

Date: 06/04/2023

Our ref: P22813_Cover letter

Mr P Stumpriet
12 Donkin Street
Mid Town
Beaufort West
6970

Sir,

- BY HAND -

APPLICATION FOR CONSENT USE TO LEGALLY DEVELOP PORTION 1 OF THE FARM DWAALFONTEIN WES 377, DIE FARM DWAALFONTEIN 379, REMAINING EXTENT OF THE FARM DWAALFONTEIN WEST 377, REMAINING EXTENT OF PORTION 3 OF THE FARM TYGER POORT 376 REGISTRATION DIVISION BEAUFORT WEST, WESTERN CAPE PROVINCE FOR RENEWABLE ENERGY STRUCTURES (WIND ENERGY FACILITY), IN TERMS OF SECTION 15(2) READ WITH SECTION 19, CONTAINED IN CHAPTER III, READ WITH CHAPTER IV OF THE BEAUFORT WEST MUNICIPALITY: BY-LAW ON MUNICIPAL LAND USE PLANNING, 2019, TO BE KNOWN AS KWAGGA WIND ENERGY FACILITY 1.

The above-mentioned application has reference.

Please find herewith 2 complete copies of the above mentioned application as well as an electronic copy on a CD. The following is submitted for your consideration:

ANNEXURE A: APPLICATION FORM T1 & T 2, PRE-APPLICATION MEETING MINUTES ATTENDANCE REGISTER PRE-APPLICATION INPUTS
ANNEXURE B: POWER OF ATTORNEY & TRUST RESOLUTIONS
ANNEXURE C: CERTIFICATE OF TITLE DEED
ANNEXURE D: LOCALITY PLAN
ANNEXURE E: SG DIAGRAM
ANNEXURE F: MOTIVATIONAL MEMORANDUM
ANNEXURE G: SITE DEVELOPMENT PLAN
ANNEXURE H: ENVIRONMENTAL AUTHORISATION
ANNEXURE I: TRAFFIC IMPACT ASSESSMENT
ANNEXURE J: COMMENTS FORM OTHER DEPARTMENTS
ANNEXURE K: SERVICE LETTERS FROM THE MUNICIPALITY
ANNEXURE L: CONVEYANCER CERTIFICATE
ANNEXURE M: DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT NO OBJECTION LETTER
ANNEXURE N: WESTERN CAPE DEPARTMENT OF AGRICULTURE LAND USE MANAGEMENT NO OBJECTION LETTER
ANNEXURE O: BONDHOLDERS CONSENT

Proof of payment for the relevant application fees is attached for your convenience.

Trust you find this in order. Please feel free to contact us should you have any further queries in this regard.

Yours faithfully,



MR K.W. ROST
TOWNSCAPE PLANNING SOLUTIONS CC

ANNEXURE A:

**APPLICATION FORM T1 & T 2
PRE-APPLICATION MEETING
MINUTES ATTENDANCE REGISTER
PRE-APPLICATION INPUTS**

APPLICATION FORM T1 & T 2



**BEAUFORT-WES(T)
MUNISIPALITEIT // MUNICIPALITY**

LAND USE PLANNING PRE-APPLICATION CONSULTATION FORM

KINDLY NOTE:

Pre-application consultation is an advisory session and does not in any way pre-empt the outcome of any future application which may be submitted to the Municipality.

PART A: PARTICULARS

Reference number: _____

Purpose of consultation: Pre-application consultation for consent to accommodate the Kwagga Wind Energy Facility 1 and associated infrastructure on various farm portions within the Beaufort West Local Municipality in the Western Cape.

Brief proposal: Application is made to obtain consent use to legally develop the said property for Renewable Energy Structure to accommodate a Wind Energy Facility and associated infrastructure in terms of Section 15(2) read with Section 19, contained in Chapter III, read with Chapter IV of the Beaufort West Municipality: By-Law on Municipal Land Use Planning, 2019

AND

Consent to register a long-term lease or servitude(s) or exception thereof over the mentioned farms in favor of Kwagga Wind Energy Facility 1 (Pty) Ltd in terms of Section 15(2) read with Section 24 of the Beaufort West Municipality: By-Law on Municipal Land Use Planning: To regulate and control municipal land use planning.

Property(ies) description:

Kwagga Wind Energy Facility 1:

- Portion 1 of the Farm Dwaalfontein Wes 377,
- The Farm Dwaalfontein 379,
- Remaining Extent of the farm Dwaalfontein West 377,
- Remaining Extent of Portion 3 of the Farm Tyger Poort

Date: 24 March 2023

Attendees:

	Name & Surname	Organisation	Contact Number	E-mail
Official	Christopher Wright	Beaufort West Mun	023 414 8140	christopher@beaufortwestmun.co.za
Pre applicant	Wilhelm Rost	Townscape Planning Solutions	082 662 1105	wilhelm@tpsplanners.co.za
	Gavin Fourie	Townscape Planning Solutions	071 354 2461	adminmp@tpsplanners.co.za

List documents provided for discussion at meeting:

(Include document reference, document/plan dates and plan numbers where possible and attach to this form)

Title Deeds

Final Environmental Impact Assessment Report (Kwagga WEF 1) (14/12/16/3/3/2/2070)

Has pre-application consultation been undertaken for a land development application in terms of section 53 of the Western Cape Land Use Planning Act, 2014 (Act 3 of 2014) (LUPA) and regulation 10 of the Western Cape Land Use Planning Regulations, 2015 (LUP regulations)?

YES	NO
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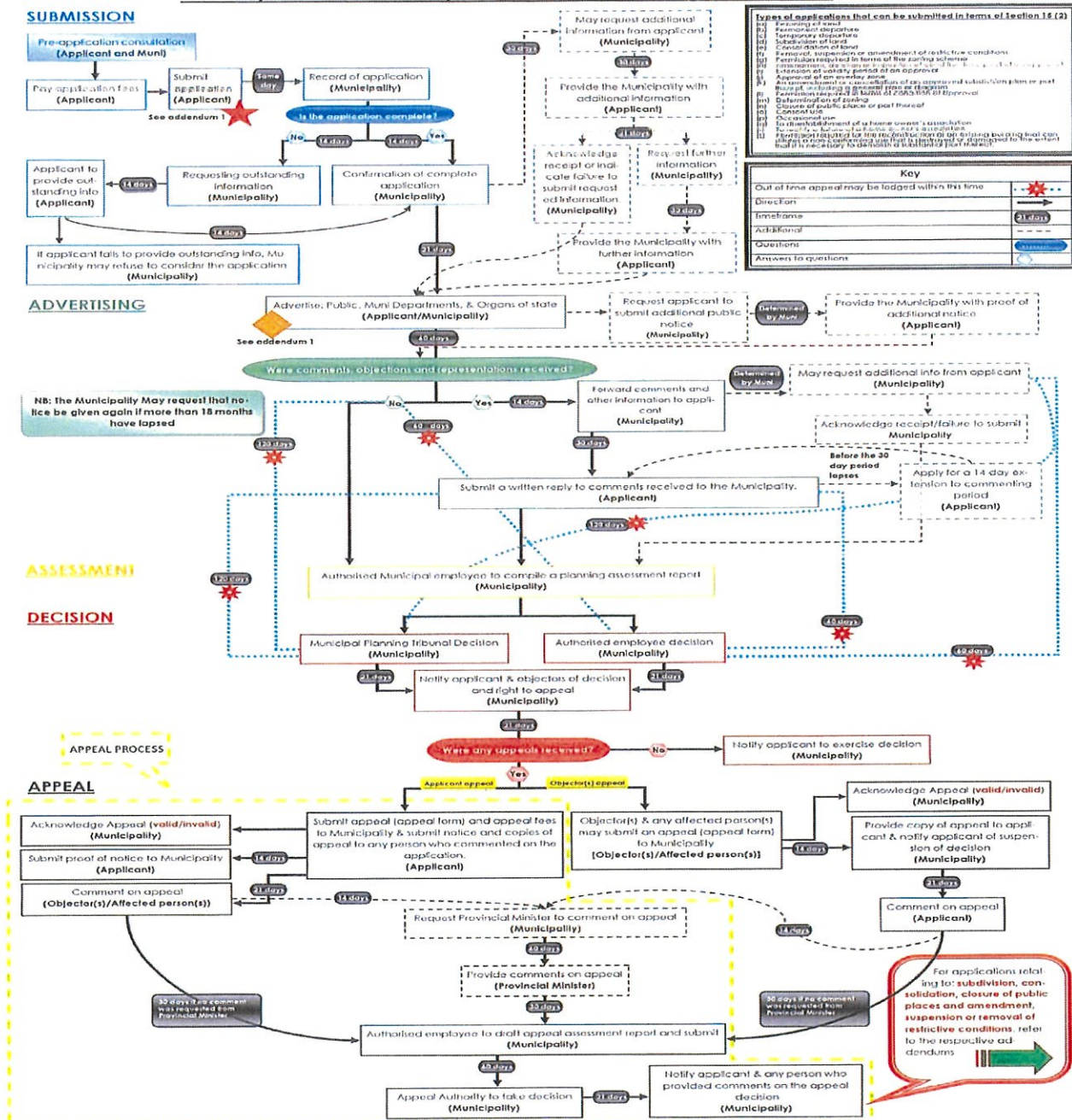
(If yes, request a copy of the minutes)

Comprehensive overview of proposal:

It is proposed to apply to obtain consent use to legally develop the said property for Renewable Energy Structure to accommodate a Wind Energy Facility and associated infrastructure in terms of Section 15(2) read with Section 19, contained in Chapter III, read with Chapter IV of the Beaufort West Municipality: By-Law on Municipal Land Use Planning, 2019 AND Consent to register a long-term lease or servitude(s) or exception thereof over the mentioned farms in favor of Kwagga Wind Energy Facility 1 (Pty) Ltd in terms of Section 15(2) read with Section 24 of the Beaufort West Municipality: By-Law on Municipal Land Use Planning: To regulate and control municipal land use planning.

PART B: APPLICATION PROCESS

Draft By-Law on Municipal Land Use Planning (Workflow)



PART C: QUESTIONNAIRES

SECTION A: DETERMINATION OF APPLICATION TYPES, PRESCRIBED NOTICE AND FEES

Tick if relevant	What land use planning applications are required in terms of section 15 of the By-Law on Municipal Land Use Planning for Beaufort West Municipality	Application fees payable
<input checked="" type="checkbox"/>	2(a) a rezoning of land;	R
<input checked="" type="checkbox"/>	2(b) a permanent departure from the development parameters of the zoning scheme;	R
<input checked="" type="checkbox"/>	2(c) a departure granted on a temporary basis to utilise land for a purpose not permitted in terms of the primary rights of the zoning applicable to the land;	R
<input checked="" type="checkbox"/>	2(d) a subdivision of land that is not exempted in terms of section 24, including the registration of a servitude or lease agreement;	R 2 916.00
<input checked="" type="checkbox"/>	2(e) a consolidation of land that is not exempted in terms of section 24;	R
<input checked="" type="checkbox"/>	2(f) a removal, suspension or amendment of restrictive conditions in respect of a land unit;	R
<input checked="" type="checkbox"/>	2(g) a permission required in terms of the zoning scheme;	R
<input checked="" type="checkbox"/>	2(h) an amendment, deletion or imposition of conditions in respect of an existing approval;	R
<input checked="" type="checkbox"/>	2(i) an extension of the validity period of an approval;	R
<input checked="" type="checkbox"/>	2(j) an approval of an overlay zone as contemplated in the zoning scheme;	R
<input checked="" type="checkbox"/>	2(k) an amendment or cancellation of an approved subdivision plan or part thereof, including a general plan or diagram;	R
<input checked="" type="checkbox"/>	2(l) a permission required in terms of a condition of approval;	R
<input checked="" type="checkbox"/>	2(m) a determination of a zoning;	R
<input checked="" type="checkbox"/>	2(n) a closure of a public place or part thereof;	R
<input checked="" type="checkbox"/>	2(o) a consent use contemplated in the zoning scheme;	R 2 916.00
<input checked="" type="checkbox"/>	2(p) an occasional use of land;	R
<input checked="" type="checkbox"/>	2(q) to disestablish a home owner's association;	R
<input checked="" type="checkbox"/>	2(r) to rectify a failure by a home owner's association to meet its obligations in respect of the control over or maintenance of services;	R
<input checked="" type="checkbox"/>	2(s) a permission required for the reconstruction of an existing building that constitutes a non-conforming use that is destroyed or damaged to the extent that it is necessary to demolish a substantial part of the building.	R
Tick if relevant	What prescribed notice will be required?	Advertising fees payable
<input checked="" type="checkbox"/>	Serving of notices (i.e Delivering by hand; registered post; data messages) Publication of notices (i.e Local Newspaper(s); Provincial Gazette; site notice; Municipality's website)	R 1 463.00

Y	N	Additional publication of notices (i.e Site notice, public meeting, local radio station, Municipality's website, letters of consent or objection)	R 2 924,00
Y	N	Notice of decision (i.e Provincial Gazette)	R
Y	N	Integrated procedures	R
TOTAL APPLICATION FEE*:			R 10 219,00

KINDLY NOTE: * Application fees are estimated on the information discussed and are subject to change with submission of the formal application.
Application fees that are paid to the Municipality are non-refundable and proof of payment of the application fees must accompany an application.
The applicant is liable for the cost of publishing and serving notice of an application.

SECTION B:

PROVISIONS IN TERMS OF THE RELEVANT PLANNING LEGISLATION / POLICIES / GUIDELINES

QUESTIONS REGARDING PLANNING POLICY CONTEXT	YES	NO	TO BE DETERMINED	COMMENT
Is any municipal integrated development plan, spatial development framework(s), structure plans, by-laws or any other municipal policies or guidelines applicable? If yes, is the proposal in line with the aforementioned documentation/plans?	Yes			Yes
Any applicable restrictive condition(s) prohibiting the proposal? If yes, is/are the condition(s) in favour of a third party(ies)? [List condition numbers and third party(ies)]			To be determined	
Any other Municipal by-law that may be relevant to application? (If yes, specify)		No		
Zoning Scheme By-law considerations: What is the current zoning of the property? Agricultural 1 What is the proposed zoning of the property? Zoning: Agricultural 1 Land-Use: Renewable Energy Structure Does the proposal fall within the provisions/parameters of the zoning scheme? Yes Are additional applications required to deviate from the zoning scheme? (if yes, specify) No				

QUESTIONS REGARDING OTHER PLANNING CONSIDERATIONS	YES	NO	TO BE DETERMINED	COMMENT
Is a development application affecting national interest in terms of section 52(3) of Spatial Planning Land Use Management Act, 2013 (Act 16 of 2013) (SPLUMA), required?	X			
Is the proposal in line with the national spatial development framework and national laws, regulations, other guidelines or documents?	X			
Is the proposal in line with the principles for land development, set out in the SPLUMA and the Western Cape Land Use Planning Act, 2014 (Act 3 of 2014)?	X			
Is the proposal in line with the provincial spatial development framework(s) and provincial laws, regulations, other policies, guidelines or documents?	X			
Is any district municipal integrated development plan, spatial development framework, other policies, guidelines or documents relevant?	X			

SECTION C:

CONSENT / COMMENT REQUIRED FROM OTHER ORGANS OF STATE

QUESTIONS REGARDING CONSENT / COMMENT REQUIRED	YES	NO	TO BE DETERMINED	OBTAIN APPROVAL / CONSENT / COMMENT FROM:
Is a land development application required in terms of section 53(2) of LUPA or section 10 of LUP Regulations?		X		
Is provincial comment on land use application(s) required in terms of section 45(1) of LUPA?	X			DEA&DP
Is/was the property(ies) utilised for agricultural purposes?	X			Western Cape Government Department of Agriculture
Will the proposal require approval in terms of Subdivision of Agricultural Land Act, 1970 (Act 70 of 1970)?	X			National Department of Agriculture, Forestry and Fisheries (DAFF)
Will the proposal trigger a listed activity in terms of National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA)?	X			DEA&DP
Will the proposal require authorisation in terms of Specific Environmental Management Act(s) (SEMA)? (National Environmental Management: Protected Areas Act, 2003 (Act 57 of 2003) (NEM:PAA) / National Environmental Management: Biodiversity Act, 2004 (Act 10 of 2004) (NEM:BA) / National Environmental Management: Air Quality Act, 2004 (Act 39 of 2004) (NEM:AQA) / National Environmental Management: Integrated Coastal Management Act, 2008 (Act 24 of 2008) (NEM:ICM) / National Environmental Management: Waste Act, 2008 (Act 59 of 2008) (NEM:WA) (strikethrough irrelevant)	X			National Department of Environmental Affairs (DEA) & DEA&DP
Will the proposal require authorisation in terms of the National Water Act, 1998 (Act 36 of 1998)?	X			National Department of Water & Sanitation (DWS)

Will the proposal trigger a listed activity in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	X			South African Heritage Resources Agency (SAHRA) & Heritage Western Cape (HWC)
Will the proposal have an impact on any National or Provincial roads?	X			National Department of Transport / South Africa National Roads Agency Ltd. (SANRAL) & Western Cape Department of Transport and Public Works (DT&PW)
Will the proposal trigger a listed activity in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993): Major Hazard Installations Regulations		X		National Department of Labour (DL)
Will the proposal affect any Eskom owned land and/or servitudes?		X		Eskom
Will the proposal affect any Telkom owned land and/or servitudes?		X		Telkom SA Ltd.
Will the proposal affect any Transnet/Passenger Rail Agency of South Africa owned land and/or servitudes?		X		Transnet/PRASA
Is the property subject to a land / restitution claim(s)?		X		National Department of Rural Development & Land Reform
Will the proposal require comments from South African National Parks (SANParks) and/or CapeNature?		X		SANParks / CapeNature
Is the property subject to any existing mineral rights?		X		National Department of Mineral Resources
Does the proposal lead to densification to such an extent that the number of schools, healthcare facilities, libraries, safety services, etc. In the area may be impacted on? (strikethrough irrelevant)		X		Western Cape Government Departments of Cultural Affairs & Sport, Education, Social Development, Health and Community Safety
Does the proposal require any other authorisation(s) in terms of other applicable legislation that is not listed in the subject table? If yes, specify		X		

SECTION D:
SERVICE REQUIREMENTS

DOES THE PROPOSAL REQUIRE THE FOLLOWING ADDITIONAL INFRASTRUCTURE / SERVICES?	YES	NO	TO BE DETERMINED	OBTAIN COMMENT FROM: (list internal department)
Electricity supply:		X		
Water supply:	X			
Sewerage and waste water:	X			
Stormwater:		X		
Road network:		X		
Telecommunication services:		X		
Other services required? Please specify.		X		
Development charges:		X		

PART D: ATTACHMENTS AND SUPPORTING INFORMATION AND DOCUMENTATION FOR LAND USE PLANNING APPLICATION

Information and documentation required in terms of section 38(1) of the By-Law on Municipal Land Use Planning for Beaufort West Municipality

Completed and signed application form	Bondholder's consent (if applicable)
Power of attorney / Owner's consent if applicant is not owner	Proof of registered ownership or any other relevant right held in the land concerned
Resolution or other proof that applicant is authorised to act on behalf of a juristic person	S.G. diagram / General plan extract
Written motivation	Site development plan or conceptual layout plan
Locality plan	Proof of agreement or permission for required servitude
Proposed subdivision plan	Full copy of the title deed
Proof of payment of application fees	Minutes of pre-application consultation meeting (if applicable)
Conveyancer's certificate	

Supporting information and documentation:

Y	N	N/A	Consolidation plan	Y	N	N/A	Land use plan / Zoning plan
Y	N	N/A	Street name and numbering plan	Y	N	N/A	1 : 50 / 1:100 Flood line determination (plan / report)
Y	N	N/A	Landscaping / Tree plan	Y	N	N/A	Home Owners' Association consent
Y	N	N/A	Abutting owner's consent	Y	N	N/A	Services Report or indication of all municipal services / registered servitudes
Y	N	N/A	Copy of Environmental Impact Assessment (EIA) / Heritage Impact Assessment (HIA) / Traffic Impact Assessment (TIA) / Traffic Impact Statement (TIS) / Major Hazard Impact Assessment (MHIA) / Environmental Authorisation (EA) / Record of Decision (ROD) (strikethrough irrelevant)	Y	N	N/A	Proof of failure of Home owner's association
Y	N	N/A	Copy of original approval and conditions of approval	Y	N	N/A	Any additional documents or information required as listed in the pre-application consultation form / minutes
Y	N	N/A	Proof of lawful use right	Y	N	N/A	Other (specify)
Y	N	N/A	Required number of documentation copies				

PART E: DISCUSSION

The proposed application for a consent use on agricultural zoned land for the purpose of renewal energy facilities is correct. The application also includes the subdivision of portions of the land for the purpose of a long term lease to be registered. The following addition information is requested in the final application:

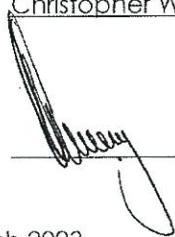
- The applicant must clearly indicate the areas intended for the long-term lease agreement.
- Include a company resolution of the relevant power of attorney
- Indicate if the areas applicable to the long-term lease will still be able to be used for agricultural use.
- Include all relevant conveyancer certificates
- Ensure that the proposed development complies with the development parameters as set out in the Beaufort West Municipal Standard Zoning Scheme, 2020, specifically referring to setbacks.

PART F: SUMMARY / WAY FORWARD

- A copy of the minutes of the meeting, complete T1 form and the proof of payment must form part of the final application to be submitted.
- All shortcomings identified in the pre-application meeting must be addressed in the final application
- Mr. A Mitchell can assist the applicant with the completion of the final application (T2 Form)
- Final application to be submitted at the Corporate Department of Beaufort West Municipality for the attention of Mr. P Strumpher.
- The final application will consist of 2 x Hard Copies and 1 x Soft Copy (CD)
- The applicant as the right to appeal if he is not in agreement with the outcome of the final application.

OFFICIAL: Christopher Wright
(FULL NAME)

SIGNED:



DATE: 24 March 2023

PRE-APPLICANT: Wilhelm Rost
(FULL NAME)

SIGNED:



DATE: 24 March 2023.



**BEAUFORT-WES(T)
MUNISIPALITEIT // MUNICIPALITY**

LAND USE PLANNING APPLICATION FORM

(Section 15 of the By-law on Municipal Land Use Planning for Beaufort West Municipality)

KINDLY NOTE: Please complete this form using BLOCK capitals and ticking the appropriate boxes.

PART A: APPLICANT DETAILS

First name(s)	Wilhelm				
Surname	Rost				
South African Council for Planners (SACPLAN) registration number (if applicable)	A1440/2011				
Company name (if applicable)	Townscape Planning Solutions				
Postal Address	P.O. Box 20831 Noordbrug				
		Postal Code	2522		
Email	wilhelm@tpsplanners.co.za adminnw@tpsplanners.co.za				
Tel	0826621105	Fax	086 693 9341	Cell	0826621105

PART B: REGISTERED OWNER(S) DETAILS (If different from applicant)

Registered owner(s)	LOTINI TRUST REGISTRATION NUMBER: IT209/2010	P S P TIMBER IND PTY LTD Registration Number (200002783607)	NIGRINI JOHANNES BERNARDUS ID Number: 5608075037080
Physical address	ABO Wind renewable energies (Pty) Ltd. Unit B1, Mayfair Square Century Way, Century City South Africa	SPOORNET GEBOU WAGENERSTRAAT	9 KEULDER STR BEAUFORT WEST
Postal code	7441	6625	6970
E-mail	rob.invernizzi@abo-wind.com		
Tel	+27 (0) 21 180 3672	Fax	+27 (0) 73 265 85/5

PART C: PROPERTY DETAILS (in accordance with title deed)

Property description [Number(s) of Erf/Erven/Portion(s) or Farm(s), allotment area.]	The Farm Dwaalfontein 379, Remaining Extent of the farm Dwaalfontein West 377, Portion 1 of the farm Dwaalfontein West 377, Remaining Extent of Portion 3 of the Farm Tyger Poort 376 Registration Division Beaufort West, Western Cape Province										
Physical Address	REGISTRATION DIVISION BEAUFORT WEST, WESTERN CAPE PROVINCE										
GPS Coordinates	ANNEXURE F: MOTIVATIONAL MEMORANDUM			Town/City		BEAUFORT WEST					
Current Zoning	Agricultural Zone I (AZI)		Extent		2217,3658ha 1108,6427ha 1108,7097ha 739.4140ha		Are there existing buildings?		Y N		
Applicable Zoning Scheme	Beaufort West Land Use Scheme										
Current Land Use	Agricultural (grazing) livestock farming purposes										
Title Deed number and date	T		T16790/2011		T69090/2005		T22649/1995				
Any restrictive conditions?	Y	N	If Yes, list condition(s)		Please see ANNEXURE C: CERTIFICATE OF TITLE DEED ANNEXURE F: MOTIVATIONAL MEMORANDUM						
Are the restrictive conditions in favour of a third party(ies)?	Y	N	If Yes, list the party(ies)								
Is the property encumbered by a bond?	Y	N	If Yes, list bondholder(s)								
Any existing unauthorized buildings and/or land use on the subject property(ies)?					Y	N	If yes, is this application to legalize the building / land use?			Y	N
Are there any pending court case(s) / order(s) relating to the subject property(ies)?					Y	N	Are there any land claim(s) registered on the subject property(ies)?			Y	N

PART D: PRE-APPLICATION CONSULTATION

Has there been any pre-application consultation?	Y	N	If Yes, complete the information below and attach the minutes of the pre-application consultation.				
Official's name			Reference Number			Date of consultation	

PART E: LAND USE PLANNING APPLICATIONS IN TERMS OF SECTION 15 OF THE BY-LAW ON MUNICIPAL LAND USE PLANNING FOR BEAUFORT WEST MUNICIPALITY AND APPLICATION FEES PAYABLE

Tick	Section	Type of application	Cost
<input checked="" type="checkbox"/>	2(a)	a rezoning of land;	R
<input type="checkbox"/>	2(b)	a permanent departure from the development parameters of the zoning scheme;	R

✓	2(c)	a departure granted on a temporary basis to utilise land for a purpose not permitted in terms of the primary rights of the zoning applicable to the land;	R
✓	2(d)	a subdivision of land that is not exempted in terms of section 24, including the registration of a servitude or lease agreement;	R
✓	2(e)	a consolidation of land that is not exempted in terms of section 24;	R
✓	2(f)	a removal, suspension or amendment of restrictive conditions in respect of a land unit;	R
✓	2(g)	a permission required in terms of the zoning scheme;	R
✓	2(h)	an amendment, deletion or imposition of conditions in respect of an existing approval;	R
✓	2(i)	an extension of the validity period of an approval;	R
✓	2(j)	an approval of an overlay zone as contemplated in the zoning scheme;	R
✓	2(k)	an amendment or cancellation of an approved subdivision plan or part thereof, including a general plan or diagram;	R
✓	2(l)	a permission required in terms of a condition of approval;	R
✓	2(m)	a determination of a zoning;	R
✓	2(n)	a closure of a public place or part thereof;	R
✓	2(o)	a consent use contemplated in the zoning scheme;	R
✓	2(p)	an occasional use of land;	R
✓	2(q)	to disestablish a home owner's association;	R
✓	2(r)	to rectify a failure by a home owner's association to meet its obligations in respect of the control over or maintenance of services;	R
✓	2(s)	a permission required for the reconstruction of an existing building that constitutes a non-conforming use that is destroyed or damaged to the extent that it is necessary to demolish a substantial part of the building.	R

TOTAL A: **R**

PRESCRIBED NOTICE AND FEES (for completion and use by official)**

Tick	Notification of application in media	Type of application	Cost
✓	SERVING OF NOTICES	Delivering by hand; registered post; data messages	R
✓	PUBLICATION OF NOTICES	Local Newspaper(s); <i>Provincial Gazette</i> ; site notice; Municipality's website	
✓	ADDITIONAL PUBLICATION OF NOTICES	Site notice, public meeting, local radio station, Municipality's website, letters of consent or objection	R
✓	NOTICE OF DECISION	<i>Provincial Gazette</i>	R
✓	INTEGRATED PROCEDURES	T.B.C	R

TOTAL B: **R**

TOTAL APPLICATION FEES*
(TOTAL A + B) **R**

* Application fees that are paid to the Municipality are non-refundable and proof of payment of the application fees must accompany an application.

** The applicant is liable for the cost of publishing and serving notice of an application.

BANKING DETAILS

Name:

Bank:

Branch no.:

Account no.:

Payment reference:

(if applicable)

PART F: DETAILS OF PROPOSAL

Brief description of proposed development / intent of application:

Application is made to obtain consent use to legally develop the said property for Renewable Energy Structure to accommodate a Wind Energy Facility and associated infrastructure in terms of Section 15(2) read with Section 19, contained in Chapter III, read with Chapter IV of the Beaufort West Municipality: By-Law on Municipal Land Use Planning, 2019 in respect of the following property:

Portion 1 of the Farm Dwaalfontein Wes 377, Die Farm Dwaalfontein 379, Remaining Extent of the farm Dwaalfontein West 377, Remaining Extent of Portion 3 of the Farm Tyger Poort 376 Registration Division Beaufort West, Western Cape Province

Consent to register a long-term lease or servitude(s) or exception thereof over the mentioned farms in favor of Kwagga Wind Energy Facility 1 (Kwagga WEF 1) (Pty) Ltd in terms of Section 15(2) read with Section 24 of the Beaufort West Municipality: By-Law on Municipal Land Use Planning: To regulate and control municipal land use planning.

PART G: ATTACHMENTS AND SUPPORTING INFORMATION AND DOCUMENTATION FOR LAND USE PLANNING APPLICATION [section 15(2)(a) to (s) of the By-Law on Municipal Land Use Planning for Beaufort West Municipality]

Complete the following checklist and attach all the information and documentation relevant to the proposal. Failure to submit all information and documentation required will result in the application being deemed incomplete. It will not be considered complete until all required information and documentation have been submitted.

Information and documentation required in terms of section 38(1) of said legislation

Y	N	Power of attorney / Owner's consent if applicant is not owner	Y	N	Bondholder's consent (if applicable)
Y	N	Resolution or other proof that applicant is authorised to act on behalf of a juristic person	Y	N	Proof of registered ownership or any other relevant right held in the land concerned
Y	N	Written motivation	Y	N	S.G. diagram / General plan extract
Y	N	Locality plan	Y	N	Site development plan or conceptual layout plan
Y	N	Proposed subdivision plan	Y	N	Proof of agreement or permission for required servitude
Y	N	Proof of payment of application fees	Y	N	Full copy of the title deed
Y	N	Conveyancer's certificate	Y	N	Minutes of pre-application consultation meeting (if applicable)

Supporting information and documentation:

Y	N	N/A	Consolidation plan	Y	N	N/A	Land use plan / Zoning plan
Y	N	N/A	Street name and numbering plan	Y	N	N/A	1 : 50 / 1:100 Flood line determination (plan / report)
Y	N	N/A	Landscaping / Tree plan	Y	N	N/A	Home Owners' Association consent
Y	N	N/A	Abutting owner's consent				

Y	N	N/A	Copy of Environmental Impact Assessment (EIA) / Heritage Impact Assessment (HIA) / Traffic Impact Assessment (TIA) / Traffic Impact Statement (TIS) / Major Hazard Impact Assessment (MHIA) / Environmental Authorisation (EA) / Record of Decision (ROD) (strikethrough irrelevant)	Y	N	N/A	Services Report or indication of all municipal services / registered servitudes
Y	N	N/A	Copy of original approval and conditions of approval	Y	N	N/A	Proof of failure of Home owner's association
Y	N	N/A	Proof of lawful use right	Y	N	N/A	Any additional documents or information required as listed in the pre-application consultation form / minutes
Y	N	N/A	Required number of documentation copies	Y	N	N/A	Other (specify)

PART H: AUTHORISATION(S) IN TERMS OF OTHER LEGISLATION

Y	N/A	National Heritage Resources Act, 1999 (Act 25 of 1999)	Y	N/A	Specific Environmental Management Act(s) (SEMA)
Y	N/A	National Environmental Management Act, 1998 (Act 107 of 1998)			(e.g. Environmental Conservation Act, 1989 (Act 73 of 1989), National Environmental Management: Air Quality Act, 2004 (Act 39 of 2004),
Y	N/A	Subdivision of Agricultural Land Act, 1970 (Act 70 of 1970)			National Environmental Integrated Coastal Management Act, 2008 (Act 24 of 2008), National Environmental Management: Waste Act, 2008 (Act 59 of 2008),
Y	N/A	Spatial Planning and Land Use Management Act, 2013 (Act 16 of 2013)(SPLUMA)			National Water Act, 1998 (Act 36 of 1998) (strikethrough irrelevant)
Y	N/A	Occupational Health and Safety Act, 1993 (Act 85 of 1993): Major Hazard Installations Regulations			
Y	N/A	Land Use Planning Act, 2014 (Act 3 of 2014) (LUPA)		Y	N/A
Y	N	If required, has application for EIA / HIA / TIA / TIS / MHIA approval been made? If yes, attach documents / plans / proof of submission etc.			
Y	N	If required, do you want to follow an integrated application procedure in terms of section 44(1) of the By-Law on Municipal Land Use Planning for Beaufort West Municipality? If yes, please attach motivation.			

SECTION I: DECLARATION

I hereby wish to confirm the following :

1. That the information contained in this application form and accompanying documentation is complete and correct.
2. I'm aware that it is an offense in terms of section 86(1)(e) to supply particulars, information or answers knowing the particulars, information or answers to be false, incorrect or misleading or not believing them to be correct.

3. I am properly authorized to make this application on behalf of the owner and (where applicable) that a copy of the relevant power of attorney or consent are attached hereto.
4. Where an agent is appointed to submit this application on the owner's behalf, it is accepted that correspondence from and notifications by the Municipality in terms of the by-law will be sent only to the agent and that the owner will regularly consult with the agent in this regard.
5. That this submission includes all necessary land use planning applications required to enable the development proposed herein.
6. I confirm that the relevant title deed(s) have been read and that there are no restrictive title deed restrictions, which impact on this application, or alternatively an application for removal/suspension or amendment forms part of this submission.
7. I am aware that development charges to the Municipality in respect of the provision and installation of external engineering services are payable by the applicant as a result of the proposed development.

Applicant's signature:



Date:

21/06/2022

Full name:

Karl Wilhelm Rost

Professional capacity:

Professional Planner

SACPLAN registration number:

A1440/2011

FOR OFFICE USE ONLY

Date received:

Received by:

ANNEXURES

The following Annexures are attached for your information, only if applicable:

Please do not submit these Annexures with the application form.

Annexure A: Minimum requirements matrix

Annexure B: Land use planning application submission and protocol

Annexure C: Land use planning application workflow

PRE-APPLICATION MEETING



MUNISIPALITEIT - MUNICIPALITY / UMASIPALA-WASE
BEAUFORT-WES / BEAUFORT WEST / BHOBHOFOLO

Departement van die Direkteur: Ingenieursdienste
Department of the Director: Engineering Services
Isebe Lotnphlatlhi Owongameleyo: Kwicandelo Lezenjineli

Verwysing
Isalathiso 12/3/2 : 12/4/5/2 : Kwagga1

Faks / Fax 086 421 0251
Tel 023-414 8102

Navrae
Enquiries C.B.Wright

E- pos / E mail : pa.eng@beaufortwestmun.co.za

Birdstraat 61/63
BEAUFORT- WES
BEAUFORT WEST
BHOBHOFOLO
6970

Datum
Date 24 March 2023

**PRE APPLICATION MEETING: APPLICATION FOR CONSENT USE AND SUBDIVISION:
KWAGGA 1:**

Present: **Meeting via Teams**

Mr C.B.Wright: Authorized Official
Ms M.Govender
Mr W.Rost
Mr G.Fourie

The following points were discussed as follows:

1. PURPOSE

Please note that the purpose of the pre-application input is to ensure that the application is correct and complete and not to assess the merit of the application.

2. LAND USE APPLICATION: LEGISLATIVE CONTEXT

2.1. Application is made for:

- a) **Consent Use** : in accordance with Section 15(2)(o) of the Beaufort West By- Law on Municipal Land Use Planning in order to permit renewable energy structures on Portion 1 of Farm Dwaalfontein Wes No. 377, Portion 3 of Farm Tyger Poort No. 376, Remainder of Farm Dwaalfontein No. 379 & Remainder of Farm Dwaalfontein No. 377.
- b) **Subdivision** : in accordance with Section 15(2)(d) of the Beaufort West By-Law on Municipal Land Use Planning in order to permit the registration of a long term lease areas over Portion 1 of Farm Dwaalfontein Wes No. 377, Portion 3 of Farm Tyger Poort No. 376, Remainder of Farm Dwaalfontein No. 379 & Remainder of Farm Dwaalfontein No. 377.

2.2. The application should therefore clearly identify the area(s) which will form part of the intended long term lease and/or amend the application accordingly.

- 2.3. It should further be noted that approval for the consent use (if given) will not be a permanent right but will be given for the duration/life span of the facility. Any renewable energy structure and associated infrastructure that has reached the end of its productive life or has been abandoned, including buildings, cables, and roads, must be removed by the owner. A renewable energy structure is considered abandoned when the structure fails to continuously operate for more than two years.

3. LOCUS STANDI (AUTHORITY TO BRING APPLICATION)

- 3.1. The draft application includes power of attorneys from the registered owners of the four application properties. However, these specifically authorize Michael Mangal, or any other employee of ABO Wind AG, or its subsidiaries. A company resolution by ABO Wind AG should be included within the application to confirm that Robert Invernizzi is both an employee of ABO Wind AG, and the duly authorized representative of the company as envisaged by the Power of Attorney issued by the land owner.
- 3.2. Although the motivational memorandum confirms that there is an active bond registered against the Remainder of Farm Dwaalfontein No. 377 (B5379/2022), in favor of FirstRand Bank Ltd., the associated bondholder's consent will need to be included within the application.
- 3.3. There appears to be an endorsement over the Bond No. B5628/2012, on page 4 of the Title Deed for Remainder of Farm Dwaalfontein No. 377, but it is unclear whether this is an endorsement of a bond cancellation. It needs to be confirmed whether the said bond has been cancelled. If not, a bondholder's consent (relating to this bond) will need to be included within the application.

4. AGRICULTURE

- 4.1. The draft motivation report contains a general statement regarding the current agricultural practices on the subject properties and states that farms are currently used for agricultural (grazing) livestock purposes. More information would need to be provided regarding the agricultural practices on the portions where the wind turbines are proposed. The reason being, that a land development that utilizes an area of five hectares or more of agricultural land that has been cultivated or irrigated during the 10-year period immediately preceding the proposed land development that involves urban development, will trigger a provincial land use application in terms of section 53 of LUPA (Land Use Planning Act, Act 3 of 2014, read together with section 10 of the LUPA regulations). On face value the proposed development does not appear to require a provincial land use application, however it must be verified in the motivation report.

5. CONVEYANCER'S CERTIFICATE

- 5.1. It is noted that all Title Deeds formed part of the application, however, it is requested that a Conveyancer Certificate should be obtained (for all relevant Title Deeds) to confirm whether any conditions should be removed to enable the proposed development. If the Conveyancer Certificate indicate any restrictive conditions to be removed for this application it should be included in and be part of the application.

6. ENVIRONMENTAL AUTHORISATION

- 6.1. The applicant must provide an overview/summary of the outcome of the final environmental authorization (including any amendments) which has an impact on the planning application, i.e. the number of turbines or position thereof, within the motivational memorandum.

7. DEVELOPMENT PARAMETERS AND SITE DEVELOPMENT PLAN

- 7.1. The application, including the site development plan should clearly illustrated compliance with all the development parameters relating to "renewable energy structure" as contained within Schedule 2 of the Beaufort West Municipal Standards Zoning Scheme By-law, 2020, specifically referring to setbacks.
- 7.2. Although the Site Development Plan (included within the application) may be considered as a general illustration of the intended development, the municipality will only be in a position to determine the final elements which should be incorporated within the Site Development Plan (as contemplated in Section 23(2) of Beaufort West Municipal Standard Zoning Scheme By-Law, 2020), after its assessment of the application.
- 7.3. In terms of Section 23(5) of the Beaufort West Municipal Standard Zoning Scheme By-Law, 2020, the detailed Site development plan, complying with such measures as may be required by the municipality (ito. Section 23(2)), will need to be submitted to- and approved by the municipality prior to commencement of any development on the relevant land unit.

8. PUBLIC PARTICIPATION

- 8.1. Apart from comments already included within the draft application, during the public participation process comment must be obtained from:
- a) Western Cape Department of Transport and Public Works (DT&PW),
 - b) Department of Environmental Affairs and Development Planning for provincial planning comment in terms of section 45 of LUPA,
 - c) The National Department of Agriculture, Land Reform and Rural Development, and
 - d) Civil Aviation Authority.

The cost of the application is as follows:

• Consent Use	: R 2 916.00
• Subdivision	: R 2 916.00
• Advertisement Cost: Municipality	: R 2 924.00
• Advertisement Cost: Provincial Newspaper	: R 1 463.00
• Total Cost of the application	<u>R 10 219.00</u>

Beaufort West Banking Details:

Bank : Nedbank
Account Holder : Beaufort West Municipality
Account Number : 10/42 80318
Type of Account : Current Account
Branch Code : 198765
Reference : Kwagga 1

Mr Wright explains the way forward:

- A copy of the minutes, proof of payment and all relevant information must be attached to the application.
- The final application can be obtained from Mr Mitchell. Mr Mitchell can also assist upon completion of the final application.
- The final application must be submitted to the Senior Manager: Administration: Mr. P.Strumpher.

Address:

112 Donkin Street
Mid Town
BEAUFORT WEST
6970

- The final application must be completed and signed by the owner.
- When the final application is submitted, 2 hard copies as well as a complete electronic copy on CD are required.
- Application will be advertised for a period of 8 weeks for any objections.
- If there are any objections, the applicant may appeal.
- Applicant can then send his appeal application to the Municipal Manager.

Meeting adjourned.


C.B. WRIGHT
AUTHORIZED OFFICIAL

/mg

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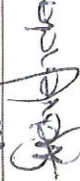


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MINUTES ATTENDANCE REGISTER



**ATTENDANCE REGISTER
PRE-APPLICATION MEETING :
APPLICATION FOR CONSENT USE AND SUBDIVISION
KWAGGA 1
24 MARCH 2023**



NAME AND SURNAME	OFFICIAL/APPLICANT	SIGNATURE
Mr C.B.Wright	AUTHORIZED OFFICIAL	
Ms M. Govender	PERSONAL ASSISTANT	
Mr. W Rost	APPLICANT/ ON BEHALF OF APPLICANT	
Mr. G.Fourie	APPLICANT/ ON BEHALF OF APPLICANT	

PRE-APPLICATION INPUTS

**PRE-APPLICATION INPUT: RENEWABLE ENERGY FACILITIES: KWAGGA 1:
BEAUFORT WEST MUNICIPAL AREA**

1. PURPOSE

Please note that the purpose of the pre-application input is to ensure that the application is correct and complete and not to assess the merit of the application.

2. LAND USE APPLICATION: LEGISLATIVE CONTEXT

2.1. Application is made for:

a) **Consent Use** : in accordance with Section 15(2)(o) of the Beaufort West By- Law on Municipal Land Use Planning in order to permit renewable energy structures on Portion 1 of Farm Dwaalfontein Wes No. 377, Portion 3 of Farm Tyger Poort No. 376, Remainder of Farm Dwaalfontein No. 379 & Remainder of Farm Dwaalfontein No. 377. ✓

b) **Subdivision** : in accordance with Section 15(2)(d) of the Beaufort West By-Law on Municipal Land Use Planning in order to permit the registration of a long term lease areas over Portion 1 of Farm Dwaalfontein Wes No. 377, Portion 3 of Farm Tyger Poort No. 376, Remainder of Farm Dwaalfontein No. 379 & Remainder of Farm Dwaalfontein No. 377. ✓

2.2. It should be noted where a long term lease is intended over an entire farm and in accordance with its current registered boundaries, an application for subdivision (for lease purposes) is not required. The application should therefore clearly identify the area(s) which will form part of the intended long term lease and/or amend the application accordingly. *How convenient →*

2.3. It should further be noted that approval for the consent use (if given) will not be a permanent right but will be given for the duration/life span of the facility. Any renewable energy structure and associated infrastructure that has reached the end of its productive life or has been abandoned, including buildings, cables, and roads, must be removed by the owner. A renewable energy structure is considered abandoned when the structure fails to continuously operate for more than two years. *Long term lease. I have blocked*

3. LOCUS STANDI (AUTHORITY TO BRING APPLICATION)

- 3.1. The draft application includes power of attorneys from the registered owners of the four application properties. However, these specifically authorises Michael Mangal, or any other employee of ABO Wind AG, or its subsidiaries. A company resolution by ABO Wind AG should be included within the application to confirm that Robert Invernizzi is both an employee of ABO Wind AG, and the duly authorised representative of the company as envisaged by the Power of Attorney issued by the land owner.
- 3.2. Although the motivational memorandum confirms that there is an active bond registered against the Remainder of Farm Dwaalfontein No. 377 (B5379/2022), in favour of FirstRand Bank Ltd., the associated bondholder's consent will need to be included within the application.
- 3.3. There appears to be an endorsement over the Bond No. B5628/2012, on page 4 of the Title Deed for Remainder of Farm Dwaalfontein No. 377, but it is unclear whether this is an endorsement of a bond cancellation. It needs to be confirmed whether the said bond has been cancelled. If not, a bondholder's consent (relating to this bond) will need to be included within the application.

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4. AGRICULTURE

- 4.1. The draft motivation report contains a general statement regarding the current agricultural practices on the subject properties and states that farms are currently used for agricultural (grazing) livestock purposes. More information would need to be provided regarding the agricultural practices on the portions where the wind turbines are proposed. The reason being, that a land development that utilises an area of five hectares or more of agricultural land that has been cultivated or irrigated during the 10-year period immediately preceding the proposed land development that involves urban development, will trigger a provincial land use application in terms of section 53 of LUPA (Land Use Planning Act, Act 3 of 2014, read together with section 10 of the LUPA regulations). On face value the proposed

development does not appear to require a provincial land use application, however it must be verified in the motivation report.

- canley van
bureau

5. CONVEYANCER'S CERTIFICATE

- 5.1. It is noted that all Title Deeds formed part of the application, however, it is requested that a Conveyancer Certificate should be obtained (for all relevant Title Deeds) to confirm whether any conditions should be removed to enable the proposed development. If the Conveyancer Certificate indicate any restrictive conditions to be removed for this application it should be included in and be part of the application.

Beaufort
WV

6. ENVIRONMENTAL AUTHORISATION

- 6.1. The applicant must provide an overview/summary of the outcome of the final environmental authorization (including any amendments) which has an impact on the planning application, i.e. the number of turbines or position thereof, within the motivational memorandum.

✓

7. DEVELOPMENT PARAMETERS AND SITE DEVELOPMENT PLAN

- 7.1. The application, including the site development plan should clearly illustrated compliance with all the development parameters relating to "renewable energy structure" as contained within Schedule 2 of the Beaufort West Municipal Standards Zoning Scheme By-law, 2020.

- 7.2. Although the Site Development Plan (included within the application) may be considered as a general illustration of the intended development, the municipality will only be in a position to determine the final elements which should be incorporated within the Site Development Plan (as contemplated in Section 23(2) of Beaufort West Municipal Standard Zoning Scheme By-Law, 2020), after its assessment of the application.


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- 7.3. In terms of Section 23(5) of the Beaufort West Municipal Standard Zoning Scheme By-Law, 2020, the detailed Site development plan, complying with such measures as may be required by the municipality (ito. Section 23(2)), will

need to be submitted to- and approved by the municipality prior to commencement of any development on the relevant land unit.

8. PUBLIC PARTICIPATION

8.1. Apart from comments already included within the draft application, during the public participation process comment must be obtained from:

- a) Western Cape Department of Transport and Public Works (DT&PW),
- b) Department of Environmental Affairs and Development Planning for provincial planning comment in terms of section 45 of LUPA,
- c) The National Department of Agriculture, Land Reform and Rural Development, and
- a) Civil Aviation Authority. 

