height and stru common servitude a				

TION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
in the servitude must occur. In feasible for the freshwater ed to be associated with the		
erline as they are mostly	REVERSIBLE	LOW -
y low growing shrub and	REVERSIBLE	LOW -
ation species; ehicles must make use of s roads and no indiscriminate e freshwater features may be maintenance activities of the itoring for erosion must be be noted at the base of the ures, the area must be infilling the erosion gully and ereof with suitable indigenous the establishment of alien and cation species must be cifically where the support vithin close proximity (within hwater feature and for access or along the freshwater d alien and invasive plant ified, they must be removed f as and the area must be with suitable indigenous	NO IM	PACT
recommended mitigation al. 2010), apart from burying bt building it, is to route the asitive areas such as water , ridge tops, and to (a) keep possible, (b) keep the line as make the cabling as thick as ertically separated arrays of possible, (e) run lines with a	ACHIEVABLE	MODERATE -
ructure in close proximity in a	ACHIEVABLE	MODERATE -
and (f) keep lines with very	NO IMI	PACT

SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS											
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION	
	Korhaan is also affected, but does not collide as frequently as Ludwig's Bustard, possibly due to their sedentary nature making them familiar with their area and their smaller size increasing their manoeuvrability (Shaw 2013). For raptors, collisions appear to be a less frequent source of mortality compared to electrocutions (Loss et al. 2014, Slater et al. 2020). This is likely due to a combination of their good eyesight, high aspect-ratio wings, and often high flight altitude while engaged in thermal soaring (Bevanger 1998, Martin & Shaw 2010, Janss 2000, Slater et al. 2020). However, power line collisions increase when lines intersect with home ranges or if lines span regularly used flight paths between nesting and foraging grounds (Rollan et al. 2010, APLIC 2012, Slater et al. 2020). For some raptor species collisions with powerlines are a major conservation concern, such as the Bonelli's Eagle in Spain (Rollan et al. 2010). The impact of collisions can result in injury or mortality which may, in the worst-case scenario affect a sensitive SCC on a regional population level. The extend was therefore rated regional, long-term, with low reversibility and potentially severe consequence. The impact is considered likely to occur. Therefore, the significance <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the Taaibos and Soutrivier WEF clusters' Overhead Lines</i> <i>construction timelines overlap. However, it is important to note</i> <i>that the Overhead Line infrastructure is proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would result in no impact related to</i> <i>disturbares of eviferungle babitets</i>							different heights and configurations well apart. However, in South Africa, only mitigations that are in line with Eskom's requirements and Technical Standards are in fact implementable in practice. In order to mitigate collisions with powerlines, line markers such as bird flappers and static bird flight diverters are being widely used with some success and have been shown to alter flight behaviour (Bernardino et al. 2018, Pavón-Jordan et al. 2020). One recent study in South Africa (Shaw et al. 2021) demonstrated a 51% reduction in mortality for all large birds, while reducing collision rates effectively for some species (92% for Blue Crane) and having no effect on others (Ludwig's Bustard). Any proposed powerlines associated with the development should therefore be minimised as much as possible in length and avoid areas identified as of high sensitivity where possible, and avoid all identified no go areas (such as SCC nest buffers). All lines and pylons must be of a bird friendly design, with anti-perching structures installed, and fit with line markers installed along the entire length, in line with current Eskom Technical Standards. A steel monopole pylon structure is preferred over a lattice tower which offers more perching and nesting opportunities, and should be selected wherever technically possible. The impact management actions and outcomes as per Table 11 must be included in the EMPr for the propared davelopment	NO IMF	ACT	
MORTALITY FROM	Normally, energised components on overhead powerlines are	DIRECT	REGIONAL	LONG-TERM	MAY OCCUR	DEFINITE	HIGH -	Bird electrocutions can easily be prevented	EASILY ACHIEVABLE	LOW -	
LECTROCUTIONS ON	not insulated but are elevated to place them safely out of	CUMULATIVE	REGIONAL	LONG-TERM	MAY OCCUR	DEFINITE	HIGH -	with bird-friendly pole design i.e. creating	EASILY ACHIEVABLE	LOW -	
ELECIRICAL INFRASTRUCTURE	people's reach, which elevates energised wires into places that are also attractive perches for birds (Dwyer et al. 2017). Large birds can be electrocuted or incur electric shock injuries when simultaneously contacting two uninsulated energised components of differing electric potential (phase-to-phase electrocution), or when contacting an uninsulated energised component and a path to ground (phase-to-ground- electrocution) (Guil et al. 2015, Dwyer 2006, APLIC 2006, Lehman et al. 2007, Dwyer et al. 2017, Mojica et al. 2018, Slater et al. 2020). Because electrocutions result from birds bridging air-gaps, larger birds with larger wingspans, such as Martial Eagle, are disproportionately affected (Slater et al. 2020). For the proposed project electrocutions could also occur at the switching station infrastructure.	NO-GO			NO IMPACT			 separation between conductors of differing electric potential, by placing insulation over conductors, or by redirecting birds to perch or nest away from conductors (APLIC 2006, Dwyer et al. 2017). The impact management actions and outcomes as per Table 11 must be included in the EMPr for the proposed development. 	NO IMF	PACT	