Riaan Thomson Pr. Pln. (A/023/2007)

Chief Town and Regional Planner

Datum: 17 November 2022



ANNEXURE B:

POWER OF ATTORNEY & TRUST RESOLUTIONS

POWER OF ATTORNEY

I, the undersigned

NAME: ROBERT INVERNIZZI

ID.: 7611035145082

duly authorised/appointed through a Written Resolution(s) by

1. LOTINI TRUST (IT209/2010) dated 21 OCTOBER 2018
2. P S P TIMBER IND PTY LTD Registration Number (200002783607) dated 30 OCTOBER 2018
3. MILLENNIUM TRUST (IT830/99) dated 31 OCTOBER 2018
4. IGNATIUS BEKKER TRUST (IT1384/2000) dated 16 May 2019
5. ROTHNER BEKKER TRUST (IT1365/94) dated 16 May 2019
6. GHATIES SNYMAN FAMILIETRUST (IT577/2001) dated 4 DECEMBER 2018

duly authorised/appointed through a Power of Attorney by

1. NIGRINI JOHANNES BERNARDUS ID Number: 5608075037080

ABO WIND RENEWABLE ENERGIES (PTY) LIMITED (REGISTRATION NUMBER: 2018/062901/07) authorised, amongst others, the signing authority to ROBERT INVERNIZZI

do hereby nominate, constitute and appoint

TOWNSCAPE PLANNING SOLUTIONS CC
REGISTRATION NUMBER CK 2000/045930/23
REPRESENTED BY
K.W. ROST, ID NUMBER: 760721 5043 08 9

with power of Substitution, to be my/our lawful Town and Regional Planner and agent and in my/our place:

1. Apply in terms of the applicable and current National, Provincial and Local Government Spatial Planning and Land Use Management Legislation the Town-Planning and Township Ordinance 1986, (Ordinance 15 Of 1986) read with the spatial planning and use management act, 2013 and any By-Law applicable to the applications.

Facility	Application property	Municipality	Type of application
Kwagga Wind Energy Facility 1	Portion 3 of the Farm Tyger Poort No. 376	Beaufort West Local Municipality	Consent Use application for "Renewable Energy Facility" to accommodate "Wind Energy Facility"
	Remainder of the Farm Dwaalfontein Wes No. 377		
	Portion 1 of the Farm Dwaalfontein Wes No. 377		
	Remainder of the Farm Dwaalfontein No. 379		
	Remainder of the Farm Wolve Kraal No. 17	Prince Albert Local Municipality	Exemption for the registration of a servitude or lease agreement
	Portion 7 of the Farm Wolve Kraal No.17		
	Portion 8 of the Farm Wolve Kraal No.17		
	Portion 10 of the Farm Wolve Kraal No.17		
	Portion 11 of the Farm Wolve Kraal No.17		
	Portion 12 of the Farm Wolve Kraal No.17		

[Handwritten signatures and initials]

Kwagga Wind Energy Facility 2	Remainder of the Farm Wolve Kraal No. 17	Prince Albert Local Municipality	Rezoning from "Agricultural" to "Special Use" for "Renewable Energy Facility" to accommodate "Wind Energy Facility".
	Portion 1 of the Farm Wolve Kraal No.17		
	Portion 3 of the Farm Wolve Kraal No.17		
	Portion 6 of the Farm Wolve Kraal No.17		
	Portion 7 of the Farm Wolve Kraal No.17		
	Portion 8 of the Farm Wolve Kraal No.17		
	Portion 9 of the Farm Wolve Kraal No.17		
	Portion 10 of the Farm Wolve Kraal No.17		
	Portion 11 of the Farm Wolve Kraal No.17		
	Portion 12 of the Farm Wolve Kraal No.17		
	The Farm Annex Wolve Kraal No. 18		
	The Farm Annex Welbedacht No.19		
Kwagga Wind Energy Facility 3	Portion 1 of the Farm Arthurs Kraal No. 386	Beaufort West Local Municipality	Consent Use application for "Renewable Energy Facility" to accommodate "Wind Energy Facility"
	Portion 2 of the Farm Arthurs Kraal No. 386		
	Portion 3 of the Farm Arthurs Kraal No. 386		
	Portion 5 of the Farm Muis Kraal No. 373		
	Portion 7 of the Farm Muis Kraal No. 373		
	The Farm Annex Taaibos No. 21	Prince Albert Local Municipality	Rezoning from "Agricultural" to "Special Use" for "Renewable Energy Facility" to accommodate "Wind Energy Facility".
	Portion 4 of the Farm Cyferfontein No. 115		
	Portion 5 of the Farm Cyferfontein No. 115		
	Portion 6 of the Farm Cyferfontein No. 115		
	Portion 8 of the Farm Cyferfontein No. 115		

to do any and all things necessary to execute and effect this task(s), which may include (but is not limited to) the preparation and lodging of an application mentioned above in point 1 and the able or any other application deemed necessary on the Property(s), the advancing of the said applications and (if required) the lodging of an appeal against any decision of the authorised local authority, and generally for effecting this task(s), to represent, assist and act in the stead of the Owners in the execution of the abovementioned task(s) with power of substitution, to be the Owners Town and Regional Planner and agent, and to represent the Owners as and how the Town and Regional Planner, in its discretion, deems fit to execute and fulfil the task, hereby ratifying, allowing and confirming and promising and agreeing to ratify, allow and confirm all and whatsoever the Town and Regional Planner shall lawfully do, or cause to be done, in order to effect the task, including but not limited to make and sign the relevant applications, statements, affidavits and required documents to the appropriate national, provincial and local governments, also including (if required) the withdrawal of the application on the Property, or (if required) the lodging of an appeal against any decision of the authorised local authority, and generally for effecting the task and bring same to fruition.

Signed at CARENT, this 14TH day of JUNE 2022, in the presence

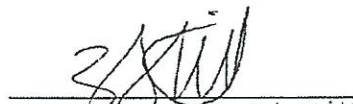
of the undersigned Witnesses:

SIGNED:




ROBERT INVERNIZZI
ID.: 7611035145082

AS WITNESSES:



NAME: Zandri Hill
ID.: 920611 0151085



NAME: DATOIT MALHERBE
ID.: 8704035252088

LOTINI TRUST
MASTER'S REFERENCE NUMBER 209/2010
("Trust")

WRITTEN RESOLUTION OF THE BOARD OF TRUSTEES OF THE TRUST

RECORDAL

1. The following written agreements and documents, are about to be entered into by the parties named below:
 - 1.1 the option agreement (with the draft notarial lease agreement annexed) between the Trust and ABO Wind Renewable Energies (Pty) Limited, registration number 2018/062901/07 ("Abo Wind"), in terms of which the Trust grants ABO Wind an option to lease the following property(ies) ("Option to Lease"):
 - 1.1.1 **Portion 0 (Remaining Extent) of Farm Dwaalfontein Number 379, situated in the Koup Municipality, Division Beaufort West, Western Cape Province, in extent 2217,3658 (Two thousand one hundred and seventeen comma three six five eight) Hectares, Held by Deed of Transfer No. T16790/2011**
 - 1.2 a special power of attorney nominating and appointing the attorneys set out therein ("**First Special Power of Attorney**") the right on behalf of the Trust to execute before a notary public in South Africa:
 - 1.2.1 a notarial deed of lease which is substantially in accordance with the draft notarial lease attached to the Option to Lease ("**Notarial Lease**") and to have such Notarial Lease amended, if necessary, in so far as is required for registration at the respective deeds registries in South Africa; and
 - 1.2.2 a notarial deed of cession of lease in terms of which all rights of the lessee in terms of the Notarial Lease be ceded, and all obligations of the lessee under the Notarial Lease be delegated, to such person as may be nominated by the lessee (or it assign) from time to time,
 - 1.3 a special power of attorney ("**Second Special Power of Attorney**") nominating and appointing (1) the attorneys nominated therein or (2) Michael Mangnol or any other employee of ABO Wind AG (Registration Number HRB 12024) or any other subsidiary thereof, including but not limited to ABO Wind Renewable Energies (Pty)

D
10/3

Limited (Registration Number 2018/062901/07) ("ABO Wind South Africa"), the right on behalf of the Trust to sign and lodge with all competent authorities any forms and applications whatsoever on the Trust's behalf in order for ABO Wind South Africa, ABO Wind or any other juristic person to obtain all necessary consents and approvals as may be required by law to operate a wind facility and/or solar facility on the Property/ies which includes but is not limited to subdivision approval, rezoning, consent use, site development plans, environmental authorisations, building plan approvals, land use approvals and civil aviation authority approval.

2. The board of Trustees of the Trust confirms that:
 - 2.1 the agreements and documents referred to in paragraph 1 ("Agreements") have been made available to them for consideration; and
 - 2.2 they have considered the terms contemplated in the Agreements.

IT IS RESOLVED THAT:

1. Ordinary Resolution 1 – Option to Lease

The Trust enters into the Option to Lease substantially on the terms of the agreement which was submitted and approved.


2. Ordinary Resolution 2 – First Special Power of Attorney

The Trust enters into the First Special Power of Attorney substantially on the terms of the document which was submitted and approved.

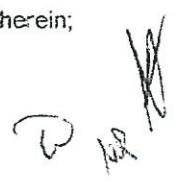
3. Ordinary Resolution 3 – Second Special Power of Attorney

The Trust enters into the Second Special Power of Attorney substantially on the terms of the document which was submitted and approved.

4. Ordinary Resolution 4 – Authorisation

 H.S. VAN DAALEN [name of Trustee], failing him any other Trustee of the Trust, in their capacity as Trustees of the Trust be and is hereby authorised to, on behalf of the Trust:

- 4.1 execute and sign, on behalf of the Trust, in such form as they deem fit, any document contemplated in the resolutions set out in this resolution document;
- 4.2 sign all other forms, documents and notices received or to be sent by the Trust in connection with any related document or any of the resolutions contained herein; and



4.3 take any other action which they consider necessary or desirable in connection with any related document,

and insofar as such signature or action occurred before the adoption of this resolution, such signature or action is hereby ratified.



[H.I. van der Merwe]
Trustee

21/10/2018

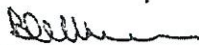
DATE



[D.L. van Oosterhout]
Trustee

21/10/2018

DATE



[B.W. du Plessis]
Trustee

21/10/2018

DATE

[.....]
Trustee

DATE

SPECIAL POWER OF ATTORNEY

We, the undersigned,

LOTINI TRUST

Master's Reference Number 209/2010

("Trust")

herein represented by HENDRIK JOHANNES VAN DAALLEN, identity number 5407145060085, duly authorised in terms of a resolution passed by the board of Trustees of the Trust at a meeting held on the, do hereby nominate, constitute and appoint



Nielen Francois Grundlingh (ID No. 8306075237084) of Smith Tabata Buchanan Boyes Attorneys or any of its successors-in-title

and

Michael Mangnall (7211245134081) or any other employee of ABO Wind AG or ABO Wind Renewable Energies (Pty) Limited

with power of substitution, to be my lawful attorney(s) and agent(s) in my name, place and stead:

1. To sign and lodge with all competent authorities any forms and applications whatsoever on our behalf in order for ABO Wind Renewable Energies (Pty) Limited or any other juristic person to obtain all necessary consents and approvals as may be required by law to operate a wind facility and/or solar facility on the following property/ies:

Portion 0 (Remaining Extent) of Farm Dwaalfontein Number 379, situated in the Koups Municipality, Division Beaufort West, Western Cape Province, in extent 2217,3658 (Two thousand one hundred and seventeen comma three six five eight) Hectares, Held by Deed of Transfer No. T16790/2011

which includes but is not limited to subdivision approval, rezoning, consent use, site development plans, environmental authorisations, building plan approvals, land use approvals and civil aviation authority approval,


and generally for effecting the purposes aforesaid, to do or cause to be done whatsoever shall be requisite, as fully and effectually, for all intents and purposes, as we might or could do if personally present and acting herein - hereby ratifying, allowing and confirming and promising and agreeing to ratify, allow and confirm all and whatsoever our said attorney(s) and agent(s) shall lawfully do, or cause to be done by virtue of these presents.

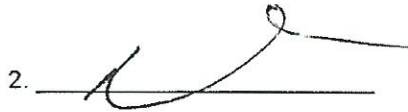
Signed at PORT ELIZABETH

on the 20th day of NOVEMBER 2018

Witness

for Lotini Trust

1. 

2. 



duly authorised and warranting such authority

SPECIAL POWER OF ATTORNEY

I, the undersigned,

J.B. NIGRINI, ID number 5608075037080

do hereby nominate, constitute and appoint

Nielen Francois Grundlingh (ID No. 8306075237084) of Smith Tabata Buchanan Boyes Attorneys or any of its successors-in-title

and

Michael Mangnall (ID No. 7211245134081) or any other employee of ABO Wind AG or ABO Wind Renewable Energies (Pty) Limited

with power of substitution, to be my lawful attorney(s) and agent(s) in my name, place and stead:

1. To sign and lodge with all competent authorities any forms and applications whatsoever on my behalf in order for ABO Wind Renewable Energies (Pty) Limited or any other juristic person to obtain all necessary consents and approvals as may be required by law to operate a wind facility and/or solar facility on Portion 1 of Farm Dusseldorp in W.S. Number 317, which includes but is not limited to subdivision approval, rezoning, consent use, site development plans, environmental authorisations, building plan approvals, land use approvals and civil aviation authority approval,

and generally for effecting the purposes aforesaid, to do or cause to be done whatsoever shall be requisite, as fully and effectually, for all intents and purposes, as I might or could do if personally present and acting herein - hereby ratifying, allowing and confirming and promising and agreeing to ratify, allow and confirm all and whatsoever my said attorney(s) and agent(s) shall lawfully do, or cause to be done by virtue of these presents.

Signed at Beaufort West on the 11 day of February 2019

Witness for [ID number

.....]

1. [Signature]

2. [Signature]

[Signature]
duly authorised and warranting such authority

I the undersigned hereby certify that this copy is a true copy of the original exhibited to me.

[Signature]
HANLIE FERREIRA
2nd Floor, 5 High Street
Rosenpark, Bellville
COMMISSIONER OF OATHS
PRACTISING ATTORNEY, R.S.A.



PSP TIMBER IND (PTY) LTD.
REGISTRATION NUMBER 200002783607
("Company")

WRITTEN RESOLUTION OF THE BOARD OF DIRECTORS OF THE COMPANY

RECORDAL

1. The following written agreements and documents, are about to be entered into by the parties named below:

1.1 the option agreement (with the draft notarial lease agreement annexed) between the Company and ABO Wind Renewable Energies (Pty) Limited, registration number 2018/062901/07 ("Abo Wind"), in terms of which the Company grants ABO Wind an option to lease the following property(ies) ("Option to Lease"):

1.1.1 **Portion 0 (Remaining Extent) of Farm Dwaalfontein Wes Number 377, situated in the Koup Municipality, Division Beaufort West, Western Cape Province, in extent 1108,6427 (One thousand one hundred and eight comma six four two seven) Hectares, Held by Deed of Transfer No. T69090/2005.**

1.2 a special power of attorney nominating and appointing the attorneys set out therein ("First Special Power of Attorney") the right on behalf of the Company to execute before a notary public in South Africa:

1.2.1 a notarial deed of lease which is substantially in accordance with the draft notarial lease attached to the Option to Lease ("Notarial Lease") and to have such Notarial Lease amended, if necessary, in so far as is required for registration at the respective deeds registries in South Africa; and

1.2.2 a notarial deed of cession of lease in terms of which all rights of the lessee in terms of the Notarial Lease be ceded, and all obligations of the lessee under the Notarial Lease be delegated, to such person as may be nominated by the lessee (or it assign) from time to time,



I the undersigned hereby certify that this copy is a true copy of the original exhibited to me.

HANLIE FERREIRA
2nd Floor, 5 High Street
Rosepark, Bellville
COMMISSIONER OF OATHS
PRACTISING ATTORNEY, R.S.A.

a special power of attorney ("Second Special Power of Attorney") nominating and appointing (1) the attorneys nominated therein or (2) Michael Mangnall or any other employee of ABO Wind AC (Registration Number HRB 12024) or any other subsidiary thereof, including but not limited to ABO Wind Renewable Energies (Pty) Limited

Several handwritten signatures in black ink, likely representing the parties to the resolution, including the Company and ABO Wind.

(Registration Number 2018/062901/07) ("ABO Wind South Africa"), the right on behalf of the Company to sign and lodge with all competent authorities any forms and applications whatsoever on the Company's behalf in order for ABO Wind South Africa, ABO Wind or any other juristic person to obtain all necessary consents and approvals as may be required by law to operate a wind facility and/or solar facility on the Property/ies which includes but is not limited to subdivision approval, rezoning, consent use, site development plans, environmental authorisations, building plan approvals, land use approvals and civil aviation authority approval.

2. The board of directors of the Company confirms that:
 - 2.1 the agreements and documents referred to in paragraph 1 ("Agreements") have been made available to them for consideration; and
 - 2.2 they have considered the terms contemplated in the Agreements.

IT IS RESOLVED THAT:

1. Ordinary Resolution 1 – Option to Lease

The Company enters into the Option to Lease substantially on the terms of the agreement which was submitted and approved.

2. Ordinary Resolution 2 – First Special Power of Attorney

The Company enters into the First Special Power of Attorney substantially on the terms of the document which was submitted and approved.

3. Ordinary Resolution 3 – Second Special Power of Attorney

The Company enters into the Second Special Power of Attorney substantially on the terms of the document which was submitted and approved.

Ordinary Resolution 4 – Authorisation

Lizel de Waal [name of director], failing him any other director of the Company, in their capacity as directors of the Company be and is hereby authorised to, on behalf of the Company:

I, the undersigned hereby certify that the copy is a true copy of the original exhibited to me

4.2

HANLIE FERREIRA
2nd Floor, 11 High Street
Rosedale, Bellville
COMMISSIONER OF OATHS
PRACTISING ATTORNEY, R.S.A.


execute and sign, on behalf of the Company, in such form as they deem fit any document contemplated in the resolutions set out in this resolution document;

sign all other forms, documents and notices received or to be sent by the Company in connection with any related document or any of the resolutions contained herein; and




4.3 take any other action which they consider necessary or desirable in connection with any related document,


and insofar as such signature or action occurred before the adoption of this resolution such signature or action is hereby ratified.


[Lizel de Waal]
Director

30.10.18
DATE


[G.J. van Greunen]
Director

30.10.18
DATE


[.....]
Director


DATE

[.....]
Director

DATE



I the undersigned hereby certify that this copy is a true copy of the original exhibited to me


HANLIE FERREIRA
2nd Floor, 5 High Street
Kosel Park, Bellville
COMMISSIONER OF OATHS
PRACTISING ATTORNEY, R.S.A.






SPECIAL POWER OF ATTORNEY

We, the undersigned,

PSP TIMBER IND (PTY) LTD.

Registration Number 200002783607

("Company")

herein represented by Lizel de Waal, identity number 770201066084 duly authorised in terms of a resolution passed by the board of directors of the Company at a meeting held on the 30.10.2018, do hereby nominate, constitute and appoint

Nielen Francois Grundlingh (ID No. 8306075237084) of Smith Tabata Buchanan Boyes Attorneys or any of its successors-in-title

and

Michael Mangnall (7211245134081) or any other employee of ABO Wind AG or ABO Wind Renewable Energies (Pty) Limited

with power of substitution, to be my lawful attorney(s) and agent(s) in my name, place and stead:

1. To sign and lodge with all competent authorities any forms and applications whatsoever on our behalf in order for ABO Wind Renewable Energies (Pty) Limited or any other juristic person to obtain all necessary consents and approvals as may be required by law to operate a wind facility and/or solar facility on the following property/ies:

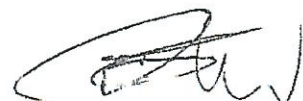
Portion 0 (Remaining Extent) of Farm Dwaalfontein Wes Number 377, situated in the Koups Municipality, Division Beaufort West, Western Cape Province, in extent 1108,6427 (One thousand one hundred and eight comma six four two seven) Hectares, Held by Deed of Transfer No. T69090/2005

which includes but is not limited to subdivision approval, rezoning, consent use, site development plans, environmental authorisations, building plan approvals, land use approvals and civil aviation authority approval,

and generally for effecting the purposes aforesaid, to do or cause to be done whatsoever shall be requisite, as fully and effectually, for all intents and purposes, as we might or could do if personally present and acting hereon hereby ratifying, allowing and confirming and promising and agreeing to ratify, allow and confirm all and whatsoever our said attorney(s) and agent(s) shall lawfully do, or cause to be done by virtue of

I the undersigned hereby certify that this copy is a true copy of the original exhibited

HANLIE FERREIRA
2nd Floor, 51 High Street
Rosenpark, Bellville
COMMISSIONER OF OATHS
ATTORNEY, R.S.A.



these presents.

Signed at Oudtshoorn

on the 30th day of October 2018

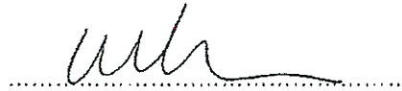
Witness

for PSP Timber Ind (Pty) Ltd.

1.



2.



duly authorised and warranting such authority



I the undersigned hereby certify that this
copy is a true copy of the original
exhibited to me.

.....
HANLIE FERREIRA
2nd Floor 5 High Street
Rosepark, Bellville
COMMISSIONER OF OATHS
PRACTISING ATTORNEY, R.S.A



SPECIAL POWER OF ATTORNEY

We, the undersigned

ABO Wind Renewable Energies (Pty) Limited
Registration Number 2018/062901/07
("Company")

herein represented by Robert Wagener duly authorised in terms of a board resolution dated 1st January 2023 do hereby nominate, constitute and appoint.

Zandri Hill (ID number 9206110151085), **Robert Invernizzi** (ID number 7611035145082), **Du Toit Malherbe** (ID number 8704035252088), **Marielle Penwarden** (ID number 8709210086086), **Petrus Scheepers** (ID Number 9011115010082), **Joachim Barnard** (ID Number 9409265231088), **Marthinus Kotze** (ID Number 9107045071085) or any director of the Company:

with power of substitution, to be my lawful attorney(s) and agent(s) in my name, place and stead to

- execute all option to lease agreements (with draft notarial agreements attached) and all option to servitude agreements with landowners in South Africa from time to time on behalf the Company; and
- issue Environmental Impact Assessments, related studies and amendments of environmental authorisations; and
- apply for and/or sign all documents related to the application and/or amendment process for the environmental permitting process of the Department of Forestry, Fisheries and the Environment in South Africa; and
- apply for any other consents and approvals as required for energy projects in South Africa;

provided that the written approval (which approval may be given by email) from any director of the Company is obtained, and generally for effecting the purposes aforesaid, to do or cause to be done whatsoever shall be requisite, as fully and effectually, for all intents and purposes, as we might or could do if personally present and acting herein – hereby ratifying, allowing and conforming and promising and agreeing to ratify, allow and confirm all and whatsoever our said attorney(s) and agent(s) shall lawfully do, or cause to be done by virtue of these presents.

This Special Power of Attorney is valid until 30 June 2024.

Signed at Wiesbaden

on the 1st day of January 2023

Witness

for ABO Wind Renewable Energies (Pty) Limited

1.

2.

.....
duly authorized and warranting such authority

ANNEXURE C:

CERTIFICATE OF TITLE DEED



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SEARCH CRITERIA

Search Date	2022/06/13 13:42	LPI Code	C00900000000037700001
Reference	-	Search Source	Deeds Office
Report Print Date	2022/06/13 13:43		

PROPERTY INFORMATION

Property Type	FARM	Diagram Deed Number	T10965/1950
Farm Name	DWAALFONTEIN WES	Local Authority	KOUP DC
Farm Number	377	Province	WESTERN CAPE
Registration Division	BEAUFORT WEST RD	Remaining Extent	NO
Portion Number	1	Extent	1108,7097HUNKNOWN
Previous Description	-	LPI Code	C00900000000037700001
Suburb / Town**	48KM NORTH OF PRINCE ALBERT	Co-ordinates (Lat/Long)**	-32.891692 / 22.619272

OWNER INFORMATION (1)

NIGRINI JOHANNES BERNARDUS

Owner 1 of 1

Person Type**	PRIVATE PERSON	Document	T22649/1995
ID Number	5608075037080	Microfilm / Scanned Date	2003 086 0 :57:11
Name	NIGRINI JOHANNES BERNARDUS	Purchase Price (R)	ESTATE
Multiple Owners**	NO	Purchase Date	-
Multiple Properties**	NO	Registration Date	1995/03/31
Share (%)	-		

ENDORSEMENTS (1)

#	Document	Institution	Amount (R)	Microfilm / Scanned Date
1	FARM BF 377/1	-	-	1985 001 0 :08:73

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HISTORIC DOCUMENTS (3)				
#	Document	Institution	Amount (R)	Microfilm / Scanned Date
1	B22405/1999	-	-	2003 072 6 :04:30
2	T14595/1960	WEYERS C E J	Unknown	1987 022 3 :09:59
3	T6990/1987	NIGRINI HENDRIK ERASMUS 35000	35 000	1995 033 8 :33:44

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J. van der VILLIERS EN SEUN
Prokureurs
Kaapstad

HAK/zi

Opgestel deur my

TRANSPORTBESORGER
H.A. KOTZE

VIR ENDOSSEMENTE KYK BLADSY
FOR ENDORSEMENTS SEE PAGE

SEAL REG DUTY	R.
FOOI FEE	R. 75.00

[Handwritten signature]
P.2

T	22649-95
---	----------

TRANSPORTAKTE

HIERMEE WORD BEKEND GEMAAK

DE WAAL ESTERNHUYSE

DAT ~~GUILAUME RONALD PRETORIUS~~

Aktebesorger, voor my, Registrateur van Aktes in Kaapstad, verskyn het, behoorlik daartoe gemagtig deur 'n volmag geteken te BEAUFORT WES

op die 16de dag van FEBRUARIE 1995 en aan hom verleen deur

DIE EKSEKUTEURS IN DIE GESAMENTLIKE BOEDEL VAN WYLE

HENDRIK ERASMUS NIGRINI

NR 2855/1994

en die langselewende eggenote

JACOBA JOHANNA NIGRINI

Identiteitsnommer 330415 0004 00 3

Bladsy 2

EN NADEMAAL die transportnemers geregtig is op die eiendom in terme van die bepalinge van die Testament gedateer 17 November 1992 van wyle Hendrik Erasmus Nigrini, wie oorlede is op 29 Maart 1994, en nademaal die boedel saamgesmelt is en nademaal die langsliewende eggenoot die bepalinge van die testament op 7 April 1994 geadieer het, onderhewig aan sekere voorwaardes, en dat hy, die Komparant hiermee in volkome en vrye eiendom sedeer en transporteer aan en ten gunste van :-

JOHANNES BERNARDUS NIGRINI

Identiteitsnommer 550807 5037 08 0

Getroud binne gemeenskap van goedere met

ELSJE MAGDALENA NIGRINI

Identiteitsnommer 590923 0099 00 1

welke gemeenskap van goedere uitgesluit is in die testament gedateer 17 November 1992

hul Erfgename, Eksekuteurs, Administrateurs of Regverkrygendes;

1. **GEDEELTE 1 VAN DIE PLAAS DWAALFONTEIN WES NR 377,**
Afdeling BEAUFORT WES
Provinsie WES-KAAP

GROOT: 1108,7087 (EENDUISEND EENHONDERD EN AGT komma SEWE NUL AGT SEWE) Hektaar

AANVANKLIK OORGEDRA kragtens Transportakte nr T10965/1950 met Kaart nr 6652/49 wat daarop betrekking het en gehou kragtens Transportakte nr T6990/1987.

- A. **ONDERHEWIG** aan die voorwaardes waarna verwys word in Transportakte nr T11134/1906.

- B. **ONDERHEWIG VERDER** aan die bepalinge van paragraaf 6 van die testament gedateer 17 November 1992 soos meer volledig uiteengesit word in paragraaf 2 C hieronder.

2. **RESTANT VAN GEDEELTE 3 VAN DIE PLAAS TYGER POORT NR 376,**
Afdeling BEAUFORT WES
Provinsie WES-KAAP

M

Bladsy 3

GROOT: 739,4140 (SEWEHONDERD NEGE EN DERTIG komma VIER EEN VIER NUL) Hektaar

AANVANKLIK OORGEDRA kragtens Transportakte nr T7277/1925 met vervangingskaart nr 5932/1982 wat daarop betrekking het en gehou kragtens Transportakte nr T8102/1982.

A. ONDERHEWIG aan die voorwaardes waarna verwys word in Sertifikaat van Gewysigde Titel gedateer 18 Augustus 1906 (Beaufort Wes Erfpagte Boekdeel 17 no. 19) en aan die volgende voorwaarde daarin vervat:-

"The land thus granted being further subject to all such duties and regulations as either are already or shall in future be established respecting lands granted on similar tenure."

B. ONDERHEWIG VERDER aan die bepalinge van die Testament van Wyle HENDRIK ERASMUS NIGRINI en JACOBA JOHANNA NIGRINI gedateer 17 November 1992.

- (a) Dat my voormelde eggenote, JACOBA JOHANNA NIGRINI, Identiteitsnommer 330415 0004 00 3, Ongetroud, die lewenslange vruggebruik sal geniet oor die plaas TIERPOORT. Indien sy dit egter wil verhuur moet sy die eiendom eers te huur aanbied aan my seun, JOHANNES BERNARDUS NIGRINI;
- (b) Dat my seun in bemaaksom van R60 000,00 betaal by die dood van die Testatrise, JACOBA JOHANNA NIGRINI. Die bedrag moet in gelyke dele verdeel word tussen die kinders uit ons huwelik gebore uitgesonderd ons seun, JOHANNES BERNARDUS NIGRINI.

C. ONDERHEWIG VERDER aan klousule 6 wat voorkom in die testament gedateer 17 November 1992, naamlik:-

M

6.

"Dit is 'n uitdruklike voorwaarde van hierdie Testament dat enige erfenis of bemaking wat enige erfgenaam kragtens hierdie Testament mag ontvang sowel as die opbrengs daarvan, uitgesluit sal wees van die Regsgevolge van die bestaande of toekomstige huwelik binne gemeenskap van goed of wat onderhewig is aan die aanwasbedeling. So 'n erfgenaam moet te alle tye oor die vrye, volkome en uitsluitlike beskikkingsreg en kontrole van die bates beskik wat hy/sy kragtens hierdie Testament as erflating mag ontvang. Indien enige bate by wyse van publieke veiling verkoop word in die trust sal my seun, JOHANNES BERNARDUS NIGRINI, geregtig wees om enige bate op die publieke veiling te koop, nieteenstaande die feit dat hy as Trustee dien".

WESHALWE die Komparant, q.q., afstand doen van al die regte en titel wat die bogenoemde

DIE GESAMENTLIKE BOEDEL

voorheen op genoemde eiendom gehad het en gevolglik ook erken dat dit geheel en al van die besit daarvan onthef is en nie meer daarop geregtig is nie, en dat, kragtens hierdie Akte bogenoemde

TRANSPORTNEMERS

hul Erfgename, Eksekuteurs, Administrateurs of Regverkrygendes

tans en voortaan daarop geregtig is, ooreenkomstig plaaslike gebruik, behoudens die regte van die Staat.

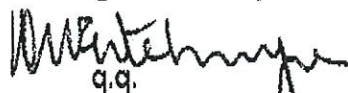
TEN BEWYSE waarvan ek, die genoemde Registrateur van Aktes, tesame met die Komparant, q.q. hierdie Akte onderteken en met die Ampseel bekragtig het.

ALDUS GEDOEN en geteken op hierdie Kantoor van die Registrateur van Aktes in Kaapstad,

Provinsie van die Kaap die Goeie Hoop,

op die 31 dag van die maand Maart.

In die jaar van onse Heer Eenduisend Negehonderd Vyf en Negentig (1995).


q.q.

In my teenwoordigheid


REGISTRATEUR VAN AKTES.

M

BC

GEKANSELLEER
CANCELLED

REGISTRATEUR/REGISTRAR

Landbank W.O.P.

VERBIND MORTGAGED

VIR FOR R 378 000,00

22405.99

1999-08-09

REGISTRATEUR/REGISTRAR

GETRANSPORTEER AAN TRANSFERRED TO

RESTANT/REMAINING

T

PER 10/11

REGISTRATEUR/REGISTRAR



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** ASTERISKS INDICATE THE INFORMATION IS ENRICHED FROM THE WINDEED DATABASE.

SEARCH CRITERIA

Search Date	2022/06/13 13:57	LPI Code	C00900000000037600003
Reference	-	Search Source	Deeds Office
Report Print Date	2022/06/13 13:57		

PROPERTY INFORMATION

Property Type	FARM	Diagram Deed Number	T7277/1925
Farm Name	TYGER POORT	Local Authority	KOUP DC
Farm Number	376	Province	WESTERN CAPE
Registration Division	BEAUFORT WEST RD	Remaining Extent	YES
Portion Number	3 (REMAINING EXTENT)	Extent	739.4140H
Previous Description	TYGER POORT	LPI Code	C00900000000037600003
Suburb / Town**	43KM NORTH OF RIETBRON	Co-ordinates (Lat/Long)**	-32.917884 / 22.693567

OWNER INFORMATION (1)

NIGRINI JOHANNES BERNARDUS		Owner 1 of 1	
Person Type**	PRIVATE PERSON	Document	T22649/1995
ID Number	5608075037080	Microfilm / Scanned Date	2003 086 0 :57:11
Name	NIGRINI JOHANNES BERNARDUS	Purchase Price (R)	ESTATE
Multiple Owners**	NO	Purchase Date	-
Multiple Properties**	NO	Registration Date	1995/03/31
Share (%)	-		

ENDORSEMENTS (1)

#	Document	Institution	Amount (R)	Microfilm / Scanned Date
1	FARM BF 376/3	-	-	1985 001 0 :08:65

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HISTORIC DOCUMENTS (2)				
#	Document	Institution	Amount (R)	Microfilm / Scanned Date
1	B22405/1999	-	-	2003 072 6 :04:30
2	T8102/1982	NIGRINI HENDRIK ERASMUS	Unknown	-

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** ASTERISKS INDICATE THE INFORMATION IS ENRICHED FROM THE WINDEED DATABASE.

SEARCH CRITERIA

Search Date	2022/06/13 13:55	LPI Code	C00900000000037900000
Reference	-	Search Source	Deeds Office
Report Print Date	2022/06/13 13:55		

PROPERTY INFORMATION

Property Type	FARM	Diagram Deed Number	T7278/1925
Farm Name	DWAALFONTEIN	Local Authority	KOUP DC
Farm Number	379	Province	WESTERN CAPE
Registration Division	BEAUFORT WEST RD	Remaining Extent	NO
Portion Number	0	Extent	2217.3658H
Previous Description	-	LPI Code	C00900000000037900000
Suburb / Town**	45KM NORTH OF RIETBRON	Co-ordinates (Lat/Long)**	-32.898321 / 22.676999

OWNER INFORMATION (1)

LOTINI TRUST		Owner 1 of 1	
Company Type**	TRUST	Document	T16790/2011
Registration Number	209/2010	Microfilm / Scanned Date	-
Name	LOTINI TRUST	Purchase Price (R)	2 553 984
Multiple Owners**	NO	Purchase Date	2010/09/07
Multiple Properties**	NO	Registration Date	2011/03/25
Share (%)	-		

ENDORSEMENTS (2)

#	Document	Institution	Amount (R)	Microfilm / Scanned Date
1	FARM BF 379	-	-	-
2	FROM BF RD 374/1,376	-	-	-

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HISTORIC DOCUMENTS (6)				
#	Document	Institution	Amount (R)	Microfilm / Scanned Date
1	B12991/1970	-		2001 002 3 :38:71
2	B43748/1983	-	-	2004 025 8 :52:84
3	B20483/2016			
4	T19503/1955	VUUREN LORENZO VAN	Unknown	-
5	T19503/1955	VUUREN JOSIMUS PHILLIPUS JOHANNES JANSE VAN	SECT 39(3)	-
6	T16789/2011	VUUREN JOSIMUS PHILLIPUS JOHANNES JANSE VAN	ESTATE	-

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1066



Opgestel deur my

TRANSPORTBESORGER
VAN VELDEN AGE

FOUCHÉ J

VERBIND MORTGAGED	
VIR FOR R. 7000 000 00	
B 000010483 / 2016	
10 AUG 2016	REGISTRATEUR/REGISTRAR



T016790/11

AKTE VAN TRANSPORT

CRAWFORDS
DONKINSTRAT 36
BEAUFORT WES
6970
POSBUS 25 BEAUFORT WES 6970
Telefoon (023) 414 2161

HIERMEE WORD BEKEND GEMAAK

JANINE FOUCHÉ

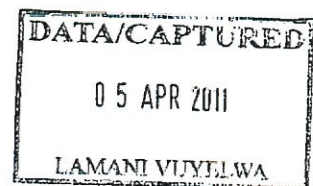
DAT

voor my REGISTRATEUR VAN AKTES te KAAPSTAD verskyn het, die genoemde komparant synde behoorlik daartoe gemagtig deur 'n Volmag aan hom/haar verleen deur:

JOSIMUS PHILLIPUS JOHANNES JANSE VAN VUUREN
Identiteitsnommer 510727 5012 08 4
Getroud buite gemeenskap van goed

gedateer die 3 NOVEMBER 2010
en geteken te BEAUFORT WES

DATA/VER
04 MAY 2011
VAN WYK JENNY



EN die genoemde Komparant het verklaar dat JOSIMUS PHILLIPUS JOHANNES JANSE VAN VUUREN die ondergemelde eiendom op 7 September 2010 waarlik en wettiglik per PRIVAAT VERKOPING verkoop het en dat hy/sy in sy/haar voormelde hoedanigheid hierby sedeer en transporteer aan en ten gunste van:

**Die Trustees van tyd tot tyd van LOTINI TRUST
Nr IT209/2010**

hulle opvolgers in titel of regverkrygendes, in volkome en vrye eiendom,

**DIE PLAAS DWAALFONTEIN NR 379
In die Munisipaliteit en Afdeling van BEAUFORT-WES
PROVINSIE WES-KAAP**

**GROOT: 2 217,3658 (TWEË DUISEND TWEË HONDERD EN SEWENTIEN
KOMMA DRIË SES VYF AGT) hektaar**

AANVANKLIK oorgedra kragtens Transportakte Nr. 7278 gedateer 30 Julie 1925 met kaart daaraan geheg en gehou kragtens Transportakte Nr. T016789/11

- A. **ONDERHEWIG** aan die voorwaardes waarna verwys word in Transportakte Nr. 7278 gedateer 30 Julie 1925, en in sover as dit van toepassing is op dié deel van die plaas TYGER POORT, aan die volgende spesiale voorwaarde vervat in die Gewysigde Titel uitgereik kragtens Wet Nr. 9 van 1879, gedateer 18 Augustus 1906 (BEAUFORT WES ERFPAAGTE BOEKDEEL 17 Nr. 19), naamlik :-

"The land thus granted being further subject to all such duties and regulations as either are already or shall in future be established respecting lands granted on similar tenure."

WESHALWE die Komparant afstand doen van al die reg en titel wat die gesegde JOSIMUS PHILLIPUS JOHANNES JANSE VAN VUUREN voorheen in die genoemde eiendom gehad het en gevolglik ook erken dat hy geheel en al uit die besit daarvan onthef is en nie meer daartoe geregtig is en dat kragtens hierdie akte, die genoemde

Die Trustees van tyd tot tyd van LOTINI TRUST

Nr IT209/2010

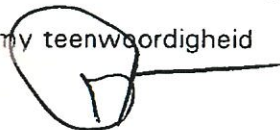
hulle opvolgers in titel of regverkrygendes tans en voortaan daartoe geregtig is, ooreenkomstig plaaslike gebruik, behoudens die Regte van die Staat en erken hy ten slotte dat die koopprys van die eiendom wat hiermee getranspoteer word die bedrag van **R2 553 984,00 (TWEЕ MILJOEN VYF HONDERD DRIE EN VYFTIG DUISEND NEGE HONDERD VIER EN TAGTIG RAND)** is.

IN GETUIENIS WAARVANEK, die genoemde REGISTRATEUR VAN AKTES tesame met die Komparant, q.q. hierdie Akte onderteken het en met my Ampseël bekragtig het.

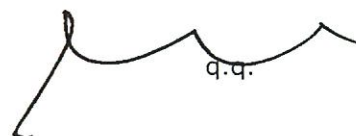
ALDUS GEDOEN EN GETEKEN op die kantoor van die REGISTRATEUR VAN AKTES te KAAPSTAD op

25 MAR 2011

In my teenwoordigheid



REGISTRATEUR VAN AKTES



q.q.



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Any personal information obtained from this search will only be used as per the Terms and Conditions agreed to and in accordance with applicable data protection laws including the Protection of Personal Information Act, 2013 (POPI), and shall not be used for marketing purposes.

** ASTERISKS INDICATE THE INFORMATION IS ENRICHED FROM THE WINDEED DATABASE.

SEARCH CRITERIA

Search Date	2022/06/13 13:51	LPI Code	C00900000000037700000
Reference	-	Search Source	Deeds Office
Report Print Date	2022/06/13 13:53		

PROPERTY INFORMATION

Property Type	FARM	Diagram Deed Number	T7273/1925
Farm Name	DWAALFONTEIN WES	Local Authority	KOUP DC
Farm Number	377	Province	WESTERN CAPE
Registration Division	BEAUFORT WEST RD	Remaining Extent	YES
Portion Number	0 (REMAINING EXTENT)	Extent	1108.6427H
Previous Description	-	LPI Code	C00900000000037700000
Suburb / Town**	48KM NORTH OF RIETBRON	Co-ordinates (Lat/Long)**	-32.899002 / 22.641588

OWNER INFORMATION (1)

P S P TIMBER IND PTY LTD		Owner 1 of 1	
Company Type**	COMPANY	Document	T69090/2005
Registration Number	200002783607	Microfilm / Scanned Date	-
Name	P S P TIMBER IND PTY LTD	Purchase Price (R)	935 000
Multiple Owners**	NO	Purchase Date	2005/06/09
Multiple Properties**	NO	Registration Date	2005/08/30
Share (%)	-		

ENDORSEMENTS (5)

#	Document	Institution	Amount (R)	Microfilm / Scanned Date
1	B5379/2022	FIRSTRAND BANK LTD	720 000	-
2	B5626/2012	FIRSTRAND BANK LTD	800 000	-
3	B92094/2005	FIRSTRAND BANK LTD	600 000	2005 206 1 :23:41
4	FARM BF 377	-	-	-
5	FROM BF RD 374/1,376	-	-	-

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HISTORIC DOCUMENTS (6)				
#	Document	Institution	Amount (R)	Microfilm / Scanned Date
1	B26360/1999	-	-	2003 098 1 :07:55
2	B63043/2003	-	-	2005 206 1 :23:40
3	T10966/1950	VENTER SUSANNA JOHANNA P B-E	Unknown	
4	T3984/1984	VENTER SUSANNA JOHANNA PETRONELLA	Unknown	-
5	T51512/1999	BEA BOERDERY C C	150 000	2003 098 1 :07:33
6	T99989/2003	REDLANDS TRUST	330 000	2005 206 1 :23:23

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SEARCH CRITERIA

Search Date	2022/06/13 13:54	Registration Number	200002783607
Reference	-	Information Source	COMPANIES AND INTELLECTUAL PROPERTY COMMISSION
Report Print Date	2022/06/13 13:54		

COMPANY SUMMARY

Name	P S P TIMBER INDUSTRIES	Status	IN BUSINESS
Registration Number	2000/027836/07	Registration Date	2000/11/02

DIRECTORS AND OTHER SUMMARY (4)

ACTIVE

Name	ID/Reg. Number	Type	Status
DE WAAL, LIZEL	7702010166084	DIRECTOR	ACTIVE
VAN GREUNEN, ESIAS IGNATUIS	5002045024081	DIRECTOR	ACTIVE

INACTIVE

Name	ID/Reg. Number	Type	Status
DE WAAL, CONSTANT JOHANNES	7503315063087	DIRECTOR	RESIGNED
MULLER, GERHARD JOHANNES	5101012072086	DIRECTOR	RESIGNED

AUDITOR SUMMARY (3)

ALICE LE ROUX

GERHARD VOSLOO

HENRI GROVE AND PARTNERS

COMPANY INFORMATION

Enterprise Name	P S P TIMBER INDUSTRIES	Status	IN BUSINESS
Registration Number	2000/027836/07	Enterprise Type	PRIVATE COMPANY
Tax Number	9420621105	Business Start Date	2000/11/02
Short Name	-	Registration Date	2000/11/02
Translated Name	-	Financial Year End	2
Old Registration Number	-	Financial Effective Date	2000/11/02

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Conv. Enterprise Number	B1995051986	CK Date Received	-
Region	WESTERN CAPE	CK Date	-
Country	-	Date of Type	2000/11/02
Country of Origin	-		
Issued Shares			
Issued Capital	-		
Authorized Shares	-		
Authorized Capital	-		
Industry Code	32		
Industry	MANUFACTURE OF WOOD AND OF PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; MANUFACTURE OF ARTICLES OF STRAW AND PLAITING MATERIALS; MANUFACTURE OF PAPER AND PAPER PRODUCTS; PUBLISHING, PRINTING AND REPRODUCTION OF RECORDED MEDIA		
Principal Business	-		
Registered Address	SPOORNET GEBOU WAGENERSTRAAT OUDTSHOORN WESTERN CAPE 6625	Postal Address	POSBUS 1346 OUDTSHOORN OUDTSHOORN WESTERN CAPE 6620

DIRECTORS AND OTHER (4)

DE WAAL, CONSTANT JOHANNES

1 of 4 Directors

Name	CONSTANT JOHANNES	Status	RESIGNED
Surname	DE WAAL	Type	DIRECTOR
Initials	C	Appointment Date	2005/08/01
ID/Passport Number	7503315063087	Resignation Date	-
Date of Birth	1975/03/31	Member Size (%)	-
Profession	BESIGHEIDSMAN	Member Contribution (R)	-
Country of Residence	SOUTH AFRICA		
Residential Address	RAUBENHEIMMERYLAAN 11 OUDTSHOORN 6625		
Postal Address	POSBUS 84 OUDTSHOORN 6625		

DE WAAL, LIZEL

2 of 4 Directors

Name	LIZEL	Status	ACTIVE
Surname	DE WAAL	Type	DIRECTOR
Initials	L	Appointment Date	2001/02/07
ID/Passport Number	7702010166084	Resignation Date	-
Date of Birth	1977/02/01	Member Size (%)	-
Profession	BESIGHEIDSVROU	Member Contribution (R)	-
Country of Residence	SOUTH AFRICA		

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Residential Address	RAUBENHEIMMERYLAAN 11 OUDTSHOORN 6625		
Postal Address	POSBUS 84 OUDTSHOORN 6620		
MULLER, GERHARD JOHANNES		3 of 4 Directors	
Name	GERHARD JOHANNES	Status	RESIGNED
Surname	MULLER	Type	DIRECTOR
Initials	CJ	Appointment Date	2001/02/07
ID/Passport Number	5101012072086	Resignation Date	2001/06/01
Date of Birth	1951/01/01	Member Size (%)	-
Profession	BESIGHEIDSMAN	Member Contribution (R)	-
Country of Residence	SOUTH AFRICA		
Residential Address	KENNITH HOPSTRAAT 7 OUDTSHOORN 6625		
Postal Address	POSBUS 84 OUDTSHOORN 6620		
VAN GREUNEN, ESIAS IGNATUIS		4 of 4 Directors	
Name	ESIAS IGNATUIS	Status	ACTIVE
Surname	VAN GREUNEN	Type	DIRECTOR
Initials	EI	Appointment Date	2000/11/02
ID/Passport Number	5002045024081	Resignation Date	-
Date of Birth	-	Member Size (%)	-
Profession	BESIGHEIDSMAN	Member Contribution (R)	-
Country of Residence	SOUTH AFRICA		
Residential Address	RAUBENHEIMMERYLAAN 46 OUDTSHOORN 6625		
Postal Address	POSBUS 84 OUDTSHOORN 6620		

SECRETARY COMPANIES AND CCS

No secretary companies and CCS to display

COMPANY SECRETARY NATURAL PERSONS

No company secretary natural persons to display

BOTH DIRECTOR / OFFICERS

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No both director / officers to display

ALTERNATIVE DIRECTORS

No alternative directors to display

OFFICERS

No officers to display

LOCAL MANAGERS

No local managers to display

TRUSTS

No trusts to display

AUDITORS (3)

ALICE LE ROUX 1 of 3 Auditors

Profession Code	THE SOUTH AFRICAN INSTITUTE OF CHARTERED ACCOUNTANTS	Postal address	P O BOX 788 OUDTSHOORN 6620
Profession Number	08243582	Status	RESIGN
Registration entry date	-	Profession	AUDITOR
Expiry date	-	Start date	-
Reference number	-	End date	2017/12/01
Fine letter	-	CM31 completed	-
Business address	KERKSTRAAT 135 OUDTSHOORN 6625	CM31 received	-

GERHARD VOSLOO 2 of 3 Auditors

Profession Code	CA	Postal address	POSBUS 1451 WELKOM 9460
Profession Number	-	Status	RESIGN
Registration entry date	-	Profession	AUDITOR
Expiry date	-	Start date	-
Reference number	-	End date	2004/12/12
Fine letter	-	CM31 completed	-
Business address	GROUND VLOER DOMITEK GEBOU DE KAAPSTRAAT WELKOM 9459	CM31 received	-