	SYNTHESIS	OF SPECIA	LIST IMP	ACTS AS EX	KTRACTED F	ROM THE	SPECIALIST I	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY /	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
	population level. The extend was therefore rated regional, long-term, with low reversibility and potentially severe. The probability of occurrence is rated as definite without mitigation. <i>Cumulative impact, on a localised scale, would be moderate</i> <i>should the Taaibos and Soutrivier WEF clusters' Overhead Lines</i> <i>construction timelines overlap. However, it is important to note</i> <i>that the Overhead Line infrastructure is proposed by the same</i> <i>developer and the EMPrs will be prepared to the same</i> <i>standard.</i> <i>No-go alternative would result in no impact related to</i> <i>disturbance of avifaunal habitats.</i>									
CUMULATIVE IMPACTS	Cumulative impacts are impacts that result from the incremental impact of the proposed activity on a common	DIRECT	REGIONAL	LONG-TERM	SEVERE SEVERE	DEFINITE	HIGH - HIGH -	The only real mitigation possible in order to minimise cumulative impacts, beyond	DIFFICULT DIFFICULT	MODERATE -
	resource when added to the impacts of other past, present or				0101111	2111112		minimising impacts for each project	NO IMF	PACT
	resource when added to the impacts of other past, present reasonably foreseeable future activities. Cumulative impact can occur from the collective impacts of individual min actions over a period of time and can include both direct ar indirect impacts. Cumulative impacts assessed include the combination of the impacts discussed above for this project, which may be higher than the sum of impacts, as well as the associated three Soutrivier WEF and Solar PV Facilities and associated OHPL and all known past, present and proposed projects in an are				Competent Authority to ensure only p are authorised that are pra- mitigatable to an acceptable level, an do not lead to unacceptable negative in including cumulative impacts, and to the correct implementation of auth Environmental Management Progra through compliance audits and enforce The impact management actions		Competent Authority to ensure only projects are authorised that are practically mitigatable to an acceptable level, and that do not lead to unacceptable negative impacts, including cumulative impacts, and to ensure the correct implementation of authorised Environmental Management Programmes through compliance audits and enforcement.			
	to the Soutrivier projects two WEFs are proposed within this radius: the Taaibos North WEF and associated OHPL, and the Taaibos South WEF and associated OHPL. All of these facilities are to ultimately connect to the Gamma MTS. All of these projects have the same shared OHPL from the Soutrivier South collector substation, which lowers the cumulative impact.							the EMPr for the proposed development.		
	The impacts of the cumulative projects will be negative by making a larger area of avifaunal karoo scrub habitat unavailable and of higher risk for SCC flying between Victoria West and Loxton.									
	There is also a potential for an increased barrier effect being created by the combination of these projects, which would be a negative, regional, long-term impact. As these projects are not located on any major flyways, making the probability of this occurring unlikely. The contribution of the Soutrivier South OHPL to the									
	cumulative impact in a 30 km radius is considered to be low,									

	SYNTHESI	S OF SPECIA	ALIST IMP	ACTS AS EX	XTRACTED F	ROM THE	SPECIALIST	REPORTS
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATI
	i.e. the cumulative impact significance rating will remain unchanged regardless of the Soutrivier South OHPL being constructed or not. Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to				LINELIHOOD			
	disturbance of avifaunal habitats.			HERITAGE IMP	ACT ASSESSMENT			
LOSS OF HERITAGE RESOURCES: STONE AGE OCCURANCES	impact on previously undetected archaeological sites, human burials and the cultural landscape might occur as a result of operational activities (site access, movement, maintenance,	DIRECT CUMULATIVE	STUDY AREA	SHORT TERM	MAY OCCUR MAY OCCUR	SLIGHT SLIGHT	LOW -	It is understood that disturbed and/or imp phase of the project a
	trespassing, natural elements, hazards etc).			LONG TERM				heritage impacts sh
	Cummulative impact:	NO-GO				SUCUT	1014	projects activate.
	The low frequency of significant archaeological resources documented in the project area and in its immediate surroundings implies low-severity short and long-term impacts on the heritage landscape Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact related to destruction of archaeological resources.	NO-GO					LUW -	 Furthermore, the archaeological and h have been recorded a phases. Cumulative impact: The significance of its heritage is bout course of contained decommissioning It should be r knowledge and projects into sign often result Assessments cor Provided that sites are conser heritage mitigo procedures are impact of develop
None identified by specia	list		PA	LAENTOLOGICAL	IMPACT ASSESSN	IENT		
			RI	VERINE RABBIT	IMPACT ASSESSMI	ENT		
DEGRADATION OF	The construction of roads, turbine hard-stands, roads and	DIRECT AND	STUDY AREA	MEDIUM	POSSIBLE	SEVERE	MODERATE -	🔺 Implement a Site

DEGRADATION OF	The construction of roads, turbine hard-stands, roads and	DIRECT AND	STUDY AREA	MEDIUM	POSSIBLE	SEVERE	MODERATE -	*	Implement a Sit
HABITAT BY EROSION	laydown areas etc. will result in the destruction of currently	INDIRECT		TERM					Control Plan to
	intact vegetation, which may lead indirectly to soils being	CUMULATIVE	STUDY AREA	MEDIUM	POSSIBLE	SEVERE	MODERATE -		lying areas
	exposed and facilitating erosion. Erosion leads to river			TERM					ecosystems
	degradation through increased runoff and siltation processes.	NO-GO			NO IMPACT			1	
	If erosion control is implemented, the resulting impact from								
	erosion and would also be low.								