HENRI GROVE AND PARTNERS 3 of 3 Auditors

Profession Code	CA	Postal address	P O BOX 2678 BELLVILLE 7535
-----------------	----	----------------	-----------------------------------

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Profession Number	951307	Status	RESIGN
Registration entry date	-	Profession	AUDITOR
Expiry date	-	Start date	-
Reference number	-	End date	-
Fine letter	-	CM31 completed	-
Business address	5 IONA STREET BELLVILLE 7530	CM31 received	-

CAPITAL INFORMATION

No capital information to display

HISTORY (31)

Effective Date	Change Type
2021/11/19	CO/CC ANNUAL RETURN (COMPANY / CLOSE CORPORATION AR FILING - WEB SERVICES : REF NO. : 5356522644)
2020/11/25	CO/CC ANNUAL RETURN (COMPANY / CLOSE CORPORATION AR FILING - WEB SERVICES : REF NO. : 5325451611)
2019/11/04	CO/CC ANNUAL RETURN (COMPANY / CLOSE CORPORATION AR FILING - WEB SERVICES : REF NO. : 5210334878)
2019/10/03	REGISTERED ADDRESS CHANGE (SPOORNET GEBOU WAGENERSTRAAT OUDTSHOORN WESTERN CAPE6625)
2018/12/05	CO/CC ANNUAL RETURN (COMPANY / CLOSE CORPORATION AR FILING - WEB SERVICES : REF NO. : 5152777497)
2017/12/01	AUDITOR/ACC OFFICER CHANGE (NOTICE OF CHANGE OF AUDITOR: AND ALICE LE ROUX RESIGNED)
2017/11/10	CO/CC ANNUAL RETURN (COMPANY / CLOSE CORPORATION AR FILING - WEB SERVICES : REF NO. : 591601758)
2016/11/09	CO/CC ANNUAL RETURN (COMPANY / CLOSE CORPORATION AR FILING - WEB SERVICES : REF NO. : 556663283)
2015/11/11	CO/CC ANNUAL RETURN (COMPANY / CLOSE CORPORATION AR FILING - WEB SERVICES : REF NO. : 530622240)
2014/11/18	CO/CC ANNUAL RETURN (COMPANY / CLOSE CORPORATION AR FILING - WEB SERVICES : REF NO. : 522861929)

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2013/12/03	CO/CC ANNUAL RETURN
2012/04/03	(COMPANY / CLOSE CORPORATION AR FILING - WEB SERVICES : REF NO. : 51176910) POSTAL ADDRESS CHANGE (POSBUS 84OUDTSHOORN6620)
2012/04/03	REGISTERED ADDRESS CHANGE (SPOORNET GEBOUWAGENAARSTRAAT OUDTSHOORN6620)
2012/03/27	AUDITOR/ACC OFFICER CHANGE (CHANGE RECORDNAME : = HENRI GROVE AND PARTNERSTATUS : = RESIGN)
2012/03/27	AUDITOR/ACC OFFICER CHANGE (ADD RECORDNAME : = ALICE LE ROUXSTATUS : = CURRENT)
2008/04/10	AUDITOR/ACC OFFICER CHANGE (CHANGE RECORDNAME : = HENRI GROVE AND PARTNERSTATUS : = CURRENT)
2008/04/10	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (CHANGE RECORD SURNAME : = VAN GREUNEN FIRST NAMES : = ESIA IGNATIUS STATUS : = ACTIVE)
2008/04/10	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (CHANGE RECORD SURNAME : = DE WAAL FIRST NAMES : = LIZEL STATUS : = ACTIVE)
2007/07/30	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (SURNAME=VAN GREUNENFULL FORENAMES=ESIA IGNATIUSID NO=5002045024008STATUS :ACTIVENATURE OF CHANGE=GEEN)
2007/07/30	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (SURNAME=DE WAALFULL FORENAMES=LIZELID NO=7702010166084STATUS :ACTIVENATURE OF CHANGE=GEEN)
2007/07/30	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (SURNAME=DE WAALFULL FORENAMES=CONSTANT JOHANNESID NO=7503315063087STATUS :DECEASEDNATURE OF CHANGE=BEDANKING AS DIREKTEUR)
2007/07/30	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (SURNAME=DE WAALFULL FORENAMES=CONSTANT JOHANNESID NO=7503315063087STATUS :RESIGNEDNATURE OF CHANGE=BEDANKING AS DIREKTEUR)
2005/09/09	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (SURNAME=VAN GREUNENFULL FORENAMES=ESIA IGNATIUSID NO=5002045024008STATUS :ACTIVENATURE OF CHANGE=WOONADRES)
2005/09/09	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (SURNAME=DE WAALFULL FORENAMES=LIZELID NO=7702010166084STATUS

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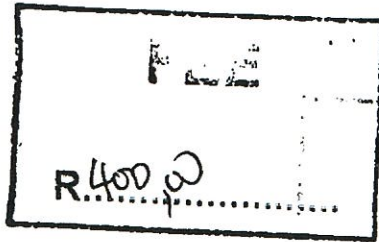
	:ACTIVENATURE OF CHANGE=VAN, WOONADRES)
2005/09/09	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (SURNAME=DE WAALFULL FORENAMES=CONSTANT JOHANNESID NO=7503315063087STATUS :ACTIVENATURE OF CHANGE=AANGESTEL 01/08/2005)
2005/09/09	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (SURNAME=VAN GREUNENFULL FORENAMES=ESIAS IGNATUISID NO=5002045024008STATUS :ACTIVENATURE OF CHANGE=VOORNAAM)
2004/12/12	AUDITOR/ACC OFFICER CHANGE (NO INFORMATION TO DISPLAY)
2004/12/02	AUDITOR/ACC OFFICER CHANGE (ADD RECORDSURNAME : = HENRI GROVE AND PARTNERSSTATUS : = CURRENT)
2001/06/20	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (CHANGE RECORDSURNAME = MULLERFIRST NAMES = GERHARD JOHANNESSTATUS = RESIGNED)
2001/02/07	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (ADD RECORDSURNAME = VAN GREUNENFIRST NAMES = LIZELSTATUS = ACTIVE)
2001/02/07	DIRECTOR/MEMBER/SECRETARY/TRUST/BOTH DIRECTOR AND OFFICER (ADD RECORDSURNAME = MULLERFIRST NAMES = GERHARD JOHANNESSTATUS = ACTIVE)

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14

VANDERSPUY
CAPE TOWN



Opgestel deur my:

Transportbesorger
J F MOUTON

VERBIND. MORTGAGED	
VIR FOR R 600 000,00	
B00092094 / 2005	
30 AUG 2005	
REGISTRATEUR/REGISTRAR	

TRANSPORTAKTE

T 000069090 / 2005

KRAGTENS 'N PROKURASIE

SY DIT KENNELIK AAN ALMAL WIE DIT MAG AANGAAN

DAT ~~DE WAAL~~ **ESTERHUYSE** JOHN VAN BREDA LOUW

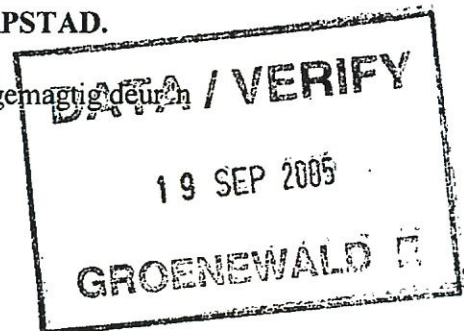
verskyn het voor my, **Registrateur van Aktes, KAAPSTAD.**

Hy die gesegde Komparant synde daartoe behoorlik gemagtig deur in
volmag uitgevoer te CALITZDORP

op die 9de dag van JUNIE 2005, deur:-

REDLANDS TRUST
NR IT 1572/2001

welke volmag, geteken in die teenwoordigheid van getuie ooreenkomstig die Wet, my
hede getoon is;

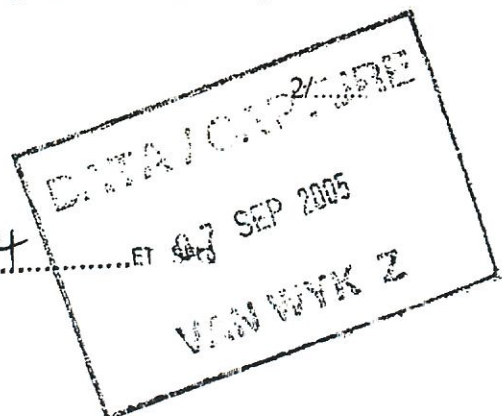



VIR ENDOSSEMENTE KYK BLADSY
FOR ENDORSEMENTS SEE PAGE.....


4

ET 07 SEP 2005

VAN WYK Z



VERBIND		MORTGAGED	
VER FOR R 800 000,00			
B 000005626 2012		 REGISTRATEUR/REGISTHAR	
01 MAR 2012			

VERBIND		MORTGAGED	
VER FOR R 720 000,00			
B 000005379 2022		 REGISTRATEUR/REGISTHAR	
11 MAR 2022			

EN die Komparant het verklaar dat sy Prinsipaal

voormeld die hiernavermelde eiendom verkoop het aan die hiernavermelde Transportnemer op **9 JUNIE 2005**

NOU DUS sedeer en transporteer die Komparant in sy voormelde hoedanigheid hiermee in volkome en vrye eiendom aan en ten gunste van:

**P.S.P. TIMBER INDUSTRIES
(EIENDOMS) BEPERK
NR 2000/027836/07**

Hul gemagtigdes;

RESTANT van die plaas DWAALFONTEIN WEST NR 377, in die Munisipaliteit en Afdeling van BEAUFORT-WES, PROVINSIE WES-KAAP;

GROOT: 1 108,6427 (EENDUISEND EENHONDERD EN AGT KOMMA SES VIER TWEE SEWE) HEKTAAR.

AANVANKLIK OORGEDRA kragtens Transportakte Nr T 7273/1925 met Kaart Nr A1184/1923 wat daarop betrekking het en gehou kragtens Transportakte Nr T99989/2003

- A. ONDERHEWIG** aan die voorwaardes waarna verwys word in Transportakte Nr T11134/1906, en Grondbrief gedateer 18 Augustus 1906 (Beaufort Wes Erfpagbriewe Boekdeel 17 Nr. 19).
- B. ONDERHEWIG VERDER** ten opsigte van die figuur a Middel River r, a, aangedui op Kaart Nr A1884/1923 aan die volgende voorwaardes genoem in Geamendeerde Titel gedateer 18 Augustus 1906 (Beaufort Wes Erfpagbriewe Boekdeel 17 Nr. 19), naamlik:

"The land thus granted being further subject to all such duties and regulations as either are already or shall in future be established respecting land granted on similar tenure."

3/.....

DIE Komparant doen dus hiermee afstand van al sy regte, aanspraak en titel wat REDLANDS TRUST NR IT 1572/2001

voorheen op genoemde eiendom gehad het, en gevolglik erken die Komparant ook dat REDLANDS TRUST NR IT 1572/2001

geheel en al van die besit daarvan onthef en nie meer daarop geregtig is nie, en dat kragtens hierdie akte P.S.P. TIMBER INDUSTRIES (EIENDOMS) BEPERK NR 2000/027836/07

Hul gemagtigdes tans en voortaan daartoe geregtig is, ooreenkomstig plaaslike gebruik, behoudens die Regte van die Staat;

en ten slotte erken hy dat die hele koopsom ten bedrae van **R935000,00 (NEGEHONDERD VYF EN DERTIGDUISEND RAND)**

behoorlik betaal of verseker is.

TEN BEWYSE waarvan ek, die genoemde Registrateur, tesame met die Komparant, hierdie Akte onderteken en dit met die Ampseël bekragtig het.

ALDUS GEDOEN en verly op die kantoor van die Registrateur van Aktes, te KAAPSTAD op hede die 30 dag van Augustus

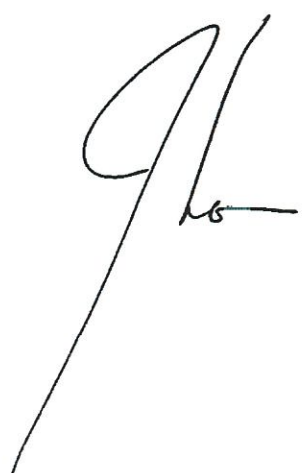
in die jaar van ons Heer,

TWEEDUISEND EN VYF (2005)

q.q. sy Prinsipaale

in my teenwoordigheid

REGISTRATEUR VAN AKTES



ANNEXURE D:

LOCALITY PLAN

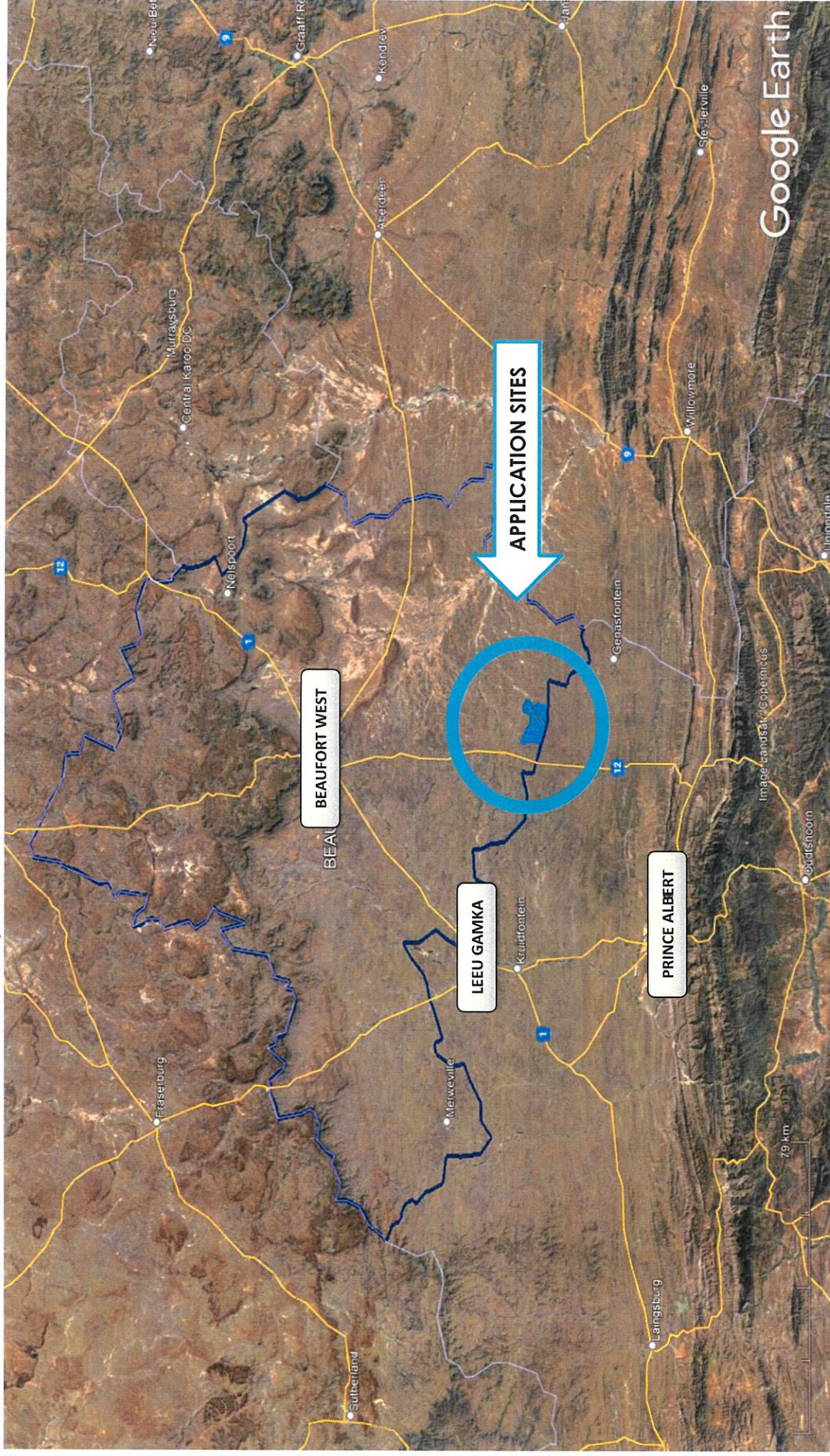
LOCAL LOCALITY MAP

KWAGGA WIND ENERGY FACILITY 1, BEAUFORT WEST MUNICIPALITY



REGIONAL LOCALITY MAP

KWAGGA WIND ENERGY FACILITY 1, BEAUFORT WEST MUNICIPALITY



ANNEXURE E:

SG DIAGRAM

Approved
13 Jan. 1925
(Sgd.) F.R. Brooke.
for Surveyor-General.

COORDINATES		ANGLES		SIDES	
x's	y's	a	b	ab	bc
827.33	1854.99	88 48 20	72 58 30	767.04	996.86
1537.82	1565.94	170 18 40	122 49 00	1205.09	391.47
908.24	793.03	93 15 40	199 01 40	465.63	103.50
0.78	0.11	166 36 40	101 32 50	552.22	823.51
375.46	108.25	244 38 40		619.43	
272.51	562.35				
283.78	665.23				
25.17	1213.16				
605.90	1276.49				

The annexed diagram lettered a.b.c.d.e.f.g.h.i. represents 2588 morgen 453 square rods of land situate in the Field-Cornetcy of Trench No. 1 & 2 Division of Beaufort West called DMAALFONTEIN consisting of

- 1st. Part abodek middle of river lfn, middle of river op, middle of river rs, middle of river tia, in extent 2580 Mgn. 400 Sq. Rds., is part of the quitrent farm Tyger Poort, granted to O.J.M.P. Brits, 13th Aug. 1906.
- 2nd. Part k middle of river lk, l Mgn., n middle of river ogn, l Mgr. 300 Sq. Rds., p middle of river rp, l Mgn. 141 Sq. Rds., s middle of river ths, 4 Mgn. 222 Sq. Rds., together 8 Mgn. 63 Sq. Rds., is part of the quitrent farm Rietfontein transferred to O.J.M.P. Brits on the 13th Dec. 1906.

Bounded NEd. by Vaal Kuil.
SEd. by Tyger Poort A.
Sd. by Wit Poortje.
Wd. by Dwaalfontein West and Rietfontein A.
Nd. by Rietfontein A.

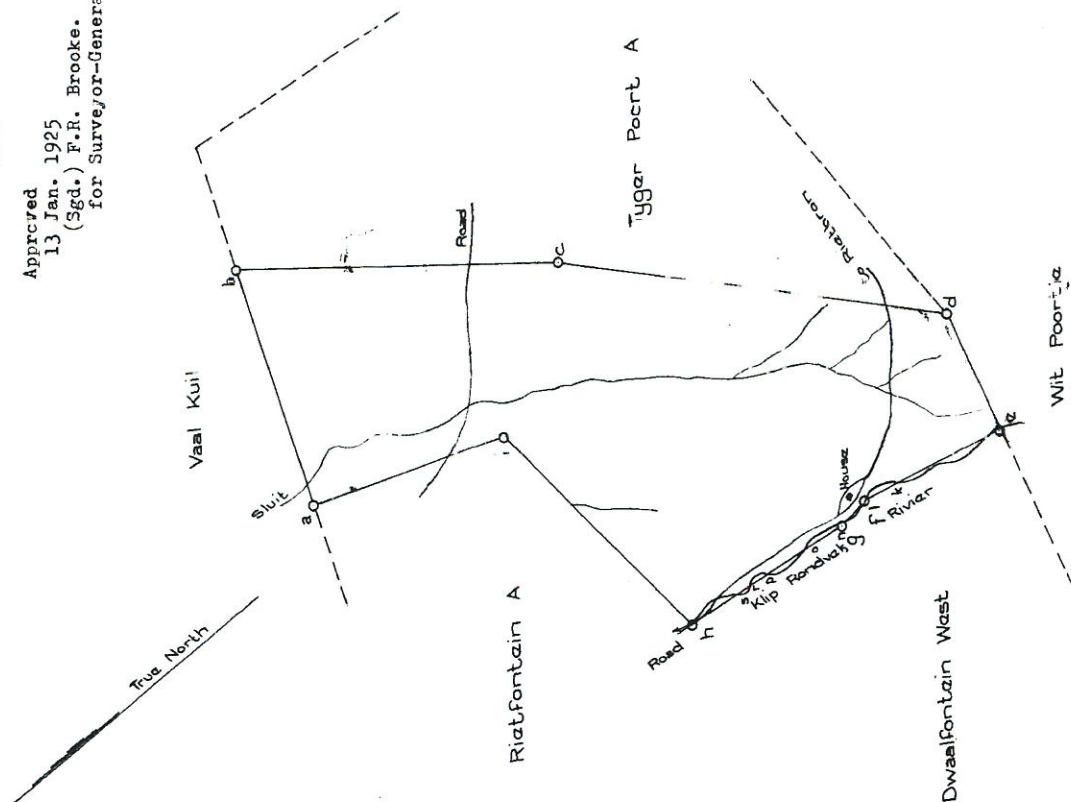
Surveyed and beaconed by me according to regulations.
(Sgd.) R.H. Greaves.
Government Land Surveyor.
July 1914.

Copies from diagram relating to Transfer Deed No. 7278 date 30.7.1925

[Signature]
for Surveyor-General
1925

SHEET CL-8

DJ.



The Farm..... DMAALFONTEIN No. 579
BEAUFORT-WEST



C.

Goedgekeur
(Get.) T. de Smidt.
f. Landmeter-generaal.
31 Mar. 1950

SYE	RIGTINGS- HOEKE	STELSEL L. 23° KO-ORDINATE
Kaapse Voet	o ' "	x y
AB	7574.1 296 20 0	A + 100000.0 + 11550000.0
BC	5787.4 0 39 23	B + 16570.6 + 2050.8
CD	7292.5 358 43 10	C + 9782.5 + 5410.6
DE	6200.8 105 52 9	D + 9894.6 + 15197.4
EF	13507.9 177 19 19	E + 9731.7 + 22488.1
FA	5254.1 177 20 50	F + 15696.2 + 20792.5
Hb	7082.7 296 20 0	b + 3434.8 + 8552.4
Dd	5861.3 285 52 9	d + 4093.8 + 24090.8

Beskrywing van Bakens:

A.E.b.d. - Klipstapels om ysterpenne teen hout hoekpale.
B.C.D.F. - Klipstapels 3' x 3' oor ysterpenne.

Gedeelte..... 1 (.....)
(In gedeelte van Gedeelte.....) van die plaas
TWAALFONTEIN WEST Nr..... 377.....
BEAUFORT-WES

Die f-guur A. E. C. D. E. F.
stel worc 1294.4160 Morge grond, synde

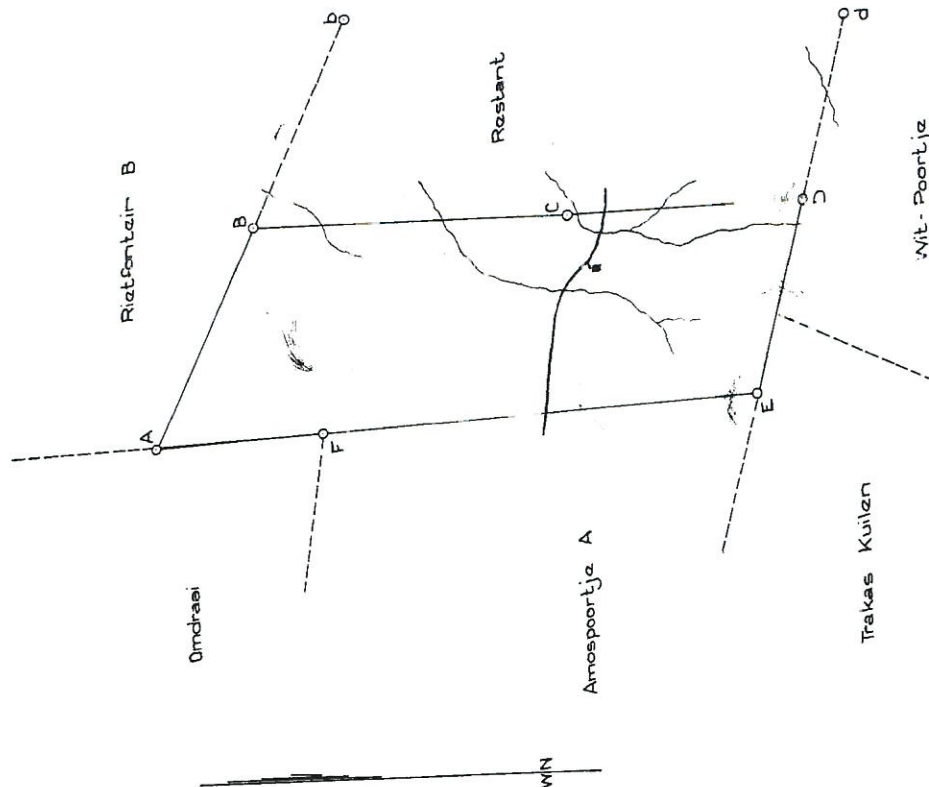
GEDEELTE 1 van die plaas DWALFONTEIN WES
geleë in die Afdeling BEAUFORT-WES Provinsie Kaap die Goeie Hoop.

Opgemeet in Junie 1949 deur my (Get.) J.F.F. Hartwig.
Landmeter.

Afskrif van kaart waarna verwys word
in T/A 12965
gedateer 23.7.1950
nres. Landmeter-Generaal.
..... 7.7.1950

Die oorspronklike
kaart is No.
A 1884/1923
geheg aan
1925-155-7273

Lêer NO. S.3094
M.S. NO. E.1888/49
Deg. Sht. CL-8



5000 10000 15000
Skaal 1:50000
Kaapse Voet

Approved
13 Jan. 1925
(Sgd.) F.R. Brooke.
for Surveyor-General.

ANGLES		SIDES		COORDINATES	
O	I			X'S	Y'S
a	86 44 20	ab	1004.85	a	+ 375.46
b	108 33 00	bc	1125.58	b	+ 1341.21
c	179 58 30	cd	437.81	c	+ 1390.58
d	61 00 10	de	1221.55	d	+ 1409.59
e	144 39 10	ef	214.73	e	+ 316.46
f	144 23 10	fg	552.22	f	+ 215.17
g	193 23 20	gh	103.50	g	+ 283.78
h	160 58 20	ha	465.63	h	+ 272.51
Rect. Area 2588 Mgn. 500 Sq. Rds.					
TRANSFER DATA					
ANGLES		SIDES			
boi	179 57 30	ci	437.71		
i	61 01 10	ie	1221.41		

The annexed diagram lettered a.b.c.i.e.f.g.h. represents 2588 morgen 453 square rods of land situate in the Field-Cornetcy of Goupr Division of Beaufort West called "DWAALFONTEIN WEST" consisting of:-

1st Part abciefk middle of river lm middle of river ng middle of river opr middle of river a in extent 2571 Mgn. 453 Sq. Rds. is part of the quitrent farm Rietfontein, transferred to C.C.N.P. Brits on the 13th Dec. 1906.

2nd Part a middle of river ra, 9 Mgn. g middle of river ohg 1 Mgn. n middle of river mn 6 Mgn. l middle of river kl, 1 Mgn. together 17 Mgn. is part of the quitrent farm Tyger Poort, granted to O.J.N.P. Brits on the 18th August 1906.

Bounded N.E. by Rietfontein A and Rietfontein B.

E.d. by Dwaalfontein.

S.d. by Wit Poortje and Trakas Kuilen.

W.d. by Amos Poortje.

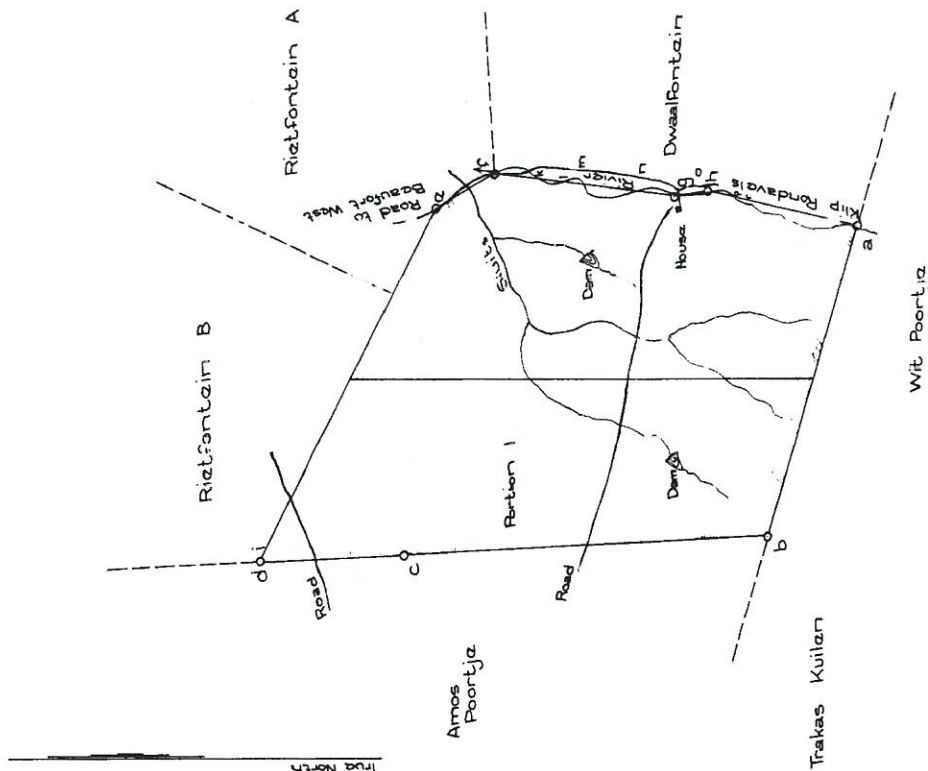
Surveyed and beaconed by me according to regulations.
(Sgd.) R.H. Greaves.
Government Land Surveyor.
July 1914

Copies from diagram relating
to Transfer Deed No. 1273
dated 30.7.1925

SHEET CL-8

FOR ENCLOSURES
SEE BACK OF DGM.

DJ.



The Farm DWAALFONTEIN WEST
No. 177
BEAUFORT WEST

Scale 400 Cape Rds. = 1 Inch.

THE FOLLOWING DATA MAY BE MADE FROM THIS DIAGRAM.					
		Elev.	Area	Deed.	
				sq. ft.	ac.
Ptn. 6	E1655/62	5930/62 (Ptn. 6)	739, 4140	8101/82	EC
Ptn. 7	"	5931/62 (Ptn. 7)	739, 4140	8100/82	EC

approved
13 Jan. 1925
(Sgd.) F.R. Brooke.
for Surveyor-General.

ANGLES °	SIDES	COORDINATES	
		x's	y's
a 86 44 20	ab 1004.85	a + 375.46	- 108.25
b 108 33 00	bc 1125.58	b + 1341.21	- 385.83
c 179 58 30	cd 437.81	c + 1390.58	- 1510.33
d 61 02 10	de 1221.55	d + 1409.59	- 1947.73
e 144 39 10	ef 214.73	e + 316.46	- 1402.51
f 144 43 10	fg 552.22	f + 215.17	- 1213.16
g 193 23 20	gh 103.50	g + 283.78	- 665.23
h 160 58 20	ha 465.63	h + 272.51	- 562.35
Rect. Area 2588 Mgn. 500 Sq. Rds.			
TRANSFER DATA			
ANGLES		SIDES	
boi 179 57 30	ci 437.71		
i 61 02 10	ie 1221.41		

The annexed diagram lettered a.b.c.i.e.f.g.h. represents 2588 morgen 453 square rods of land situate in the Field-Cornetcy of Gough Division of Beaufort West called "DWAALFONTEIN WEST" consisting of:-

- 1st Part abciefk middle of river lm middle of river mg middle of river cpr middle of river a in extent 2571 Mgn. 453 Sq. Rds. is part of the quitrent farm Rietfontein, transferred to O.J.M.F. Brits on the 13th Dec. 1906.
- 2nd Part a middle of river ra, 9 Mgn. g middle of river ohg 1 Mgn. n middle of river mn 6 Mgn. l middle of river kl, 1 Mgn. together 17 Mgn. is part of the quitrent farm Tyger Poort, granted to O.J.M.P. Brits on the 18th August 1906.

Bounded N.Ed. by Rietfontein A and Rietfontein B.

Ed. by Dwaalfontein.

Sd. by Wit Poortje and Trakas Kuilen.

Wd. by Amos Poortje.

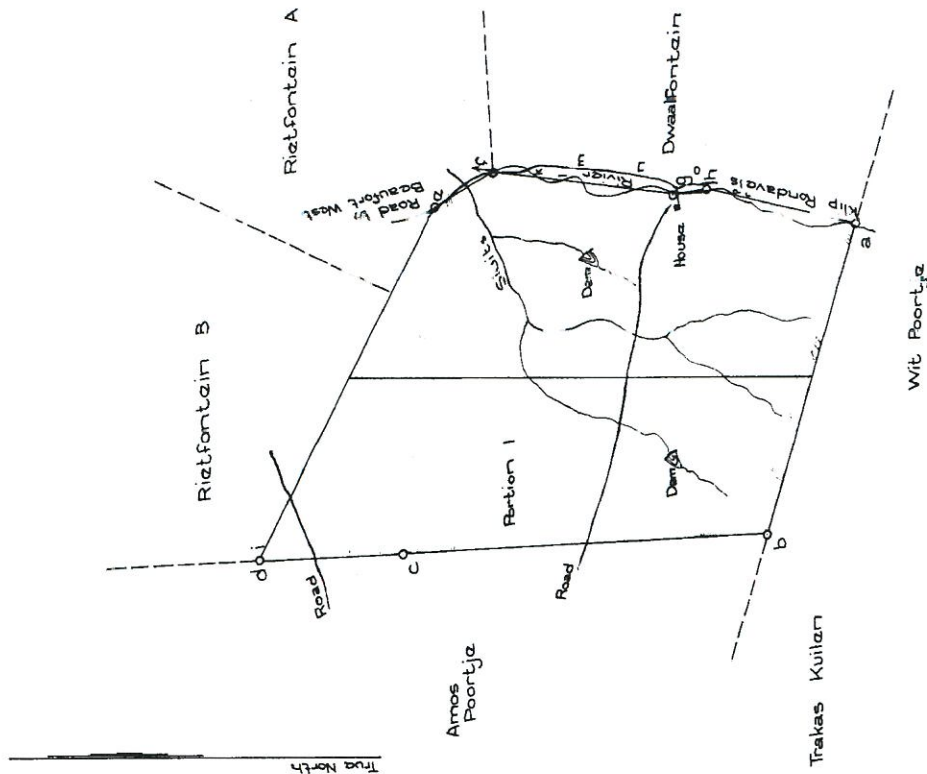
Surveyed and beacons by me according to regulations.
(Sgd.) R.H. Greaves.
Government Land Surveyor.
July 1914

Copied from diagram relating
to Transfer Deed No. 7273
dated 30.7.1925

SHEET CL-8

FOR ENDORSEMENTS
SEE BACK OF DGM.

BY.



The Farm DWAALFONTEIN WEST
No. 7273
BEAUFORT WEST

Scale 400 Cape Rds. = 1 Inch.

Approved
13 Jan. 1925
(Sgd. F.R. Brooke.
for Surveyor-General.

Rem.

IDE Ptn. 3 (5932/1962)

(Sgd.) S.E. Brown.
for Surveyor-General.
30.1.1969

True North

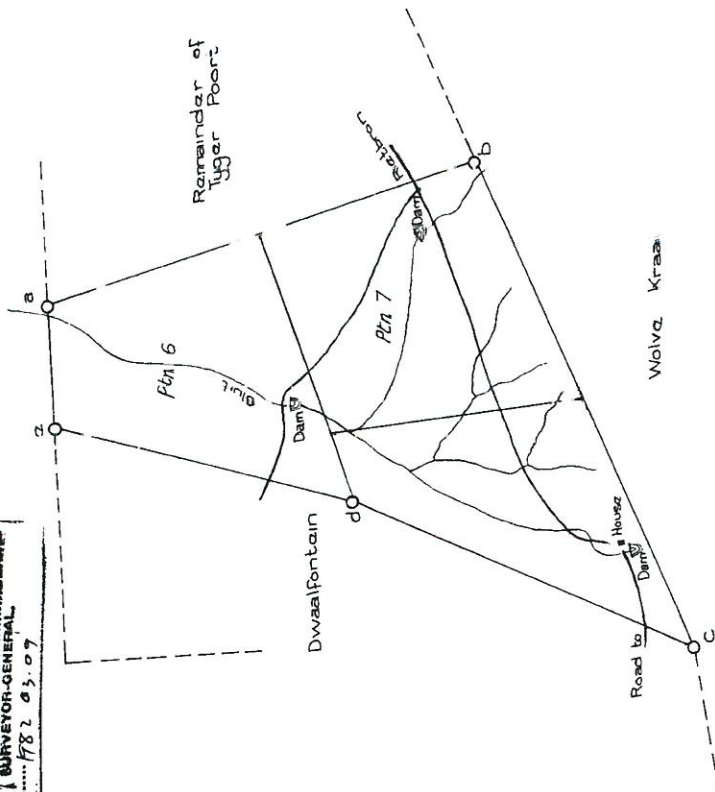
CANCELLED

Plan of
This diagram has been CANCELLED
as it is a duplicate of the
Vide Diagram. (Farm 376/3) Diag 5332/62

FILE 8

SURVEYOR-GENERAL
1782 03.07

Vaal Kuil



0 400 800 1200 1600 2000
Scale 400 Cape Rds. = 1 Inch.

ANGLES	SIDES	COORDINATES
a 125 25 30	ab 1461.84	a - 1900.09 - 1418.54
b 95 36 30	bc 1728.74	b - 1729.19 + 33.25
c 42 15 10	cd 1205.09	c - 0.78 - 0.11
d 189 41 20	de 996.86	d - 908.24 - 793.03
e 137 01 30	ea 391.11	e - 1537.82 - 1565.94

Portion... 3 ... (Tyger Poort)
(a portion of Portion...) of the farm
TYGER POORT ... No. 376

BEAUFORT-WEST

The annexed diagram lettered a.b.c.d.e. represents 2588 morgen
512 square rods of land situate in the Field-Corsetoy of Gough No.
1 & 2 Division of Beaufort West, called

"TYGER POORT A"

being part of the quitrent farm Tyger Poort granted to O.J.M.P. Brits
on the 18th Aug. 1906.

Bounded NEd. Vaal Kuil.
Ed. Remainder of Tyger Poort.
Sd. Wolva Kraal.
NWd. Dwaalfontein.

Surveyed and beaconed by me according to regulations.
(Sgd.) R.H. Greaves.
Government Land Surveyor.
July 1914.

SHEET CL-8

Copies from diagram relating
to Transfer 7277
date 30.7.1925
Lead No. ...
for Surveyor-General
12.2.1925

FOR ENCLOSURES
SEE BACK OF DGM.

THE FOLLOWING ARE THE DATA MADE FROM THE DIAGRAM.				
	Survey Records.	Deed.	Area. Morgen	Deed.
Ptn. 1	E1888/49	6652/1949	(Portion 1)	1294.4160
				10965/50

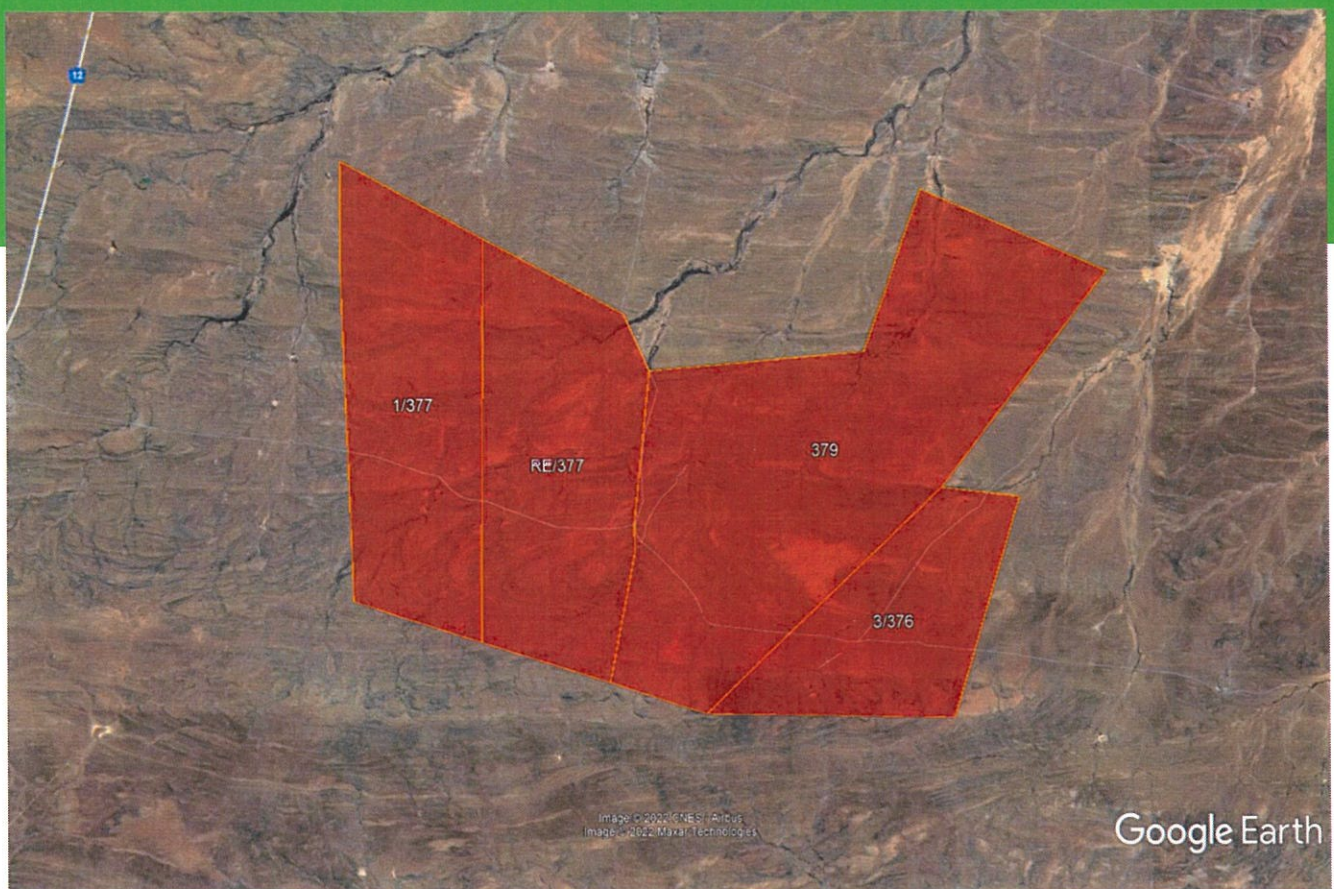
ANNEXURE F:

MOTIVATIONAL MEMORANDUM

KWAGGA WIND ENERGY FACILITY 1 (PTY) LTD
REGISTRATION NUMBER (2020/258426/07)

MOTIVATIONAL MEMORANDUM

**CONSENT USE APPLICATION ON PORTION 1 OF
THE FARM DWAALFONTEIN WES 377, THE FARM
DWAALFONTEIN 379, REMAINING EXTENT OF THE
FARM DWAALFONTEIN WEST 377, REMAINING
EXTENT OF PORTION 3 OF THE FARM TYGER
POORT 376 REGISTRATION DIVISION BEAUFORT
WEST, WESTERN CAPE PROVINCE**



TOWNSCAPE PLANNING SOLUTIONS

wilhelm@tpsplanners.co.za

adminmp@tpsplanners.co.za

☎ 082 662 1105
📍 5 Dahlia Street,
Potchefstroom, 2520


Townscape
Planning Solutions

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1 INTRODUCTION

Townscape Planning Solutions was appointed to apply for the consent use application on Portion 1 of the Farm Dwaalfontein Wes 377, The Farm Dwaalfontein 379, Remaining Extent of the farm Dwaalfontein West 377, Remaining Extent of Portion 3 of the Farm Tyger Poort 376 Registration Division Beaufort West, Western Cape Province (hereafter referred to as the application properties). The client – Kwagga Wind Energy Facility 1 (Kwagga WEF 1) (Pty) Ltd (Registration number: 2020/258426/07)– with DFFE Reference: 14/12/16/3/3/2/2070 wishes to utilise the properties for the purpose of Renewable Energy Structure to accommodate Wind Energy Facility and associated infrastructure. The following report will serve as motivation for the proposed consent use application and development.

2 APPLICATION

Application is made to obtain consent use to legally develop the said properties for Renewable Energy Structure to accommodate a Wind Energy Facility and associated infrastructure in terms of Section 15(2) read with Section 19, contained in Chapter III, read with Chapter IV of the Beaufort West Municipality: By-Law on Municipal Land Use Planning, 2019 in respect of the following properties:

Portion 1 of the Farm Dwaalfontein Wes 377, The Farm Dwaalfontein 379, Remaining Extent of the farm Dwaalfontein West 377, Remaining Extent of Portion 3 of the Farm Tyger Poort 376, Registration Division Beaufort West, Western Cape Province

Consent to register a long-term lease or servitude(s) or exception thereof over the mentioned farms in favor of Kwagga Wind Energy Facility 1 (Kwagga WEF 1) (Pty) Ltd in terms of Section 15(2) read with Section 24 of the Beaufort West Municipality: By-Law on Municipal Land Use Planning: To regulate and control municipal land use planning.

3 GENERAL INFORMATION

3.1 APPLICATION PROPERTIES LOCALITY

The application properties are in the Central Karoo District of the Western Cape Province, within the jurisdiction area of the Beaufort West Local Municipality. The development is ± 250 Ha in extent, situated approximately 57 km south of Beaufort West in the Western Cape. The properties are located directly west of the N12, as illustrated in the following figure.

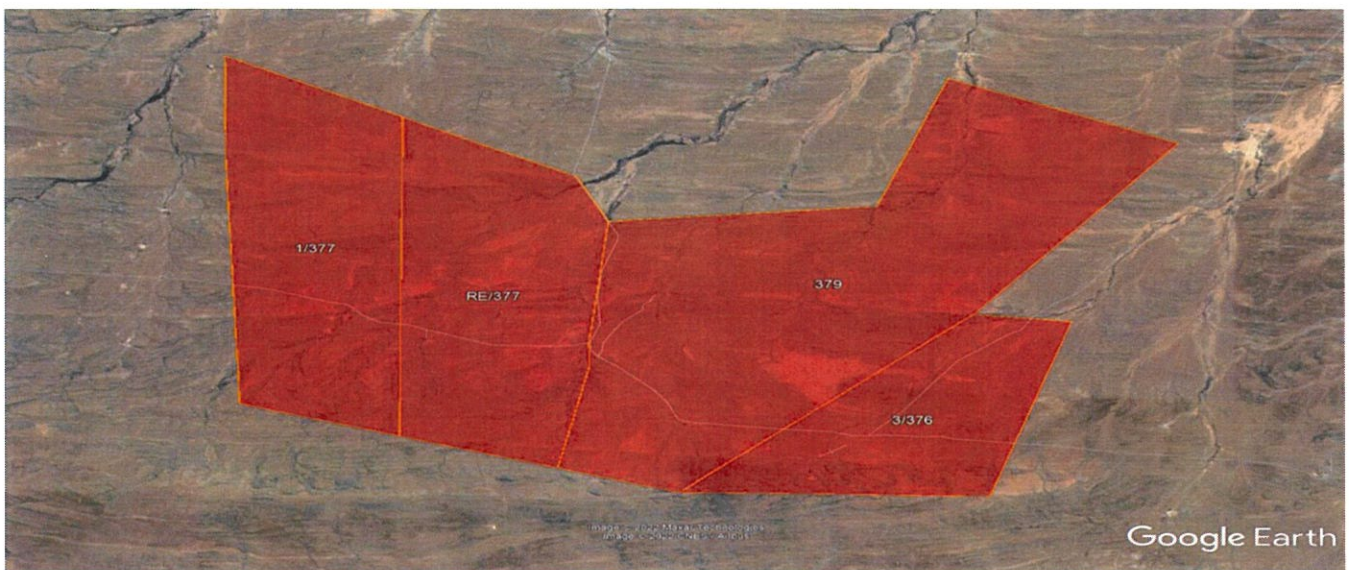


Figure 1: Local locality of the application properties

P22813 Kwagga Wind Energy Facility 1

CONSENT USE APPLICATION ON PORTION 3 OF THE FARM TYGER POORT NO. 376, REMAINDER & PORTION 1 OF THE FARM DWAAALFONTEIN WES NO. 377 AND REMAINDER OF THE FARM DWAAALFONTEIN NO. 379 REGISTRATION DIVISION BEAUFORT WEST, WESTERN CAPE PROVINCE

The application sites are located south of the town Beaufort West but North-east of the town of Prince Albert as shown below.

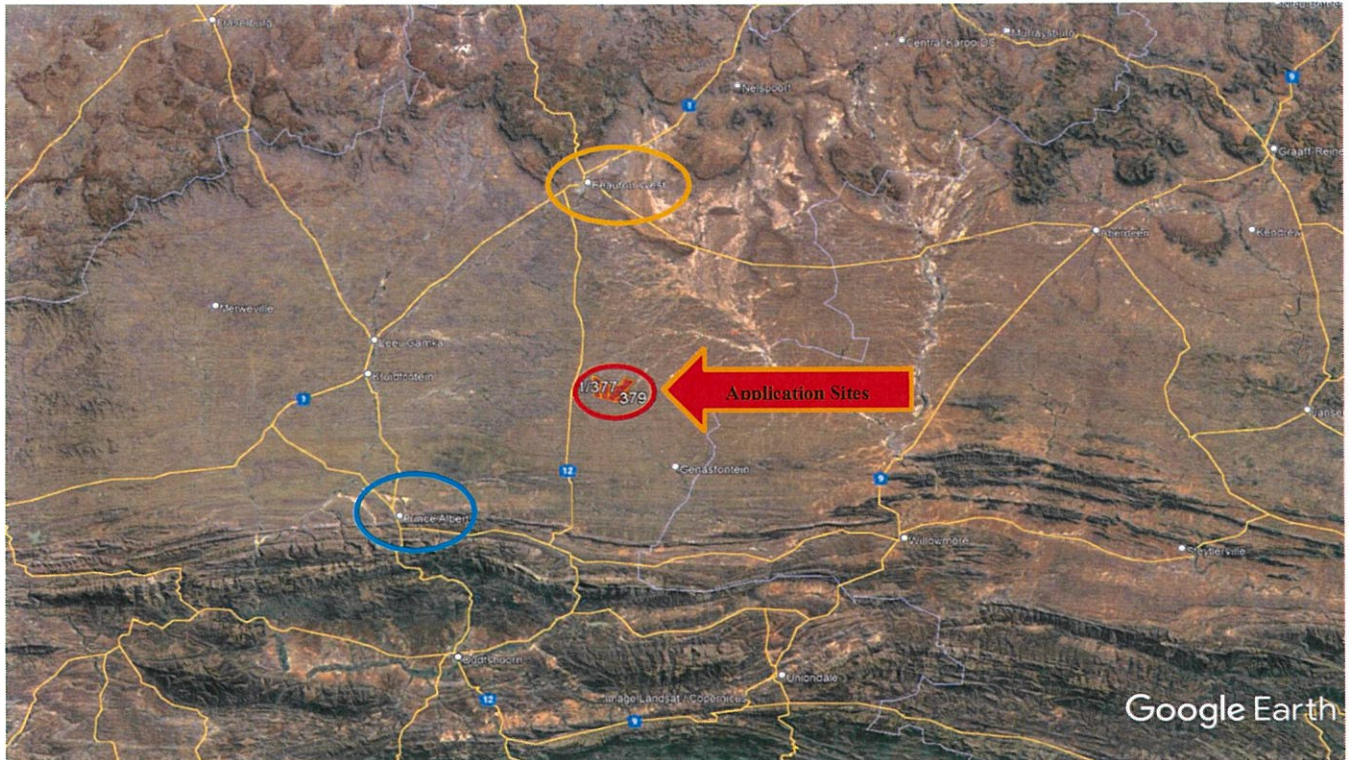


Figure 2: Regional locality of the application properties

Please refer to the locality maps attached in Annexure D for further reference.

3.2 BACKGROUND ON THE APPLICATION PROPERTIES & PREFERRED LAYOUT AND DETAILS

As could be seen on the following figure, the application properties are currently vacant with minimum agricultural activities occurring on the properties.

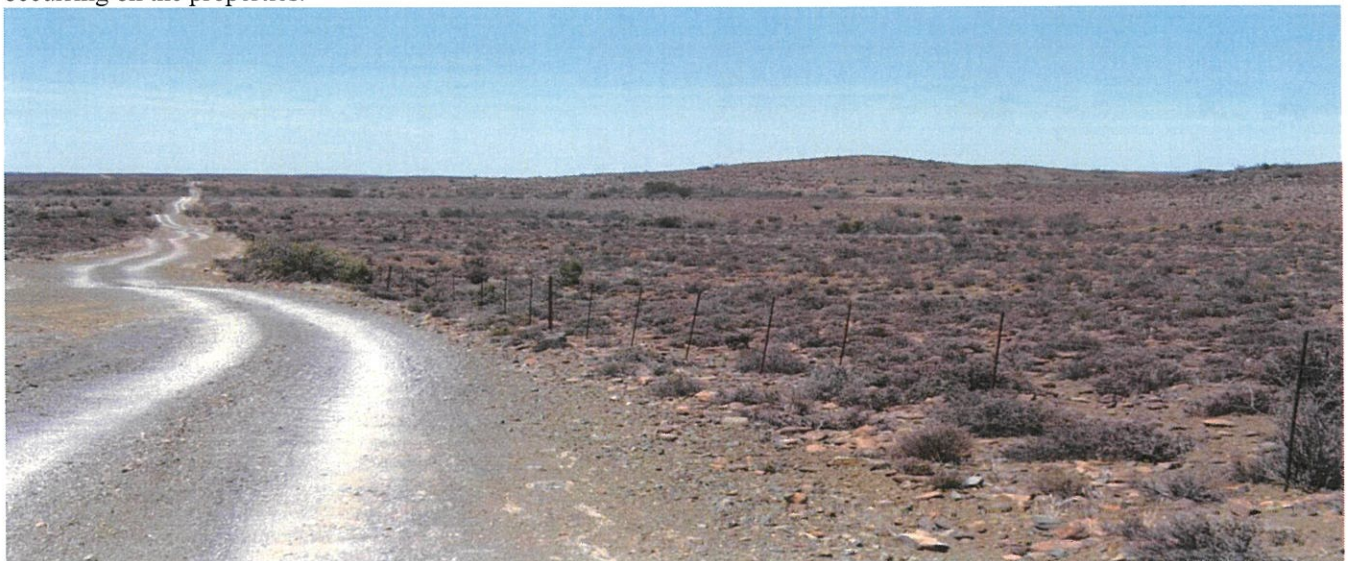


Figure 3: The application properties are currently vacant.

Source: Final Environmental Impact Assessment Report Kwagga Wind Energy Facility 1

P22813 Kwagga Wind Energy Facility 1

CONSENT USE APPLICATION ON PORTION 3 OF THE FARM TYGER POORT NO. 376, REMAINDER & PORTION 1 OF THE FARM DWAALFONTEIN WES NO. 377 AND REMAINDER OF THE FARM DWAALFONTEIN NO. 379 REGISTRATION DIVISION BEAUFORT WEST, WESTERN CAPE PROVINCE

The Kwagga Wind Energy Facilities (“Kwagga WEF 1, Kwagga WEF 2, and Kwagga WEF 3”), are developed by, ABO Wind renewable energies (Pty) Ltd (hereafter “ABO Wind”). The three development is indicated in the figure below. Kwagga WEF 1 is located in the Beaufort West Local Municipality. The blue figure indicates the Kwagga WEF 1.

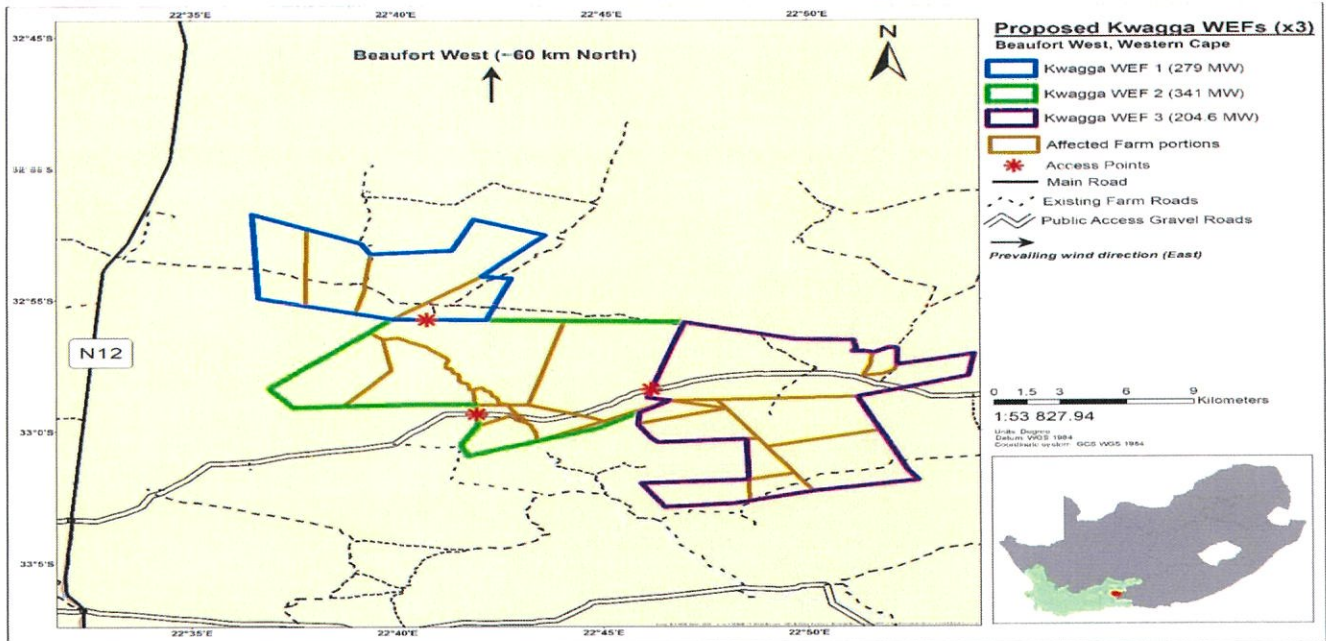


Figure 4: Kwagga Wind Energy Facilities Location

Source: Final Environmental Impact Assessment Report Kwagga Wind Energy Facility 1

The following figure represent the proposed wind turbine layout on the application sites

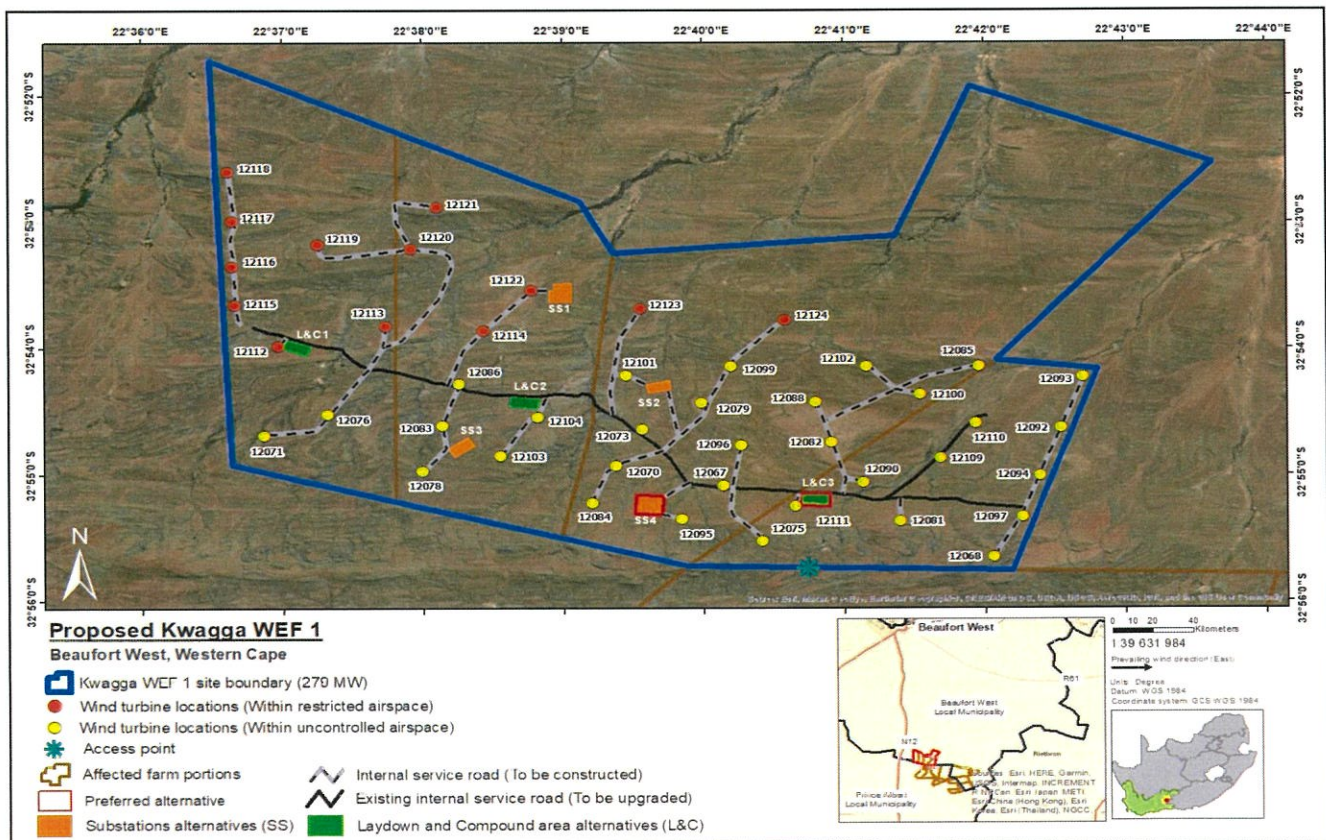


Figure 5: Location of the proposed wind turbines on the application sites

Source: Final Environmental Impact Assessment Report Kwagga Wind Energy Facility 1

P22813 Kwagga Wind Energy Facility 1

CONSENT USE APPLICATION ON PORTION 3 OF THE FARM TYGER POORT NO. 376, REMAINDER & PORTION 1 OF THE FARM DWAALFONTEIN WES NO. 377 AND REMAINDER OF THE FARM DWAALFONTEIN NO. 379 REGISTRATION DIVISION BEAUFORT WEST, WESTERN CAPE PROVINCE

The main purpose of this application is to generate electricity from wind turbines/wind energy. The proposed facility will generate electricity for a minimum period of 20 years. This electricity will be supplemented/fed into the national electricity grid. The proposed Kwagga WEF 1 will consist of a maximum of 45 individual turbines, which are positioned at strategic locations on site see figure 5 above. The maximum combined generation capacity of the wind turbines are 279MW for Kwagga WEF 1. The hub height and rotor diameter of each turbine will be up to 180 m and up to 200 m, and the blade length is up to 100m.respectively. Even though wind turbines are relatively tall they do not require extensive land space. The concrete foundation of each turbine and crane platform (which will be established next to each turbine) will have a combined footprint of approximately one (1) ha. It will therefore comprise a total area of approximately 45 ha for the 45 turbines at the proposed Kwagga WEF 1. The properties to be affected by the development of the proposed WEF will be leased from the property owners by the Project Applicant for the life span of the WEF project. As the proposed Kwagga WEF 1 requires approximately 250 ha, which is about 4.8% of the total assessed study area that is approximately 5 136 ha in extent, there is ample spatial scope to avoid major environmental constraints through optimisation of the final design.

A new access road (red line) will be constructed that links the Kwagga WEF 1 to the R308 Rietbron bound road on the south over the following properties; Remainder, Portion 7, Portion 8, Portion 10, Portion 11 and Portion 12 of the Farm Wolve Kraal No. 17 indicate in figure 6 below by the blue circle.

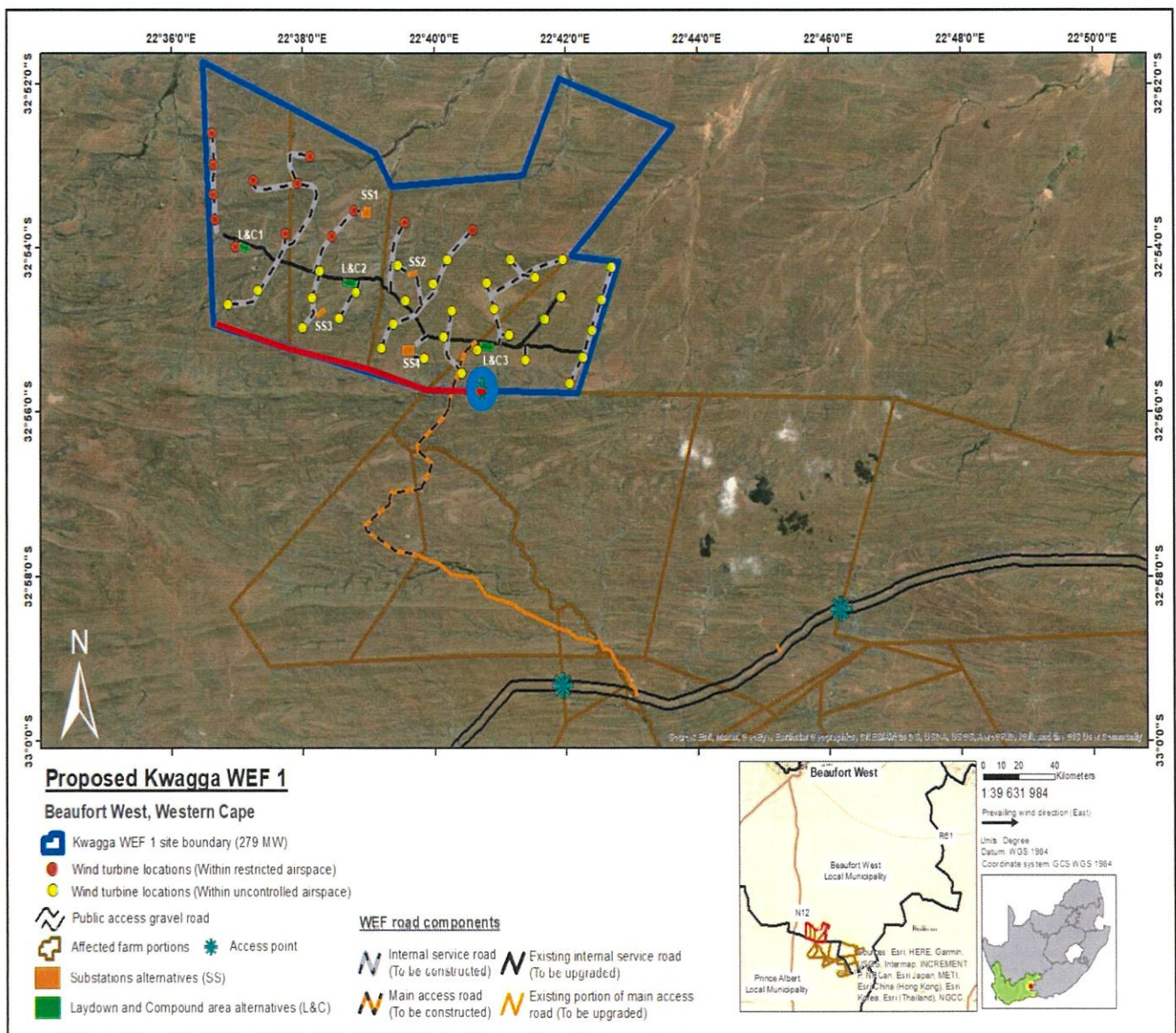


Figure 6: New access road

The Kwagga WEF 1 will typically consist of some of the illustrated components shown in Figure 7 below.

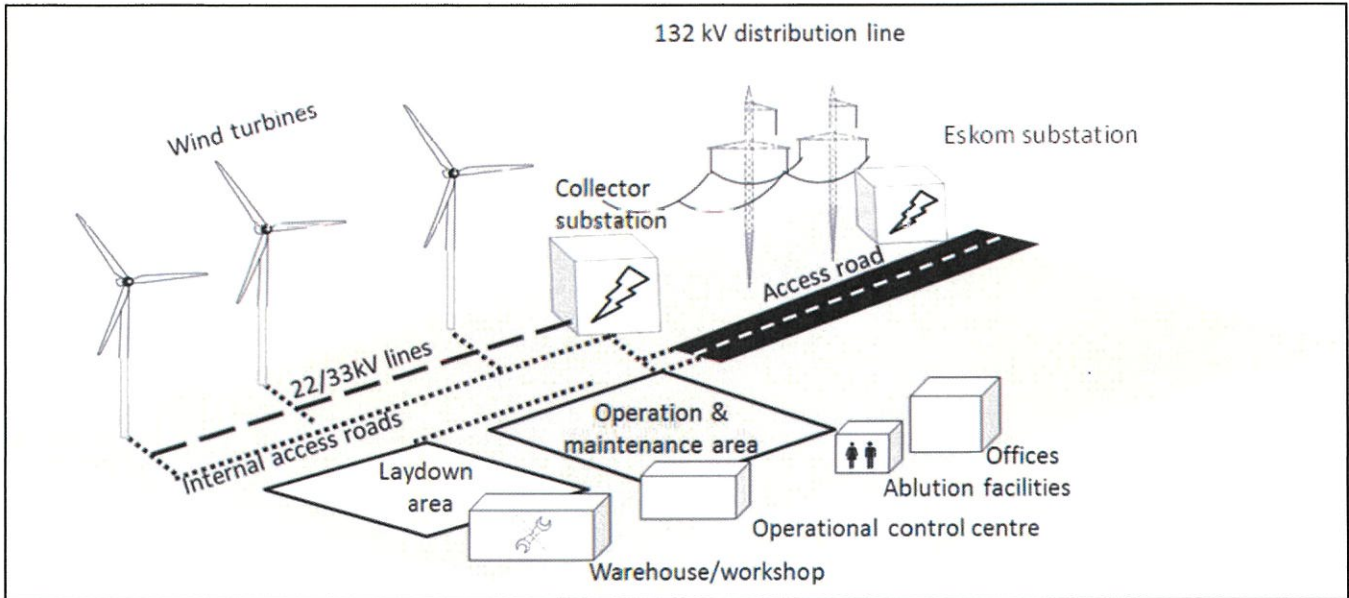


Figure 7: A typical Layout and components of a Wind Energy Facility

Source: Tennessee Valley Authority, Wikimedia

Wind turbines generate electricity by converting movement or kinetic energy produced by the wind into electricity. Different turbine technologies achieve this through slightly different means. A typical horizontal-axis wind turbine consists of a number of components, which work together to generate electricity. When the rotor spins the shaft, the shaft spins the assembly of magnets, which generate voltage in the coil of wire. This voltage provides alternating electrical current, which could then be distributed through powerlines. The wind turbine tower supports the rotor and nacelle and provides the height for the rotor blades to clear the ground safely, and to capitalise on atmospheric wind resources, which occur approximately 80 - 200 m above the earth's surface. It is anticipated that the individual wind turbines planned for the proposed Kwagga WEF 1 will have the following approximate specifications:

- Number of turbines: 45
- Hub height: Up to 180 m
- Rotor diameter: Up to 200 m
- Blade length: Up to 100 m
- Turbine capacity: up to 10 MW
- Reinforced concrete foundation and crane platform: Approximately 1 ha per turbine

The energy output of a wind turbine ultimately depends on the size of the generator, velocity of the wind, the height of the hub, and the length of the rotor blades. Wind turbines operate at a range of wind speeds and have a start-up speed, which is the speed at which the blades and rotor start to rotate, and a cut-in speed, which reflects the minimum wind speed at which usable power is generated. This is typically about 3 - 4 m/s with full power output occurring at higher wind speeds of approximately 10 to 12 m/s. Wind turbines are also equipped with a cut-out speed or pitch control system as a safety feature to prevent mechanical damage at high or turbulent wind speeds. The cut-out speed is the highest wind speed after which a wind turbine will stop producing power, and a braking system will be activated. This is typically between 25 and 28 m/s depending on the manufacturer and type of turbine selected for implementation. The pitch control system will turn the rotor out of the mean wind direction and change the orientation of the blades so the rotor will capture lower wind speeds and the output power of generator stays within the allowed range. Once the wind drops below the cut-out speed back to a safe level, the turbine can resume normal operation.

Source: Final Environmental Impact Assessment Report Kwagga Wind Energy Facility 1

3.3 GENERAL BACKGROUND

The need for renewable energy is becoming increasingly apparent, in both local and international context, with South Africa becoming an integral part of the global transition towards renewable sources of electricity generation. The urgency behind this evolution can be appreciated considering that South Africa is one of the largest emitters of greenhouse gases in Africa, and is also estimated to rank amongst the top 20 largest emitters of greenhouse gases in the world. These emissions are largely a result of an energy-intensive economy and high dependence on coal-based electricity generation. The South African government is therefore committed to supplementing the existing generation capacity of thermal and nuclear power plants with renewable energy power generation, thus creating the framework that will lead to an increase in the supply of clean energy for the nation. The development of renewable energy is important for South Africa to reduce its overall environmental footprint from power generation (including externality costs), and thereby to steer the country on a pathway towards sustainability.

The Integrated Resource Plan (IRP) for South Africa for the period 2010 to 2030 (referred to as “IRP2010”) was released by government in 2010, and a draft of an updated report was published in 2013, which proposes to secure 17 800 MW of renewable energy capacity by 2030 (including wind, solar and other energy sources). In August 2011, the Department of Energy (DoE) (currently operating as the Department of Mineral Resources and Energy (DMRE)) launched the Renewable Energy Independent Power Producer Programme (REIPPPP) and invited potential Independent Power Producers (IPPs) to submit proposals for the financing, construction, operation and maintenance of the first 3 725 MW of onshore wind, solar thermal, PV, biomass, biogas, landfill gas or small hydropower projects. On 18 August 2015, an additional procurement target of 6 300 MW to be generated from renewable energy sources was added to the REIPPPP for the years 2021 - 2025, as published in Government Gazette 39111. Of this, the additional target allocated for wind energy is 3 040 MW.

The most recent update to the IRP, the Integrated Resource Plan 2019 (IRP 2019), was gazetted by the Minister of Mineral Resources and Energy, Gwede Mantashe, in October 2019, updating the energy forecast for South Africa from the current period to the year 2030. Provision has been made for new additional capacity by 2030 including in particular 14 400 MW of wind (which is based on a consistent annual allocation of 1 600 MW commencing in the year 2022 up to 2030), 6 000 MW of solar PV, and 2 088 MW for storage. The IRP 2019 also notes that for wind energy, 1 980 MW is installed capacity, and 1 362 MW is committed/already contracted capacity. In terms of the REIPPPP, submitted proposals are then evaluated according to a Request for Proposal (RfP). Based on previous bidding windows of the REIPPPP, the two main evaluation criteria for compliant proposals are price and economic development with a point allocation of 70/30 (DoE, 2013), with other selection criteria including technical feasibility and grid connectivity, environmental acceptability, black economic empowerment, community development, and local economic and manufacturing propositions. The bidders whose responses rank the highest (according to the aforementioned criteria) generally have the greatest potential to be appointed as “Preferred Bidders” by the DMRE. It is intended that this project will be bid into a future bidding program such as the REIPPPP or another suitable tender process. According to the State of the Nation Address delivered by President Cyril Ramaphosa on 11 February 2021, Bid Window 5 called for 2 600 MW from wind and solar energy², and the preferred bidders for Bid Window 5 were announced on 28 October 2021. The next round to be announced in terms of the REIPPPP is Bid Window 6. Additionally, the project would contribute towards meeting the national energy target as set by the DMRE and assist the government in achieving its proposed renewable energy targets.

Should the proposed Kwagga WEF 1 identified by ABO Wind be acceptable and authorised, it is considered viable that long-term benefits for the community and society in the Beaufort West area would be realised. The proposed project will provide an opportunity for additional employment in an area where job creation is identified as a key priority. Approximately 400 employment opportunities will be created during the construction phase and 30 during the operational period of the proposed Kwagga WEF 1. The proposed Kwagga WEF 1 will make use of local labour as much as possible, and a minimum of 50% of the jobs (during the construction and operational phases) will be filled by the local communities.

The proposed project would also have international significance as it contributes to South Africa being able to meet some of its international obligations by aligning domestic policy with internationally agreed strategies and standards as set by the United Nations Framework Convention on Climate Change (UNFCCC), the Paris Agreement on Climate Change, Kyoto Protocol, and United Nations Convention on Biological Diversity (UNCBD), all of which South Africa is a signatory to. Renewable energy is critical to South Africa as this source of energy is recognised as a major contributor to climate protection, has a much lower environmental impact significance, as well as advancing economic and social development. In order to submit a bid in terms of the REIPPPP, the Project Applicant is required to have obtained an EA in terms of the 2014 NEMA EIA Regulations (as amended), as well as several additional authorisations or consents.

Source: Final Environmental Impact Assessment Report Kwagga Wind Energy Facility 1

3.4 PROPERTY DETAILS AND BOND INFORMATION

The following table depicts the exact property description as well as the bond information of the relevant properties.

Table 1: Property Description

Property Description	Title Deed Number	Registered Owner	Total Property Size	Bond Information
The Farm Dwaalfontein 379, Registration Division Beaufort West, Western Cape Province	T16790/2011	LOTINI TRUST REGISTRATION NUMBER: IT209/2010	2217,3658ha	
Remaining Extent of the farm Dwaalfontein West 377, Registration Division Beaufort West, Western Cape Province	T69090/2005	P S P TIMBER IND PTY LTD Registration Number (200002783607)	1108,6427ha	B5379/2022 with FIRSTSTRAND BANK LTD
Portion 1 of the farm Dwaalfontein West 377, Registration Division Beaufort West, Western Cape Province	T22649/1995	NIGRINI JOHANNES BERNARDUS ID Number: 5608075037080	1108,7097ha	
Remaining Extent of Portion 3 of the Farm Tyger Poort 376 Registration Division Beaufort West, Western Cape Province			739.4140ha	

Please find attached a copy of the Title Deed and signed Power of Attorney in **Annexure C** and **Annexure B**.

3.5 BONDHOLDERS CONSENT

Bondholders consent is attached for your attention in Annexure O.

3.6 RESTRICTIVE TITLE DEED CONDITIONS

A Conveyancer's Certificate has been prepared for the said properties and is available in Annexure L.

3.7 SG DIAGRAMS

Taking into consideration the said sg diagrams there are no servitudes that prevent the development from proceeding. Please refer to the SG Diagrams attached in Annexure E for further reference.

3.8 EXISTING ZONING

The properties are all currently zoned Agricultural Zone I (AZI).

3.9 EXISTING LAND USE

The application properties are currently being used for agricultural (grazing) livestock farming purposes.

3.10 PROPOSED LAND USE RIGHTS

The following land use rights are proposed for the development:

Table 2: Proposed Land Use Rights

ZONING	Agricultural Zone I (AZI)
PROPOSED LAND USE WITH CONSENT USE	<p>“Renewable Energy Structure”</p> <p>a) means any wind turbine, solar energy generating apparatus, including solar photovoltaic and concentrated solar thermal, hydro turbines or bio mass facility or any grouping thereof, that captures and converts wind, solar radiation or bio mass into energy for commercial gain; and</p> <p>b) includes any appurtenant structure necessary for, or directly associated with, generation of renewable energy, or any test facility or structure that may lead to the generation of energy on a commercial basis, excluding electrical grid connections.</p>
AREA OF DEVELOPMENT	Approximately 250 ha, which is about 4.8% of the total assessed study area that is approximately 5 136 ha in extent

3.11 PROJECT COMPONENTS AND ASSOCIATED INFRASTRUCTURE

The following table depicts the project components and associated infrastructure to be developed on the application sites.

Table 3: Project Components and Associated Infrastructure

Infrastructure	Description
Number of turbines	45
Turbine Capacity	Up to 10 MW
Hub Height	Up to 180 m
Rotor Diameter	Up to 200 m
Blade length	Up to 100 m
WEF Project Size / Generation Capacity	Approximately 279 MW
On-site substation hub:	The proposed project will include one on-site substation hub incorporating the facility substation, switchyard, collector infrastructure, BESS and associated O&M buildings. Four possible locations or placement alternatives for the onsite substation hub have been identified and were assessed during the EIA Phase.
Area of on-site substation hub alternatives	
Alternative 1	8.56 ha
Alternative 2	4.65 ha
Alternative 3	7.59 ha
Alternative 4	5.21 ha (<i>preferred</i>)
Height of substation hub	Maximum 10 m
Capacity of on-site substation	33/132 kV
Area occupied by construction compound and lay down area:	Six (6) ha (300 m x 200 m) Three possible locations or placement alternatives for the construction compound and laydown area have been identified and were assessed during the EIA Phase. Construction Compound and Laydown Area No. 3 has been selected as the preferred alternative.
Internal service roads	There are a number of existing gravel farm roads (some just jeep tracks) with widths ranging between 4 m and 6 m located around and within the proposed Kwagga WEF 1 project site boundary. The width of the existing internal service roads will be extended to a maximum width of 10 m, where necessary. The length of the internal service road network for the proposed Kwagga WEF

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	1 is approximately 45 km. The existing internal service road network in addition to all additional internal service roads that are to be constructed on the project site have been confirmed by the Project Developer following the outcome of the Scoping Phase, and were subjected to detailed specialist assessment during the EIA Phase.
Concrete batching plant	50 m x 50 m (on-site batching) (0.25 ha)
Operational and Maintenance (O&M) Building	1 ha
General temporary Hardstand Area (boom erection, storage, and assembly area)	1 ha
Battery Energy Storage System (BESS)	<p>The BESS will cover an area of approximately five (5) ha, have a maximum height of 8 m (as recommended) and have a storage capacity of up to 500 MW/500 MWh. The BESS technologies that are considered include:</p> <ul style="list-style-type: none"> • Lead Acid and Advanced Lead Acid • Lithium ion, NiCd, NiMH-based Batteries (<i>preferred</i>) • High Temperature (NaS, Na-NiCl₂, Mg/PB-Sb) • Flow Batteries (VRFB, Zn-Fe, Zn-Br)
Site Access	<p>The proposed Kwagga WEF 1 project site can be accessed via the N12 main road, which is situated to the west of the site, via the R308 Rietbron bound public access gravel road that is located to the south of the site. The N12 is a surfaced national road that connects Beaufort West and the N1 main road in the north with Klaarstroom, De Rust, Oudtshoorn and other Garden Route towns to the south. The R308 Rietbron bound public access road is a well-maintained gravel road with widths ranging between 6 m and 8 m and will be widened to a maximum width of 10 m, where necessary. A new access road, which will serve as the main access point to the Kwagga WEF 1 with a maximum width of 10 m will be constructed to facilitate the connection between the Kwagga WEF 1 project site, across the Kwagga WEF 2 site, and the existing R308 Rietbron bound public access gravel road located to the south. The affected farm portions that were assessed for purposes of this access road are: Wolve Kraal 17 / RE, 7, 8, 10, 11 and 12</p>
Proximity to grid connecti	<p>Eskom's Droërvier Substation is ideally located within the Central Strategic Transmission Corridors (as gazetted on 16 February 2018, GN R113) and approximately 55 km north of the proposed Kwagga WEF 1. It is proposed that a 132kV overhead transmission line, which will be constructed for the proposed Kwagga WEF 1 at a later stage, will extend between the proposed on-site collector substation at the Kwagga WEF 1 and the existing Droërvier-Proteus 400 kV line that runs parallel to the N12 in a north-south direction and connects Beaufort West with the George/Mossel Bay area further south.</p> <p>Note from the CSIR: A separate Environmental Assessment Process will be undertaken at a later stage once the grid connection and the 132 kV power line routing for the proposed Kwagga WEF 1 has been confirmed, and hence does not form part of this S&EIA Process.</p>
Fencing	<p>For various reasons such as security, public protection and lawful requirements, the proposed built infrastructure on site will be secured via the installation of appropriate fencing. Existing livestock fencing on the affected farms portions may be upgraded in places where deemed insufficiently secure, whereas permanent fencing will be required around the O&M area and on-site substation hub. Access points will be managed and monitored by an appointed security service provider. The type and height of fencing to be installed will be confirmed during the detailed design phase prior to construction.</p>

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3.12 SURROUNDING LAND USES

The application sites are all surrounded by Agricultural zoned properties. The figure below also indicates the three Wind Energy Facilities in the red polygon. The Green, Purple and Blue polygons indicate other renewable energy facilities that are all located within a 50km radius of the Kwagga Wind Energy Facilities.

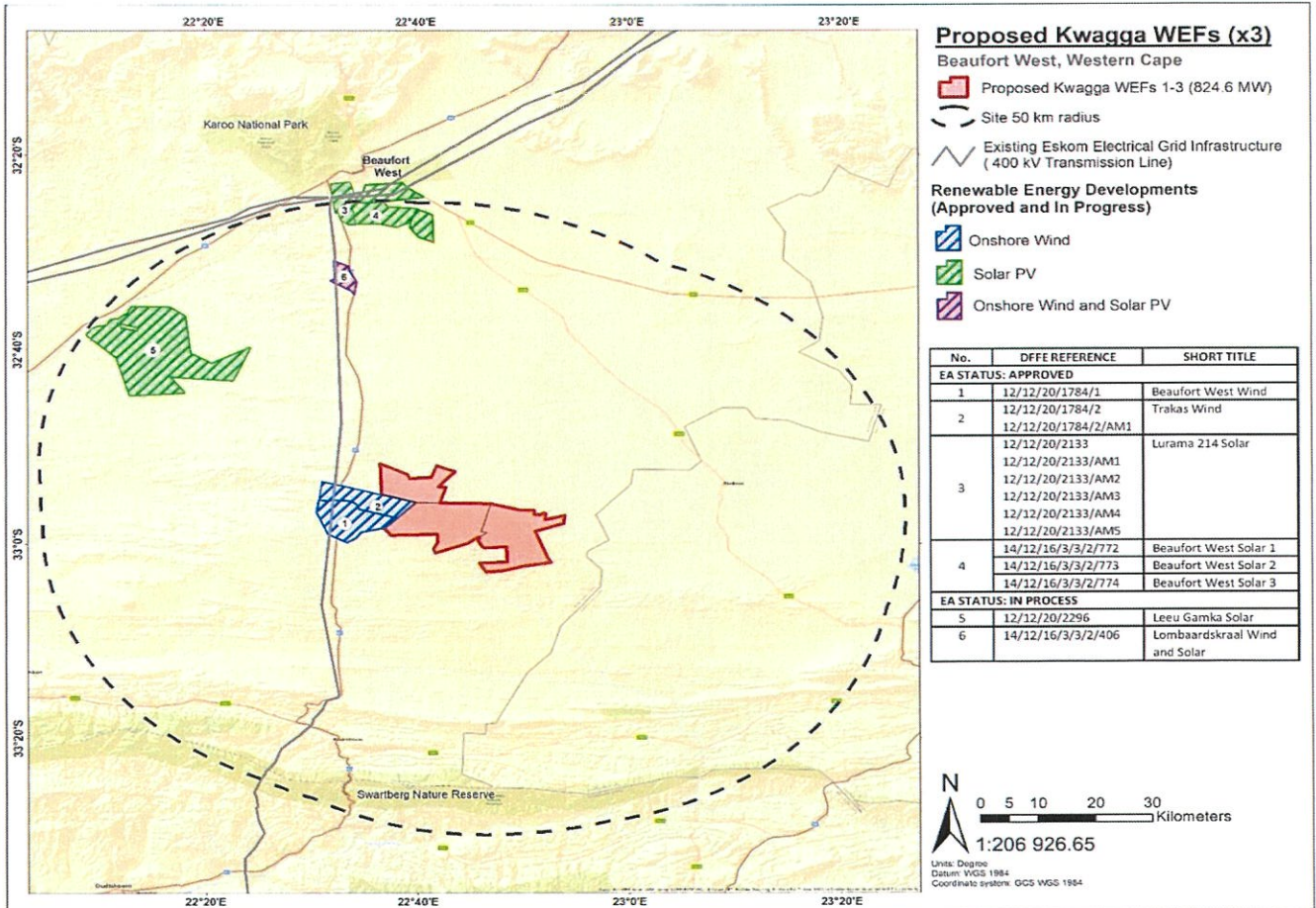
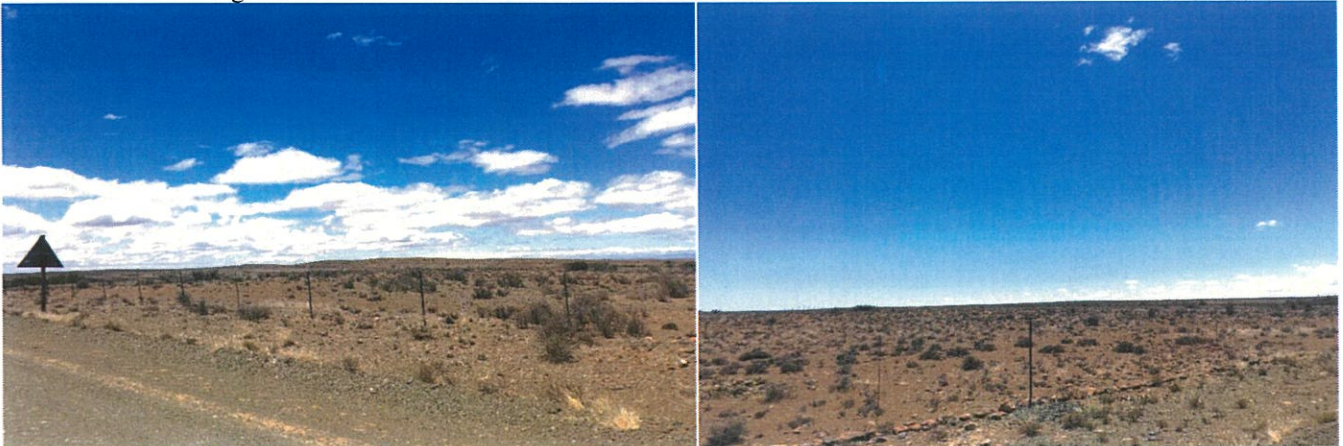


Figure 8: Aerial view of the southern Karoo showing the proposed Kwagga WEF study area (red polygons) and other renewable energy projects located within 50 km of the site (Source: DFFE, Quarter 4 – 2021).

Source: Final Environmental Impact Assessment Report Kwagga Wind Energy Facility 1

Photos of surrounding environment.



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DFFE REFERENCE	PROJECT TITLE	APPLICANT	EAP	PROVINCE	TECHNOLOGY	MW	NUMBER OF TURBINES	STATUS
12/12/20/1784/1	Proposed Development of the 140 MW Beaufort West Wind Farm in the Prince Albert Local Municipality, Western Cape Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	SIVEST Environmental Division	Western Cape	Onshore Wind	140 MW 70 turbines	70	Approved
12/12/20/1784/2 12/12/20/1784/2/AM1	Proposed Development of the 140 MW Trakas Wind Farm in the Prince Albert Local Municipality, Western Cape Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	SIVEST Environmental Division	Western Cape	Onshore Wind	140 MW 70 turbines	70	Approved
12/12/20/2133 12/12/20/2133/AM1 12/12/20/2133/AM2 12/12/20/2133/AM3 12/12/20/2133/AM4 12/12/20/2133/AM5	Proposed Construction of 19 MW Photovoltaic Solar Facility Proposed By Lurama 214 Pty Ltd On Portion 1 of the Farm Steenrotsfontein 168, Beaufort West, Western Cape	Lurama 214 Pty Ltd BioTherm Energy (Pty) Ltd BioTherm Energy (Pty) Ltd	Council for Scientific and Industrial Research	Western Cape	Solar PV	19 MW	n/a	Approved

DFFE REFERENCE	PROJECT TITLE	APPLICANT	EAP	PROVINCE	TECHNOLOGY	MW	NUMBER OF TURBINES	STATUS
14/12/16/3/3/2/772	Proposed establishment of the Beaufort West Solar Power Plant Site 1, Western Cape	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	n/a	Approved
14/12/16/3/3/2/773	Proposed Establishment of the Beaufort West Solar Power Plant Site 2, Western Cape Province	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	n/a	Approved
14/12/16/3/3/2/774	Proposed Beaufort West Solar power plant site 3 near Beaufort West	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	n/a	Approved
12/12/20/2296	Proposed Construction of the Leeu Gamka Solar Power Plant and its associated Infrastructures, near Beaufort West and Leeu Gamka, Beaufort West Local Municipality, Western Cape Province	Through Fare General Trading Pty Ltd	EnviroAfrica Environmental Consultants (Pty) Ltd	Western Cape	Solar PV	0	n/a	In process
14/12/16/3/3/2/406	Proposed wind and solar facility on Farm Lombaardskraal, Farm 330, Beaufort West, Western Cape	To review	Savannah Environmental Consultants (Pty) Ltd	Western Cape	Solar PV	20	n/a	In process

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DFFE REFERENCE	PROJECT TITLE	APPLICANT	EAP	PROVINCE	TECHNOLOGY	MW	NUMBER OF TURBINES	STATUS
Pending	Scoping and Environmental Impact Assessment for the proposed development of the 341 MW Kwagga WEF 2 near Beaufort West in the Western Cape	Kwagga Wind Energy Facility 2 (PTY) Ltd	CSIR	Western Cape	Wind	341	55	S&EIA in progress
Pending	Scoping and Environmental Impact Assessment for the proposed development of the 204.6 MW Kwagga WEF 3 near Beaufort West in the Western Cape	Kwagga Wind Energy Facility 3 (PTY) Ltd	CSIR	Western Cape	Wind	204.6	33	S&EIA in progress

DFFE REFERENCE	EA PROCESS	PROJECT TITLE	APPLICANT	EAP	PROVINCE	TECHNOLOGY	MW	STATUS
12/12/20/1784 12/12/20/1784/AM1 12/12/20/1784/AM2 12/12/20/1784/AM3 12/12/20/1784/AM4 12/12/20/1784/AM5	S&EIA (and Amendments)	Proposed development of 170 MW Wind and Photovoltaic (PV) Energy Facility near Beaufort West in the Prince Albert local Municipality, Western Cape Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	Environmental Resource Management (Pty) Ltd SIVEST Environmental Division Council for Scientific and Industrial Research (CSIR)	Western Cape	Onshore Wind	Wind-120 MW Solar PV-50 MW	Approved
12/12/20/1784/1	Environmental Authorisation (EA) Amendment Assessment	Proposed Development of the 140 MW Beaufort West Wind Farm in the Prince Albert Local Municipality, Western Cape Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	SIVEST Environmental Division	Western Cape	Onshore Wind	140 MW	Approved
12/12/20/1784/2 12/12/20/1784/2/AM1	Environmental Authorisation Amendment Assessment (and Amendments)	Proposed Development of the 140 MW Trakas Wind Farm in the Prince Albert Local Municipality, Western Cape Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	SIVEST Environmental Division	Western Cape	Onshore Wind	140 MW	Approved

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DFFE REFERENCE	EA PROCESS	PROJECT TITLE	APPLICANT	EAP	PROVINCE	TECHNOLOGY	MW	STATUS
12/12/20/2133	BA (and Amendments)	Proposed Construction of 19 MW Photovoltaic Solar Facility Proposed By Lurama 214 Pty Ltd On Portion 1 of the Farm Steenrotsfontein 168, Beaufort West, Western Cape	Lurama 214 Pty Ltd	Council for Scientific and Industrial Research	Western Cape	Solar PV	19 MW	Approved
12/12/20/2133/AM1								
12/12/20/2133/AM2								
12/12/20/2133/AM3								
12/12/20/2133/AM4			BioTherm Energy (Pty) Ltd					
12/12/20/2133/AM5			BioTherm Energy (Pty) Ltd					
14/12/16/3/3/2/772	S&EIA	Proposed establishment of the Beaufort West Solar Power Plant Site 1 , Western Cape	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	Approved
14/12/16/3/3/2/773	S&EIA	Proposed Establishment of the Beaufort West Solar Power Plant Site 2 , Western Cape Province	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	Approved
14/12/16/3/3/2/774	S&EIA	Proposed Beaufort West Solar power plant site 3 near Beaufort West	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	Approved
12/12/20/2296	BAR	Proposed Construction Of The Leeu Gamka Solar Power Plant and its associated Infrastructures, Near Beaufort West And Leeu Gamka, Beaufort West Local Municipality, Western Cape Province	Through Fare General Trading Pty Ltd	EnviroAfrica Environmental Consultants (Pty) Ltd	Western Cape	Solar PV	0	In process
14/12/16/3/3/2/406	S&EIA	Proposed wind and solar facility on Farm Lombaardskraal, Farm 330, Beaufort West, Western Cape	To review	Savannah Environmental Consultants (Pty) Ltd	Western Cape	Solar PV	20	In process
14/12/16/3/3/2/324	S&EIA	Proposed PV solar plant on three properties, Beaufort West, Western Cape	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	Withdrawn / Lapsed

Source: Final Environmental Impact Assessment Report Kwagga Wind Energy Facility 1.