ION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
hat no new areas will be bacted during the operations	EASILY REVERSIBLE	LOW -
and the risk and severity of hould decrease once the	REVERSIBLE NO IMP	AND LOW (+)
majority of sites of heritage significance would and/or assessed in preceding	REVERSIBLE	LOW – AND LOW (+)
of the landscape in terms of und not to change during the astruction, operation and g of the project. noted that archaeological the initiation of research nificant archaeological sites from Heritage Impact nducted for developments. significant archaeological rved and that appropriate ation and management followed, the cumulative pment can be positive.		
e Erosion Management and prevent erosion from high- impactina downstream	REVERSIBLE REVERSIBI F	LOW -
		1011
	NO IMP	ACT

	SYNTHESIS	S OF SPECIA	ALIST IMP	ACTS AS EX	XTRACTED F	ROM THE	SPECIALIST	REPORT	S
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION		MITIGAT
	Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters operational timelines overlap, which is likely. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on the local Riverine Rabbit population.								
			SC	CIO-ECONOMIC	IMPACT ASSESSM	ENT			
AND ECONOMIC IMPACTS	during the operational lifespan of the Project and result in an increase in household earnings and improved livelihoods for		REGIONAL	LONG TERM	DEFINITE	MODERATELY BENEFICIAL MODERATELY	MODERATE +	Maxim (from wherev	the local el rer possibl
	In additional to employment, economic impacts will manifest for the local and national economies through the manufacturing and services industries. Furthermore, agricultural land will be rezoned for renewable energy purposes, thereby increasing farm values and resulting in higher payable taxes for the local municipality. Induced economic impacts will realise locally and regionally through employment and procurement and as a result more benefits for retail sales, leisure and hospitality, real estate, etc. will occur as more money circulates in the local economy. <i>Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would not impact the SEIA ratings significantly</i>	NO-GO			NO IMPACT			employ require municij	ment, sei d for mi pal LED Ui
SOCIO-ECONOMIC CONTRIBUTION / COMMUNITY DEVELOPMENT	A needs assessment will be done with the affected parties (municipalities, beneficiary communities, etc.) to identify suitable projects for SED and ED, which is usually aligned with IDP and LED priorities. Once the identified beneficiaries have	DIRECT	REGIONAL	LONG TERM	DEFINITE	SLIGHTLY BENEFICIAL SLIGHTLY BENEFICIAL	LOW +	 Involve LED Ur project and/or 	the loca its in all s and suit training p
	been evaluated according to stringent evaluation criteria a contract is entered with them for the specified duration of the projects. Monitoring is done to ensure that the projects deliver as per their proposals. The IPP is required to report quarterly to the DMRE's Independent Power Producer Office (IPPO), which allows the IPPO to monitor use of SED and ED funds as committed by the Project (approximately 2.1% of revenue), as well as monitor the impact such contributions have on the communities through funding of existing projects and enterprises. Consultation with municipal stakeholders for this Project and for previous RE projects in other provinces identified the need	NO-GO		·	NO IMPACT			 Make outcom these g In conj or in ti establis coordir initiativ provide Ensure informa associa municii 	gender a ne of the n roups are unction w ne RE con the A Foru nate con res. Mee feedback further ation sl ted web pal notice

ION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
		-
mployment and procurement and district municipalities)	DIFFICULT	MODERATE +
e. effort to obtain temporary	DIFFICULT	MODERATE +
nits.		
and district municipalities' processes when SED and ED	ACHIEVABLE	MODERATE +
rogrammes are identified.	ACHIEVABLE	WODERATE +
nd Youth issues a specific needs analysis to ensure that targeted.	NO IMP	ACT

	SYNTHESIS	S OF SPECIA	ALIST IMP	ACTS AS EX	KTRACTED F	ROM THE	SPECIALIST	REPORTS
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATI
	 for: More transparency during the annual monitoring processes so that it is clear for municipalities whether the budget allocated towards SED and ED has been used adequately; A greater commitment to link with the LED initiatives already identified in the IDP; Coordination between SED and ED initiatives of the various RE projects in the region through a central Forum or similar structure so that initiatives are not duplicated. This will also enable the implementation of larger projects that will have a greater impact for the region. <i>Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard.</i> No-go alternative would not impact the SEIA ratings significantly. 							 and meetings channels used by Become involved address existing establishment and Unit / Response T emergencies (e.g farmers), hospita training of staff shortages, etc.) a real community b Link with existing projects but make targets) for the community-driver and for NGO's to these new groups
TRAINING / SKILLS DEVELOPMENT / CAPACITY BUILDING	Training and skills development initiatives during operations are likely to occur in the following ways: Formal and on-the-job training for permanent and temporary employees to allow them to perform their tasks safely and adequately:		REGIONAL REGIONAL	LONG TERM	MAY OCCUR MAY OCCUR	SLIGHTLY BENEFICIAL SLIGHTLY BENEFICIAL	LOW +	 Identify existing and skills trans Officials. Link with existin programmes for S
	 Training / education programmes through ED contributions; Offering of bursaries and internships; Skills development and capacity building of municipal Officials during the negotiation processes and stakeholder relations. The implementation and operation of RE projects require local government involvement to assist with managing stakeholder and community relations. This poses various challenges, as there might be shortfalls in terms of capacity and management experience within the municipalities. Emphasis is therefore again placed on the involvement of local government throughout operations to enable the Officials to gain experience and develop skills that will be to the advantage of the Project as well as for the municipalities over the long-term. Cumulative impact, on a localised scale, would be LOW should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. 	CUMULATIVE NO-GO	STUDY AREA	LONG TERM	MAY OCCUR NO IMPACT	SLIGHT	LOW -	 done by municipa In collaboration w the region, estab training centre to of SMMEs and ir institutions such Education and T increase the imp development in th
IMPACTS ON SENSE OF	No-go alternative would not impact the SEIA ratings significantly. The Project is located in an area with low crime levels and has	DIRECT	STUDY AREA	LONG TERM	PROBABLE	MODERATE	MODERATE -	🔺 Implement an

FION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
and existing community y the various wards. ed in local initiatives that g backlogs, such as the nd training of an Emergency Team for fire prevention and g. with volunteers such as ral support (e.g. equipment, off where there are staff and so forth to ensure that based needs are met. g NGO's and pre-established ke it a requirement (and set ne establishment of new en development processes to assist in skills transfer to as and processes.		
NGO's to assist in training asfer to communities and	ACHIEVABLE	MODERATE +
ng training workshops and		
SMME development that are	NO IMP	ACT
with other IPPs operational in ablish a SMME "Village" and to coordinate training efforts individuals. Link with bigger as Universities and Further Training (FET) institutes to apact of training and skills the region.		
n effective Land Use	VERY DIFFICULT	MODERATE -