3.13 RENEWABLE ENERGY DEVELOPMENT ZONES

The proposed Kwagga WEF 1, Kwagga WEF 2 and Kwagga WEF 3 are not located within any of the Renewable Energy Development Zones (REDZs) gazetted in Government Gazette 41445, GN R114 on 16 February 2018; and Gazette 44191, GN R144 on 26 February 2021. The proposed Kwagga WEFs are also not located within any of the Strategic Transmission Corridors gazetted in Government Gazette 41445, GN R113 on 16 February 2018. Therefore, a full Scoping and EIA Process in terms of Appendix 2 of the 2014 NEMA EIA Regulations (as amended) is being undertaken for each of the three proposed WEFs with a 107 decision-making timeframe, as opposed to a BA Process and 57-day decision-making timeframe allowed for in the REDZs and strategic transmission corridors. The Competent Authority for the proposed projects is the National Department of Forestry, Fisheries and the Environment (DFFE).

The sites for the three proposed Kwagga WEFs were identified and selected prior to the gazetting of the Phase 2 REDZs; nevertheless, the proposed project sites are located in close proximity to the Beaufort West REDZ. The proposed Kwagga WEF 1 project is located approximately 2.3 km away (at its closest point), the proposed Kwagga WEF 2 project is located approximately 11 km away (at its closest point), and the proposed Kwagga WEF 3 project is located approximately 14 km away (at its closest point) from the Beaufort West REDZ, respectively. In addition, the proposed Kwagga WEF 1 project site is located approximately 4.4 km away (at its closest point), the proposed Kwagga WEF 2 project site is located approximately 13 km away (at its closest point), and the proposed Kwagga WEF 3 project site is located approximately 20 km away (at its closest point) from the Central Strategic Transmission Corridor (as gazetted on 16 February 2018, GN R113).

4 POLICY AND LEGISLATION

The following sections refer to relevant policies and legislation regarding the development of Wind Energy Facilities in South Africa. It should be noted that the proposed development is in line with the guiding principles contained in these policies and legislation.

4.1 THE NATIONAL ENERGY ACT (2008)

The National Energy Act was promulgated in 2008 and provides the legal framework which supports the development of renewable energy facilities for the greater environmental and social good. The Preamble specifically addresses the need “to ensure that diverse energy resources are available, in sustainable quantities, and at affordable prices” and to “provide for (...) **increased generation and consumption of renewable energies**”.

The National Energy Act therefore recognises the significant role which electricity plays growing the economy while improving citizens’ quality of life. The Act provides the legal framework which supports the development of Renewable Energy facilities for the greater environmental and social good and provides the backdrop against which South Africa’s strategic planning regarding future electricity provision and supply takes place.

From the above it is clear that the proposed development is aligned with the Act as it aims to generate renewable energy.

4.2 NATIONAL DEVELOPMENT PLAN 2030 (2012)

The National Development Plan envisage that South Africa energy sector would promotes the following:

- Economic growth and development through adequate investment in energy infrastructure.
- The sector should provide reliable and efficient energy service at competitive rates, while supporting economic growth through job creation.
- Social equity through expanded access to energy at affordable tariffs and through targeted, sustainable subsidies for needy households.
- Environmental sustainability through efforts to reduce pollution and mitigate the effects of climate change.

The development of renewable energy facilities promotes the pillars of economic growth identifies in the NDP through the development of sustainable infrastructure projects, job creation and reducing the counties carbon footprint.

Various other plans and frameworks are adhered to through the development of renewable energy facilities, these are just a few of them:

- New Growth Path Framework
- National Infrastructure Plan
- Integrated Resource Plan for Electricity (2010 2030)
- Integrated Energy Plan, 2016

4.3 SPATIAL PLANNING AND LAND USE MANAGEMENT ACT (2013)

The Spatial Planning and Land Use Management Act (SPLUMA) were promulgated in August 2013, effectively replacing the Development Facilitation Act of 1995. Several development principles are included in the SPLUMA, to measure development against. The following development principles are relevant to this application:

Table 4: Development Principles of SPLUMA 2013

Principle of Spatial Justice	The proposed consent use application and development will maximize the use of the available land and will benefit the surrounding community through job creation, economic and social enhancement.
Principle of Spatial Sustainability	The proposed development of a Wind Energy Facility will have a direct positive impact on the availability of energy in the republic and will contribute to the national economy by means of the investment opportunity that it provides. All available measures have been put in place to ensure that the proposed development does not impact the environment negatively. Environmental Authorisation for the project has been granted by the Department of Environmental Affairs (discussed in more detail below). In addition, the development is economically sustainable and will add to job creation and economic enhancement within the immediate vicinity.
Principle of Efficiency	The proposed development is in alignment with the policies and frameworks of the district, as well as the local municipality, as discussed in the following section. The proposed development will provide infrastructure which will make use of renewable energy sources as a positive contributor to the local and national economy;
Principle of Spatial Resilience	Represent the flexibility in the spatial plan to ensure sustainable livelihoods in communities most likely to suffer from economic and environmental shocks. The proposed development is in alignment with the SDF, as will be discussed in the next section.
Principle of Good Administration	Relates to the integrated approach by all spheres of government to land use and land development which are guided by the act. This also relates to the preparation of procedures and policies for land development, in other words land use guidelines. The proposed development adheres to this principle by obtaining of input from a number of provincial departments.

The Beaufort West Municipality: By-Law on Municipal Land Use Planning, 2019 were promulgated on 22 February 2018 in the Western Cape Provincial Gazette, and this application is being launched in terms of relevant sections of this By-Law. This application is aligned with the criteria and application processes stipulated in the By-Law and adheres to the procedural requirements. This application was compiled and submitted by a registered Professional Planner in terms of the Planning Profession Act, 2002. It is the opinion of the applicant that the proposed development is well suited to the application properties and well aligned with the applicable policies and plans of the Local Authority and will contribute positively to the economic development of the area. It is clear from the table above that the proposed development is aligned with the guiding principles of SPLUMA, 2013.

4.4 CENTRAL KAROO SPATIAL DEVELOPMENT FRAMEWORK (2020)

The Central Karoo District Municipality has identified energy and energy generation as an opportunity to stimulate economic growth in the area. Shale gas exploration and the development of renewable energy facilities are the 2 energy main focus points indicated in the SWOT analysis on page 31 & 55.

On page 53 the Central Karoo District SDF only notes that there are several onshore wind and solar energy projects planned for the area. Most of the energy project will connect to the national grid and especially through the existing ESKOM Droerivier MTS.

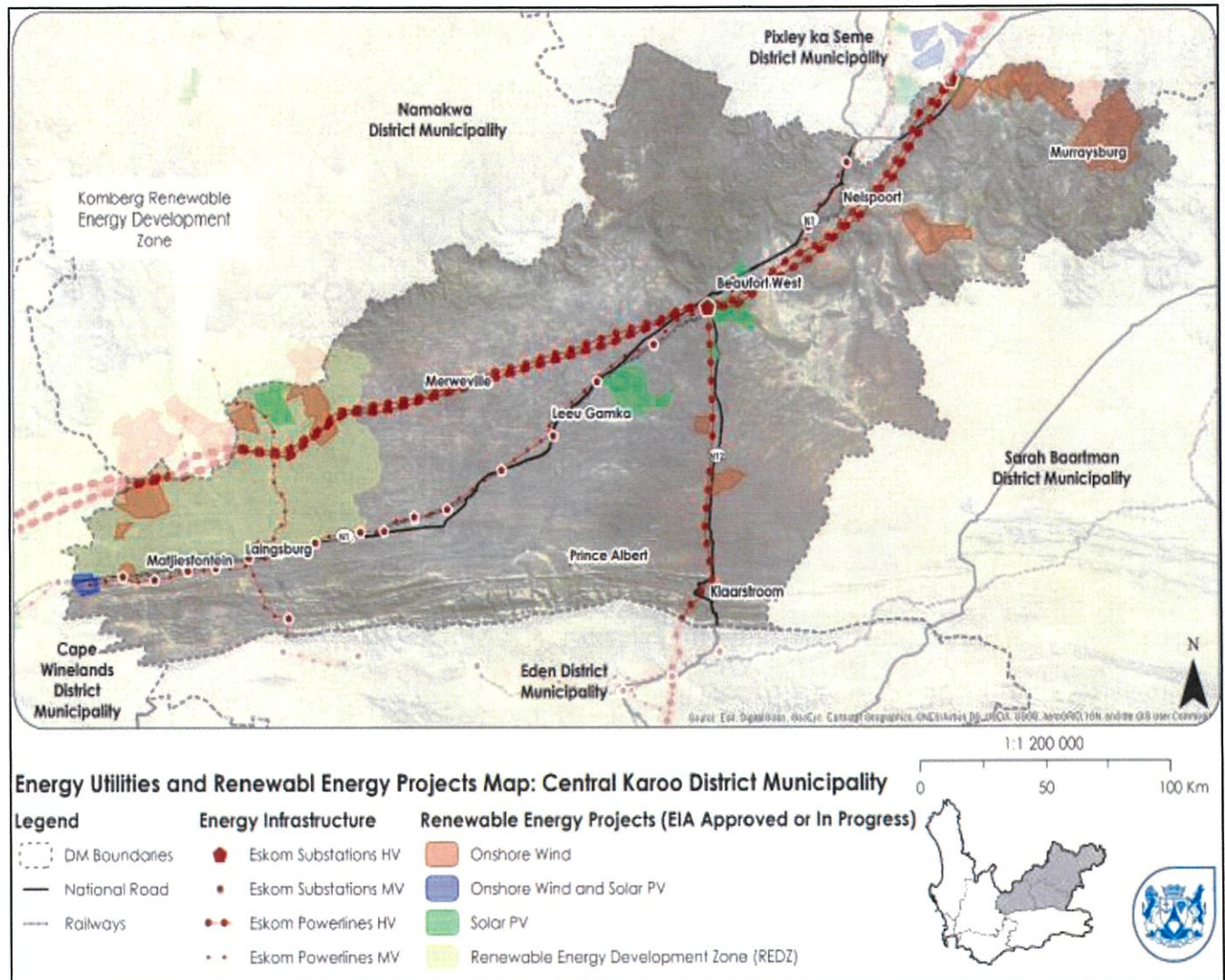


Figure 9: Energy Utilities and Renewable Project Map: Central Karoo District Municipality. (Source: Central Karoo Spatial Development Framework .p53)

The Central Karoo District SDF identified eight municipal-wide spatial strategies of which the following has four specific relevance to the proposed consent application:

Table 5: Central Karoo District Municipal- wide spatial strategies.

Central Karoo District Municipal- wide spatial strategies	Relevance to Proposed consent use application and development of Renewable energy facilities.
Policy A1: Protect critical biodiversity areas, environmental support areas & natural environment towards a resilient Karoo	Ensuring that the proposed development align with all relevant environmental and planning legislation.
Policy A3: Tourism enhancement & protection of scenic assets	When delivering any agri-processing, renewable energy or any infrastructure in rural areas, ensure that key view sheds, vistas and views are not undermined.
Policy A5: Support and promote the renewable energy economy	Actively seek out green energy projects to be located in the region.
Policy A8: Central Karoo climate change adaptation and mitigation policy	Promote renewable energy generation and use. Promote green-building principles in new builds and retrofitting of buildings;

(Source: Central Karoo Spatial Development Framework. p70-76)

4.5 THE DRAFT BEAUFORT WEST LOCAL MUNICIPALITY INTEGRATED DEVELOPMENT PLAN (2017-2022)

The vision of the Beaufort West Local Municipality Integrated Development Plan (BWLM IDP) 2017-2022 is to be the economic gateway in the Central Karoo, where people are developed and live in harmony together.

Further unpacking of the vision indicates the provision of directives regarding the growth of the economy and ensuring financial sustainability among other areas in which development is required.

The five priority areas of the IDP are:

1. Service to the people – seeking to improve and maintain basic service delivery through infrastructure development;
2. Sustainable economic growth by leveraging competitive advantages of the region (The IDP identifies low economic growth as one of the main reasons for the lack of new labour entrants into the economy);
3. A well run administration that is efficient, effective and has the right skills mix;
4. Ensure financial sustainability; and
5. Be a transparent organisation

On a municipal planning level, the proposed project does not go against any of the objectives set within the Beaufort West Local Municipality's Integrated Development Plan (IDP) (2017-2022). The proposed project will be in line with and will be supportive of the IDPs' objective of creating more job opportunities. The proposed WEF will assist in local job creation during the construction and operation phases of the project (if approved by the DFFE). It should however be noted that employment during the construction phase will be temporary. The proposed WEF would help to address the need for increased electricity supply to the national grid while also providing advanced skills transfer and training to the local communities and creating contractual and permanent employment in the area. The proposed project will therefore be supportive of the IDP's objective of facilitating job creation to address the high unemployment rate.

From the above mentioned it is clearly visible that the proposed development is aligned with strategies contained in the Beaufort West Local Municipality IDP.

4.6 THE BEAUFORT WEST MUNICIPALITY SPATIAL DEVELOPMENT FRAMEWORK (2013)

The spatial vision for the municipality set out in the 2013 Spatial Development Framework is “Wilderness tourism and transport gateway to the people, mountains and plains of the Central Karoo”. The SDF notes that the implications of this vision are that the main rural economic resource outside of eco-tourism is extensive agriculture.

The growth of this resource depends on improving the carrying capacity of the land through good veld management practices. The SDF does not comment on the potential impact of renewable energy projects on the natural environment. However, it does refer to shale gas exploration and uranium mining and the need to ensure that key areas such as CBAs, conservancies and stewardship areas and visually sensitive landscapes contributing to long term heritage and tourism opportunities should be avoided. However, as indicated above, the site is located within the Beaufort West REDZ. The SDF was prepared in 2013 and therefore pre-dates the establishment of the REDZs in 2018.

Section 5.4.1.6 discuss principles for wind and solar farm siting: The focus is on wind farms.

- Slopes by gradient classes.
- Rocky areas.
- Soil type and permeability.
- Natural watercourses and areas with high water table, Rainfall data.
- Vegetation types and sensitivity.
- Road layout and design.
- Re-vegetation.
- Soil types and potential for erosion.
- Soil types influence on road construction and re-vegetation.
- Surface Hydrology and Groundwater

From the above mentioned it is clearly visible that the proposed development is aligned with strategies/principles contained in The Beaufort West Municipality Spatial Development Framework (2013).

A process of reviewing the 2013 SDF is currently underway.

5 MOTIVATION

The proposed consent use application and development could be motivated as follow:

5.1 NEED

- The current energy supply in South Africa cannot meet the current demand. This is evident in scheduled “load-shedding” by the national energy provider, Eskom. Therefore, there exists a definitive need for increased energy provision.
- Currently 90% of South African energy is generated through the use of fossil fuels, particularly coal. Not only is this method of energy production unsustainable, but it also contributes to climate change and air pollution. As such, the need exists for sustainable energy, generated from renewable resources, to relieve pressure on limited coal reserves.
- Benefits of renewable energy include:
 - × Increased energy security.
 - × Resource saving.
 - × Exploitation of significant renewable energy resources.
 - × Pollution reduction.
 - × Support for international agreements.
 - × Employment creation.
 - × Acceptability to society.
 - × Support to new industrial sector; and
 - × Protecting the natural foundation of life for future generations.
 - × Clean energy

- ✗ Reduction of environmental footprint
 - ✗ Long-term benefits for the community and society
 - ✗ Advancing economic and social development
- The positive implications of establishing a Wind Energy Facility on the application properties includes:
 - ✗ Assisting the government in reaching their set targets for renewable energy.
 - ✗ Relieving pressure on the national Eskom electricity grid.
 - ✗ Promotion of clean, renewable energy in SA; and
 - ✗ Creation of local employment and business opportunities in the area.

5.2 DESIRABILITY

The application site is ideally suited to the proposed development. Various technical and environmental factors are necessary in order to develop a solar energy facility. The following favourable site characteristics make the application site desirable:

Table 6: Desirability for the development

FACTOR	SUITABILITY OF THE PREFERRED SITE
Land Availability	The abovementioned farm portions are of a suitable size for the proposed project. The land available for the development of the proposed Kwagga WEF 1 is approximately 5 136 ha in extent and was assessed in detail by the specialists during the Scoping Phase and EIA Phases. Only approximately 250 ha (about 4.8% of the total available assessed area) will be required for the proposed WEF and its associated infrastructure
Environmental Sensitivity	Although the proposed Kwagga WEF 1 site does contain environmental features that will have to be avoided due to its high environmental sensitivities, following these exclusions sufficient suitable land is still available to ensure the development feasibility of the project (see Section 5.1.5 below).
Wind speed Levels	Good to Very Good
Distance to and availability of the Grid	<p>The proposed Kwagga WEF 1 is located approximately 55 km south of the Eskom Droërivier Substation. It however is proposed that a 132 kV overhead transmission line, which will be constructed for the proposed project at a later stage, will extend approximately 10 km between the proposed on-site substation hub at the Kwagga WEF 1 and the existing Droërivier–Proteus 400 kV line that runs parallel to the N12 in a north-south direction and connects Beaufort West with the George/Mossel Bay area further south.</p> <p><i>Note from the CSIR: A separate Environmental Assessment Process will be undertaken at a later stage once the grid connection and the 132 kV power line routing for the proposed Kwagga WEF 1 has been confirmed, and hence does not form part of this Scoping/EIA Process.</i></p>
Site Accessibility	The main route providing access to the proposed Kwagga WEF 1 is the N12 main road that runs along the proposed project site to the west. The proposed Kwagga WEF 1 will be accessible from the N12 via an existing gravel farm road running through the proposed project site in a west-east direction, as well as from the R308 Rietbron bound public access gravel road, which is situated to the south of the proposed project site. A new access road with a maximum width of 10 m will be constructed to facilitate the connection between the Kwagga WEF 1 project site and the existing Rietbron bound public access gravel road. In addition to the existing internal service 'farm' roads on site, which will be extended to a maximum width of 10 m, where necessary, additional internal service roads are planned to be constructed on the project site of which the width will not exceed 10 m. The length of the internal service road network for the proposed Kwagga WEF 1 is approximately 45 km
Topography	The proposed Kwagga WEF 1 project site is situated in the Nama Karoo biome and the landscape of the area is a generally relatively flat to rolling terrain with low ridges that are covered with low growing and sparse Karoo shrubland vegetation. The altitude of the site ranges from 950 m in the north-east to 1 093 m at Dwaalberg in the south. The current land-use is primarily low-density small

P22813 Kwagga Wind Energy Facility 1

CONSENT USE APPLICATION ON PORTION 3 OF THE FARM TYGER POORT NO. 376, REMAINDER & PORTION 1 OF THE FARM DWAALFONTEIN NO. 377 AND REMAINDER OF THE FARM DWAALFONTEIN NO. 379 REGISTRATION DIVISION BEAUFORT WEST, WESTERN CAPE PROVINCE

	stock grazing. The peripheral visual boundaries to the north and south of the proposed site are truncated by the Swartberg Mountains in the south and the Nuweveld Mountains in the north.
Fire Risk	The site is located in the Gamka Karoo (NK1 1) vegetation type (Mucina & Rutherford 2006). It occurs on irregular to slightly undulating plains covered with dwarf spiny shrubland, dominated by Karoo dwarf shrubs. Mudrock and sandstones of the Beaufort Group with some Ecca Group shales cover the entire area. Shallow soils leave large areas as uncovered rock. The exposed bedrock in addition to a dwarf sparse shrubland vegetation cover makes this area of extremely low fire risk.
Current Land Use	Agriculture (mainly low-density livestock grazing)
Landowner Willingness	All affected landowners have given their consent and have signed letters of consent for the undertaking of the S&EIA Process and the subsequent development of the proposed Kwagga WEF 1 should EA be granted.

Source: Final Environmental Impact Assessment Report Kwagga Wind Energy Facility 1: Chapter 5

6 ENGINEERING SERVICES

The development confirmed with the local municipality of available services. The following municipal services were confirmed for the proposed development; Please find the municipal service confirmation letter attached in **Annexure K**.

- Water services
- Waste Removal Services
- Sewage services

7 ENVIRONMENTAL AUTHORISATION

An Environmental Impact Assessment Report was compiled by Council for Scientific and Industrial Research (CSIR). The associated impacts of the Kwagga Wind Energy Facility 1 (Pty) Ltd have been assessed by various specialists, including: Agriculture and Soils Compliance Statement, Aquatic Biodiversity Impact Assessment, Terrestrial Biodiversity and Species Impact Assessment, Avifauna, Impact Assessment, Bats Impact Assessment, Visual Impact Assessment, Palaeontological Impact Assessment, Heritage Impact Assessment, Noise Impact Assessment, Socio-Economic Impact Assessment, Traffic Impact Assessment, Civil Aviation Compliance Statement, Defense Site Sensitivity Verification and a Wake Loss Assessment. The proposed project is considered to have an overall low to very low negative environmental impact and an overall low to moderate positive socio-economic impact.

EA was granted on 07/04/2022 (EA registration number/DFFE Reference No: 14/12/16/3/3/2/2070).

Please find attached in **Annexure H** the original EA, as well as the above-mentioned letters of amendments of the EA.

8 TOWN PLANNING PERSPECTIVE

Application is made to obtain consent use to legally develop the said properties for Renewable Energy Structure to accommodate a Wind Energy Facility (Kwagga Wind Energy Facility 1 (Pty) Ltd) and associated infrastructure in terms of Section 19, contained in Chapter III, read with Chapter IV of the Beaufort West Municipality: By-Law on Municipal Land Use Planning, 2019 in respect of the above-mentioned properties. The application properties are large enough to accommodate the proposed Wind Energy Facility. The proposed project is considered to have an overall low to very low negative environmental impact and an overall low to moderate positive socio-economic impact. The consent use application in order to accommodate the proposed Kwagga Wind Energy Facility 1 (Pty) Ltd would ultimately contribute toward sustainability and renewable energy solutions. The proposed development involves the optimal use of the existing and available land and resource.

Several other renewable energy projects and infrastructure are found in close proximity of the application properties, the proposed consent use application and development will therefore not be in contrast with the surrounding area but would ensure harmony. As previously mentioned, the properties have both good external connections and internal access to accommodate the proposed development especially through the upgrading of the proposed access site on the south of the application sites.

P22813 Kwagga Wind Energy Facility 1

CONSENT USE APPLICATION ON PORTION 3 OF THE FARM TYGER POORT NO. 376, REMAINDER & PORTION 1 OF THE FARM DWAALFONTEIN WES NO. 377 AND REMAINDER OF THE FARM DWAALFONTEIN NO. 379 REGISTRATION DIVISION BEAUFORT WEST, WESTERN CAPE PROVINCE

Ultimately, from a town planning perspective, it makes sense to allow the proposed consent use application to be approved for the purpose of Kwagga Wind Energy Facility 1 (Pty) Ltd. Allowing the consent use application will increase the functionality, as well as add value to the current properties, along with assist the local economy by creating local business and employment opportunities. Overall, the project would aid with South Africa's electricity supply based on an environmentally friendly manner.

9 COMMUNITY PARTICIPATION

Community Participation would be completed in terms of the following Sections contained in Chapter IV of the Beaufort West Municipality: By-Law on Municipal Land Use Planning, 2019

- Section 45. Publication of notices
- Section 46. Serving of notices
- Section 47. Contents of notice
- Section 48. Other methods of public notice:

The following surrounding owners will be included in the public participation process by means of registered post:

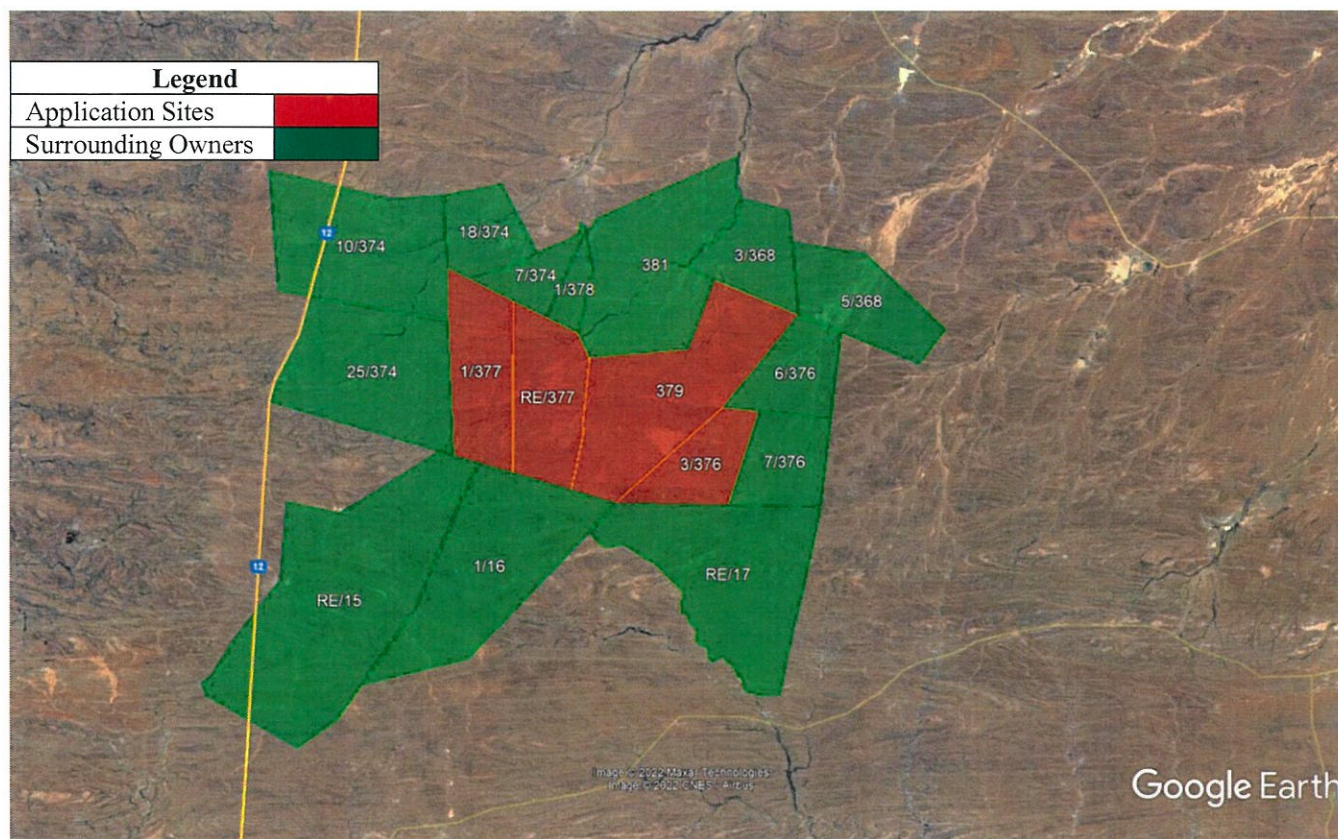


Figure 10: Surrounding Owners

Comments from the following Departments and interested parties have been received and are included for ease of reference:

Table 7: Comments Received from Provincial Departments or interested party.

Provincial Department/Interested Party	Refer to
Heritage	Annexure J
Land Claims	
SANRAL	
Department of Mineral Resources	
Breede Gouritz Catchment Management Agency	

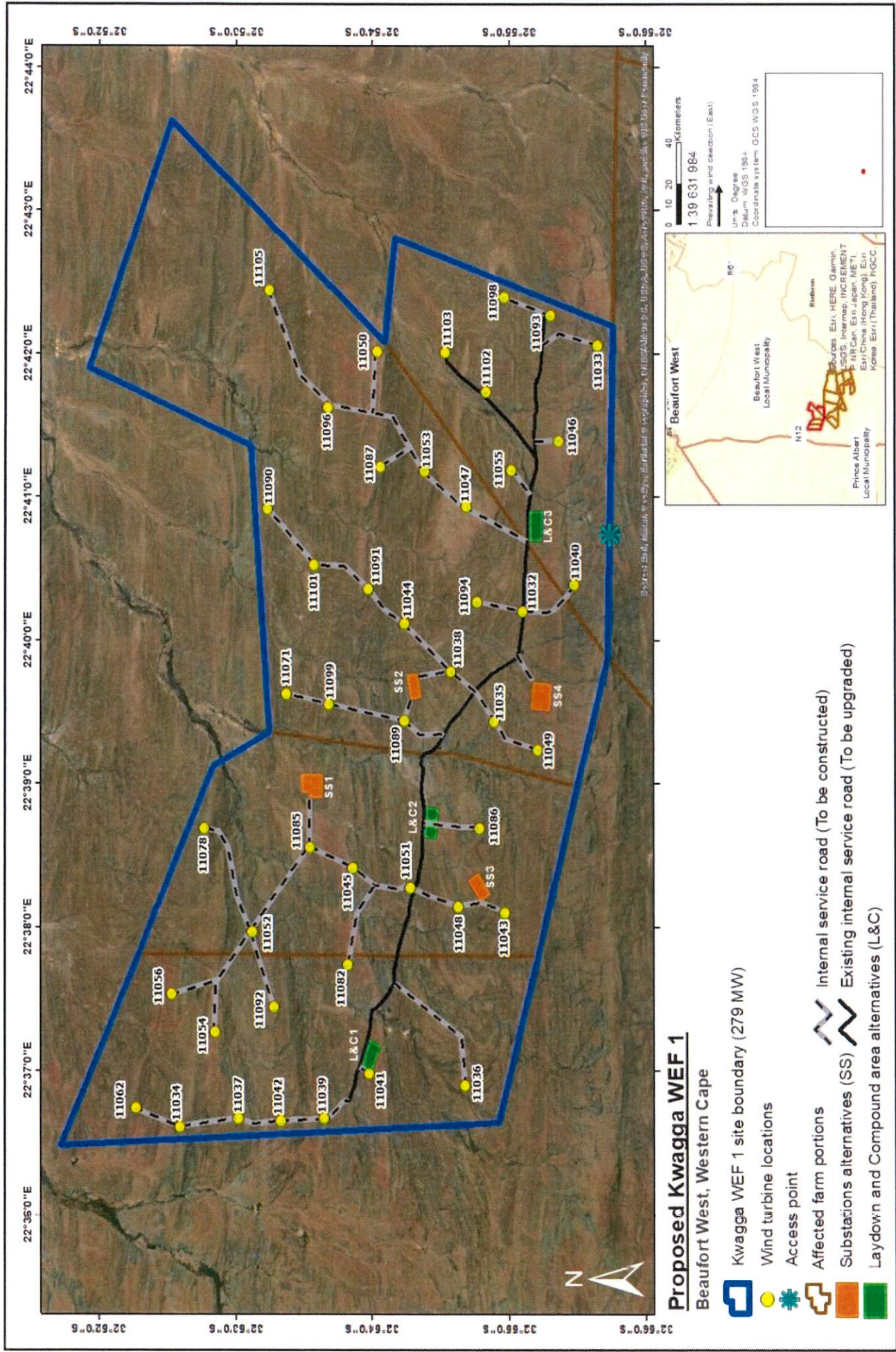
10 CONCLUSION

Application is made to obtain consent use to legally develop the said properties for Renewable Energy Structures, Kwagga Wind Energy Facility 1 (Pty) Ltd, in terms of Section 15(2) read with Section 19, contained in Chapter III, read with Chapter IV of the Beaufort West Municipality: By-Law on Municipal Land Use Planning, 2019. As discussed, the sites are ideally located for the proposed development and will contribute significantly to the production of green electricity, job creation and economic development.

Taking the above mentioned into account, it is our opinion that the proposed consent use should be encouraged and approved.

ANNEXURE G:

SITE DEVELOPMENT PLAN



Kwagga Wind Energy Facility 1 (Pty) Ltd

Near Beaufort
West
South Africa

Legend

Access Route



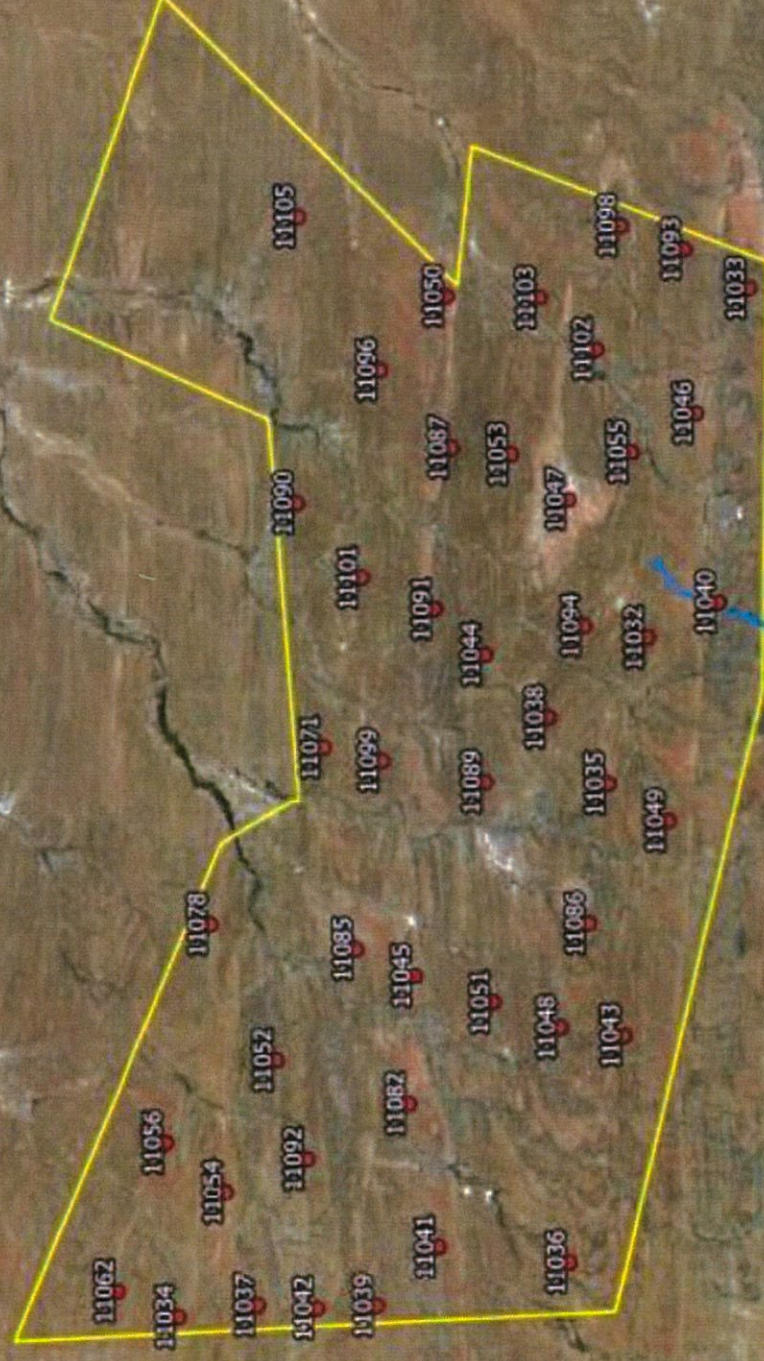
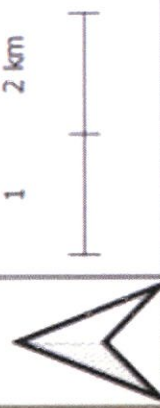
Projed Boundary



Wind Turbine Generators



1 2 km



WTG Name	Latitude	Longitude
11062	32° 52' 16.17" S	22° 36' 44.67" E
11056	32° 52' 32.05" S	22° 37' 31.94" E
11034	32° 52' 35.83" S	22° 36' 36.54" E
11037	32° 53' 01.24" S	22° 36' 40.17" E
11054	32° 52' 51.23" S	22° 37' 16.24" E
11078	32° 52' 46.59" S	22° 38' 41.28" E
11052	32° 53' 07.47" S	22° 37' 58.07" E
11092	32° 53' 17.05" S	22° 37' 26.68" E
11042	32° 53' 20.00" S	22° 36' 39.24" E
11039	32° 53' 39.08" S	22° 36' 40.10" E
11041	32° 53' 59.06" S	22° 36' 58.86" E
11082	32° 53' 49.66" S	22° 37' 44.25" E
11036	32° 54' 40.82" S	22° 36' 53.78" E
11043	32° 54' 58.46" S	22° 38' 05.81" E
11048	32° 54' 38.08" S	22° 38' 08.41" E
11051	32° 54' 16.95" S	22° 38' 16.51" E
11045	32° 53' 51.82" S	22° 38' 24.90" E

WTG Name	Latitude	Longitude
11085	32° 53' 32.92" S	22° 38' 33.28" E
11086	32° 54' 47.34" S	22° 38' 41.46" E
11089	32° 54' 14.54" S	22° 39' 26.42" E
11099	32° 53' 41.38" S	22° 39' 33.15" E
11071	32° 53' 22.77" S	22° 39' 37.47" E
11049	32° 55' 12.90" S	22° 39' 13.96" E
11090	32° 53' 14.45" S	22° 40' 55.19" E
11101	32° 53' 34.98" S	22° 40' 31.47" E
11091	32° 53' 58.59" S	22° 40' 21.50" E
11044	32° 54' 14.54" S	22° 40' 06.92" E
11038	32° 54' 34.77" S	22° 39' 46.97" E
11035	32° 54' 53.85" S	22° 39' 25.88" E
11094	32° 54' 46.25" S	22° 40' 16.03" E
11032	32° 55' 06.34" S	22° 40' 12.28" E
11040	32° 55' 29.20" S	22° 40' 23.41" E
11096	32° 53' 41.10" S	22° 41' 37.60" E
11087	32° 54' 04.14" S	22° 41' 12.80" E
11053	32° 54' 23.14" S	22° 41' 10.71" E
11047	32° 54' 41.47" S	22° 40' 56.28" E
11055	32° 55' 01.38" S	22° 41' 11.39" E
11046	32° 55' 22.29" S	22° 41' 23.67" E
11050	32° 54' 02.66" S	22° 42' 01.07" E
11103	32° 54' 32.25" S	22° 42' 00.61" E
11102	32° 54' 50.29" S	22° 41' 44.08" E
11105	32° 53' 15.07" S	22° 42' 26.42" E
11098	32° 54' 58.21" S	22° 42' 23.50" E
11093	32° 55' 18.58" S	22° 42' 15.98" E
11033	32° 55' 39.28" S	22° 42' 03.52" E

ANNEXURE H:

ENVIRONMENTAL AUTHORISATION



forestry, fisheries & the environment

Department
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road, Arcadia · PRETORIA

DFFE Reference: 14/12/16/3/3/2/2070

Enquiries: Ms Constance Musemburi

Telephone: (012) 399 9416 E-mail: CMusemburi@dfa.gov.za

Mr Robert Invernizzi
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Century Way
Century City
CAPE TOWN
7441

Tel: (021) 276 3620
Cell: (073) 265 8575
E-mail: Rob.Invernizzi@abo-wind.com

PER EMAIL / MAIL

Dear Mr Invernizzi

ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: PROPOSED DEVELOPMENT OF THE 279 MW KWAGGA WIND ENERGY FACILITY 1 (KWAGGA WEF 1), NEAR BEAUFORT WEST, WESTERN CAPE PROVINCE.

With reference to the above application, please be advised that the Department has decided to grant authorisation. The Environmental Authorisation (EA) and reasons for the decision are attached herewith.

In terms of Regulation 4(2) of the Environmental Impact Assessment Regulations, 2014, as amended (the EIA Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 14 (fourteen) days of the date of the decision as well as the provisions regarding the submission of appeals that are contained in the Regulations.

In terms of the Promotion of Administrative Justice Act, Act No. 3 of 2000, you are entitled to the right to fair, lawful and reasonable administrative action; and to written reasons for administrative action that affects you negatively. Further your attention is drawn to the provisions of the Protection of Personal Information Act, Act No. 4 of 2013 which stipulates that the Department should conduct itself in a responsible manner when collecting, processing, storing and sharing an individual or another entity's personal information by holding the Department accountable should the Department abuses or compromises your personal information in any way.

Your attention is drawn to Chapter 2 of National Environmental Management Act, Act No. 107 of 1998 National Appeal Regulations published under Government Notice R993 in Government Gazette No. 38303 dated 08 December 2014 (National Appeal Regulations, 2014), which prescribe the appeal procedure to be followed. Kindly include a copy of this document (National Appeal Regulations, 2014) with the letter of notification to interested and affected parties in this matter.

M

Should any person wish to lodge an appeal against this decision, he/she must submit the appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party, and any organ of state with interest in the matter within 20 days from the date that the notification of the decision was sent to the registered interested and affected parties by the applicant; or the date that the notification of the decision was sent to the applicant by the Department, whichever is applicable.

Appeals must be submitted in writing in the prescribed form to:

The Director: Appeals and Legal Review of this Department at the below mentioned addresses.

By email: appeals@dfre.gov.za

By hand: Environment House
473 Steve Biko Road
Arcadia
PRETORIA
0083 or

By post: Private Bag X447
PRETORIA
0001

Please note that in terms of Section 43(7) of the National Environmental Management Act, Act No. 107 of 1998, as amended, the lodging of an appeal will suspend the environmental authorisation, or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at <https://www.environment.gov.za/documents/forms#legal-authorisations> or request a copy of the documents at appeals@dfre.gov.za

Yours faithfully



Mr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment
Date: 09/04/2022

cc:	Ms Lizande Kellerman	Council for Scientific and Industrial Research (CSIR)	Email: LKellerman@csir.co.za
	Mr Gavin Benjamin	DEA&DP	Email: gavin.benjamin@westerncape.gov.za
	Ms Anneleen Vorster	Prince Albert Local Municipality	Email: anneleen@pamun.gov.za
	Ms Vuyokazi Rutters	Beaufort West Local Municipality	Email: kosleh@beaufortwesmun.co.za /admin@beaufortwesmun.co.za

Environmental Authorisation

In terms of Regulation 25 of the Environmental Impact Assessment Regulations, 2014, as amended

**DEVELOPMENT OF THE 279 MW KWAGGA WIND ENERGY FACILITY 1 (KWAGGA WEF 1), NEAR
BEAUFORT WEST, WESTERN CAPE PROVINCE.**

CENTRAL KAROO DISTRICT MUNICIPALITY

Authorisation register number:	<i>14/12/16/3/3/2/2070</i>
Last amended:	<i>First issue</i>
Holder of authorisation:	<i>Kwagga Wind Energy Facility 1 (PTY) Ltd</i>
Location of activity:	<i>Within Ward 7 of Beaufort West Local Municipality and Ward 2 of Prince Albert Local Municipality in the Western Cape Province.</i>

This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

Decision

The Department is satisfied, based on information available to it and subject to compliance with the conditions of this Environmental Authorisation, that the applicant should be authorised to undertake the activities specified below.

Non-compliance with a condition of this Environmental Authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, Act No. 107 of 1998, as amended and the EIA Regulations, 2014, as amended.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

Activities authorised

By virtue of the powers conferred on it by the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment Regulations, 2014, as amended, the Department hereby authorises –

KWAGGA WIND ENERGY FACILITY 1 (PTY) LTD

(hereafter referred to as the holder of the authorisation)

with the following contact details –

Robert Invernizzi
Kwagga Wind Energy Facility 1 (PTY) Ltd
Unit B1, Mayfair Square,
Century Way,
Century City,
CAPE TOWN
7441

Tel: (021) 278 3620

Cell: (073) 265 8575

E-mail: Rob.Invernizzi@abo-wind.com

to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notice 1, Listing Notice 2 and Listing Notice 3 of the EIA Regulations, 2014 as amended:

Activity number	Activity description
<p><u>Listing Notice 1, Item 11:</u></p> <p><i>The development of facilities or infrastructure for the transmission and distribution of electricity-</i></p> <p><i>(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts;</i></p>	<p>The proposed project will entail the construction of two 33kV/132kV on-site substation hubs incorporating the facility substation, switchyard, collector infrastructure and associated Operation and Maintenance (O&M) buildings. The proposed project will be constructed on various farm portions approximately 80km south of Beaufort West within the Beaufort West Local Municipality, Western Cape Province and is therefore situated outside of the urban edge.</p>
<p><u>Listing Notice 1, Item 12:</u></p> <p><i>The development of:</i></p> <p><i>(ii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs</i></p> <p><i>a) within a watercourse;</i></p> <p><i>b) in front of a development setback; or</i></p> <p><i>c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</i></p>	<p>The proposed project will entail the construction of the Wind Energy Facility (WEF) and associated infrastructure such as wind turbines and hardstands, offices, O&M building, workshop, ablution facilities, on-site substation hub and collector station, laydown area, water storage tanks, security enclosures and access roads etc. Based on the aquatic and terrestrial biodiversity specialists input provided for the Scoping Phase, several watercourses such as drainage lines with associated riverine areas were identified on site. The buildings and infrastructure are expected to exceed a footprint of 100m² with some infrastructure or structures potentially occurring within a watercourse (e.g. drainage line) or within 32m from the edge of watercourses.</p>

<p><u>Listing Notice 1, Item 19:</u></p> <p><i>The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from</i></p> <p><i>(i) a watercourse;</i></p>	<p>The proposed project will entail the excavation, removal and moving of more than 10m³ of soil, sand, pebbles or rock from nearby watercourses on site. The proposed project also entails the infilling of more than 10m³ of material into the nearby watercourses including the Swartbakens River, some of its associated tributaries and several drainage lines.</p>
<p><u>Listing Notice 1, Item 24:</u></p> <p><i>The development of a road –</i></p> <p><i>(ii) with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres;</i></p>	<p>The key route providing access to the proposed project is the N12 main road that runs along the proposed project site to the west. The proposed Kwagga WEF 1 will be accessible from the N12 via an existing gravel farm road running through the proposed project site in a west-east direction, as well as from the R308 Rietbron bound public access gravel road situated to the south of the proposed project site. The width of both these existing access gravel roads will be widened to a maximum width of 10m without a road reserve, where necessary. Also, a new access road with a maximum width of 10m will be constructed to facilitate the connection between the project site and the existing R308 Rietbron bound public access gravel road located to the south. In addition to the existing internal service 'farm' roads on site, which will be extended to a maximum width of 10m, where necessary, additional internal service roads are to be constructed on the project site of which the width will not exceed 10m. The length of the internal service road network for the proposed Kwagga WEF 1 is approximately 45km.</p>

<p><u>Listing Notice 1, Item 28:</u></p> <p><i>Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development:</i></p> <p><i>(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare;</i></p>	<p>The land earmarked for the development of the proposed Kwagga WEF 1 is currently used for agricultural purposes (mainly low intensive livestock farming). The proposed project which is a commercial / industrial development will have a development footprint of approximately 250ha.</p>
<p><u>Listing Notice 1, Item 56:</u></p> <p><i>The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre-</i></p> <p><i>(i) where the existing reserve is wider than 13,5 meters; or</i></p> <p><i>(ii) where no reserve exists, where the existing road is wider than 8 metres;</i></p>	<p>The key route providing access to the proposed project is the N12 main road that runs along the proposed project site to the west. The proposed Kwagga WEF 1 will be accessible from the N12 via an existing gravel farm road running through the proposed project site in a west-east direction, as well as from the R308 Rietbron bound public access gravel road situated to the south of the proposed project site. The width of both these existing access gravel roads will be widened to a maximum width of 10m without a road reserve, where necessary. Also, a new access road with a maximum width of 10m will be constructed to facilitate the connection between the project site and the existing R308 Rietbron bound public access gravel road located to the south. In addition to the existing internal service 'farm' roads on site, which will be extended to a maximum width of 10m, where necessary, additional internal service roads are to be constructed on the project site of which the width will not exceed 10 m. The length of the internal service road network for the proposed Kwagga WEF 1 is approximately 45 km.</p>

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<p><u>Listing Notice 2, Item 1:</u></p> <p><i>The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more, excluding where such development of facilities or infrastructure is for PV installations and occurs</i></p> <p><i>(a) within an urban area or;</i> <i>(b) on existing infrastructure.</i></p>	<p>The proposed project will entail the construction of a WEF with a maximum generation capacity of 270MW i.e. a facility to be developed for the generation of electricity from a renewable wind resource.</p>
<p><u>Listing Notice 2, Item 15</u></p> <p><i>The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for:</i></p> <p><i>(i) the undertaking of a linear activity; or</i> <i>(i) maintenance purposes undertaken in accordance with a maintenance management plan.</i></p>	<p>The proposed WEF project will have a total estimated development footprint of approximately 250ha. As a result, more than 20ha of indigenous vegetation would be removed for the construction of the proposed project.</p>
<p><u>Listing Notice 3, Item 4:</u></p> <p><i>The development of a road wider than 4 meters with</i></p> <p><i>a reserve less than 13.5 meters.</i></p> <p><i>i. Western Cape</i> <i>ii. Areas outside urban areas;</i> <i>(aa) Areas containing indigenous vegetation;</i></p>	<p>Existing roads will be upgraded to access each of the main affected farm portions. The access roads are estimated to have an existing width ranging between 6m and 8m and will be increased to a maximum width of 10m. Also, a new access road connecting the proposed Kwagga WEF 1 project with the existing public access gravel road running to the south of the site will be constructed that will have a maximum width of 10m. The planned internal road network extends approximately 45km for the proposed Kwagga WEF 1 project. The proposed project will take place outside of an urban area on land containing indigenous vegetation.</p>
<p><u>Listing Notice 3, Item 10:</u></p> <p><i>The development and related operation of facilities or</i></p>	<p>The construction and operational phases of the proposed WEF project will require infrastructure for the storage and handling of dangerous goods of more than 30m³ but not exceeding 80m³, and which will include flammable and</p>

<p>infrastructure for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of 30 but not exceeding 80 cubic metres –</p> <p>i. Western Cape</p> <p>ii. All areas outside urban areas</p>	<p>combustible liquids such as chemicals, fuel, oils, lubricants and solvents.</p>
<p><u>Listing Notice 3, Item 12:</u></p> <p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>i. Western Cape</p> <p>ii. Within critical biodiversity areas identified in bioregional plans;</p>	<p>The proposed WEF project will have an estimated development footprint of approximately 250ha. As a result, more than 300m² of indigenous vegetation would be removed for the construction of the proposed WEF and its associated Infrastructure. The proposed project site contains Critical Biodiversity Areas (CBAs), Ecological Support Areas (ESAs) and Other Natural Areas (ONAs) in terms of the Western Cape Biodiversity Spatial Plan (2017).</p>
<p><u>Listing Notice 3, Item 14:</u></p> <p>The development of –</p> <p>(ii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs –</p> <p>(a) within a watercourse;</p> <p>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>i. Western Cape</p> <p>i. Outside urban areas:</p> <p>(bb) National Protected Area Expansion Strategy Focus areas;</p> <p>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic</p>	<p>The proposed WEF project will be constructed on various farm portions, located approximately 60km south of Beaufort West within the Beaufort West Local Municipality, Western Cape Province. Hence, development of the proposed project will take place outside of an urban area. The proposed project will entail the construction of the WEF and associated Infrastructure within 32m of several watercourses such as drainage lines with associated riverine areas. The proposed project site contains Critical Biodiversity Areas (CBAs), Ecological Support Areas (ESAs) and Other Natural Areas, (ONAs) in terms of the Western Cape Biodiversity Spatial Plan (2017). In addition, portions of the proposed project site include areas, which are identified as part of the NPAES Lower Karoo Focus Area.</p>

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<i>biodiversity plans adopted by the competent authority or in bioregional plans</i>	
<p><u>Listing Notice 3, Item 18:</u></p> <p><i>The widening of a road by more than four (4) meters,</i></p> <p><i>or the lengthening of a road by more than one (1) kilometre:</i></p> <p><i>i. Western Cape</i></p> <p><i>ii. All areas outside urban areas:</i></p> <p><i>(aa) Areas containing indigenous vegetation;</i></p>	<p>Existing roads will be upgraded to access each of the main affected farm portions. The access roads are estimated to have an existing width ranging between 6m and 8m, and will be increased to a maximum width of 10 m. However, a new access road connecting the proposed Kwagga WEF 1 project with the existing Rietbron bound public access gravel road running to the south of the site will be constructed that will have a maximum width of 10m. Also, existing farm roads/jeep tracks that will form part of the internal service road network will be upgraded to a maximum width of 10m. The planned internal service road network extends approximately 45km for the proposed Kwagga WEF 1 project. The proposed project will take place outside of an urban area on land containing indigenous vegetation.</p>

as described in the Environmental Impact Assessment Report (EIAR) dated December 2021 at:

Coordinates and SG21

Kwagga WEF 1 affected farm portion name	SG 21 Digit Code	Centre Coordinates of Farm Portion	
		Latitude	Longitude
Portion 3 of the Farm Tyger Poort No. 376	C00900000000037600003	32° 55' 0.1488" S	22° 41' 28.6728" E
Portion 1 of the Farm Dwaalfontein Wes No. 377	C00900000000037700001	32° 53' 29.1568" S	22° 37' 9.5124" E
Remainder of the Farm Dwaalfontein Wes No. 377	C00900000000037700000	32° 53' 55.1256" S	22° 38' 32.1" E
Remainder of the Farm Dwaalfontein No. 379	C00900000000037900000	32° 53' 49.7328" S	22° 41' 8.6064" E

Access Road to the Kwagga WEF 1	SG 21 Digit Code	Centre Coordinates of Farm Portion	
		Latitude	Longitude
Remainder of the Farm Wolve Kraal No. 17	C06100000000001700000	32° 56' 56.472" S	22° 42' 9.288" E
Portion 7 of the Farm Wolve Kraal No.17	C06100000000001700007	32° 58' 42.348" S	22° 42' 8.244" E
Portion 8 of the Farm Wolve Kraal No.17	C06100000000001700008	32° 59' 35.268" S	22° 43' 45.012" E
Portion 10 of the Farm Wolve Kraal No.17	C06100000000001700010	32° 59' 17.268" S	22° 42' 19.908" E
Portion 11 of the Farm Wolve Kraal No.17	C06100000000001700011	32° 58' 1.2" S	22° 40' 26.616" E
Portion 12 of the Farm Wolve Kraal No.17	C06100000000001700012	32° 57' 52.308" S	22° 38' 32.568" E

- for the proposed development of the 279 MW Kwagga Wind Energy Facility 1 (Kwagga WEF 1), within Portion 3 of the Farm Tyger Poort No. 376, Portion 1 of the Farm Dwaalfontein Wes No. 377, Remainder of the Farm Dwaalfontein Wes No. 377 and Remainder of the Farm Dwaalfontein No. 379 of Ward 7 of the Beaufort West Local Municipality and Ward 2 of the Prince Albert Local Municipality, Western Cape Province, hereafter referred to as "the property".