	SYNTHESIS	S OF SPECIA	ALIST IMP	ACTS AS EX	(TRACTED F	ROM THE S	SPECIALIST I	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
PLACE	an overall feeling of solitude and stillness. The social impact					SEVERE		Management programme in collaboration		
	associated with the long-term impact on the sense of place for	CUMULATIVE	STUDY AREA	LONG TERM	PROBABLE	MODERATE	MODERATE -	with the landowners.	VERY DIFFICULT	MODERATE -
	this OHL project would thus relate to a potential change in the	NO CO				SEVERE		 Implement all mitigation and management 		
	safety and social surroundings of community members.	NO-GO			NO IMPACT			 Rehabilitate the veld to its original state post 		
	Cumulative impact, on a localised scale, would be low should							the operational phase.		
	the Taaibos and Soutrivier WEF clusters' Overhead Lines									
	construction timelines overlap. However, it is important to note									
	that the 5 WEFs and their associated infrastructure are									
	proposed by the same developer and the ENTRY will be prepared to the same standard.									
	No-go alternative would not impact the SEIA ratings									
	significantly.									
CONTRIBUTION TO NATIONAL POWER	The proposed Soutrivier South WEF will generate electricity and enhance the reliability and stability of supply that would	DIRECT	NATIONAL	LONG TERM	DEFINITE	SLIGHTLY BENEFICIAL	MODERATE +	 None suggested. 	VERY DIFFICULT	MODERATE +
SUPPLY	contribute to economic development in the country as a whole.	CUMULATIVE	NATIONAL	LONG TERM	DEFINITE	SLIGHTLY	MODERATE +		VERY DIFFICULI	MODERATE +
		NO-GO			1 1					
	Cumulative impact, on a localised scale, would be moderate									
	should the Taaibos and Soutrivier WEF clusters' Overhead Lines									
	that the Overhead Line infrastructure is proposed by the same									
	developer and the EMPrs will be prepared to the same									
	standard.									
	No-go alternative would not impact the SEIA ratings									
	significantiy.		TERRES	TRIAL BIODIVERS	SITY IMPACT ASSE	SSMENT				
POTENTIAL	Permanent or temporary loss of indigenous vegetation cover	DIRECT	LOCALISED	PERMANENT	DEFINITE	SLIGHT	LOW -	Blanket clearing of vegetation must be limited	DIFFICULT	LOW -
TERRESTRIAL	because of site clearing. Site clearing before construction will	CUMULATIVE	LOCALISED	PERMANENT	DEFINITE	SLIGHT	LOW -	to the site. No clearing outside of required	DIFFICULT	LOW -
BIODIVERSITY IMPACTS	result in the blanket clearing of vegetation within the affected	NO-GO			NO IMPACT			footprint required for construction to take	NO IMP	ACT
VEGETATION	rootprint.							place.		
VEGETATION	Cumulative impact, on a localised scale, would be low should							separately during site preparation and		
	the Taaibos and Soutrivier WEF clusters' Overhead Lines							replaced on completion where revegetation		
	construction timelines overlap. However, it is important to note							will take place.		
	that the 5 WEFs and their associated infrastructure are							Any site camps and laydown areas requiring closering must be located within already		
	proposed by the same developer and the EMPT's will be prepared to the same standard.							disturbed areas as far as possible, or away		
	No-go alternative would result in no impact on vegetation.							from watercourses, alluvial areas and other		
								sensitive features (rocky outcrops).		
POTENTIAL	Loss of flora species of special concern during pre-construction	DIRECT	LOCALISED	SHORT TERM	UNLIKELY	SLIGHT	LOW -	A flora search and rescue is recommended before commencement	EASY	LOW -
BIODIVERSITY IMPACTS	from surrounding areas, which could be destroyed during site		LUCALISED	SHURTTERIM		SLIGHT	LOW -	Respective permits to be obtained	EASY NO IMP	LOW -
	preparation.							beforehand.		
FLORA SPECIES										
	Cumulative impact, on a localised scale, would be low should									
	the Taalbos and Soutrivier WEF clusters' Overhead Lines									
	that the 5 WEFs and their associated infrastructure are									
	proposed by the same developer and the EMPrs will be									
	prepared to the same standard.									