The proposed development entails the construction of wind turbines to generate 279 MW electricity. The Wind Energy Facility (WEF) will also make use of a range of associated infrastructure, including a 33kV/132kV on-site substation hub incorporating the facility substation, switchyard, collector infrastructure and associated Operation and Maintenance (O&M) buildings. It is proposed that a 132kV overhead transmission line, which will be constructed for the proposed Kwagga WEFs at a later stage, will extend between the proposed on-site substation hub at the Kwagga WEF 1 and the existing Droërivier-Proteus 400kV line that runs parallel to the N12 in a north-south direction and connects Beaufort West with the George/Mossel Bay area further south

Project components will entail the following:

Infrastructure	Description
Number of turbines:	45
Turbine Capacity:	Up to 10MW
Hub height	Up to 180m
Rotor (blade) diameter	Up to 200m
Blade length	Up to 100m
WEF Project Size / Generation Capacity:	Approximately 279MW

On-site substation hub:	The proposed project will include one on-site substation hub incorporating the facility substation, switchyard, collector infrastructure, BESS and associated O&M buildings.
Area of on-site substation hub alternatives	Alternative 4 (Preferred) approximately 5.21ha.
Height of substation hub:	Maximum 10m
Capacity of on-site substation:	33/132kV
Area occupied by construction compound and lay down area:	Size = Six (6) ha (i.e. 300m x 200m)
Internal service roads:	There are several existing gravel farm roads (some just jeep tracks) with widths ranging between 4m and 6m located around and within the proposed Kwagga WEF 1 project site boundary. The width of the existing internal service roads will be extended to a maximum width of 10m, where necessary. The length of the internal service road network for the proposed Kwagga WEF 1 is approximately 45km.
Concrete batching plant:	50m x 50m (on-site batching) (0.25 ha)
Operational and Maintenance (O&M) Building:	1ha
General temporary Hardstand Area (boom erection, storage, and assembly area):	1ha
Battery Energy Storage System (BESS):	The BESS will cover an area of approximately five (5) ha, have a maximum height of 8m (as recommended) and have a storage capacity of up to 500 MW/500 MWh. The BESS Technology will be Lithium Ion, NiCd, NiMH-based Batteries
Site Access:	The proposed Kwagga WEF 1 project site can be accessed via the N12 main road, which is situated to the west of the site, via the R308

	<p>Rietbron bound public access gravel road that is located to the south of the site. The N12 is a surfaced national road that connects Beaufort West and the N1 main road in the north with Klaarstroom, De Rust, Oudtshoorn and other Garden Route towns to the south. The R308 Rietbron bound public access road is a well-maintained gravel road with widths ranging between 6m and 8m and will be widened to a maximum width of 10m, where necessary. A new access road, which will serve as the main access point to the Kwagga WEF 1 with a maximum width of 10m will be constructed to facilitate the connection between the Kwagga WEF 1 project site, across the Kwagga WEF 2 site, and the existing R308 Rietbron bound public access gravel road located to the south. The affected farm portions that were assessed for purposes of this access road are:</p> <ul style="list-style-type: none"> • Wolve Kraai 17 / RE, 7, 8, 10, 11 and 12
Proximity to grid connection:	<p>Eskom's Droërvier Substation is ideally located within the Central Strategic Transmission Corridors (as gazetted on 16 February 2018, GN R113) and approximately 55km north of the proposed Kwagga WEF 1. It is proposed that a 132kV overhead transmission line, which will be constructed for the proposed Kwagga WEF 1 at a later stage (and not part of this application), will extend between the proposed on-site collector substation at the Kwagga WEF 1 and the existing Droërvier-Proteus 400kV line that runs parallel to the N12 in a north-south</p>

	direction and connects Beaufort West with the George/Mossel Bay area further south.
Fencing:	For various reasons such as security, public protection and lawful requirements, the proposed built infrastructure on site will be secured via the installation of appropriate fencing. Existing livestock fencing on the affected farms portions may be upgraded in places were deemed insufficiently secure, whereas permanent fencing will be required around the O&M area and on-site substation hub. Access points will be managed and monitored by an appointed security service provider.

Conditions of this Environmental Authorisation

Scope of authorisation

1. The preferred land-use alternative, preferred activity alternative, preferred site alternative, preferred construction compound and laydown area alternatives, preferred substation hub alternatives and technology alternative for the proposed development of the 279 MW Kwagga Wind Energy Facility 1 (Kwagga WEF 1), within Portion 3 of the Farm Tyger Poort No.376, Portion 1 of the Farm Dwaalfontein Wes No.377, Remainder of the Farm Dwaalfontein Wes No.377 and Remainder of the Farm Dwaalfontein No.379 of Ward 7 of the Beaufort West Local Municipality and Ward 2 of the Prince Albert Local Municipality, Western Cape Province, is approved as per the geographic coordinates cited in the table above.
2. Authorisation of the activity is subject to the conditions contained in this Environmental Authorisation, which form part of the Environmental Authorisation and are binding on the holder of the authorisation.
3. The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this Environmental Authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.
4. The activities authorised must only be carried out at the property as described above.

5. Any changes to, or deviations from, the project description set out in this Environmental Authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further Environmental Authorisation in terms of the regulations.
6. The holder of an Environmental Authorisation must apply for an amendment of the Environmental Authorisation with the Competent Authority for any alienation, transfer or change of ownership rights in the property on which the activity is to take place.
7. This activity must commence within a period of ten (10) years from the date of issue of this Environmental Authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for Environmental Authorisation must be made for the activity to be undertaken.
8. Commencement with one activity listed in terms of this Environmental Authorisation constitutes commencement of all authorised activities.

Notification of authorisation and right to appeal

9. The holder of the authorisation must notify every registered interested and affected party, in writing and within 14 (fourteen) calendar days of the date of this Environmental Authorisation, of the decision to authorise the activity.
10. The notification referred to must –
 - 10.1. specify the date on which the authorisation was issued;
 - 10.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
 - 10.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 10.4. give the reasons of the Competent Authority for the decision.

Commencement of the activity

11. The authorised activity must not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014, and no appeal has been lodged against the decision. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, Act No. 107 of 1998, as amended will suspend the Environmental Authorisation or any provision or condition

attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.

Management of the activity

12. The site layout plans as attached as Appendix H (Maps) of the EIAR dated December 2021 is approved.
13. The Environmental Management Programme (EMPr) submitted as part of the EIAR dated December 2021 is approved and must be implemented and adhered to.
14. The EMPr must be implemented and strictly enforced during all phases of the project. It shall be seen as a dynamic document and shall be included in all contract documentation for all phases of the development when approved.
15. Changes to the approved EMPr must be submitted in accordance with the EIA Regulations applicable at the time.
16. The Department reserves the right to amend the approved EMPr should any impacts that were not anticipated or covered in the EIAR be discovered.

Frequency and process of updating the EMPr

17. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 25 below, indicate insufficient mitigation of environmental impacts associated with the undertaking of the activity, or insufficient levels of compliance with the environmental authorisation or EMPr.
18. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
19. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of the EIA Regulations, 2014 as amended. The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.
20. In assessing whether to grant approval of an EMPr which has been updated because of an audit, the Department will consider the processes prescribed in Regulation 35 of the EIA Regulations, 2014 as amended. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.

21. The holder of the authorisation must apply for an amendment of an EMPr, if such amendment is required before an audit is required. The amendment process is prescribed in Regulation 37 of the EIA Regulations, 2014, as amended. The holder of the authorisation must request comments on the proposed amendments to the impact management outcomes of the EMPr or amendments to the closure objectives of the closure plan from potentially interested and affected parties, including the competent authority, by using any of the methods provided for in the Act for a period of at least 30 days.

Monitoring

22. The holder of the authorisation must appoint an experienced Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this environmental authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.
- 22.1. The ECO must be appointed before commencement of any authorised activities.
- 22.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department.
- 22.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
- 22.4. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.

Recording and reporting to the Department

23. All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this environmental authorisation, must be submitted to the *Director: Compliance Monitoring* of the Department.
24. The holder of the environmental authorisation must, for the period during which the environmental authorisation and EMPr remain valid, ensure that project compliance with the conditions of the environmental authorisation and the EMPr are audited, and that the audit reports are submitted to the *Director: Compliance Monitoring* of the Department.
25. The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, considering the processes for such auditing as prescribed in Regulation 34 of the EIA Regulations, 2014 as amended.

26. The holder of the authorisation must, in addition, submit environmental audit reports to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.
27. The environmental audit reports must be compiled in accordance with Appendix 7 of the EIA Regulations, 2014 as amended and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions as well as the requirements of the approved EMP.
28. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.

Notification to authorities

29. A written notification of commencement must be given to the Department no later than fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number.

Operation of the activity

30. A written notification of operation must be given to the Department no later than fourteen (14) days prior to the commencement of the activity operational phase.

Site closure and decommissioning

31. Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and Competent Authority at that time.

Specific conditions

32. The footprint of the development must be limited to the areas required for actual construction works and operational activities and must be clearly demarcated.
33. Should any archaeological sites, artefacts, paleontological fossils, or graves be exposed during construction work, work in the immediate vicinity of the find must be stopped, the South African Heritage Resources

Agency (SAHRA) must be informed and the services of an accredited heritage professional obtained for an assessment of the heritage resources.

34. All declared aliens must be identified and managed in accordance with the Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983).
35. No exotic plants must be used for rehabilitation purposes. Only indigenous plants of the area must be utilised.
36. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling and re-use options.
37. Where solid waste is disposed of, such disposal must only occur at a landfill licensed in terms of section 20(b) of the National Environment Management Waste Act, 2008 (Act 59 of 2008).

General

38. A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMP, must be made available for inspection and copying-
 - 38.1. at the site of the authorised activity;
 - 38.2. to anyone on request; and
 - 38.3. where the holder of the Environmental Authorisation has a website, on such publicly accessible website.
39. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the holder of the authorisation or his/her successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the holder of the authorisation with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of Environmental Authorisation: 07/04/2022



Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment

Annexure 1: Reasons for Decision

1. Information considered in making the decision

In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The listed activities as applied for in the amended application form received on 02 December 2021.
- b) The information contained in the EIAR dated December 2021.
- c) The comments received from the Western Cape Government: Transport and Public Works - Roads, Department of Forestry, Fisheries and the Environment: Biodiversity Conservation, Department of Water and Sanitation, Department of Forestry, Fisheries and the Environment: IEA, Western Cape: Department of Agriculture, Forestry and Fisheries (DAFF), Western Cape Government: DEA&DP, SAHRA, Heritage Western Cape Breede-Gouritz Catchment Management Agency (BGCMA), Central Karoo District Municipality, South African Civil Aviation Authority, Air Traffic Navigation Services (ATNS), South African National Roads Agency (SANRAL), BirdLife South Africa: Birds and Renewable Energy, AVIC International Flight Training Academy (Pty) Ltd and interested and affected parties as included in the EIAR dated December 2021.
- d) Mitigation measures as proposed in the EIAR and the EMPr dated December 2021.
- e) The information contained in the specialist studies contained within the appendices of the EIAR dated December 2021 and as appears below:

Title	Prepared by	Date
Terrestrial and Biodiversity and Species Impact Assessment	Ekotrust cc	16 October 2021
Agriculture and Soils Compliance Statement	Johann Lanz (Pr.Sci.Nat.)	September 2021
Aquatic Biodiversity Impact Assessment	Toni Belcher (Pr.Sci.Nat.)	September 2021
Avifauna Impact Assessment	Chris van Rooyen Consulting	September 2021
Bats Impact Assessment	Arcus Consultancy Services South Africa (Pty) Limited	July 2021
Social Economic Impact Assessment	SRK Consulting (South Africa) (Pty) Ltd	June 2021
Traffic Impact Assessment	JG Afrika (Pty) Ltd-	September 2021

Heritage Impact Assessment	ASHA Consulting (Pty) Ltd-	09 October 2021
Noise Impact Assessment	Dr Brett Williams	19 July 2021
Visual Impact Assessment	Bapela Cave Klapwijk Land Planning and Design	September 2021
Palaeontological Impact Assessment	Natura Viva cc	August 2021
Wet Loss Impact Assessment	ABO Wind Renewable Energy (Pty) Ltd.	05 May 2021

2. Key factors considered in making the decision

All information presented to the Department was considered in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The need for the proposed project ties in with the national government policies, plans, and programmes which have relevance to energy planning and production.
- c) The EIAR dated December 2021 identified all legislation and guidelines that have been considered in the preparation of the EIAR.
- d) The location of the proposed development
- e) The methodology used in assessing the potential impacts identified in the EIAR dated December 2021 and the specialist studies have been adequately indicated.
- f) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014 as amended for public involvement.

3. Findings

After consideration of the Information and factors listed above, the Department made the following findings -

- a) The identification and assessment of impacts are detailed in the EIAR dated December 2021 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.
- c) The information contained in the EIAR dated December 2021 is deemed to be accurate and credible.
- d) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- e) EMP measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the EIAR and will be implemented to manage the identified environmental impacts during the construction phase.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the authorised activities will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the authorised activities can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.

Annexure 2: Site Layout Map

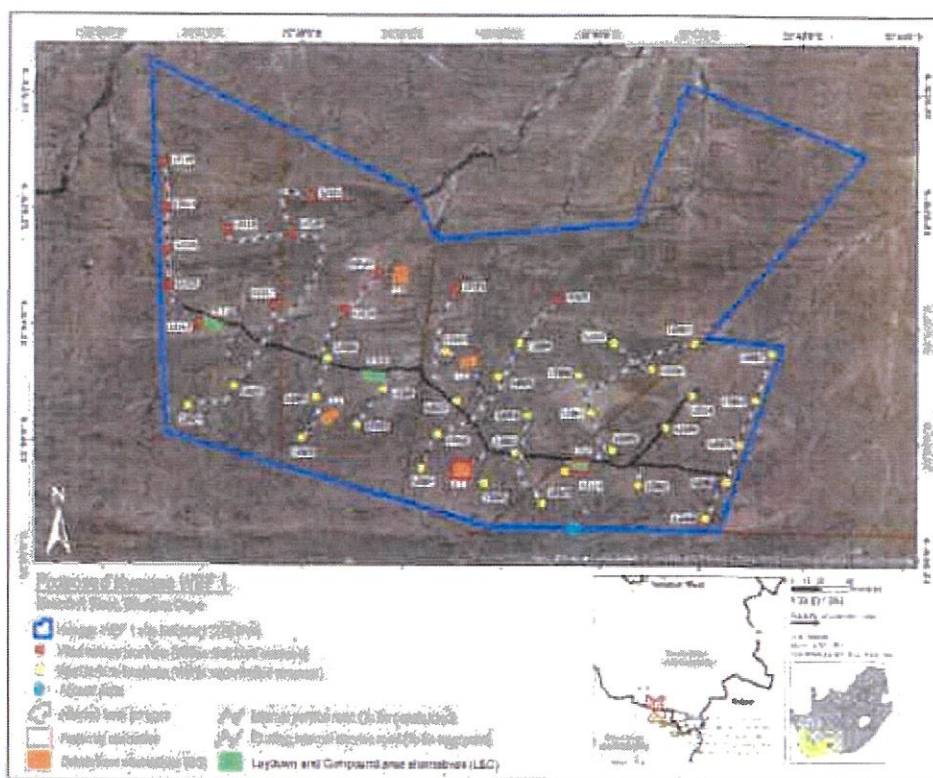


Figure 11.31: The refined and confirmed (the legend is for the proposed design) VFA project following the outcome of the Aviation Operational Impact Assessment. Turbine positions (coloured in yellow) are situated in 'sensitive and restricted airspace' and turbine positions (coloured in blue) are located in 'uncontrolled airspace'.

ANNEXURE I:

TRAFFIC IMPACT ASSESSMENT

Scoping and Environmental Impact Assessment for the Proposed
Development of the 279 MW Wind Energy Facility and associated
Infrastructure (i.e. Kwagga WEF 1), near Beaufort West, Western Cape

CHAPTER 16:

TRAFFIC IMPACT ASSESSMENT



TRANSPORT SPECIALIST ASSESSMENT:

**Scoping and Environmental Impact Assessment for the Proposed Development
of a 279 MW Wind Energy Facility (i.e. Kwagga Wind Energy Facility 1 (Pty)
Ltd), near Beaufort West, Western Cape Province**

TRAFFIC IMPACT ASSESSMENT REPORT

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OF A 279MW WIND ENERGY FACILITY (KWAGGA 1) NEAR BEAUFORT WEST IN THE WESTERN
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SYNOPSIS
Preparation of a Traffic Impact Assessment as part of the Scoping and Environmental Impact Assessment for the Proposed Development of a 279MW Wind Energy Facility (i.e. Kwagga Wind Energy Facility 1 (Pty) Ltd) near Beaufort West in the Western Cape, pertaining to all relevant traffic and transportation engineering aspects.

KEY WORDS:
Wind Energy Facility, Traffic Impact Assessment

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<p>QUALITY VERIFICATION</p> <p>This report has been prepared under the controls established by a quality management system that meets the requirements of ISO 9001: 2015 which has been independently certified by DEKRA Certification.</p>	
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Executive Summary

This Traffic Impact Assessment (TIA) was commissioned to assess the potential impact of activities related to the transportation of turbine components and associated infrastructure to the proposed Kwagga 1 Wind Energy Facility (WEF) site and traffic movement for the construction, operation and decommissioning phases of the proposed Kwagga 1 WEF.

The main potential traffic impacts will be during the construction and decommissioning phases where the delivery and decommissioning of the turbine components of the proposed WEF will generate significant traffic. The duration of these phases is short term, i.e. the impact of the traffic generated during the construction and decommissioning phases of the proposed WEF on the surrounding road network is temporary. The operational phase of the proposed WEF will not add any significant traffic to the road network.

Potential traffic generated by the construction of the proposed WEF will have a negative, albeit short-term, impact on the surrounding road network. Proposed mitigation measures during the construction phase include:

- The delivery of wind turbine components to the site can be staggered and trips can be scheduled to occur outside of peak traffic periods.
- Reduce the construction period.
- Stagger the construction of the turbines.
- The use of quarries in close proximity to the site would decrease the impact on the surrounding road network.
- The transportation of staff and general trips during the construction phase should occur outside of peak traffic periods.

The overall impact of each phase before and after mitigation measures are shown in the table below.

Phase	Before Mitigation	After Mitigation
	Overall Impact Significance	
Construction	Moderate	Low
Operational	Low	Very Low (Negligible)
Decommissioning	Moderate	Low
Nature of Impact	Overall Impact Significance	
Cumulative - Construction	Moderate	Low
Cumulative - Operational	Low	Very Low
Cumulative - Decommissioning	Moderate	Low

It should be noted that the substation footprint, laydown area, compound area and the BESS, from a traffic perspective, does not have any impact on the traffic volumes and the surrounding road network.

The proposed development of the WEF and associated infrastructure is supported from a transport perspective provided that the recommendations and mitigations contained in this report are adhered to.

The potential impacts associated with the proposed Kwagga 1 WEF and associated infrastructure are acceptable from a transport perspective and it is therefore recommended that the proposed facility can be authorised.

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FINAL TRAFFIC IMPACT ASSESSMENT

This report serves as the Final Traffic Impact Assessment that was prepared as part of the Scoping and Environmental Impact Assessment (EIA) for the proposed development of a 279 MW Wind Energy Facility i.e. Kwagga Wind Energy Facility 1 (Pty) Ltd, near Beaufort West, Western Cape Province.

1. Introduction

1.1. Scope, Purpose and Objectives of this Specialist Report

ABO Wind Renewable Energies (Pty) Ltd ("the Developer") is proposing to develop three Wind Energy Facilities (WEFs) and associated infrastructure near Beaufort West in the Western Cape Province, on behalf of three separate Project Applicants, namely:

- Kwagga 1 = Kwagga Wind Energy Facility 1 (Pty) Ltd (Reg. no. 2020/258426/07)
- Kwagga 2 = Kwagga Wind Energy Facility 2 (Pty) Ltd (Reg. no. 2020/429949/07)
- Kwagga 3 = Kwagga Wind Energy Facility 3 (Pty) Ltd (Reg. no. 2020/429978/07)

The individual WEFs will have a total installed capacity of 279 Megawatt (MW) (Kwagga 1), 341 MW (Kwagga 2) and 204.6 MW (Kwagga 3), respectively.

JG Afrika (Pty) Ltd was appointed by ABO Wind renewable energies (Pty) Ltd to conduct a Traffic Impact Assessment (TIA) for the proposed construction, operation and decommissioning phases of the **proposed Kwagga 1 WEF**. The TIA is to inform the Environmental Impact Assessment (EIA) which the EAP i.e. CSIR is undertaking for the proposed project on behalf of the Project Applicant.

The proposed grid infrastructure will be assessed at a later stage as part of a separate Basic Assessment process.

The main objective of this report is to prepare a TIA for the proposed Kwagga 1 WEF.

The following two main transportation activities will be investigated:

- Abnormal load vehicles transporting wind turbine components to the proposed project site.
- The transportation of construction materials, equipment and staff to and from the project site/facility.

The TIA will aim to identify and provide the following outcomes:

- Activities related to traffic movement for the construction, operation and decommissioning phases of the proposed WEF.
- Provide a main route for the transportation of the wind turbine components from the entry point at the Port of Ngqura in the Eastern Cape to the proposed project site in the Western Cape.
- Provide a preliminary transportation route for the transportation of materials, equipment and staff to and from the project site.
- Outline potential traffic impacts and recommend mitigation measures to manage traffic related impacts associated with the proposed WEF development.

1.2. Details of Specialist

This specialist assessment has been undertaken by Iris Wink of JG Afrika (Pty) Ltd, a professional engineer registered with the Engineering Council of South Africa (ECSA) (Registration No - 20110156). A curriculum vitae is included in Appendix A of this specialist assessment.

In addition, a signed specialist statement of Independence is included in Appendix B of this specialist assessment.

1.3. Terms of Reference

The Traffic Specialist is required to undertake a Specialist Assessment in adherence to Appendix 6 of the 2014 NEMA EIA Regulations, as amended, as well as to any other additional relevant legislation and guidelines that may be deemed necessary, if applicable.

As at March 2021, the National Web-Based Screening Tool does not include any sensitivity layers relating to traffic information; therefore, a Site Sensitivity Verification is technically not possible.

The specific Terms of Reference includes the following:

- Description of the identified traffic features including the surrounding road network and potential traffic disturbances of the local area;
- Assessment of the preferred project layout and how it relates to traffic impact;
- Specification of development setbacks or buffers required, and clear motivations for these recommendations;
- Identification and assessment of the potential direct, indirect and cumulative impacts of the proposed development on the receiving environment from a traffic perspective;
 - Cumulative impacts to be assessed by considering renewable energy projects and other applicable (and relevant) projects within 50 km of the proposed projects.
 - Impact significance must be rated both without and with mitigation, and must cover the construction, operational and decommissioning phases of the project.
- Determine the National and Local haulage routes between port of entry/manufacture and site;
- Determine the Trip generation for the proposed development during construction and operation;
- Assessment of proposed internal roads and site access points;
- Assessment of internal circulation of trucks and proposed roads layout with specific regard to turbine positions and turbine laydown areas;
- Assessment of freight requirements and permitting needed for abnormal loads;
- A description of assumptions and limitations in the report;
- An impact statement indicating the acceptability of the proposed development and a recommendation if the development should go ahead or not;
- Identification of any additional protocols, licensing and/or permitting requirements that are relevant to the project and the implications thereof;
- Specialist Declaration of Independence and Curriculum Vitae;
- Provide recommendations with regards to potential monitoring programmes; and
- Determine mitigation and/or management measures, which could be implemented to as far as possible, reduce the effect of negative impacts and enhance the effect of positive impacts. Also, identify best practice management actions, monitoring requirements, and rehabilitation guidelines for all identified impacts. This will be included in the EMP, which will be appended to the EIA Report.
- The Specialist is also required to:
 - Incorporate and address all relevant comments and concerns raised by the stakeholders, commenting authorities and I&APs prior to submitting the Final EIA Report to the Competent Authority for decision-making; and
 - Review the Generic EMP for Substations (GN R435) and confirm if there are any specific environmental sensitivities or attributes present on the project site and any resultant site-specific impact management outcomes and actions that are not included in the pre-approved

generic EMPr (Part B – Section 1). If so, a list of the required specific impact management outcomes and actions must be provided.

2. Approach and Methodology

The TIA identifies and assesses the potential traffic impacts on the surrounding road network in the vicinity of the site during the construction of the access roads, transportation and installation of the turbines on site during the operation and decommissioning phases of the proposed Kwagga 1 WEF.

The TIA included the following tasks:

Site Visit and Project Assessment

- Site Visit and initial meeting with the client to gain sound understanding of the project.
- Overview of project background information including location maps, component specifications and any resulting abnormal loads to be transported.
- Research of all available documentation and information relevant to the proposed WEF and associated infrastructure.

Traffic and Route Assessment

- Trip generation and potential traffic impact
- Possible haul routes between port of entry / manufacturing location and sites in regards of
 - National route
 - Local route
 - Site access route (internal roads)
 - Road limitations due to abnormal loads
- Construction and maintenance (operational) vehicle trips
 - Generated vehicles trips
 - Abnormal load trips
 - Access requirements
 - Possible damaging effects on road surface
 - Scheduling of transport (i.e. during night)
- Investigation of the impact of the development traffic generated during construction, operation and decommissioning phases of the project.

Access and Internal Roads Assessment

- Assessment of the proposed access points including:
 - Feasible location of access points
 - Motorised and non-motorised access requirements
 - Queuing analysis and stacking requirements, if required
 - Access geometry
 - Sight distances and required access spacing
- High-level input into the proposed internal roads on site
- High-level input into the internal circulation of trucks and proposed roads layout regarding turbine positions and turbine laydown areas.

Report

- Reporting on all findings and preparation of the report.
- Potential impacts identified in this specialist study have been assessed based on the criteria and methodology outlined in Appendix D of this assessment.
- The report structure will be in line with the report template provided by CSIR.

2.1. Information Sources

Information used in a transport study includes:

- Project Information provided by the Client and report template provided by the CSIR.
- Google Earth .kmz provided by the Client.
- Google Earth Satellite Imagery.
- TRH11, Dimensional and mass limitations and other requirements for abnormal loads, August 2009.
- The Technical Recommendations for Highways (TRH 11): "Draft Guidelines for Granting of Exemption Permits for the Conveyance of Abnormal Loads and for other Events on Public Roads", 2000.
- National Road Traffic Act, Act 93 of 1996.
- National Road Traffic Regulations, 2000.
- National Department of Transport (NDoT), Manual for Traffic Impact Studies, October 2005.
- Department of Transport (DoT), Geometric Design of Rural Roads, 1988.
- SANS 10280/NRS 041-1:2008 Overhead Power Lines for Conditions Prevailing in South Africa.

2.2. Assumptions, Knowledge Gaps and Limitations

The following assumptions and limitations apply:

- This study is based on the project information provided by the Client.
- According to the Eskom Specifications for Power Transformers, the following dimensional limitations need to be kept when transporting the transformer – total maximum height 5 000 mm, total maximum width 4 300 mm and total maximum length 10 500 mm.
- Maximum vertical height clearances along the haulage route is 5.2 m for abnormal loads.
- The imported elements will be transported from the most feasible port of entry, which is deemed to be Port of Ngqura in the Eastern Cape. It is expected that the inverter will be imported and shipped.
- All haulage trips will occur on either surfaced national and provincial roads or existing gravel roads.
- Material for the construction of internal access roads will be sourced locally as far as possible.
- Cumulative impacts are assessed by adding expected impacts from this proposed development to existing and proposed developments with similar impacts in a 50 km radius. The existing and proposed developments that were taken into consideration for cumulative impacts are listed in Section 6.3 of this report.

2.3. Consultation Processes Undertaken

None

3. Description of Project Aspects relevant to the TIA

3.1 Port of Entry

It is assumed that the wind turbine components will be imported to South Africa via the Port of Ngqura, which is located near Port Elizabeth in the Eastern Cape. The Port of Ngqura is a world-class deep-water transshipment hub offering an integrated, efficient and competitive port service for containers on transit. The Port forms part of the Coega Industrial Development Zone (CIDZ) and is operated by Transnet National Ports Authority.

3.2 Selected Candidate Turbine

The possible range of wind turbines varies largely with various wind turbine manufacturers operating worldwide. The project information states that a turbine with a hub height of up to 180 m and a rotor diameter of up to 200 m is to be considered.

Each turbine will have an output of approximately 10 MW and will have a footprint of approximately 1 ha (which includes the crane pad).

In general, each turbine unit consists of a tower, a nacelle (final weight dependent on the supplier and whether the nacelle has gears or not) and rotor blades.

3.3 Transportation requirements

3.3.1 Abnormal Load Considerations

Abnormal permits are required for vehicles exceeding the following permissible maximum dimensions on road freight transport in terms of the National Road Traffic Act, 1996 (Act No. 93 of 1996):

- Length: 22 m for an interlink, 18.5 m for truck and trailer and 13.5 m for a single unit truck
- Width: 2.6 m.
- Height: 4.3 m measured from the ground. Possible height of load – 2.7 m.
- Weight: Gross vehicle mass of 56 tonnes resulting in a payload of approximately 30 tonnes.
- Axle unit limitations: 18 tonnes for dual and 24 tonnes for triple-axle units.
- Axle load limitation: 7.7 tonnes front axle and 9 tonnes single or rear axles.

Any dimension / mass outside the above specifications will be classified as an Abnormal Load and will necessitate an application to the Department of Transport and Public Works to obtain a permit, which will authorise the conveyance of said load. A permit is required for each Province that the haulage route traverses.

3.3.2 Further Guideline Documentation

The Technical Recommendations for Highways (TRH 11): "Draft Guidelines for Granting of Exemption Permits for the Conveyance of Abnormal Loads and for other Events on Public Roads" outline the rules and conditions that apply to the transportation of abnormal loads and vehicles on public roads and the detailed procedures to be followed in applying for exemption permits are described and discussed.

Legal axle load limits and the restrictions imposed on abnormally heavy loads are discussed in relation to the damaging effect on road pavements, bridges and culverts.

The general conditions, limitations and escort requirements for abnormally dimensioned loads and vehicles are also discussed and reference is made to speed restrictions, power/mass ratio, mass distribution and general operating conditions for abnormal loads and vehicles. Provision is also made for the granting of permits for all other exemptions from the requirements of the Road Traffic Act and the relevant regulations.

3.3.3 Permitting – General Rules

The limits recommended in TRH 11 are intended to serve as a guide to the Permit Issuing Authorities. It must be noted that each Administration has the right to refuse a permit application or to modify the conditions under which a permit is granted. It is understood that:

- a) A permit is issued at the sole discretion of the Permitting Authority. The permit may be refused because of the condition of the road, the culverts and bridges, the nature of other traffic on the road, abnormal heavy traffic during certain periods or for any other reason.
- b) A permit can be withdrawn if the vehicle upon inspection is found in any way not fit to be operated.
- c) During certain periods, such as school holidays or long weekends an embargo may be placed on the issuing of permits. Embargo lists are compiled annually and are obtainable from the Permitting Authorities.

3.3.4 Load Limitations

The maximum load that a vehicle or combination of vehicles will be allowed to carry legally under permit on a public road is limited by:

- the capacity of the vehicles as rated by the manufacturer;
- the load which may be carried by the tyres;
- the damaging effect on pavements;
- the structural capacity on bridges and culverts;
- the power of the prime mover(s);
- the load imposed by the driving axles; and
- the load imposed by the steering axles.

3.3.5 Dimensional Limitations

A load of abnormal dimensions may cause an obstruction and danger to other traffic. For this reason, all loads must, as far as possible, conform to the legal dimensions. Permits will only be considered for indivisible loads, i.e. loads that cannot, without disproportionate effort, expense or risk of damage, be divided into two or more loads for the purpose of transport on public roads. For each of the characteristics below there is a legally permissible limit of what is allowed under permit.

- Width
- Height
- Length
- Front Overhang
- Rear Overhang
- Front Load Projection

- Rear Load Projection
- Wheelbase
- Turning Radius
- Stability of Loaded Vehicles

3.4 Transporting Wind Turbine Components

Wind turbine components can be transported in a number of ways with different truck / trailer combinations and configurations, which will need to be investigated at a later stage when the transporting contractor and the plant hire companies apply for the necessary permits from the Permit Issuing Authorities.

3.4.1 Nacelle

The heaviest component of a wind turbine is the Nacelle (approximately 100 tonnes depending on manufacturer and design of the unit). Combined with road-based transport, it has a total vehicle mass of approximately 145 000 kg for a 100 tonnes unit. Thus, route clearances and permits will be required for transporting the Nacelle by road-based transport (see example of a road-based transport below). The unit will require a minimum height clearance of 5.1 m.

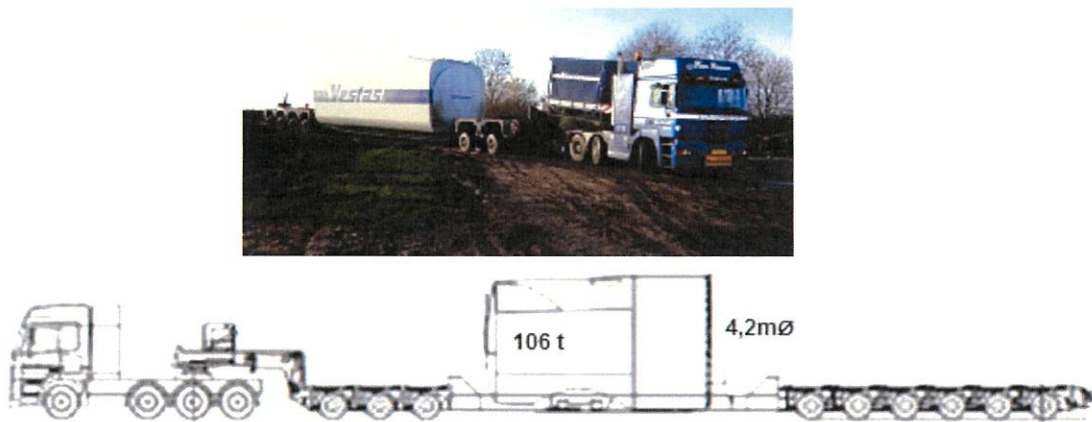


Figure 1: Example: The transportation of the Nacelle

3.4.2 Blades

These are the longest and possibly most vulnerable components of a wind turbine and hence needs to be transported with utmost care. The blades need to be transported on an extendible blade transport trailer or in a rigid container with rear steerable dollies. The blades can be transported individually, in pairs or in three's; although different manufacturers have different methods of packaging and transporting the blades. The transport vehicle exceeds the dimensional limitation (length) of 22 m and will only be allowed under permit, provided the trailer is fitted with steerable rear axles or dollies.



Figure 2: Example: The transportation of 3 x 45 m wind turbine blades on extendible trailers

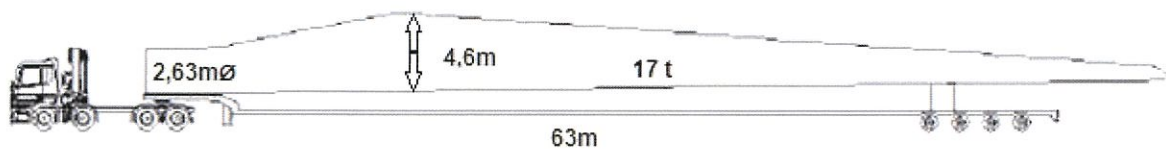


Figure 3: Example: Transportation of a wind turbine blade

Due to the abnormal length of the blades, special attention needs to be given to the route planning, especially to suitable turning radii and adequate sweep clearance. Therefore, vegetation or road signage may have to be removed before transport. Once transported to site, the blades need to be carefully stored in their respective laydown areas before being installed onto the rotary hub.

3.4.3 Tower Sections

Tower sections generally consist of sections of around 20 m in length and hence the number of tower sections required depends on the selected hub height. For a hub height of up to 180 m, it is assumed that nine (9) tower sections are required. Each section is transported separately on a low-bed trailer. Depending on the trailer configuration and height when loaded, some of these components may not meet the dimensional limitations (height and width) but will be permitted under certain permit conditions (see examples below).



Figure 4: Example: Transportation of the Tower Sections

3.4.4 Turbine Hub and Rotary Units

These components need to be transported separately, due to their significant weights - a hub unit weighs around 45 tonnes and the rotary unit weighs over 90 tonnes.

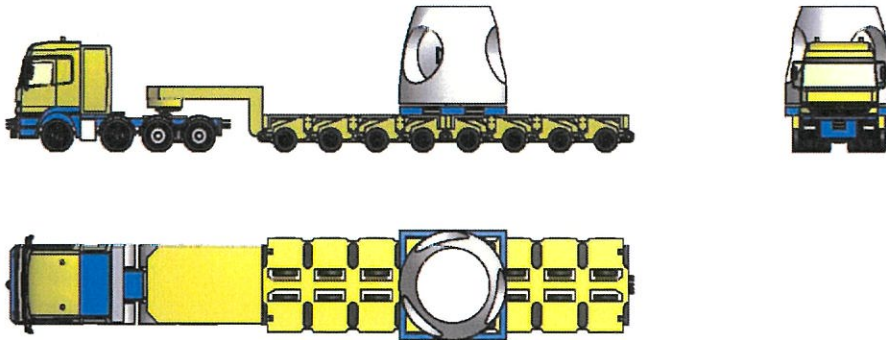


Figure 5: Illustration of the Hub and Rotary Units transportation.

3.5 Transporting Cranes, Mobile Crane and other Components

This technology has developed fairly rapidly, and a number of different heavy lifting options are available on the market. Costs involved to hire cranes vary and hence should be compared beforehand. For the purpose of this assessment, some possible crane options are outlined as follow.

3.5.1 Cranes for Assembly and Erection on Site

Option 1: Crawler Crane & Assembly Crane

One possible option is that the main lift crane that would be capable of performing the required lifts, i.e. lifting the tower sections into position, lifting the Nacelle to the hub height and lifting the Rotor and Blades into place, needs to be similar to the Liebherr Crawler Crane LR1750 with a SL8HS (Main Boom and Auxiliary Jib) configuration. A smaller 200 tonnes Liebherr Mobile Crane LTM 1200-5.1 is also required to lift the components and assist in the assembly of the crawler crane at each turbine location.

- **Crawler Crane LR1750 with the SL8HS boom system (Main Lifting Crane):**

The Crawler Crane will be transported to site in components and the heaviest load will be the superstructure and crawler centre section (83 tonnes). The gross combination mass (truck, trailer and load) will be approximately 133 000 kg. The boom sections, counterweights and other equipment will be transported on conventional tri-axle trailers and then assembled on site. It will require a number of truckloads of components to be delivered for assembly of the Crawler Crane before it can be mobilised to perform the heavy lifts.

- **Mobile Crane LTM 1200-5.1 (Assembly Crane):**

The Liebherr LTM 1200-5.1 crane is a five-axle vehicle with rubber tyres, which will travel to site on its own. However, the counterweights will be transported on conventional tri-axle trailers and then assembled on site. The assembly crane is required to assemble the main lift crane as well as assist in the installation of the wind turbine components.

Option 2: GTK 1100 Crane & Assembly Crane

For the single wind turbine located at Coega in the Eastern Cape, the GTK 1100 hydraulic crane was used (see example in **Figure 6** below). The GTK 1100 was designed to lift ultra-heavy loads to extreme heights and its potential lies in being deployed on facilities such as wind turbine farms.



Figure 6: Example of cranes at work to erect the single turbine at Coega in the Eastern Cape

- **Mobile Crane LTM 1200-5.1 (Assembly Crane):**

As above - a smaller 200 tonnes Liebherr Mobile Crane LTM 1200-5.1 is also required to lift the components and assist in the assembly of the hydraulic crane at each turbine location.

3.5.2 Cranes at Port of Entry

Most shipping vessels importing the turbine components will be equipped with on-board cranes to do all the safe off-loading of WTG components to the abnormal transport vehicles, parked adjacent to the shipping vessels.



Figure 7: Example: cranes parked adjacent to the ship at the Port of Entry

The imported turbine components may be transported from the Port of Entry to the nearby turbine laydown area. Mobile cranes will be required at these turbine laydown areas to position the respective components at their temporary storage location.

3.6 Transporting Other Plant, Material and Equipment

In addition to transporting the wind turbine components and specialised lifting equipment, the normal Civil Engineering construction materials, plant and equipment will need to be brought to the site (e.g. sand, stone, cement, concrete batching plant, gravel for road building purposes, excavators, trucks, graders, compaction equipment, cement mixers, transformers in the sub-station, cabling, transmission pylons etc.). Other components, such as electrical cables, pylons and substation transformers, will also be transported to site during construction. The transportation of these items will generally be conducted with normal heavy loads vehicles.

4. Baseline Environmental Description

4.1. General Description

The proposed Kwagga 1 WEF and associated infrastructure will be located approximately 60 km south of Beaufort West and approximately 66 km north-east of Prince Albert in the Western Cape, as shown in **Figure 8**. The proposed site can be accessed via the N12, which is situated to the west of the site, and the Rietbron bound public access gravel road (shown in **Figure 9**), located to the south of the site.

The N12 is a surfaced national road and connects Oudtshoorn (and other towns to the south) to Beaufort West and the N1 in the north. The public gravel road is a well-maintained gravel road with widths ranging between 6 m and 8m. The environment can be described as rural, characterised by rolling terrain with level sections.

At present, traffic volumes (and associated dust and noise pollution) are very low on the surrounding gravel roads.

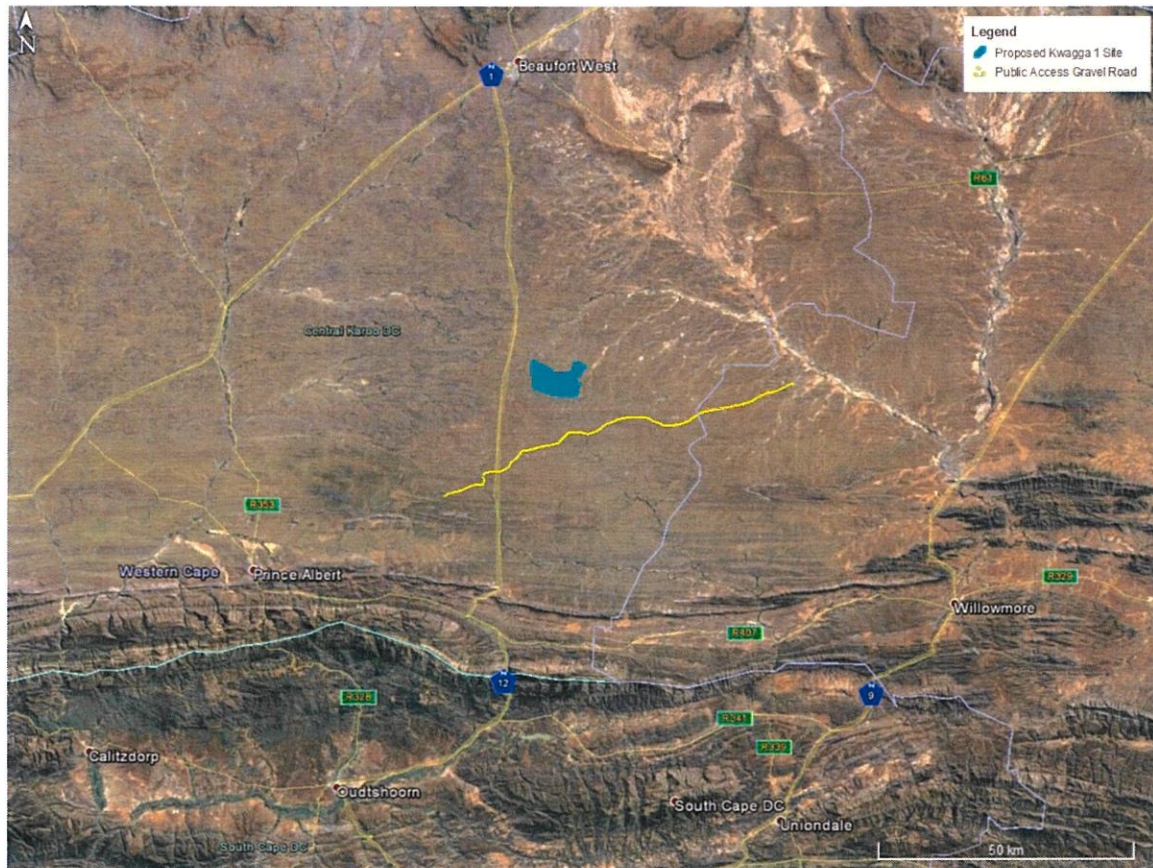


Figure 8: Locality Plan



Figure 9: Rietbron-bound public access gravel road

4.2. Project Specific Description

The proposed Kwagga 1 WEF will comprise 45 turbines and have a total installed generation capacity of up to 279 MW. The proposed WEF will be located on the following farm portions:

Table 1: Kwagga 1 farm portions

WEF	Farm portion	S/G code
Kwagga 1	Remainder of the Farm Dwaalfontein Wes No. 377	C00900000000037700000
	Portion 3 of the Farm Tyger Poort No. 376	C00900000000037600003
	Portion 1 of the Farm Dwaalfontein Wes No. 377	C00900000000037700001
	Remainder of the Farm Dwaalfontein No. 379	C00900000000037900000

The proposed Kwagga 1 WEF and associated infrastructure include the following components:

- Will comprise 45 turbines and have a total installed generation capacity of up to 279 MW (each turbine will have an output of approximately 10 MW).
- Turbines with a hub height of up to 180 m and a rotor diameter of up to 200 m.
- Each turbine will have a footprint of approximately 1 ha (which includes the crane pad). The temporary hardstand areas and construction period laydown areas cover approximately 15 ha and 6 ha, respectively
- Offices, operational and maintenance (O&M) control centre, ablution facilities and guard houses;

- Site offices will comprise of two-stacked containers and will cover a footprint of approximately 1 ha.
 - The height of the O&M buildings will be turbine-manufacturer specific and cover a footprint of approximately 1 ha.
- A single substation comprising the IPP portion and the Eskom switching yard which will make use of a 33/132 kV transformer.
- A collection station.
- Battery energy storage system - The BESS will cover an area of approximately 5 ha, have a maximum height of 8 m and have a capacity of 500 MW/500 MWh.
- Associated infrastructure
 - Internal roads with a width of up to 10 m providing access to each turbine and accommodating cable trenches and stormwater channels, as required. Existing roads will be upgraded wherever possible, although new roads will be constructed where necessary.
 - The on-site internal electrical transmission and/or distribution grid with a capacity of 33 kV will follow the servitude of internal access roads. These transmission/distribution lines will preferably be underground, installed at a minimum depth of approximately 1 m below ground surface,
 - The building- and substation infrastructure at the WEF will be fenced. The fence specifications will be confirmed during the detailed design phase.

4.2.1. National Route to Site

The most suitable port of entry is the Port of Ngqura, which is located approximately 370 km travel distance from the proposed Kwagga 1 WEF site.

The preferred route for vehicles will be from the Port, heading west on the R334 towards Uitenhage. The route then follows the R75 and the R329 to Willowmore. At Willowmore, the route follows the N9 north, turning left at the R332 towards Rietbron. At Rietbron, vehicles will access the public gravel road, which leads to the access road to the site. The preferred route from the Port to the access road of the proposed site is shown in **Figure 10** below.



Figure 10: Preferred Route from the Port to the Site

It is critical to ensure that the abnormal load vehicle will be able to move safely and without obstruction along the preferred route. The preferred route should be surveyed to identify potential problem areas, e.g. intersections with limited turning radii and sections of the road with sharp horizontal curves or steep gradients that may require modification. After the road modifications have been implemented, it is recommended that a “dry-run” be undertaken with the largest abnormal load vehicle, prior to the transportation of any turbine components, to ensure that the delivery of the turbines will occur without disruptions.

It needs to be ensured that the gravel sections of the haulage routes remain in good condition and will need to be maintained during the additional loading of the construction phase and reinstated after construction is completed.

4.2.2. Proposed Main Route to the Site

The main route to the site will be via the public gravel road, located between the N12 and Rietbron. It should be noted that due to the rolling nature of the terrain, ground clearances should be confirmed during a test run of the road (also referred to as a “dry run”) to ensure that the undercarriage of the vehicles are not damaged or get stuck.



Figure 11: Proposed Main Route to the Site – aerial view



Figure 12: Proposed Main Route to the Site

4.2.3. Proposed Main Access Road to the Site

The proposed site layout indicates that the main access point (shown as Access Point 1 in **Figure 13**) to the proposed Kwagga 1 WEF site will be located on the southern boundary of the site. A new road (shown in green) will be constructed to connect the proposed site to an existing farm road (shown in orange), as shown in the **Figure 13**. The alignment of the new road is to follow existing gravel roads and tracks as far as possible.

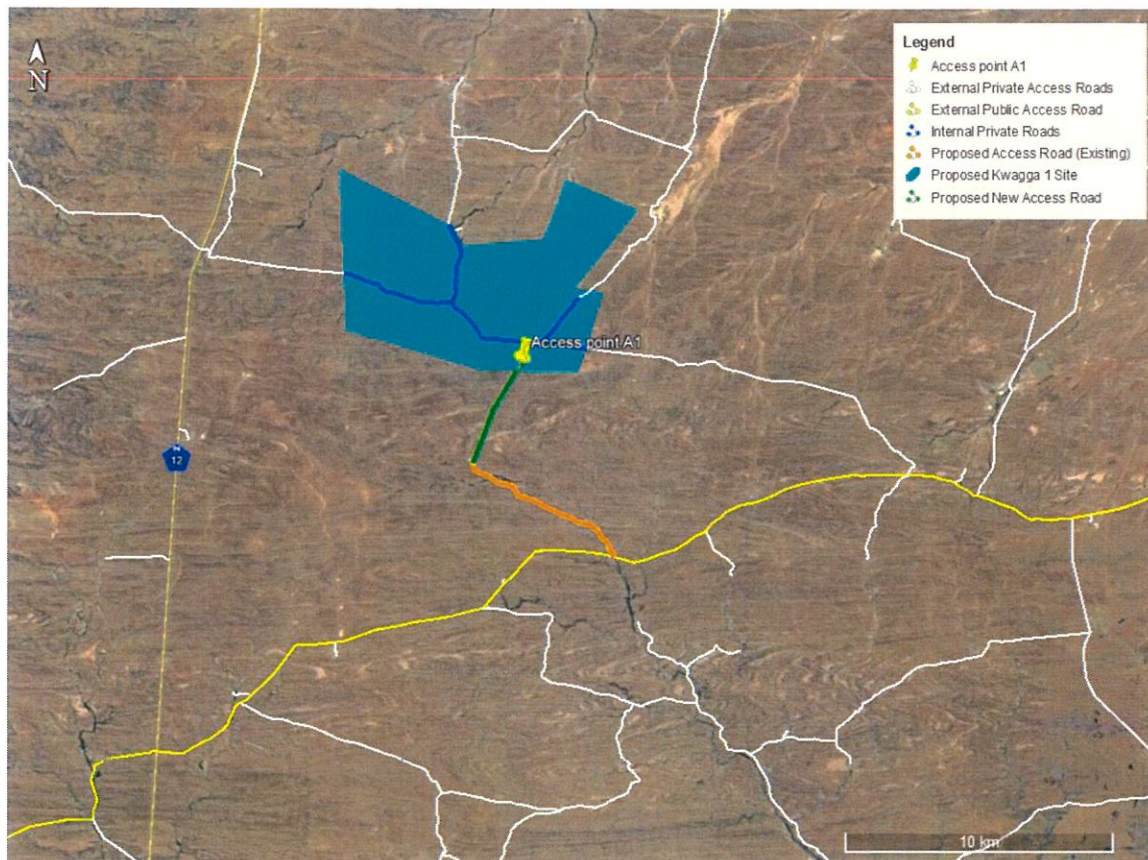


Figure 13: Proposed Access Points

4.2.4. Internal Roads

The proposed Kwagga 1 WEF will comprise existing and new internal gravel roads to provide access to the turbines.

Internal roads will link the proposed main internal roads, shown in blue in **Figure 14**, to the turbines. The current road width ranges between 6 m and 8 m; however, the width of these access roads will be increased to a width of up to 10 m. The length of internal road network will be approximately 45 km.

A minimum required road width of 4 meters needs to be kept and all turning radii must conform with the specifications needed for the abnormal load vehicles and haulage vehicles. Turning radii will be dependent on the size of the abnormal load vehicle and the size of the component being transported. It needs to be ensured that the gravel sections of the haulage routes remain in good condition and will hence need to be maintained during the additional loading of the construction phase and then reinstated

after construction is complete. The gravel roads will require grading with a road grader to obtain a flat even surface and the geometric design of these gravel roads needs to be confirmed at the detailed design stage. The road designer should take cognizance that roads need to be designed with smooth, relatively flat gradients to allow an abnormal load vehicle to ascend to the top of a hill.

It should be noted that any overhead lines (e.g. Eskom power lines) along the gravel road will have to be moved to accommodate the abnormal load vehicles.

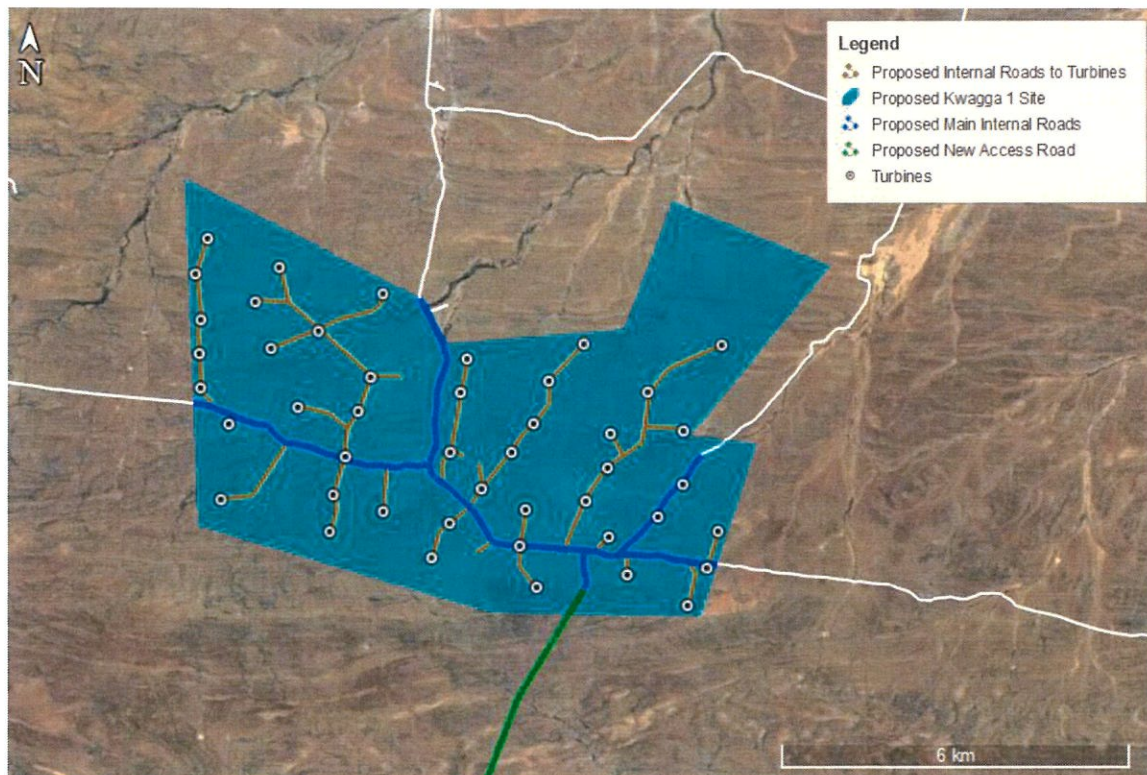


Figure 14: Internal Roads

4.2.5. Main Route for the Transportation of Materials, Plant and Staff to the proposed WEF

The nearest towns in relation to the proposed Kwagga 1 WEF site are Beaufort West, Klaarstroom, Prince Albert, Willowmore and Oudtshoorn. Beaufort West is situated within 80 km travel distance from the proposed Kwagga 1 WEF. Prince Albert is located within 111 km, Willowmore within 120 km and Oudtshoorn within 129 km travel distance from the proposed WEF, respectively. The main route linking Beaufort West to the proposed WEF is the N12. It is envisaged that the majority of materials, plant and labour will be sourced from Beaufort West (other towns might serve as alternatives) and transported to the proposed WEF site via the N12.

Should concrete batch plants or quarries not be available in the surrounding areas, mobile concrete batch plants and temporary construction material stockpile yards could be commissioned on vacant land near the proposed WEF site. Delivery of materials to the mobile batch plant and the stockpile yard could be staggered to minimise traffic disruptions.

4.3. Identification of Environmental Sensitivities

4.3.1. Sensitivities identified by the National Web-Based Environmental Screening Tool

It is important to note that there are no traffic themes on the National Web-based Environmental Screening Tool (Screening Tool) (as at March 2021), therefore the environmental sensitivity of the proposed project area as identified by the Screening Tool is not applicable. Therefore, no site sensitivity verification report is required.

However, prior to commencing with the specialist assessment in accordance with Appendix 6 of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) Environmental Impact Assessment (EIA) Regulations of 2014, a site visit was undertaken in order to confirm the current land use.

The following was observed during the site visit:

- The environment can be described as rural, characterised by rolling terrain with level sections. The current land use is farming (livestock/game).
- The Rietbron-bound public gravel road is a well-maintained gravel road with widths ranging between 6 m and 8 m.
- At present, traffic volumes (and associated dust and noise pollution) are very low on the surrounding gravel roads.

5. Issues, Risks and Impacts

5.1. Identification of Potential Impacts/Risks

The potential traffic related impacts identified during the S&EIA are:

Construction Phase

- Potential impact 1 – Increase in Traffic
 - Increased traffic due to the construction of the proposed WEF and associated infrastructure including the transportation of turbine components to site; and
 - The increased traffic due to the construction activities would lead to noise and dust pollution;

Operational Phase

During operation, it is expected that staff, including security personnel, will periodically visit the turbines. It is assumed that a maximum of thirty (30) full-time employees will be stationed on site. The traffic generated during this phase will be minimal and will not have an impact on the surrounding road network.

Decommissioning Phase

- Potential impact 2
 - Construction related traffic; and
 - Noise and dust pollution.

Cumulative Impacts

- Cumulative impact 1
 - Traffic congestion/delays on the surrounding road network; and
 - Noise and dust pollution.

6. Impact Assessment

6.1. Potential Impacts during the Construction Phase

6.1.1. Impact 1: Potential traffic congestion and delays on the surrounding road network and associated noise and dust pollution.

- *Significance of impact without mitigation measures*
 - Traffic generated by the construction of the proposed WEF will have an impact of moderate significance on the surrounding road network before mitigation measures are implemented. The exact number of trips generated during construction will be determined by the haulage company transporting the components to site, the turbine model, the staff requirements and where equipment is sourced from.

- *Construction Traffic Trip Generation*

For the transportation of the turbines to the proposed WEF site, it was assumed that the turbine blades will be transported to site individually.

Consequently, for each steel wind turbine three (3) abnormal loads will be required for the blades, nine (9) abnormal loads for the tower sections (20 m sections) and another abnormal load for the nacelle. All further components will be transported with normal limitations haulage vehicles. With approximately 13 abnormal load trips (3 trips for blades, 9 trips for tower sections and 1 trip for the nacelle), the total trips to deliver the components of 45 turbines to the proposed WEF site will be approximately 585 trips (13 trips x 45 turbines). This would amount to less than 2 (two) vehicle trips per day (585 trips / 24 months / 22 working days per month) for a typical construction period of 24 months. Should the construction period be 18 months, the vehicle trips would amount to less than 3 trips per day.

Should concrete tower sections be considered, these sections are typically delivered in 2-4 precast segments, which are then assembled on-site to form the respective tower section of approximately 20 m. It was assumed that the first 140 m sections will be precast in four segments each (140 m / 20 m sections x 4 segments = 28) and the last 40 m sections in two segments each (40 m / 20 m sections x 2 segments = 4). The total number of abnormal load trips for a concrete turbine is approximately 32 trips. The total trips to deliver the components of 45 turbines to the WEF site will be around 1 440 trips (32 trips x 45 turbines). This would amount to approximately 2.7 vehicle trips per day (1 440 trips / 24 months / 22 working days per month) for a typical construction period of 24 months. Should the construction period be 18 months, the vehicle trips would amount to less than 4 trips per day.

The constructions of roads and concrete foundations for the turbines will also have a significant impact on the surrounding road network as vehicles deliver materials to the site. A concrete foundation (approximately 600 m³) adds over 100 trips by concrete trucks to the surrounding road network. For 45 turbines, the trips for foundations would amount to 4 500. This would amount to 8.5 trips per day for a 24-month construction period and 11.4 trips per day for an 18-month construction period, respectively. However, a concrete batch plant is proposed to be located on the site.

Approximately 8 333 kL of water will be used on a monthly basis over a period of 12 months during the construction phase. This is based on about 60 000 kL of water for construction, 5 000 kL for the batching plant and 35 000 kL for roads and earthworks. Assuming 10 000 L water bowser trucks are used to transport the water, this would amount to 38 trips per day (8 333 KL / 10 000 L / 22 working days).

The proposed Kwagga 1 WEF will create an estimated 400 employment opportunities. The following assumptions are made:

- 300 employees to be transported by bus or minibus taxi. Assuming 80-seater buses are used to transport 300 employees, this would amount to 3.3 trips. Minibus taxis (15-seater) would amount to 20 trips.
- 50 employees will travel by car (single occupant) i.e. 50 trips.
- The remaining 50 will rideshare. Assume 30 trips.

The significance of the transport impact without mitigation measures during the construction and decommissioning phases can be rated as high. However, considering that this is temporary and short term in nature, the impact can be mitigated to an acceptable level.

- *Proposed mitigation measures*

- o The delivery of wind turbine components to the site can be staggered and trips can be scheduled to occur outside of peak traffic periods.
- o Dust suppression of gravel roads during the construction and decommissioning phases, as required.
- o Regular maintenance of gravel roads by the Contractor during the construction and decommissioning phases.
- o The use of quarries near the site would decrease the impact on the surrounding road network.
- o Staff and general trips should occur outside of peak traffic periods as far as possible.
- o Any low hanging overhead power lines (lower than 5.1 m) e.g. Eskom and Telkom lines, along the proposed routes will have to be moved to accommodate the abnormal load vehicles.
- o Investigate alternative water supply sources.
- o The preferred route should be surveyed to identify problem areas e.g. intersections with limited turning radii and sections of the road with sharp horizontal curves or steep gradients that may require modification. After the road modifications have been implemented, it is recommended to undertake a "dry-run" with the largest abnormal load vehicle, prior to the transportation of any turbine components, to ensure that the delivery of the turbines will occur without disruptions. This process is to be undertaken by the haulage company transporting the components and the contractor, who will modify the road and intersections to accommodate abnormal vehicles. It needs to be ensured that the gravel sections of the haulage routes remain in good condition and will need to be maintained during the additional loading of the construction phase and reinstated after construction is completed.
- o Design and maintenance of internal roads. The internal gravel roads will require grading with a road grader to obtain a flat even surface and the geometric design of these gravel roads needs to be confirmed at detailed design stage. This process is to be undertaken by a civil engineering consultant or a geometric design professional. The road designer should take cognizance of roads need to be designed with smooth, relatively flat gradients to allow an abnormal load vehicle to ascend to the top of a hill.

- *Significance of impact with mitigation measures*

The proposed mitigation measures for the construction traffic will result in a minor reduction of the impact on the surrounding road network, but the impact on the local traffic will remain moderate as the existing traffic volumes are deemed to be low. The dust suppression, however, will significantly reduce the impact.

6.1.2. Impact Summary Table: Construction Phase

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Table 2: Impact Summary Table: Construction Phase

Impact	Impact Criteria		Significance and Ranking (Pre Mitigation)	Potential mitigation measures	Significance and Ranking (Post-Mitigation)	Confidence Level
CONSTRUCTION PHASE						
Increase in Traffic due to construction activities	Status	Negative	Moderate - 3	<ul style="list-style-type: none">- Stagger turbine component delivery to site- Reduce the construction period- Stagger the construction of the turbines- The use of quarries in close proximity to the site would decrease the impact on the surrounding road network.- Staff and general trips should occur outside of peak traffic periods- Maintenance of haulage routes.- Design and maintenance of internal roads.	Low - 4	Medium
	Spatial Extent	Regional				
	Duration	Medium term				
	Consequence	Substantial				
	Probability	Very Likely				
	Reversibility	High				
	Irreplaceability	Replaceable				

6.2. Potential Impacts during the Operational Phase

The traffic generated during this phase will be minimal and will not have an impact on the surrounding road network.

6.2. Potential Impacts during the Decommissioning Phase

The decommissioning phase will result in the same potential impact as the Construction Phase as similar trips are expected.

6.2.1. Impact 1: Potential traffic congestion and delays on the surrounding road network and associated noise and dust pollution.

6.2.2. Impact Summary Table: Decommissioning Phase

Table 3: Impact Summary Table: Decommissioning Phase

Table 3: Impact Summary Table: Decommissioning Phase						
Impact	Impact Criteria		Significance and Ranking (Pre-Mitigation)	Potential mitigation measures	Significance and Ranking (Post-Mitigation)	Confidence Level
CONSTRUCTION PHASE						
Increase in Traffic due to	Status	Negative	Moderate - 3	- Stagger turbine component delivery to site	Low - 4	Medium
	Spatial Extent	Regional				
	Duration	Medium term				

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construction activities	Consequence	Substantial		<ul style="list-style-type: none"> - Reduce the construction period - Stagger the construction of the turbines - The use of quarries in close proximity to the site would decrease the impact on the surrounding road network. - Staff and general trips should occur outside of peak traffic periods - Maintenance of haulage routes. - Design and maintenance of internal roads. 		
	Probability	Very Likely				
	Reversibility	High				
	Irreplaceability	Replaceable				

6.3. Cumulative Impacts

To assess the cumulative impact, it was assumed that all wind farms within a 50 km radius currently proposed and authorized, would be constructed at the same time. This is the precautionary approach as in reality; these projects would be subject to a highly competitive bidding process and not all the projects may be selected to enter into a Power Purchase Agreement with Eskom. The proposed renewable energy projects within a 50 km radius of the proposed Kwagga 1 WEF are listed **Table 4**. Even if all the facilities are constructed and/or decommissioned at the same time, the roads authority will consider all applications for abnormal loads and work with all project companies to ensure that loads on the public roads are staggered and staged to ensure that the impact will be acceptable.

The construction and decommissioning phases of a WEF are the only significant traffic generators. The duration of these phases is short term i.e. the potential impact of the traffic generated during the construction and decommissioning phases of the proposed Kwagga 1 WEF on the surrounding road network is temporary and WEFs, when operational, do not add any significant traffic to the road network.

Table 4: Proposed renewable energy projects within 50 km of the proposed projects that will be considered in the Cumulative Impact Assessment (Source: DFFE REEA, 2021)

DFFE REFERENCE	EA PROCESS	PROJECT TITLE	APPLICANT	EAP	PROVINCE	TECHNOLOGY	MW	STATUS
12/12/20/1784	S&EIA (and Amendments)	Proposed development of 170 MW Wind and Photovoltaic (PV) Energy Facility near Beaufort West in the Prince Albert local Municipality, Western Cape Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	Environmental Resource Management (Pty) Ltd SIVEST Environmental Division Council for Scientific and Industrial Research (CSIR)	Western Cape	Onshore Wind	Wind-120 MW Solar PV-50 MW	Approved
12/12/20/1784/AM1								
12/12/20/1784/AM2								
12/12/20/1784/AM3								
12/12/20/1784/AM4								
12/12/20/1784/AM5								
12/12/20/1784/1	Environmental Authorisation (EA) Amendment Assessment	Proposed Development of the 140 MW Beaufort West Wind Farm in the Prince Albert Local Municipality, Western Cape Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	SIVEST Environmental Division	Western Cape	Onshore Wind	140 MW	Approved
12/12/20/1784/2	Environmental Authorisation Amendment Assessment (and Amendments)	Proposed Development of the 140 MW Trakas Wind Farm in the Prince Albert Local Municipality, Western Cape Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	SIVEST Environmental Division	Western Cape	Onshore Wind	140 MW	Approved
12/12/20/1784/2/AM1								

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DFEE REFERENCE	EA PROCESS	PROJECT TITLE	APPLICANT	EAP	PROVINCE	TECHNOLOGY	MW	STATUS
12/12/20/2133	EA (and Amendments)	Proposed Construction of 19 MW Photovoltaic Solar Facility Proposed By Lurama 214 Pty Ltd On Portion 1 of the Farm Steenrotsfontein 160, Beaufort West, Western Cape	Lurama 214 Pty Ltd	Council for Scientific and Industrial Research	Western Cape	Solar PV	19 MW	Approved
12/12/20/2133/AM1								
12/12/20/2133/AM2								
12/12/20/2133/AM3								
12/12/20/2133/AM4			BioTherm Energy (Pty) Ltd					
12/12/20/2133/AM5			BioTherm Energy (Pty) Ltd					
14/12/16/3/3/2/772	S&EIA	Proposed establishment of the Beaufort West Solar Power Plant Site 1, Western Cape	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	Approved
14/12/16/3/3/2/773	S&EIA	Proposed Establishment of the Beaufort West Solar Power Plant Site 2, Western Cape Province	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	Approved
14/12/16/3/3/2/774	S&EIA	Proposed Beaufort West Solar power plant site 3 near Beaufort West	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	Approved

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DIFFERENCE REFERENCE	EA PROCESS	PROJECT TITLE	APPLICANT	EAP	PROVINCE	TECHNOLOGY	MW	STATUS
12/12/20/2296	BAIR	Proposed Construction Of The Leeu Gamka Solar Power Plant and its associated Infrastructures, Near Beaufort West And Leeu Gamka, Beaufort West Local Municipality, Western Cape Province	Through Fare General Trading Pty Ltd	EnviroAfrica Environmental Consultants (Pty) Ltd	Western Cape	Solar PV	0	In process
14/12/16/3/3/2/406	S&EIA	Proposed wind and solar facility on Farm Lombaardskraal, Farm 330, Beaufort West, Western Cape	To review	Savannah Environmental Consultants (Pty) Ltd	Western Cape	Solar PV	20	In process
14/12/16/3/3/2/324	S&EIA	Proposed PV solar plant on three properties, Beaufort West, Western Cape	To review	Council for Scientific and Industrial Research	Western Cape	Solar PV	0	Withdrawn / Lapsed

6.3.1. Impact 1: Potential traffic congestion and delays on the surrounding road network and associated noise and dust pollution.

6.3.2. Impact Summary Tables: Cumulative Impacts

Table 5: Impact Summary Table: Cumulative Impacts

Impact	Impact Criteria		Significance and Ranking (Pre-Mitigation)	Potential mitigation measures	Significance and Ranking (Post-Mitigation)	Confidence Level
CONSTRUCTION PHASE						
	Status	Negative	Moderate - 3	-Stagger turbine component delivery to site - Reduce the construction period - Stagger the construction of the turbines - The use of quarries in close proximity to the site would decrease the impact on the surrounding road network. - Staff and general trips should occur outside of peak traffic periods - Maintenance of haulage routes. - Design and maintenance of internal roads.	Low - 4	Medium
	Spatial Extent	Regional				
	Duration	Medium term				
	Consequence	Severe				
	Probability	Unlikely				
	Reversibility	High				
	Irreplaceability	Replaceable				
OPERATIONAL PHASE						
	Status	Negative	Low - 4	- Staff and general trips should occur outside of peak traffic periods	Very Low - 5	Medium
	Spatial Extent	Regional				
	Duration	Long term				
	Consequence	Moderate				
	Probability	Likely				
	Reversibility	High				
	Irreplaceability	Replaceable				
DECOMMISSIONING PHASE						
	Status	Negative	Moderate - 3	-Stagger turbine component delivery to site - Reduce the construction period - Stagger the construction of the turbines - The use of quarries in close proximity to the site would decrease the impact on the surrounding road network.	Low - 4	Medium
	Spatial Extent	Regional				
	Duration	Medium term				
	Consequence	Severe				
	Probability	Unlikely				
	Reversibility	High				
	Irreplaceability	Replaceable				

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				<i>- Staff and general trips should occur outside of peak traffic periods</i> <i>Maintenance of haulage routes.</i> <i>- Design and maintenance of internal roads.</i>		
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7. Impact Assessment Summary

The overall impact significance findings, following the implementation of the proposed mitigation measures, are shown in the table below:

Table 6: Overall Impact Significance (Post Mitigation)

Phase	Overall Impact Significance
Construction	Low
Operational	Very Low (Negligible)
Decommissioning	Low
Nature of Impact	Overall Impact Significance
Cumulative - Construction	Low
Cumulative - Operational	Very Low
Cumulative - Decommissioning	Low

8. Legislative and Permit Requirements

Key legal requirements pertaining to the transport requirements for the proposed WEF development are:

- Abnormal load permits, (Section 81 of the National Road Traffic Act 93 of 1996 and National Road Traffic Regulations, 2000);
- Port permit (Guidelines for Agreements, Licenses and Permits in terms of the National Ports Act No. 12 of 2005); and
- Authorisation from Road Authorities to modify the road reserve to accommodate turning movements of abnormal loads at intersections.

9. Environmental Management Programme Inputs

It is recommended that dust suppression and maintenance of gravel roads form part of the Environmental Management Programme (EMPr). This would be required during the Construction and Decommissioning phases when an increase in vehicle trips can be expected. No traffic related mitigation measures are envisaged during the Operation phase due to the negligible traffic volume generated during this phase.

Key mitigation measures:

- Dust suppression.
- Maintenance of gravel roads.
- Reduce traffic to minimise dust and to reduce maintenance of gravel roads
 - Stagger turbine component delivery to site.
 - Staff and general trips should occur outside of peak traffic periods as far as possible.
 -

Monitoring recommendations

- Dust suppression at regular intervals.

- Regular monitoring of road surface quality.

10. No-Go Alternative

The no-go alternative implies that the proposed development of the Kwagga 1 WEF does not proceed. This would mean that there will be no negative environmental impacts and no traffic impact on the surrounding network during the construction and decommissioning phases of the proposed Kwagga 1 WEF. However, this would also mean that there would be no socio-economic benefits to the surrounding communities, and it will not assist government in meeting its targets for renewable energy. Hence, the no-go alternative is not a preferred alternative.

11. Assessment of Substation, Laydown area, Compound area and BESS Alternatives

It is understood that alternatives for the substation footprints, laydown areas, compound areas and BESS are being investigated. It should be noted that the substation footprint, laydown area, compound area and the BESS, from a traffic perspective, does not have any impact on the traffic volumes and the surrounding road network.

12. Final Specialist Statement and Authorisation Recommendation

12.1 Statement and Reasoned Opinion

The proposed development of the Kwagga 1 WEF and associated infrastructure is supported from a transport perspective, provided that the recommendations and mitigations contained in this report are adhered to.

The potential impacts associated with the proposed Kwagga 1 WEF and associated infrastructure are acceptable from a transport perspective and it is therefore recommended that the proposed facility can be authorised.

12.2 EA Condition Recommendations

None

13. References

- Gouws. S: "Concrete Towers – a business case for sustained local investment", Concrete growth, www.slideshare.net/SantieGouws/concrete-towers-a-business-case-for-sustained-investmentrev-5
- Road Traffic Act, 1996 (Act No. 93 of 1996)
- National Road Traffic Regulations, 2000
- SANS 10280/NRS 041-1:2008 - Overhead Power Lines for Conditions Prevailing in South Africa
- The Technical Recommendations for Highways (TRH 11): "Draft Guidelines for Granting of Exemption Permits for the Conveyance of Abnormal Loads and for other Events on Public Roads

Appendices

Appendix A - Specialist Expertise

IRIS SIGRID WINK

Profession	Civil Engineer (Traffic & Transportation)
Position in Firm	Associate
Area of Specialisation	Manager: Traffic & Transportation Engineering
Qualifications	PrEng, MSc Eng (Civil & Transportation)
Years of Experience	18 Years
Years with Firm	8 Years

SUMMARY OF EXPERIENCE

Iris is a Professional Engineer registered with ECSA (20110156). She joined JG Afrika (Pty) Ltd. in 2012. Iris obtained a Master of Science degree in Civil Engineering in Germany and has more than 15 years of experience in a wide field of traffic and transport engineering projects. Iris left Germany in 2003 and has worked as a traffic and transport engineer in South Africa and Germany. She has technical and professional skills in traffic impact studies, public transport planning, non-motorised transport planning and design, design and development of transport systems, project planning and implementation for residential, commercial and industrial projects and providing conceptual designs for the abovementioned. She has also been involved with transport assessments for renewable energy projects and traffic safety audits.

PROFESSIONAL REGISTRATIONS & INSTITUTE MEMBERSHIPS

- PrEng** - Registered with the Engineering Council of South Africa No. 20110156
Registered Mentor with ECSA for the Cape Town Office of JG Afrika
- MSAICE** - Member of the South African Institution of Civil Engineers
- ITSSA** - Member of ITS SA (Intelligent Transport Systems South Africa)
- SAWEA** - Member of the South African Wind Energy Association
- SARF** - South African Road Federation: Committee Member of Council
- IRF** - Global Road Safety Audit Team Leader

EDUCATION

1996 - Matric – Matric (Abitur) – Carl Friedrich Gauss Schule, Hemmingen, Germany

1998 - Diploma as Draughtsperson – Lower Saxonian State Office for Road and Bridge Engineering

2003 - MSc Eng (Civil and Transportation) – Leibniz Technical University of Hanover, Germany

SPECIFIC EXPERIENCE (Selection)

JG Afrika (Pty) Ltd (Previously Jeffares & Green (Pty) Ltd)

2016 – Date

Position – Associate

- **Kudusberg Windfarm** – Transport study for the proposed Kudusberg Windfarm near Sutherland, Northern Cape – Client: G7 Renewable Energies
- **Kuruman Windfarm** – Transport study for the proposed Kuruman Windfarm in Kuruman, Northern Cape – Client: Mulilo Renewable Project Developments
- **Coega West Windfarm** – Transportation and Traffic Management Plan for the proposed Coega Windfarm in Coega, Port Elizabeth – Client: Electrawinds Coega
- **Traffic and Parking Audits** for the Suburb of Groenvallei in Cape Town – Client: City of Cape Town Department of Property Management.
- **Road Safety Audit** for the Upgrade of N1 Section 4 Monument River – Client: Aurecon on behalf of SANRAL
- **Sonop Windfarm** – Traffic Impact Assessment for the proposed Sonop Windfarm, Coega, Port Elizabeth – Client: Founders Engineering
- **Universal Windfarm** - Traffic Impact Assessment for the proposed Universal Windfarm, Coega, Port Elizabeth – Client: Founders Engineering
- **Road Safety Audit** for the Upgrade of N2 Section 8 Knysna to Wittedrift – Client: SMEC on behalf of SANRAL
- **Road Safety Audit** for the Upgrade of N1 Section 16 Zandkraal to Winburg South – Client: SMEC on behalf of SANRAL
- **Traffic and Road Safety Studies** for the Improvement of N7 Section 2 and Section 3 (Rooidraai and Piekenierskloof Pass) – Client: SANRAL
- **Road Safety Appraisals** for Northern Region of Cape Town – Client: Aurecon on behalf of City of Cape Town (TCT)
- **Traffic Engineering Services** for the Enkanini Informal Settlement, Kayamandi - Client: Stellenbosch Municipality
- **Lead Traffic Engineer** for the Upgrade of a 150km Section of the National Route N2 from Kangela to Pongola in KwaZulu-Natal, Client: SANRAL
- **Traffic Engineering Services** for the Kosovo Informal Settlement (which is part of the Southern Corridor Upgrade Programme), Client: Western Cape Government

- **Traffic and Road Safety Studies** for the proposed Kosovo Informal Housing Development (part of the Southern Corridor Upgrade Program), Client: Western Cape Government.
- **Road Safety Audit** Stage 3 – Upgrade of the R573 Section 2 between Mpumalanga/Gauteng and Mpumalanga/Limpopo, Client: AECOM on behalf of SANRAL
- **Road Safety Audit** Stage 1 and 3 – Upgrade of the N2 Section 5 between Lizmore and Heidelberg, Client: Aurecon on behalf of SANRAL
- **Traffic Safety Studies** for Roads Upgrades in Cofimvaba, Eastern Cape – Client: Cofimvaba Municipality
- **Road Safety Audit** Stage 1 and 3 – Improvement of Intersections between Olifantshoek and Kathu, Northern Cape, Client: Nadeson/Gibb on behalf of SANRAL
- **Road Safety Audit** Stage 3 – Upgrade of the Beacon Way Intersection on the N2 at Plettenberg Bay, Client: AECOM on behalf of SANRAL
- **Traffic Impact Assessment** for a proposed Primary School at Die Bos in Strand, Somerset West, Client: Edifice Consulting Engineers
- **Road Safety Audit** Stage 1 and 3 – Improvement of R75 between Port Elizabeth and Uitenhage, Eastern Cape, Client: SMEC on behalf of SANRAL

Appendix B - Specialist Statement of Independence

I, IRIS WINK, declare that –

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the Specialist: _____

Name of Company: JG AFRIKA (PTY) LTD

Date: 23 July 2021

Appendix C: Site Sensitivity Verification

It is important to note that there are no traffic features or themes on the National Web based Environmental Screening Tool (Screening Tool) (as at March 2021), therefore the environmental sensitivity of the proposed project area as identified by the Screening Tool is not applicable. Therefore, no site sensitivity verification report is required.

However, prior to commencing with the specialist assessment in accordance with Appendix 6 of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) Environmental Impact Assessment (EIA) Regulations of 2014, a site sensitivity verification was undertaken in order to confirm the current land use and environmental sensitivity of the proposed project area as identified by the Screening Tool.

The details of the site sensitivity verification are noted below:

Date of Site Visit	09 November 2020
Specialist Name	Iris Wink
Professional Registration Number	ECSA 20110156
Specialist Affiliation / Company	JG AFRIKA (PTY) LTD

The site sensitivity verification was undertaken using the following means:

- (a) desk top analysis, using satellite imagery;
- (b) preliminary on-site inspection; and
- (c) site layouts provided by the Client.

The following was observed during the site visit:

- The environment can be described as rural, characterised by rolling terrain with level sections. The current land use is farming (livestock/game).
- The Rietbron-bound public gravel road transecting the Kwagga 1 WEF area is a well-maintained gravel road with widths ranging between 6 m and 8 m.
- At present, traffic volumes (and associated dust and noise pollution) are very low on the surrounding gravel roads.



Figure 15: Surrounding environment

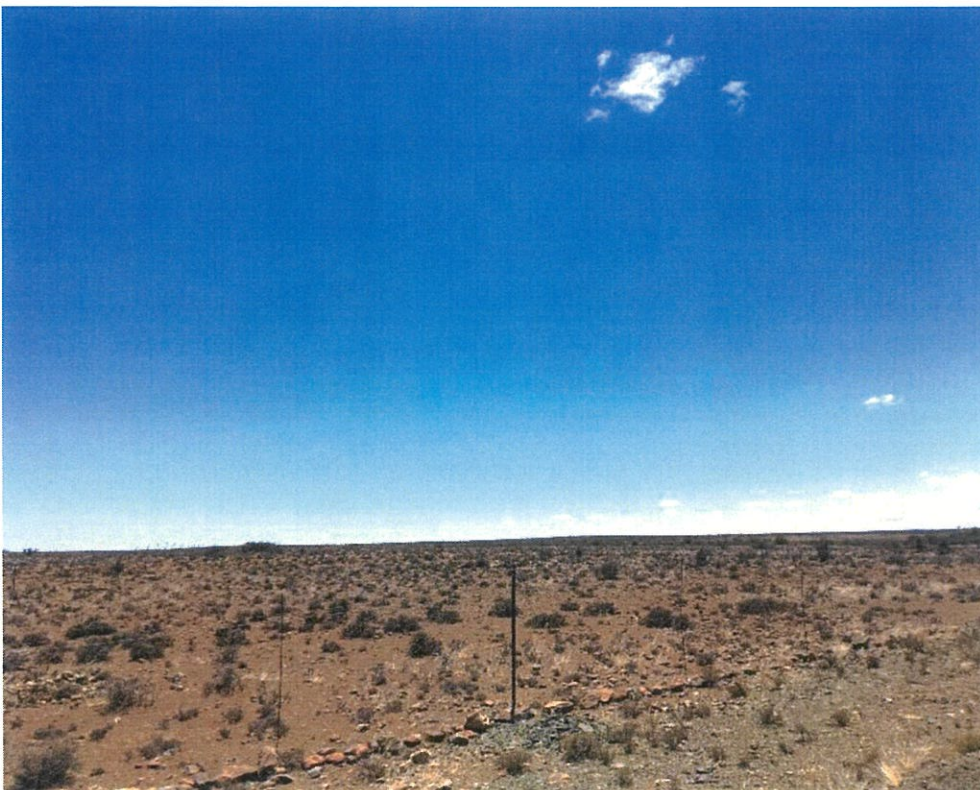


Figure 16: Surrounding environment



Figure 17: Rolling Terrain

Appendix D: Impact Assessment Methodology

The impact assessment includes:

- the nature, significance and consequences of the impact and risk;
- the extent and duration of the impact and risk;
- the probability of the impact and risk occurring;
- the degree to which impacts and risks can be mitigated;
- the degree to which the impacts and risks can be reversed; and
- the degree to which the impacts and risks can cause loss of irreplaceable resources.

As per the DEFFT Guideline 5: Assessment of Alternatives and Impacts, the following methodology is applied to the prediction and assessment of impacts and risks. Potential impacts and risks have been rated in terms of the direct, indirect and cumulative:

- *Direct impacts are impacts that are caused directly by the activity and generally occur at the same time and at the place of the activity. These impacts are usually associated with the construction, operation or maintenance of an activity and are generally obvious and quantifiable.*
- *Indirect impacts of an activity are indirect or induced changes that may occur as a result of the activity. These types of impacts include all the potential impacts that do not manifest immediately when the activity is undertaken or which occur at a different place as a result of the activity.*
- *Cumulative impacts are impacts that result from the incremental impact of the proposed activity on a common resource when added to the impacts of other past, present or reasonably foreseeable future activities. Cumulative impacts can occur from the collective impacts of individual minor actions over a period of time and can include both direct and indirect impacts.*

The impact assessment methodology includes the following aspects:

- *Nature of impact/risk - The type of effect that a proposed activity will have on the environment.*
- *Status - Whether the impact/risk on the overall environment will be:*
 - *Positive - environment overall will benefit from the impact/risk;*
 - *Negative - environment overall will be adversely affected by the impact/risk; or*
 - *Neutral - environment overall not be affected.*
- *Spatial extent – The size of the area that will be affected by the impact/risk:*
 - *Site specific;*
 - *Local (<10 km from site);*
 - *Regional (<100 km of site);*
 - *National; or*
 - *International (e.g. Greenhouse Gas emissions or migrant birds).*
- *Duration – The timeframe during which the impact/risk will be experienced:*
 - *Very short term (instantaneous);*
 - *Short term (less than 1 year);*
 - *Medium term (1 to 10 years);*
 - *Long term (the impact will cease after the operational life of the activity (i.e. the impact or risk will occur for the project duration)); or*
 - *Permanent (mitigation will not occur in such a way or in such a time span that the impact can be considered transient (i.e. the impact will occur beyond the project decommissioning)).*
- *Consequence – The anticipated consequence of the risk/impact:*
 - *Extreme (extreme alteration of natural systems, patterns or processes, i.e. where environmental functions and processes are altered such that they permanently cease);*
 - *Severe (severe alteration of natural systems, patterns or processes, i.e. where environmental functions and processes are altered such that they temporarily or permanently cease);*
 - *Substantial (substantial alteration of natural systems, patterns or processes, i.e. where environmental functions and processes are altered such that they temporarily or permanently cease);*

**FINAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: Scoping and Environmental Impact Assessment
for the proposed development of the 279 MW Kwagga Wind Energy Facility 1 and associated
infrastructure near Beaufort West in the Western Cape**

- *Moderate (notable alteration of natural systems, patterns or processes, i.e. where the environment continues to function but in a modified manner), or*
- *Slight (negligible alteration of natural systems, patterns or processes, i.e. where no natural systems/environmental functions, patterns, or processes are affected)*
- *Reversibility of the Impacts - the extent to which the impacts/risks are reversible assuming that the project has reached the end of its life cycle (decommissioning phase):*
 - *High reversibility of impacts (impact is highly reversible at end of project life i.e. this is the most favourable assessment for the environment),*
 - *Moderate reversibility of impacts;*
 - *Low reversibility of impacts; or*
 - *Impacts are non-reversible (impact is permanent, i.e. this is the least favourable assessment for the environment).*
- *Irreplaceability of Receiving Environment/Resource Loss caused by impacts/risks – the degree to which the impact causes irreplaceable loss of resources assuming that the project has reached the end of its life cycle (decommissioning phase):*
 - *High irreplaceability of resources (project will destroy unique resources that cannot be replaced, i.e. this is the least favourable assessment for the environment);*
 - *Moderate irreplaceability of resources;*
 - *Low irreplaceability of resources; or*
 - *Resources are replaceable (the affected resource is easy to replace/rehabilitate, i.e. this is the most favourable assessment for the environment).*

Using the criteria above, the impacts have been further assessed in terms of the following:

- *Probability – The probability of the impact/risk occurring:*
 - *Extremely unlikely (little to no chance of occurring);*
 - *Very unlikely (<30% chance of occurring);*
 - *Unlikely (30-50% chance of occurring)*
 - *Likely (51 – 90% chance of occurring); or*
 - *Very Likely (>90% chance of occurring regardless of prevention measures).*

To determine the significance of the identified impact/risk, the consequence is multiplied by probability (qualitatively as shown in Figure 1).

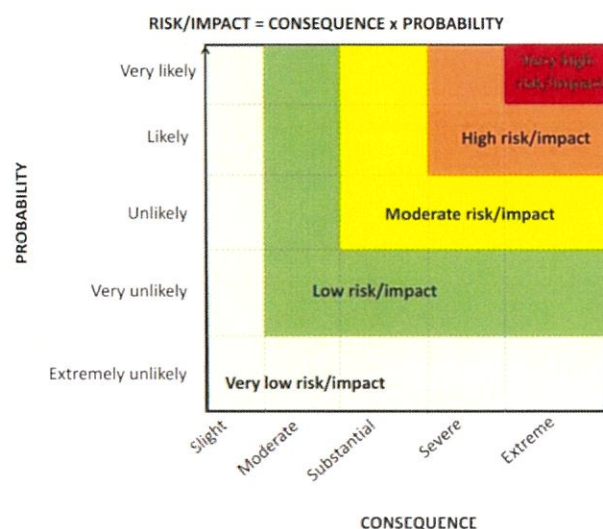


Figure 1. Guide to assessing risk/impact significance as a result of consequence and probability.