	SYNTHESIS	S OF SPECIA	LIST IMP	ACTS AS EX	(TRACTED F	ROM THE S	SPECIALIST H	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ S MITIGATION	SIGNIFICANCE POST- MITIGATION
	No-go alternative would result in no impact on floral species.			ſ	1					
POTENTIAL	Susceptibility of post construction disturbed areas to invasion	DIRECT	LOCALISED	SHORT TERM	PROBABLE	SLIGHT	LOW -	 Alien trees and weeds must be removed from 	EASY	LOW -
	by exotic and alien invasive species and removal of exotic and		LOCALISED	SHORT TERM	PROBABLE	SLIGHT	LOW -	the site as per CARA/ NEMBA requirements.	EASY	LOW -
DIODIVERSITY INPACTS	disturbed areas having no vegetation cover are often	NO-GO			NO IMPACI			A suituble week and allen invasive plant management plan to be implemented in	NO IMPAC	-1
ALIEN INVASIVE SPECIES	susceptible to invasion by weedy and alien species, which can							construction and operation phases.		
	not only become invasive but also prevent natural flora from becoming established.							 After clearing and construction is completed, an appropriate cover crop may be required, should natural re-establishment of grasses 		
	Cumulative impact, on a localised scale, would be low should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-ao alternative would result in no impact on alien invasive							not take place in a timely manner, such as along road verges. This will also minimise dust.		
	species.									
POTENTIAL	Susceptibility of some areas to erosion because of construction	DIRECT	LOCALISED	SHORT TERM	MAY OCCUR	SLIGHT	LOW -	▲ Suitable measures must be implemented in	EASY	LOW -
TERRESTRIAL	related disturbances. Removal of vegetation cover and soil	CUMULATIVE	LOCALISED	SHORT TERM	MAY OCCUR	SLIGHT	LOW -	areas that are susceptible to erosion. Areas	EASY	LOW -
BIODIVERSITY IMPACTS	disturbance may result in some areas being susceptible to soil	NO-GO			NO IMPACT			must be rehabilitated, and a suitable cover	NO IMPAC	СТ
FROSION	erosion after completion of the activity.							crop planted once construction is completed.		
EROSION	Cumulative impact, on a localised scale, would be low should							separately and replaced on completion.		
	the Taaibos and Soutrivier WEF clusters' Overhead Lines							 If natural vegetation re-establishment does 		
	construction timelines overlap. However, it is important to note							not occur, a suitable grass must be applied.		
	that the 5 WEFs and their associated infrastructure are									
	proposed by the same developer and the EMPrs will be									
	prepared to the same standard. No-go alternative would result in no impact on erosion									
POTENTIAL	Disturbances to ecological processes: Activity may result in	DIRECT	LOCALISED	SHORT TERM	PROBABLE	SLIGHT	LOW -	Blanket clearing of vegetation must be	REVERSIBLE	LOW -
TERRESTRIAL	disturbances to ecological processes such as fragmentation	CUMULATIVE	LOCALISED	SHORT TERM	PROBABLE	SLIGHT	LOW -	limited to the development footprint, and the	DIFFICULT	LOW -
BIODIVERSITY IMPACTS	(road, etc).	NO-GO			NO IMPACT			area to be cleared must be demarcated	NO IMPAC	ст
								before any clearing commences.		
ECOLOGICAL PROCESSES	Cumulative impact, on a localised scale, would be low should									
	construction timelines overlap. However, it is important to note									
	that the 5 WEFs and their associated infrastructure are									
	proposed by the same developer and the EMPrs will be									
	prepared to the same standard.									
	No-go alternative would result in no impact on ecological									
ροτεντιδι	Aquatic and Rinarian processes: Diversion and increased	DIRFCT		SHORT TERM	PROBABLE	SUGHT	10₩-	Suitable structures to be constructed at	FASV	10₩-
TERRESTRIAL	velocity of surface water flows – Changes to the hydrological	CUMULATIVE	LOCALISED	SHORT TERM	PROBABLE	SLIGHT	LOW -	watercourse crossings that do not alter flows.	EASY	LOW -
BIODIVERSITY IMPACTS	regime and increased potential for erosion. Impact of changes	NO-GO		L	NO IMPACT			* Stormwater discharge into watercourses to	NO IMPAC	СТ
	to water quality. Loss of riparian vegetation / aquatic habitat.							be protected against erosion.		
AQUATIC AND	Loss of species of special concern.									
RIPARIAN PROCESSES	Cumulative impact, on a localised scale, would be moderate									
	should the Taaibos and Soutrivier WEF clusters' Overhead Lines									
	construction timelines overlap. However, it is important to note									
	that the Overhead Line infrastructure is proposed by the same									

	SYNTHESIS	S OF SPECIA	LIST IMP	ACTS AS EX	(TRACTED F	ROM THE	SPECIALIST I	REPORTS		
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY /	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
					LIKELIHOOD)					
	developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on aquatic and riparian processes.									
POTENTIAL	Loss of Faunal Habitat: Activity may result in the loss of habitat	DIRECT	LOCALISED	SHORT TERM	MAY OCCUR	SLIGHT	LOW -	 Blanket clearing of vegetation must be limited 	REVERSIBLE	LOW -
TERRESTRIAL	for faunal species, which could result in disturbance and	CUMULATIVE	LOCALISED	SHORT TERM	MAY OCCUR	SLIGHT	LOW -	to the construction footprint required.	REVERSIBLE	LOW -
BIODIVERSITY IMPACTS	displacement of faunal species.	NO-GO			NO IMPACT			 Rocky outcrop areas and Riverine Rabbit 	NO IMF	РАСТ
FAUNAL HABITAT	Cumulative impact, on a localised scale, would be LOW should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on faunal habitat.							 Habitat to be avoided as far as possible. It is important that clearing activities are kept to the minimum and take place in a phased manner, where applicable. This allows any smaller animal species to move into safe areas and prevents wind and water erosion of the cleared areas. 		
POTENTIAL	Impacts to faunal processes because of the activity such as	DIRECT	LOCALISED	SHORT TERM	MAY OCCUR	SLIGHT	LOW -	⋆ The habitats and microhabitats present on	DIFFICULT	LOW -
	erection of barriers to movement.	CUMULATIVE	LOCALISED	SHORT TERM	MAY OCCUR	SLIGHT	LOW -	the project site are not unique and are	DIFFICULT	LOW -
BIODIVERSITY IMPACTS FAUNAL PROCESSES	Cumulative impact, on a localised scale, would be LOW should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the 5 WEFs and their associated infrastructure are proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on faunal processes.	NO-GO			NO IMPACT			 widespread in the general area, hence the local impact associated with the footprint would be of low significance if mitigation measures are adhered to. Small mammals within the habitat on and around the affected area are generally mobile and likely to be transient to the area. They will most likely vacate the area once construction commences. As with all construction sites there is a latent risk that there will be some accidental mortalities. Specific measures are made to reduce this risk. The risk of species of special concern is low, and it is unlikely that there will be any impact to populations of such species because of the activity. Reptiles such as lizards are less mobile compared to mammals, and some mortalities could arise. It is recommended that a faunal search and rescue be conducted before construction is underway. A retile handler should be on call for such circumstances. Should any amphibian migrations occur between wetland areas during construction, appropriate measures (including temporarily suspending works in the affected area) should be implemented. 	NO IMF	PACT
POTENTIAL	Loss of faunal SSC due to construction activities: Activities	DIRECT	LOCALISED	SHORT TERM	MAY OCCUR	SLIGHT	LOW -	A pre-commencement faunal search and	DIFFICULT	LOW -
TERRESTRIAL	associated with bush clearing, killing of perceived dangerous	CUMULATIVE	LOCALISED	SHORT TERM	MAY OCCUR	SLIGHT	LOW -	rescue is recommended.	DIFFICULT	LOW -
BIODIVERSITY IMPACTS		NO-GO			NO IMPACT			 Respective permits to be obtained beforehand. 	NO IMF	РАСТ

SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS											
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE	TEMPORAL SCALE	CERTAINTY SCALE	SEVERITY / BENEFICIAL	SIGNIFICANCE PRE-	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST-	
			(EXTENT)	(DURATION)	(PROBABILITY	SCALE	WITIGATION			WITIGATION	
FAUNAL SPECIES	fauna, may lead to increased mortalities among faunal species				LIKELIHOOD)			 No animals are to be harmed or killed during 			
FAUNAL SPECIES	fauna, may lead to increased mortalities among faunal species. The possible artificial increase in Pied Crow abundance (also termed native invaders) and other brid of prey that use powerline pulons for nest sites may have substantial long-term negative impacts on faunal populations as nest building will occur throughout the operational phase. It is anticipated that this impact will be most severe in regions where no other power line infrastructures exist, providing nesting sites in an otherwise treeless environment. <i>Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. <i>No-go alternative would result in no impact on faunal species.</i></i>							 No animals are to be harmed or killed during the course of operations. Workers are NOT allowed to snare any faunal species. Predation from possible influx of birds of prey using OHL for nest sites: The use of pylon designs that are less favourable for nesting sites (see Figure 76). The monitoring of powerlines by avifaunal specialists or bird monitors. Nests found on the powerline should be identified to species level. An adaptive management approach can then be implemented, where identified problematic nests can be removed by maintenance personnel and nest deterrents fitted where needed. The fitting of nest deterrents/discouragers on horizontal and cross beam sections where self-supporting pylons are used. The design of the anti-climb fence must not offer any suitable sites for nests. This can be done by modifying structures so that they are angled downwards to avoid having horizontal platforms. Anti-climb fences must also be set as low as possible on the towers to discourage nesting by Pied Crows. Record prey species below Corvid nests (not limited to powerlines) and use findings to implement culling if required. Targeting culling at individuals that prey on tortoises. 			
								and carcass pits – All waste, organic and inorganic, including oil spills, and any existing agricultural biproduct needs to be environmentally safely disposed of and covered.			
								 Avoid using livestock feeding sites to attract corvids and locate away from sensitive habitats. 			
								Remove existing artificial nest sites including old broken windmills and telephone/electric poles. This should be done with the advice from an avifaunal specialist			
POTENTIAL RISKS TO	The development may fragment an already highly fragmented	DIRECT	LOCALISED	PERMANENT	DEFINITE	MODERATE	MODERATE -	 Minimising the project footprint by utilising 	DIFFICULT	LOW -	
FAUNA SPECIES OF	landscape which may create barriers to geneflow where	CUMULATIVE	LOCALISED	PERMANENT	DEFINITE	MODERATE	MODERATE -	existing roads and disturbed areas as much as	DIFFICULT	LOW -	
CONSERVATION	subpopulations are disconnected and isolated. Roads and	NO-GO			NO IMPACT			technically possible.	NO IMP	РАСТ	
CONCERN:	fences can affect the quality and quantity of available habitat,							 Locate developments away from identified 			
	most notably through fragmentation, creating barriers to							sensitive habitats, this includes no go zones			
HABITAT LOSS,	animal movement. Erosion from construction may degrade the							and buffer zones for turbine pads, electrical			

ISSUE DESCRIPTION OF IMPACT NATURE OF IMPACT SPATIAL SCALE (EXTENT) TEMPORAL SCALE (DURATION) CERTAINTY SCALE (PROBABILITY / LIKELIHOOD) SIGNIFICANCE PRE- MITIGATION MITIGATION MEASURES REVERSE MITIGATION DEGRADATION AND FRAGMENTATION habitat and direct loss of habitat will occur due to necessity of access roads. Implementing adequate dust control and	BILITY/ SIGNIFICANCE ATION POST- MITIGATION
DEGRADATION AND FRAGMENTATION habitat and direct loss of habitat will occur due to necessity of access roads. Image: Construction construct	
Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact on habitat loss, degradation and fragmentation with regards to faunal species. Establish wildlife passes, where artificial barriers are found; this particularly refers to physical barriers and fences. Develop and implement a site-specific spill management plan. Develop and implement a site-specific spill Develop and implement plan. 	
POTENTIAL RISKSTO TAUNA SPECTA CONSERVATION CONCENSE WITCH CONCENSE CONSERVATION CONSERVATION CONSERVATION CONSERVATION CONSERVATION CONSERVATION CONSERVA	CULT LOW- CULT LOW- NO IMPACT

SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS										
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
								 high sensitivity areas. Education and awareness campaigns on SCC and their habitat must form part of staff induction procedures to help increase awareness, respect and responsibility towards the environment for all staff and contractors. Inductions on safe wildlife passing and driving to reduce possible injury and roadkill alongside roads. There is higher risk of collision when animals are more active which is typically from late afternoon to early morning. During these times a low speed limit (30km/h) needs to be implemented. Night-time driving should be avoided as much as possible but if necessary, speed needs to be reduced significantly to avoid collisions. Lagomorph species (hares and rabbits) often freeze in headlights and require headlights to be momentarily turned off to allow the animal to move off the road. Reduced speeds also need to be implemented during reduced visibility such as misty conditions that have been observed on the site. Induction must include reporting of any vehicle/wildlife collision or found roadkill to the appointed Roadkill monitoring personnel. Search and rescue of slow-moving species, specifically Karoo Dwarf Tortoises, during the construction phase. IUCN guidelines for translocation of sensitive species should be consulted. Tortoises will need to be carefully relocated and provided shelter and waterrich food as well as monitoring of threatened species to ensure of their survival. Should a subpopulation be found further consultations with a herpetologist will be required for appropriated mitigation. 		
PREDATION FROM	Power line infrastructure are often used for nesting sites and	DIRECT	LOCALISED	PERMANENT	POSSIBLE	MODERATE	MODERATE -	 The use of pylon designs that are less 	DIFFICULT	LOW -
POSSIBLE INFLUX OF PIED CROW AND OTHER BIRD OF PREY THAT USE POWERLINE PYLONS FOR NEST SITES	may lead to the proliferation of crows in the region (Cunningham et al. 2015). In the past three decades Pied Crow numbers have increased significantly in South Africa with their spread facilitated by electrical infrastructure (Cunningham et al. 2015; Fincham et al. 2015). A strong relationship has been found between the rate of population increase and density of power line infrastructure in shrubland biomes (Cunningham et al. 2015). This is particularly due to the expansion of power lines in the largely treeless, semi-arid landscapes of the Karoo. Pied Crows are generalist predators, preying on a wide range of species, with evidence of heavy predation pressures on	CUMULATIVE NO-GO	LOCALISED	PERMANENT	POSSIBLE NO IMPACT	MODERATE	MODERATE -	 favourable for nesting sites. The monitoring of powerlines by avifaunal specialists or bird monitors. Nests found on the powerline should be identified to species level. An adaptive management approach can then be implemented, where identified problematic nests can be removed by maintenance personnel and nest deterrents fitted where needed. The fitting of nest deterrents/discouragers on horizontal and cross beam sections where 	DIFFICULT	LOW -

SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS										
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
	threatened or restricted-range species such as tortoises. The development may thus create increased predation pressures on the Karoo Dwarf Tortoise and several other susceptible vulnerable faunal species of the region. The possible artificial increase in Pied Crow abundance (also termed native invaders) may have substantial long-term negative impacts on faunal populations as nest building will occur throughout the operational phase. Furthermore, we currently have very little understanding of the ecological consequences and ecosystem-level implications of these native invaders. It is anticipated that this impact will be most severe in regions where no other power line infrastructures exist, providing nesting sites in an otherwise treeless environment. The design of the pylon may influence the opportunities for nesting sites. Pylons which have a lattice structure with horizontal sections provide numerous nesting sites on various levels. Additionally, anti-climb fences are also providing nesting sites for Pied Crows and other species. It is likely that crows (and other birds) will also nest on insulator carriers which can cause electrical problems if conducive materials such as wires are used or if a nest becomes wet during rain. The existing powerlines that run into the Gamma Substation have four different pylon designs and provide an opportunity to assess which design are less favourable for nesting sites. <i>Cumulative impact, on a localised scale, would be moderate should the Overhead Line construction timelines overlap.</i> However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact from a cumulative influx of pied crow perspective.							 self-supporting pylons are used. The design of the anti-climb fence must not offer any suitable sites for nests. This can be done by modifying structures so that they are angled downwards to avoid having horizontal platforms. Anti-climb fences must also be set as low as possible on the towers to discourage nesting by Pied Crows. Record prey species below Corvid nests (not limited to powerlines) and use findings to implement culling if required. Targeting culling at individuals that prey on tortoises. Remove available food and water that have been artificially created No open dumpsite and carcass pits – All waste, organic and inorganic, including oil spills, and any existing agricultural biproduct needs to be environmentally safely disposed of and covered. Avoid using livestock feeding sites to attract corvids and locate away from sensitive habitats. Remove existing artificial nest sites including old broken windmills and telephone/electric poles. This should be done with the advice from an avifaunal specialist 		
POTENTIAL RISKS TO FAUNA SPECIES OF	The cumulative impact is of concern, given the fact that the renewable-energy industry is rapidly expanding in South Africa.	DIRECT		PERMANENT	DEFINITE	MODERATE	MODERATE -	 It is important to evaluate the consequences of each development before the next is beaun. 	DIFFICULT	LOW -
CONSERVATION CONCERN:	The local fauna is already impacted and threatened by past and current land use and the combination of these existing anthropogenic impacts with planned developments may impact the local fauna with unexpectedly large effects. Cumulative effects can also result where the construction phase occurs at several locations simultaneously or if a new project begins construction immediately following the completion of another. Cumulative effects can cause a small localized effect (which may have a limited effect on its own) to have a significant impact on population level as there may be	NO-GO			NO IMPACT	MODENAL		 Use a precautionary approach and aim to minimise negative effects even when the effects are not fully known. Ensure the construction phase is done in as short a period as possible and avoid breeding season, typically in the spring after good rains. Construction needs to be done during daytime, avoiding noise and disturbance when faunal communities are most likely 	NO IMF	ACT
	thresholds where the cumulative effects increase							active, particularly where the construction is in proximity to their habitat. Sensitive habitats near construction will need to be		

	SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS									
ISSUE	DESCRIPTION OF IMPACT	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (PROBABILITY / LIKELIHOOD)	SEVERITY / BENEFICIAL SCALE	SIGNIFICANCE PRE- MITIGATION	MITIGATI		
POTENTIAL RISKS TO FAUNA SPECIES OF CONSERVATION CONCERN: CASCADING IMPACT ACROSS TROPHIC LEVELS	disproportionally. Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no impact from a cumulative faunal species of conservation concern loss perspective. The effect of the OHL and wind farm on one species may have indirect cascading effects (knock on effect) on other species within the same community due to ecological relations to one another. This means that an effect on one species may in turn affect many others within the same ecosystem. Cascading effects may be complex and unpredictable as it may be the result of different types of interactions including competition, predation, parasitism, or symbiosis. Cumulative impact, on a localised scale, would be moderate should the Taaibos and Soutrivier WEF clusters' Overhead Lines construction timelines overlap. However, it is important to note that the Overhead Line infrastructure is proposed by the same developer and the EMPrs will be prepared to the same standard. No-go alternative would result in no cascading impact across the trophic levels due to the proposed WEF.	DIRECT CUMULATIVE NO-GO	LOCALISED LOCALISED	PERMANENT PERMANENT	DEFINITE DEFINITE NO IMPACT	MODERATE MODERATE	MODERATE - MODERATE -	 clearly marked. Relating construction development developments and construction does the completion of The developer mitigation measu stakeholder dialog these concerns an forward and co- mitigation is to rea threaten the survi recommend a bi approach where habitats is made species refuge of indiscriminate w allowed, no or grazing, and no p spraying is carried Initiate a gen Monitoring progro A Fauna Biodivi initiated pre-cons population status ongoing post-cor changes in occu population which impact other faun We recommend monitoring metho to; camera trap targeted camera mammal monitori traps; the use of Co Dog teams to assis 		
**DUE TO THE	E FACT THAT NO WIND ENERGY FACILITY'S HAVE BEEN ENVIRONMENTAL MANAGEN	I DECOMMISS	IONED IN SOI MME BE DRA	DECOMMISS JTH AFRICA, (FTED, IN CON	CES BELIEVES IT	RESPONSIBLE	TO STIPULATE ' S, WHEN THIS P	THAT FUTHER ASSEST HASE BECOMES RE		
The agricultural impacts a	AGRICULI UKAL IMPACT ASSESSMENT 'he agricultural impacts associated with the decommissioning phase will be similar to those listed in the construction phase and the associated mitigations measures must be updated and implemented to reduce pote AOUATIC IMPACT ASSESSMENT									
The aquatic impacts assoc	iated with the decommissioning phase will be similar to those lis	sted in the constr	uction phase an	d the associated AVIFAUNAL IM	l mitigations mea PACT ASSESSMEN	sures must be up	dated and impleme	nted to reduce potentic		
The avifaunal impacts ass	ociated with the decommissioning phase will be similar to those	listed in the cons	truction phase	and the associat HERITAGE IMP	ed mitigations me ACT ASSESSMENT	easures must be u	pdated and implen	nented to reduce poten		

TION MEASURES	REVERSABILITY/ MITIGATION	SIGNIFICANCE POST- MITIGATION
truction phase of the with neighbouring and farming activity to ensure is not begin immediately after of another or simultaneously. instigates a proactive sure by initiating a multi- ogue at a workshop to clarify and how they might be taken o-funded. The aim of this reduce current impacts that vival of SCC populations. We biodiversity wildlife corridor reby protecting sensitive e a priority. This may include areas where no form of wildlife killing/snaring is r highly reduced livestock pest control including locust ed out. e use of hunting dogs at site		
eneral Fauna Biodiversity	DIFFICULT	LOW -
ram iversity program must be nstruction to have baseline us and monitoring must be onstruction to identify any supancy in certain species' ch may in turn indirectly ma populations. Ind the use of multiple nods including and not limited apping in diverse habitats, ra trapping for SCC; small oring with the use of Sherman Conservation Scent Detection sist in detecting SCC.	DIFFICULT NO IMP	LOW -
ESSMENT IN THE FORM C ELEVANT.	OF A DECOMISSIO	NING
tential adverse impacts.		
ial adverse impacts.		

ntial adverse impacts.

SYNTHESIS OF SPECIALIST IMPACTS AS EXTRACTED FROM THE SPECIALIST REPORTS										
ISSUE	DESCRIPTION OF IMPACT	NATURE OF	SPATIAL	TEMPORAL	CERTAINTY	SEVERITY /	SIGNIFICANCE	MITIGATION MEASURES	REVERSABILITY	SIGNIFICANCE
		ΙΜΡΑCΤ	SCALE	SCALE	SCALE	BENEFICIAL	PRF-		MITIGATION	POST-
						CONT				AUTICATION
			(EXTENT)	(DURATION)	(PROBABILITY	SCALE	WITIGATION			WITIGATION
					/					
					LIKELIHOOD)					
The heritage impacts associated with the decommissioning phase will be similar to those listed in the construction phase and the associated mitigations measures must be updated and implemented to reduce potential adverse impacts.										
PALAEONTOLOGICAL IMPACT ASSESSMENT										
None identified by specialist										
RIVERINE RABBIT IMPACT ASSESSMENT										
The socio-economic impac	ts associated with the decommissioning phase will be simi	lar to those listed in th	e construction	phase and the as	sociated mitigatio	ns measures mus	st be updated and im	plemented to reduce potential adverse impacts.		
SOCIO-ECONOMIC IMPACT ASSESSMENT										
The socio-economic impacts associated with the decommissioning phase will be similar to those listed in the construction phase and the associated mitigations measures must be updated and implemented to reduce potential adverse impacts.										
TERRESTRIAL BIODIVERSITY IMPACT ASSESSMENT										
The terrestrial biodiversity	te terrestrial biodiversity impacts associated with the decommissioning phase will be similar to those listed in the construction phase and the associated mitigations measures must be updated and implemented to reduce potential adverse impacts.									