- *Significance – Will the impact cause a notable alteration of the environment?*

FINAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: Scoping and Environmental Impact Assessment
for the proposed development of the 279 MW Kwagga Wind Energy Facility 1 and associated
infrastructure near Beaufort West in the Western Cape

- *Very low (the risk/impact may result in very minor alterations of the environment and can be easily avoided by implementing appropriate mitigation measures, and will not have an influence on decision-making);*
- *Low (the risk/impact may result in minor alterations of the environment and can be easily avoided by implementing appropriate mitigation measures, and will not have an influence on decision-making);*
- *Moderate (the risk/impact will result in moderate alteration of the environment and can be reduced or avoided by implementing the appropriate mitigation measures, and will only have an influence on the decision-making if not mitigated);*
- *High (the risk/impact will result in major alteration to the environment even with the implementation on the appropriate mitigation measures and will have an influence on decision-making); and*
- *Very high (the risk/impact will result in very major alteration to the environment even with the implementation on the appropriate mitigation measures and will have an influence on decision-making (i.e. the project cannot be authorised unless major changes to the engineering design are carried out to reduce the significance rating)).*

With the implementation of mitigation measures, the residual impacts/risks are ranked as follows in terms of significance:

- *Very low = 5;*
- *Low = 4;*
- *Moderate = 3;*
- *High = 2; and*
- *Very high = 1.*

Confidence – The degree of confidence in predictions based on available information and specialist knowledge:

- *Low;*
- *Medium; or*
- *High.*

Appendix E: Compliance with the Appendix 6 of the 2014 EIA Regulations (as amended)

Requirements of Appendix 6 (Specialist Reports) of Government Notice R326 (Environmental Impact Assessment (EIA) Regulations of 2014, as amended)	Section where this has been addressed in the Specialist Report
1. (1) A specialist report prepared in terms of these Regulations must contain -	See Section 1.2 and Appendix A.
a) details of -	
i. the specialist who prepared the report, and	
ii. the expertise of that specialist to compile a specialist report including a curriculum vitae;	
b) a declaration that the specialist is independent in a form as may be specified by the competent authority;	See Appendix B
c) an indication of the scope of, and the purpose for which, the report was prepared;	Section 1
(cA) an indication of the quality and age of base data used for the specialist report;	n/a
(cB) a description of existing impacts on the site, cumulative impacts of the proposed development and levels of acceptable change;	Section 6
d) the duration, date and season of the site investigation and the relevance of the season to the outcome of the assessment;	n/a
e) a description of the methodology adopted in preparing the report or carrying out the specialised process inclusive of equipment and modelling used;	Section 2
f) details of an assessment of the specific identified sensitivity of the site related to the proposed activity or activities and its associated structures and infrastructure, inclusive of a site plan identifying site alternatives;	Section 4.3
g) an identification of any areas to be avoided, including buffers;	Section 4
h) a map superimposing the activity including the associated structures and infrastructure on the environmental sensitivities of the site including areas to be avoided, including buffers;	n/a
i) a description of any assumptions made and any uncertainties or gaps in knowledge;	Section 2.2
j) a description of the findings and potential implications of such findings on the impact of the proposed activity or activities;	Section 5
k) any mitigation measures for inclusion in the EMPr;	Section 9
l) any conditions for inclusion in the environmental authorisation;	n/a
m) any monitoring requirements for inclusion in the EMPr or environmental authorisation;	Section 9
n) a reasoned opinion- i. whether the proposed activity, activities or portions thereof should be authorised; (iA) regarding the acceptability of the proposed activity or activities; and ii. if the opinion is that the proposed activity, activities or portions thereof should be authorised, any avoidance, management and mitigation measures that should be included in the EMPr, and where applicable, the closure plan;	Section 12
o) a description of any consultation process that was undertaken during the course of preparing the specialist report;	n/a

**FINAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: Scoping and Environmental Impact Assessment
for the proposed development of the 279 MW Kwagga Wind Energy Facility 1 and associated
infrastructure near Beaufort West in the Western Cape**

<i>p) a summary and copies of any comments received during any consultation process and where applicable all responses thereto; and</i>	<i>n/a</i>
<i>q) any other information requested by the competent authority.</i>	<i>n/a</i>
<i>(2) Where a government notice by the Minister provides for any protocol or minimum information requirement to be applied to a specialist report, the requirements as indicated in such notice will apply.</i>	<p><i>Appendix C</i></p> <p><i>Comply with the Assessment Protocols that were published on 20 March 2020, in Government Gazette 43110, GN 320. This specifically includes Part A, which provides the Site Sensitivity Verification Requirements where a Specialist Assessment is required but no Specific Assessment Protocol has been prescribed. As at September 2020 there are no sensitivity layers on the Screening Tool for Transport features. Part A has therefore not been compiled for this assessment.</i></p>

ANNEXURE J:

COMMENTS FROM OTHER DEPARTMENTS

Our Ref: HM/ CENTRAL KAROO/ BEAUFORT WEST/ KWAGGA 1
Case No.: 20101914S0211E
Enquiries: Ayanda Mdludlu
E-mail: ayanda.mdludlu@westerncape.gov.za
Tel: 021 483 5959

Jayson Orton
jayson@asha-consulting.co.za



FINAL COMMENT
In terms of Section 38(1) of the National Heritage Resources Act (Act 25 of 1999) and the Western Cape Provincial Gazette 6061, Notice 298 of 2003

HERITAGE IMPACT ASSESSMENT: PROPOSED WIND ENERGY FACILITY DEVELOPMENT ON PTN 3 FARM TYGER POORT NO.376, RE PTN 1 FARM DWAALFONTEIN WES NO.377, RE FARM DWAALFONTEIN NO.379 & RE PTNS 6, 7, 8, 10, 11 & 12 FARM WOLWE KRAAL 17, BEAUFORT WEST, SUBMITTED IN TERMS OF SECTION 38(8) OF THE NATIONAL HERITAGE RESOURCES ACT (ACT 25 OF 1999)

This matter was discussed at the Impact Assessment Committee (IACom) meeting held on 17 November 2021.

It was noted that the matter was tabled at Archaeology, Palaeontology and Meteorites Committee (APM) meeting held on the 3 November 2021 whereby the Committee endorsed the Archaeological Impact Assessment and Palaeontological Impact Assessment dated October 2021 with the following recommendations on page 51 of the Heritage Impact Assessment;

It is recommended that the proposed Kwagga WEF1 should be authorised but subject to the following conditions which should be incorporated into the Environmental Authorisation:

- A pre-construction palaeontological survey of unsurveyed, potentially sensitive sectors of the authorised layout (mitigation recommendations will need to be made afterwards as necessary);
- Monitoring for fossils on an on-going basis by the ECO during the construction phase;
- A Chance Fossil Finds Procedure must be in place;
- A pre-construction archaeological survey of the authorised layout must be commissioned to determine whether any significant archaeological sites still lie within the final footprint (mitigation recommendations will need to be made afterwards as necessary);
- If the historical rubbish midden at waypoint 419 cannot be avoided then it should be excavated and recorded prior to construction;
- No materials (e.g. rocks or bricks) may be removed from any historical sites;
- The access road should be rerouted slightly so as to pass between the structures at waypoint 309 in such a way that the distance between road and structures is maximised;
- The options for the substation hub and permanent laydown areas that are lowest in elevation are preferred;
- Temporary laydown areas must be fully rehabilitated after construction;
- Lighting must be designed to minimise light pollution (e.g. use down lighting, motion sensors), with the red safety lights on the tops of the turbines being of particular concern (a radar-based AudioVisual Warning System should be used);
- The colours of buildings, roofs, etc should be muted and designed to blend with the natural landscape; and
- If any archaeological material or human burials are uncovered during the course of development then work in the immediate area should be halted. The find would need to be reported to the heritage authorities and may require inspection by an archaeologist. Such heritage is the property of the state and may require excavation and curation in an approved institution.

FINAL COMMENTS:

The Committee (IACom) endorsed the heritage Impact Assessment and associated documents as prepared by ASIIA Consulting dated October 2021. The Committee supports the recommendations and findings of the heritage impact assessment referred to on page 51.

Should you have any further queries, please contact the official above and quote the case number.

.....
Colette Scheermeyer
Deputy Director

www.westerncape.gov.za/cas

Street Address: Protea Assurance Building, Green Market Square, Cape Town, 8000 • **Postal Address:** P.O. Box 1665, Cape Town, 8000
• **Tel:** +27 (0)21 483 5959 • **E-mail:** ceoheritage@westerncape.gov.za

Straatadres: Protea Assuransie-gebou, Groentemarkplein, Kaapstad, 8000 • **Posadres:** Posbus 1665, Kaapstad, 8000
• **Tel:** +27 (0)21 483 5959 • **E-pos:** ceoheritage@westerncape.gov.za

Idilesi yendawo: kumgangatho 3, kwisakhiwo iprotea Assurance, Greenmarket Square, eKapa, 8000 • **Idilesi yeposi:** Inombolo yebhokisi yeposi 1665, eKapa, 8000 • **Iinombolo zomnxeba:** +27 (0)21 483 5959 • **Idilesi ye-imeyile:** ceoheritage@westerncape.gov.za



OFFICE OF THE REGIONAL LAND CLAIMS COMMISSIONER: WESTERN CAPE

1st and 2nd floors, 14 Long Street, Cape Town, 8000 | Private Bag X9163, Cape Town, 8000
Tel. (021) 409 0300 | Fax: (021) 418 0205

Your Ref: Koup District Council

Our Ref: Maroeda Johnson

29th June 2021

Kwagga Wind Energy Facility 1 (Pty) Ltd
Unit B1 Mayfair Square
Century Way, Century City
Cape Town
7441

LAND CLAIM ENQUIRIES: PORTION 3 OF THE FARM TYGER POORT NO. 376 KOUP DISTRICT COUNCIL BEAUFORT WEST, REMAINDER OF THE FARM DWAALFONTEIN WES NO. 377 KOUP DISTRICT COUNCIL BEAUFORT WEST, PORTION 1 OF THE FARM DWAALFONTEIN WES NO. 377 KOUP DISTRICT COUNCIL BEAUFORT WEST, REMAINDER OF THE FARM DWAALFONTEIN NO. 379 KOUP DISTRICT COUNCIL BEAUFORT WEST

Thank you for your letter dated 10th June 2021

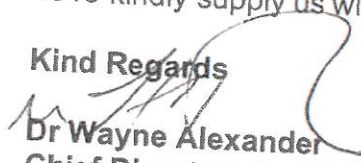
We confirm that as at the date of this letter no land claims appear on our database in respect of **PORTION 3 OF THE FARM TYGER POORT NO. 376 KOUP DISTRICT COUNCIL BEAUFORT WEST, REMAINDER OF THE FARM DWAALFONTEIN WES NO. 377 KOUP DISTRICT COUNCIL BEAUFORT WEST, PORTION 1 OF THE FARM DWAALFONTEIN WES NO. 377 KOUP DISTRICT COUNCIL BEAUFORT WEST, REMAINDER OF THE FARM DWAALFONTEIN NO. 379 KOUP DISTRICT COUNCIL BEAUFORT WEST**. This includes the database for claims lodged 31 December 1998 and those lodge between 1 July 2014 and 28 July 2016. Whilst the Commission takes reasonable care to ensure the accuracy of the information it provides, there are various factors that may be beyond the Commission's control, particularly relating to claims that have lodged but not yet been gazetted.

PORTION 3 OF THE FARM TYGER POORT NO. 376 KOUP DISTRICT COUNCIL
BEAUFORT WEST, REMAINDER OF THE FARM DWAALFONTEIN WES NO. 377
KOUP DISTRICT COUNCIL BEAUFORT WEST, PORTION 1 OF THE FARM
DWAALFONTEIN WES NO. 377 KOUP DISTRICT COUNCIL BEAUFORT WEST,
REMAINDER OF THE FARM DWAALFONTEIN NO. 379 KOUP DISTRICT
COUNCIL BEAUFORT WEST

- Some Claimants referred to properties they claim dispossession of rights in land against using historical property descriptions which may not match the current property description; and
- Some Claimants provided the geographic descriptions of the land they claim without mentioning the particular properties they claim dispossession of rights in land against.
- The Commission can therefore not accept any liability whatsoever if through the process of further investigation of claims it is found that there is in fact a land claim in respect of the above property.

If you are aware of any change in the description of the above property after 19 June 1913 kindly supply us with such description as to enable us to do a further search.

Kind Regards



Dr Wayne Alexander

Chief Director: Restitution Support: RLCC (Western Cape)





**mineral resources
& energy**

Department:
Mineral Resources and Energy
REPUBLIC OF SOUTH AFRICA

Enquiries: M Koen
MINERAL REGULATION AND
ADMINISTRATION
WESTERN CAPE
Private Bag X9, Rogge Bay, 8012
Tel No : (021) 427-1019
Fax No: (021) 427-1046
Email: morne.koen@dmre.gov.za
Ref: (WC) 30/5/4/2/11500 SU
Your Ref:

**THE MANAGER
KWAGGA WIND ENERGY FACILITY 1 (PTY) LTD
UNIT B1 MAYFAIR SQUARE
CENTURY WAY
CENTURY CITY
7441**

Dear Sir/Madam


**APPLICATION FOR THE APPROVAL IN TERMS OF SECTION 53 OF THE
MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT 28 OF 2002:
PROPOSED CONSTRUCTION OF A WIND ENERGY FACILITY ON PORTION 3 OF
THE FARM TYGER POORT 376, REMAINDER & PORTION 1 OF THE FARM
DWAALFONTEIN 377, REMAINDER OF THE FARM DWAALFONTEIN 379
SITUATED IN THE DISTRICT OF BEAUFORT-WEST.**

We acknowledge receipt of your application dated the 06 October 2021.

According to the records of this office, there are no existing mining/prospecting rights on the above-mentioned properties. In terms of Section 53 of the Mineral and Petroleum Resources Development Act 2002 (Act 28 of 2002), we have no objection against the proposed development on the above-mentioned properties.

The approval granted does not negate the responsibility of the developer to comply with any other statutory requirements that may be applicable to the undertaking of such development.

Yours faithfully


**REGIONAL MANAGER
WESTERN CAPE REGION
DATE: 12/04/2022**



Reference: W11/2/1 -N12
Date: 04 March 2022
Email: abrahamsn@nra.co.za
Fax Number: +27 (0) 21 957 4600
Direct Line: +27 (0) 21 957 4602
Website: www.nra.co.za

**ATT: The Directors
Kwagga Wind Energy Facility 1 (PTY) LTD
Unit B1, Mayfair Square
Century Way, Century City
Cape Town
7441**

KWAGGA WIND ENERGY FACILITY 1 (PTY) LTD

1. The above listed project bears reference. The South African National Roads Agency SOC Limited (SANRAL) has received background information and Traffic Impact Assessment for this proposed project and wish to comment. SANRAL will not be impacted by this proposed development and therefore has no objection for the utilisation of the preferred route in Transport Study. As per the Traffic Impact Assessment conducted by JG Afrika (Pty) Ltd on behalf of the project, it will be ensured that dust suppression and maintenance of gravel roads form part of the Environmental Management Programme (EMPr). This would be required during the Construction and Decommissioning phases when an increase in vehicle trips can be expected. The Traffic Impact Assessment concludes that the potential impacts associated with the proposed Kwagga Wind Energy Facility 1 and associated infrastructure are acceptable from a transport perspective and it is therefore recommended that the proposed facility can be authorised.
2. However, SANRAL shall be notified prior to the transportation of any Wind Energy Components to the affected site to ensure SANRAL's comments, conditions of approval for the utilisation of any National Road is suitably covered and any construction-related activity that may affect operations on the National Road network.
3. This shall include, but not limited to an updated Traffic Accommodation Plan (TAP) relating to the transport of Wind Energy Components being submitted to SANRAL as part of the Permit Application to the Provincial Government of Western Cape – Department of Transport for necessary input and endorsement.

We trust that you will find the above in order.

Yours sincerely

Nicole Abrahams
Environmental Coordinator



BREED-GOURITZ

CATCHMENT MANAGEMENT AGENCY

101 York Street 3rd Floor Rm 302 George 6530, P.O. Box 1205 George 6530

Enquiries: Z Mbunquka **Tel:** 023 346 8000 **Fax:** 044 8732199 **E-mail:** zmbunquka@bgcma.co.za

Reference: 4/10/4/J32C/Kwagga energy facility 1 **Date:** 24 May 2022

The Directors
Kwagga Wind Energy Facility 1 (PTY) LTD
Unit B1, Mayfair Square
Century Way
Century City
Cape Town
7441

Email: Rob.Invernizzi@abo-wind.com
Attention: Mr Rob Invernizzi

Dear Sir,

CONFIRMATION OF WATER AVAILABILITY FOR THE KWAGGA WIND ENERGY FACILITY 1.

The Breed-Gouritz Catchment Management (BGCMA) hereby acknowledges the receipt of your correspondence detailing the intent of Kwagga Wind Energy Facility 1 (Pty) Ltd to submit a proposal to the Department of Mineral Resources and Energy (DMRE). It is our understanding that as part of such application it is required of the project proponent to provide confirmation that water is available for the proposed project as well as proof of submission of a water use license application as required under qualification criteria.

The BGCMA hereby wishes to confirm that it has engaged with the proponent regarding the water use requirements of the proposed wind energy facility to be located on the following properties:

- Portion 3 of the Farm Tyger Poort No. 376, Beaufort West
- Remainder of the Farm Dwaalfontein Wes No. 377, Beaufort West
- Portion 1 of the Farm Dwaalfontein Wes No. 377, Beaufort West
- Remainder of the Farm Dwaalfontein No. 379, Prince Albert
- Remainder of the Farm Wolve Kraal No. 17, Prince Albert
- Portion 7 of the Farm Wolve Kraal No. 17, Prince Albert
- Portion 8 of the Farm Wolve Kraal No. 17, Prince Albert
- Portion 10 of the Farm Wolve Kraal No. 17, Prince Albert
- Portion 11 of the Farm Wolve Kraal No. 17, Prince Albert
- Portion 12 of the Farm Wolve Kraal No. 17, Prince Albert

After due consideration of the water resource availability in the relevant catchment area, it was found that sufficient water is available to meet the water requirements for the proposed project.

The water will be sourced from the boreholes on the Property. It is estimates that the total water consumption for the 24 months construction perions will be 100 000kl with a maximum average monthly requirement of 8.333kl/month. During the 20 year operational lifespan of the project, the water consumption requirements will be low to low volumes for drinking and sanitation purposes only.

The BGCMA further wishes to confirm that a full assessment of the application for water use authorization by the Kwagga Wind Energy Facility 1 project will only be undertaken in the event that the project proponent has been appointed as a preferred bidder by the Department of Mineral Resources and Energy.

This letter of confirmation is non-binding and should not be construed as authorization to engage in any water use as defined in Section 21 of the National Water Act, 1998 (Act no.36 of 1998) or that a water use license will necessarily be granted nor does it grant exemption from the requirements of any other applicable act, ordinance, regulation or by law.

Yours faithfully



JAN VAN STADEN

CHIEF EXECUTIVE OFFICER (ACTING)



Western Cape
Government

TRANSPORT & PUBLIC WORKS: ROADS

Chief Directorate: Road Planning

Email: grace.swanepoel@westerncape.gov.za

Tel: +27 21 483 4669

Room 335, 9 Dorp Street, Cape Town, 8001

PO Box 2603, Cape Town, 8000

REFERENCE: TPW/CFS/RP/LUD/REZ/SUB-01/23 (Job 28641)

ENQUIRIES: Ms G Swanepoel

DATE: 26 November 2021

CSIR Environmental Management Services

PO Box 320

STELLENBOSCH

7599

Attention: Ms L Kellerman

Dear Madam

THREE DRAFT EIA REPORTS FOR THE PROPOSED DEVELOPMENT OF THE THREE KWAGGA WIND ENERGY FACILITIES; NAMELY, THE 279MW KWAGGA WEF 1 (DFFE REF: 14/12/16/3/3/2/2070), THE 341MW KWAGGA WEF 2 (DFFE REF: 14/12/16/3/3/2/2071) AND THE 204.6MW KWAGGA WEF 3 (DFFE REF: 14/12/16/3/3/2/2072), AND ITS ASSOCIATED INFRASTRUCTURE, NEAR BEAUFORT WEST IN THE WESTERN CAPE PROVINCE

1. The following refer:
 - 1.1 This Branch's letter TPW/CFS/RP/LUD/REZ/SUB-01/23 (Job 28641) dated 24 June 2021 to you. Find a copy attached to this letter.
 - 1.2 Your letter dated 22 October 2021 to Interested and/or Affected Party.
2. This Branch remains to offer no objection to the issuing of an Environmental Authorisation in favour of any of the three wind energy facilities, provided that this Branch's letter of 24 June 2021 remains to be complied to.

Yours Sincerely

SW CARSTENS

For DEPUTY DIRECTOR-GENERAL: ROADS



REFERENCE: TPW (Job 28641)
ENQUIRIES: Ms G Swanepoel
DATE: 24 June 2021

CSIR Environmental Management Services
PO Box 320
STELLENBOSCH
7599

Attention: Ms L Kellerman

Dear Madam

THREE DRAFT SCOPING REPORTS FOR THE DEVELOPMENT OF THE THREE KWAGGA WIND ENERGY FACILITIES (NAMELY THE 279MW KWAGGA WEF 1, THE 341MW KWAGGA WEF 2 AND THE 204.6MW KWAGGA WEF 3) AND ITS ASSOCIATED INFRASTRUCTURE; NEAR BEAUFORT WEST IN THE WESTERN CAPE PROVINCE

1. The following refer:
 - 1.1 Your e-mail on behalf of CSIR Environmental Management Services on 28 May 2021 to Interested and/or Affected Party.
 - 1.2 JG Afrika's three transport specialist assessments (respectively for Kwagga Wind Energy Facilities 1, 2 and 3) all dated 25 January 2021.
2. This Branch will not object to the issuing of an Environmental Authorisation in favour of any of the three wind energy facilities, provided that this Branch is offered the opportunity to comment on the land use application, at which stage this Branch will issue its approvals in terms of Act 21 of 1940 (building restrictions) and Roads Ordinance 19 of 1976 (accesses and construction activities with the road reserves and building lines).
3. The following (Public) Provincial Roads, all for which this Branch is the Road Authority, are either in the immediate vicinity or traversing the affected farms:
 - 3.1 Trunk Road 33 section 5 (TR03305; N12)
 - 3.2 Divisional Road 2301 (DR02301)

- 3.3 Minor Road 7066 (OP07066)
- 3.3 Minor Road 7067 (OP07067)
- 3.4 Minor Road 7070 (OP07070)
- 3.5 Minor Road 8806 (OP08806)
- 3.6 Minor Road 8807 (OP08807)
- 3.7 Minor Road 8824 (OP08824)
- 3.8 Minor Road 8825 (OP08825)
- 3.9 Minor Road 8828 (OP08828)
- 3.10 Minor Road 8831 (OP08831)
- 4. Based upon the above-mentioned roads and the farms being served, it appears as if Portion 1 of Farm 386, Portion 3 of Farm 386, Portion 4 of Farm 115 and Portion 6 of Farm 115 are all possibly land locked. This Branch is not aware of any registered servitude rights of way being in place to ensure permanent, legal and unfettered access to those farms.
- 5. Regardless of all the Provincial Roads in that vicinity are only TR03305 and DR02301 described as access roads. An impression is created that the other (gravelled) Provincial Roads in that vicinity will be utilised as private roads. All the Provincial Roads Public accessibility must be retained (if not closed – deproclaimed) and they must be evaluated for the purposes of construction, operation and decommissioning.
- 6. This Branch, for now, will ultimately require the following:
 - 6.1 Access applications (for all the accesses to each respective farm portion), which might include servitude rights of way to be registered to ensure permanent, legal and unfettered access to all affected farm portions. It will be required to clearly state which access will serve what purpose (wind energy and / or farming).
 - 6.2 Construction applications, including wayleaves for third party services, when building restrictions, building lines and road reserves are affected.
 - 6.3 Abnormal load applications, which may require prior geometric and materials designs to be completed and constructed. Due to the possible longevity of this process it is recommended to commence with these applications as soon as possible.

- 6.4 A geotechnical and geometric design report, including improvement proposals, must be compiled to ensure that all the roads (on the entire road network) that will be affected by this development are adequately improved and maintained before any other construction activity may commence on any of the farm portions. This is to ensure that no more than normal deterioration and additional maintenance costs are experienced by the Road Authority during the construction and operating phases. It will be required that any design affecting any Proclaimed Provincial Road must carry this Branch's Chief Directorate Road Design's approval before implementation thereof may commence.
- 6.5 Confirmation that a similar geotechnical (as per paragraph 6.4) proposal will be compiled and approval obtained prior to commencing with any major upgrade or decommissioning phase; whenever that may be.

Yours Sincerely



PP

SW CARSTENS

For DEPUTY DIRECTOR-GENERAL: ROADS

ENDORSEMENTS

1. CSIR Environmental Management Services
Attention: Ms L Kellerman (e-mail: ems@csir.co.za)
2. Central Karoo District Municipality
Attention: Mr A Koopman (e-mail)
3. District Roads Engineer
Oudtshoorn
4. Mr E Burger (e-mail)
5. Mr SW Carstens (e-mail)

Comments Received from the South African Civil Aviation Authority

From: Lizell Stroh <Strohl@caa.co.za>
To: "ems@csir.co.za" <ems@csir.co.za>
Date: 21 Jun 2021 15:17
Subject: FW: Reminder - Re: Release of Draft Scoping Reports for the three Kwagga Wind Energy Facility Developments, near Beaufort West, Western Cape
Attachments: Property boundarie co-ordinates.xls; Structures on project.xls; Pylon Geographic co ordinates.xls

There is a ATNS process whereby an assessment is applied for wrt obstacles which could pose an aviation hazard.

<http://www.caa.co.za/Pages/Obstacles/Urgent-notice.aspx>

Obstacle Notice 1/2021 – Appointment of New Windfarm Obstacle Application Service Provider

Kindly be advised, as of the 1st of May 2021 Air Traffic and Navigation Services (ATNS) has been appointed as the new Obstacle application Service Provider for Windfarms and later Solar Plants. Their responsibility would pertain to the assessments, maintenance, and all other related matters in respect to Windfarms and in due time Power Plant assessments.

- Kindly provide a .kml (Google Earth) file reflecting the footprint of the proposed development site including the proposed overhead electric power line route that will evacuate the generated power to the national grid.
- Also indicate the highest structure of the project & the Overhead electric power transmission line.

Please follow the ATNS process.

The contact details for ATNS is:

ObstacleEvaluator

ATNSHeadOfficeTel: +2711 6071000(AskforObstacleEvaluators)

Email: ObstacleEvaluators@atns.co.za

Kind regards



Lizell Stroh
Obstacle Inspector
PANS-OPS Section
Air Navigation Services Department
Tel: +27 11 545 1232 | Mobile: +27 083 461 6660
Email: Strohl@caa.co.za | www.caa.co.za
Follow us on    



“We spend most of our waking lives at work, so it's important that we do what we love and love what we do.”

Richard Branson

From: EMS <ems@csir.co.za>
Sent: Wednesday, 01 December 2021 14:00
To: Lizell Stroh
Subject: RE: Reminder - RE: Release of the Draft EIA Reports for comment for the three Kwagga Wind Energy Facility Developments, near Beaufort West, Western Cape

Dear Lizell,

Thank you for your email.

Please note that the Project Developer (ABO Wind) has submitted the required Obstacle Evaluation forms for the proposed 279 MW Kwagga WEF 1, the 341 MW Kwagga WEF 2 and the 204.6 MW Kwagga WEF 3, to ATNS. The application process is still underway and will be concluded following the issuing of Environmental Authorisations (EA), should EAs be granted by the DFFE.

Please will you kindly confirm if you would like the attachments in your email (i.e. 'Information template Windfarms Development around Aerodromes (005)' and 'New Part 139 01 30 Regulations') included as comments from the SACAA?

Kind regards
EIA Project Team

From: Lizell Stroh <StrohL@caa.co.za>
Sent: Tuesday, 30 November 2021 10:35
To: EMS <ems@csir.co.za>
Subject: RE: Reminder - RE: Release of the Draft EIA Reports for comment for the three Kwagga Wind Energy Facility Developments, near Beaufort West, Western Cape

Good day, please confirm if the respected Obstacle assessment process has been followed by ATNS.

As soon as the application with assessment report has been submitted to the SACAA an final site approval could be considered.

Please find information towards Comments for your information

Kind regards



Lizell Stroh
Obstacle Inspector
PANS-OPS Section
Air Navigation Services Department
Tel: +27 11 545 1232 | **Mobile:** +27 083 401 0060
Email: StrohL@caa.co.za | www.caa.co.za
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SCOPING PHASE: Comments received after the submission of the Final Scoping Report

General, Administrative and Project Need³ Comments

From: eris
To: Nel, Jaco <jaco@aifa.co.za>
Date: 25 Jul 2021 21:55
Subject: Re: KWAGGA WIND ENERGY FACILITY 1, 2 AND 3
Attachments: Kwagga Wind Energy Facility 1.kmz; Kwagga Wind Energy Facility 2.kmz; Kwagga Wind Energy Facility 3.kmz

Dear Jaco,

We trust you are well.

Thank you for your email. The location of the flight training school and its operational bases are duly noted.

Please see the attached KMZ files for the proposed Kwagga WEFs 1-3, as requested.

A desktop Civil Aviation Site Sensitivity Verification (SSV) was conducted for the three proposed Kwagga WEFs during the Scoping Phase of the projects and it was determined that the northern portion of the proposed 297 MW Kwagga WEF 1 project site was determined and verified to be of potential 'high' sensitivity with the classification of "dangerous and restricted airspace", whereas the southern portion of the project site was determined and verified to be of 'low' sensitivity (as it relates to civil aviation). The Kwagga WEF 1 Civil Aviation Site Sensitivity Verification Report is included in Appendix F.11 of the Kwagga WEF 1 Final Scoping Report.

The Kwagga WEF 1 SSV report further states that the low sensitivity (as it relates to civil aviation) was determined and verified through a site visit and based on existing databases, and confirms the sensitivity allocated on the Department of Forestry, Fisheries and the Environments' (DFFE) National Web Based Screening Tool. The potential high sensitivity was determined and verified based on existing databases and following liaison with the South African CAA as well as with Tsela Aeronautical (Pty) Ltd (Tsela).

Based on the above, in terms of the relevant environmental legislation it was determined that an Aeronautical Impact Assessment is to be undertaken during the EIA Phase of the project.

The Final Scoping Reports for the proposed Kwagga WEFs 1-3 have been submitted to the DFFE for consideration. Should the Final Scoping reports be accepted by the DFFE, the projects will commence with the EIA Phase, during which the Aeronautical Impact Assessment will be undertaken and incorporated into the Kwagga WEF 1 Draft EIA Report.

The Draft EIA Reports for the proposed Kwagga WEFs 1-3 will be released for a 30-day public comment period, during which the AIFA is welcome and encouraged to submit their comments on the reports, should they have any. Alternatively AIFA is welcome to send us their unofficial comments on the Final Scoping Report and we will take them into consideration when finalizing the Draft EIA Report.

In addition, we will add your details to the projects stakeholder database should you wish to continue receiving communication on the proposed Kwagga WEF projects.

We hope you find the above in order.

Kind regards
EIA Project Team

>>> Jaco Nel <jaco@aifa.co.za> 22 Jul 2021 11:36 >>>
Good day Paul Lochner,

My name is Jaco Nel and I am the safety manager for AIFA, a flight training school with operational bases at George, Oudtshoorn and Beaufort West. I received the Final Scoping Report of the proposed Kwagga WEF this morning and noticed that a part of the proposed WEF is within AIFA's general flying area (FAD-26: Danger area number 29 from ground level to 8000 feet altitude).

It will be appreciated if you could supply me with Google Earth (.kmz) file(s) of the footprint of the proposed WEF so that we can determine the possible impact (if any) on AIFA's flight training activities.

Your assistance in this regard will be appreciated.

³ This includes requests to register on and de-register from the project I&AP database.

From: Lizande Kellerman
To: Lodewyk Strydom <loties@gmail.com>
CC: Dhiveshni Moodley; ems
Date: 22 Jul 2021 11:22
Subject: Re: Re: Kwagga WEFs 1-3

Beste Lodewyk,

Baie dankie vir jou skrywe, dit word waardeer. Ek vertrou dit gaan goed met jou!

Rakende jou navraag hieronder, is jy opsoek na kontakbesonderhede van die Projekontwikkelaar van die voorgestelde Kwagga windplase, of nodig jy om met ons as CSIR te gesels wat in bestuur van die omgewingsimpakstudies vir die voorgestelde Kwagga windplase is (my kontakbesonderhede word weergegee in hierdie epos hieronder)?

By voorbaat baie dankie, ek sien uit na jou terugvoer.

Vriendelike groete
Lizande



Lizande Kellerman

Pr Sci Nat | BSc Zoo | BSc Hons Bot | MSc Bot
Principal Environmental Assessment Practitioner
Tel: +27 21 888 2489
Cell: +27 83 799 0949
Email: lkellerman@csir.co.za
www.csir.co.za

>>> Lodewyk Strydom <loties@gmail.com> 20 Jul 2021 10:12 >>>

Goeie Dag.

Ek wil graag meer inligting kry in verband met die kwagga windplaas aangesien ek belange het met betrekking tot dit.
Het u dalk vir my n kontak nommer van n persoon in bestuur van sake wat my kan help met dit.
Groetnis

From: Sindiswa Dlomo <SDlomo@environment.gov.za>
To: ems <ems@csir.co.za>
Date: 13 Jul 2021 10:28
Subject: RE: Notification of the Submission of Final Scoping Reports for the three Kwagga Wind Energy Facilities,
near Beaufort West, Western Cape

Good morning,

Kindly remove me from your mailing list.

Regards,

Ms Sindiswa (Sindi) Dlomo
Designation: Deputy Director: National Infrastructure Projects
Chief Directorate: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment
Tel: 012 399 9390
Cell: 076 940 5716
Email: SDlomo@environment.gov.za

Lizande Kellerman - RE: FW: 10729 - Proposed Beaufort West PV Project: Notice of Environmental Authorisation

From: "Bambie Heiberg" <bambie@karoogateway.co.za>
To: "Lizande Kellerman" <LKellerman@csir.co.za>
Date: 03 Aug 2021 16:10
Subject: RE: FW: 10729 - Proposed Beaufort West PV Project: Notice of Environmental Authorisation

Baie dankie Lizande, baie bly ons paaie het gekruis.

Bly gesond!
Seenwense
Bambie

K A R O O | G A T E W A Y

FOR ENDLESS POSSIBILITIES...

Dr. Bambie Heiberg
CEO | Karoo Gateway Airport
Contact Number | +27 83 654 3773
Email Address | bambie@karoogateway.com



From: Lizande Kellerman <LKellerman@csir.co.za>
Sent: Tuesday, August 3, 2021 1:05 PM
To: 'Pikkie Siebrits' <pikkie@aifa.co.za>; strohl@caa.co.za; Bambie Heiberg <bambie@karoogateway.co.za>; 'Gawie Makkink' <gawie@origintrp.co.za>
Cc: 'Donavan Henning' <DonavanH@nemail.co.za>
Subject: Re: FW: 10729 - Proposed Beaufort West PV Project: Notice of Environmental Authorisation

Beste Bambie,

Kennisgewing eposse soos onderstaande word gewoonlik deur die Omgewingskonsultant verantwoordelik vir die betrokke impakstudie vir 'n bepaalde projek aan alle belanghebbende partye wat op hul projek databasis geregistreer is, gestuur soos byvoorbeeld in die geval soos hierdie waar hierdie sonplaas omgewingstoestemming vanaf die nasionale Dept Omgewingsake ontvang het.

Ons as CSIR was nie spesifiek geregistreer as 'n belanghebbende party op hierdie projek se I&AP (Interested and/or Affected Parties) databasis nie, en daarom sou ons nie direk 'n epos in die verband ontvang het nie. Maar, baie dankie dat jy dit wel met ons gedeel het, dis goed om te weet en word opreg waardeer.

Vriendelike groete

Lizande



Lizande Kellerman

Pr Sci Nat | BSc Zoo | BSc Hons Bot | MSc Bot
Principal Environmental Assessment Practitioner

Tel: +27 21 888 2489

Cell: +27 83 799 6949

Email: lkellerman@csir.co.za

www.csir.co.za

>>> "Bambie Heiberg" <bambie@karooogateway.co.za> 03 Aug 2021 12:52 >>>

Beste Pikkie, Lizell, Gawie en Lizande

Is julle ooit in kennis gestel van hierdie "update" – sien asb hieronder asook die aanhegself – ek sien nie dat julle inge-CC word nie en vind dit vreemd, behalwe as elkeen nou afsonderlike e-posse ontvang?!?.

Liewer net seker maak vir almal se gemoedsrus en die veilige pad vorentoe vir almal betrokke by die Karoo Gateway Lughawe.

Mooi dag

Bambie

From: Donovan Henning <DonovanH@nemail.co.za>

Sent: Tuesday, August 3, 2021 12:17 PM

Subject: 10729 - Proposed Beaufort West PV Project: Notice of Environmental Authorisation

NOTICE OF ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED 75MW BEAUFORT WEST PHOTOVOLTAIC PROJECT, WESTERN CAPE (Reference Number: 14/12/16/3/3/1/2332)

This serves as notification in terms of the Environmental Impact Assessment (EIA) Regulations (Government Notice No. R. 982 of 4 December 2014, as amended), promulgated in terms of the National Environmental Management Act (Act No. 107 of 1998), that Environmental Authorisation (EA) was granted by the Department of Forestry, Fisheries and the Environment (DFFE) on 27 July 2021 for the above-mentioned project.

A copy of the EA is attached hereto. The reasons for the decision are detailed in Annexure 1 of the EA.

Parties have the right to appeal against the EA in terms of the National Appeal Regulations, 2014 (refer to the attached copy of these Regulations). Should any person wish to lodge an appeal against this EA, he/she must submit the appeal in writing in the prescribed form to the Director: Appeals and Legal Review at DFFE at the below mentioned addresses:

- By email: appeals@environment.gov.za;
- By hand: Environment House, 473 Steve Biko, Arcadia, Pretoria, 0083; or
- By post: Private Bag X447, Pretoria, 0001.

A copy of the appeal must also be submitted to the Applicant, Environmental Assessment Practitioner (see contact details below), any registered Interested and Affected Party and any organ of state with interest in the matter within 20 days from the date that the notification of the decision was sent.

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at https://www.environment.gov.za/documents/forms#legal_authorisations or request a copy of the documents at appeals@environment.gov.za.

Regards
Donavan Henning

Nemai Consulting
Tel : [+27 11 781 1730](tel:+27117811730)
Fax : [+27 11 781 1731](tel:+27117811731)
Mobile : [+27 82 891 0604](tel:+27828910604)
Email : donavanh@nemai.co.za
Address : 147 Bram Fischer Drive Ferndale, 2194, South Africa
Postal Address : PO Box 1673, Sunninghill, 2157



FINAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: Scoping and Environmental Impact Assessment
for the proposed development of the 279 MW Kwagga Wind Energy Facility 1 and associated
infrastructure near Beaufort West in the Western Cape

Dear Lizande

Your professionalism, feedback report and commitment as well as dedication, outstanding, highly commendable and deeply appreciated!

Many, many thanks!

Sincerely

Bambie

From: Lizande Kellerman <LKellerman@csir.co.za>
Sent: Friday, July 23, 2021 6:28 PM
To: Bambie Heiberg <bambie@karoogateway.co.za>
Cc: Rob Invernizzi <Rob.Invernizzi@abo-wind.com>; 'Pikkie Siebrits' <pikkie@aifa.co.za>; strohl@caa.co.za; D
hiveshni Moodley <DMoodley1@csir.co.za>; 'Gawie Makkink' <gawie@origintrp.co.za>
Subject: RE: Notification of the Submission of Final Scoping Reports for the three Kwagga Wind Energy Facilities, near Beaufort West, Western Cape

Hi Bambie,

I trust you are well!

As discussed telephonically this afternoon, the Scoping and EIA processes for the three proposed Kwagga wind farms are still underway - we have recently submitted the Final Scoping Reports, and once we have received acceptance of these reports from the national Department of Forestry, Fisheries and the Environment (DFFE) (which will mark the end of the Scoping Phase of these projects), we are proceeding with the EIA Phase. You have been registered as an Interest and/or Affected Party on our project stakeholder database and will receive future correspondence regarding progress on the EIA process for these projects. You will also have the opportunity to provide comment on the Draft EIA Reports which will be released for a 30-day comment period.

Also, early on since February this year the Project Developer, ABO Wind renewable energies (Pty) Ltd has been in contact with the SACAA about the proposed Kwagga wind farms and the need to apply for an obstacle evaluation assessment. This was necessitated following from a Screening Tool Report that was generated for the proposed Kwagga WEF 1 using the following classification: Utilities Infrastructure | Electricity | Renewable | Wind. The map of the relative Civil Aviation (Wind) theme sensitivity generated and

included in the Screening Tool depicted that the northern portion of the proposed Kwagga WEF 1 project site is of 'high' sensitivity with the classification of "dangerous and restricted airspace", whereas the southern portion of the site is of 'low' sensitivity from a civil aviation perspective i.e. there are no major or other types of civil aviation aerodromes or buffers that intersect with the southern portion of the proposed development footprint. Both Kwagga WEF 2 and Kwagga WEF 3 are also of 'low' sensitivity from a civil aviation perspective and therefore of no serious concern.

However, the potential high sensitivity from a civil aviation perspective identified by the Screening Tool for Kwagga WEF 1 was subsequently verified based on said liaison with the SACAA whom have recommended the Project Developer to have an aeronautical impact study undertaken to determine the potential impact of the proposed wind farms on any civil aviation installations and/or air traffic and navigational services that might be located within at least a 50 km radius of the proposed project cluster. ABO Wind has then appointed Tsela Aeronautical (Pty) Ltd to undertake such an impact study, the report of which is also to inform the Compliance Statement to be compiled by the CSIR in terms of the Protocol specified for the Civil Aviation theme and published in Government Notice 320 of 20 March 2020. This Compliance Statement will form part of the EIA Report which will be submitted to the DFFE for decision-making.

Note that the aeronautical impact study was commissioned based on preliminary turbine layouts available for high level assessment during the Scoping Phase of the three projects, but following from the specialists findings during the Scoping Phase, the final turbine layouts are adjusted to suit the environmental sensitivities identified on site that will only be confirmed during the EIA Phase, and which the aeronautical impact study will then have to take into consideration, hence the study is still in progress.

Therefore, the final wind farm applications to ATNS for each of the three proposed Kwagga wind farm projects will be done based on the revised turbine layouts, which will have been thoroughly assessed by the specialists during the EIA Phase and approved by DFFE, in addition to the findings and recommendations specified in the impact study report from Tsela.

Thanks again for your interest in these projects and correspondence received to date. We will keep you informed of progress in due course.

Please do not hesitate to contact me should you have any questions, or require further clarity in this matter.

Lizande

Hi Rob

Sincerely

Bambie

Good afternoon Bambie and Lizell

Trust you are both well.

EXECUTIVE SUMMARY, pg 292

FINAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: Scoping and Environmental Impact Assessment
for the proposed development of the 279 MW Kwagga Wind Energy Facility 1 and associated
infrastructure near Beaufort West in the Western Cape

assessment to be completed.

Kind regards

Rob Invernizzi | ABO Wind renewable energies (Pty) Ltd

Mobile: +27 (0) 73 265 8575 | Phone: +27 (0) 21 180 3672 | Email: <mailto:rob.invernizzi@abo-wind.com> rob.invernizzi@abo-wind.com

From: Bambie Heiberg <bambie@karoogateway.co.za <mailto:bambie@karoogateway.co.za> >
Sent: Thursday, 22 July 2021 13:02
To: 'Lizande Kellerman' <LKellerman@csir.co.za <mailto:LKellerman@csir.co.za> >; Rob Invernizzi <Rob.Invernizzi@abo-wind.com <mailto:Rob.Invernizzi@abo-wind.com> >
Cc: 'Pikkie Siebrits' <pikkie@aifa.co.za <mailto:pikkie@aifa.co.za> >; strohl@caa.co.za <mailto:strohl@caa.co.za> >; 'Dhiveshni Moodley' <DMoodley1@csir.co.za <mailto:DMoodley1@csir.co.za> >
Subject: RE: Notification of the Submission of Final Scoping Reports for the three Kwagga Wind Energy Facilities, near Beaufort West, Western Cape

Dear Rob

Still URGENTLY awaiting your feedback in this very important matter.

Sincerely

Dr Heiberg

From: Lizande Kellerman <LKellerman@csir.co.za <mailto:LKellerman@csir.co.za> >
Sent: Thursday, July 22, 2021 12:29 PM
To: Rob Invernizzi <Rob.Invernizzi@abo-wind.com <mailto:Rob.Invernizzi@abo-wind.com> >
Cc: 'Pikkie Siebrits' <pikkie@aifa.co.za <mailto:pikkie@aifa.co.za> >; strohl@caa.co.za <mailto:strohl@caa.co.za> >; Dhiveshni Moodley <DMoodley1@csir.co.za <mailto:DMoodley1@csir.co.za> >; Bambie Heiberg <bambie@karoogateway.co.za <mailto:bambie@karoogateway.co.za> >
Subject: RE: Notification of the Submission of Final Scoping Reports for the three Kwagga Wind Energy Facilities, near Beaufort West, Western Cape

Dear Rob,

I trust my email finds you well and still in good health!

FINAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: Scoping and Environmental Impact Assessment
for the proposed development of the 279 MW Kwagga Wind Energy Facility 1 and associated
infrastructure near Beaufort West in the Western Cape

The emailed correspondence received from Dr Heiberg and Lizell Stroh below refers. This follows from our notification email about the submission of the Final Scoping Reports for the proposed Kwagga WEF 1-3 project cluster to the DFFE for decision-making on 12 July 2021.

Our internal project team discussions in this matter also refers. Could you kindly please advise if such application and assessment for approval was submitted to the ATNS yet?

Thanks so much, we look forward to your feedback.

Best regards

Lizande

>>> "Bambie Heiberg" <bambie@karoogateway.co.za <mailto:bambie@karoogateway.co.za> > 20 Jul 2021 13:03 >>>

Dear All

As CEO of the Karoo Gateway Airport, I also urgently needs the request by CAA as below, to be confirmed in writing with me.

Thanks Ms Stroh for your very much appreciated follow-up e-mail sent it this urgent matter.

Thanks to you all.

Sincerely

Dr Heiberg

From: Lizell Stroh <StrohL@caa.co.za <mailto:StrohL@caa.co.za> >
Sent: Tuesday, July 20, 2021 11:51 AM
To: ems@csir.co.za <mailto:ems@csir.co.za>
Cc: Bambie Heiberg <bambie@karoogateway.co.za <mailto:bambie@karoogateway.co.za> >
Subject: FW: Notification of the Submission of Final Scoping Reports for the three Kwagga Wind Energy Facilities, near Beaufort West, Western Cape

Good day Team, please confirm that the relevant application process and Procedures was followed, for an Assessment (Approval) granted by the SACAA, was submitted to the ATNS for processing as per CAA website new procedure as indicated.

<http://www.caa.co.za/Pages/Obstacles/Urgent-notice.aspx>

Obstacle Notice 1/2021 - Appointment of New Windfarm Obstacle Application Service Provider

Kindly be advised, as of the 1st of May 2021 Air Traffic and Navigation Services (ATNS) has been appointed as the new Obstacle application Service Provider for Windfarms and later Solar Plants. Their responsibility would pertain to the assessments, maintenance, and all other related matters in respect to Windfarms and in due time Power Plant assessments.

1. an report to be submitted with your application.

The contact details for ATNS is:

ObstacleEvaluator
ATNSHeadOfficeTel: +2711 6071000(AskforObstacleEvaluators)
Email: ObstacleEvaluators@atns.co.za <mailto:ObstacleEvaluators@atns.co.za>

Kind regards

Lizell Stroh
Obstacle Inspector
PANS-OPS Section

Air Navigation Services Department

Tel: +27 11 545 1232 | Mobile: +27 083 461 6660

Email: Strohl@caa.co.za <mailto:Strohl@caa.co.za> | www.caa.co.za

Follow us on

"We spend most of our waking lives at work, so it's important that we do what we love and love what we do."

Richard Branson

FINAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: Scoping and Environmental Impact Assessment
for the proposed development of the 279 MW Kwagga Wind Energy Facility 1 and associated
infrastructure near Beaufort West in the Western Cape

From: ems <ems@csir.co.za <mailto:ems@csir.co.za> >
Sent: Tuesday, July 13, 2021 10:22 AM
To: ems@csir.co.za <mailto:ems@csir.co.za>
Subject: Notification of the Submission of Final Scoping Reports for the three Kwagga Wind Energy
Facilities
, near Beaufort West, Western Cape

Dear Interest and/or Affected Party,

RE: NOTIFICATION OF THE SUBMISSION OF THE FINAL SCOPING REPORTS TO THE COMPETENT AUTHORITY (i.e.
DFFE) FOR D
ECISION-MAKING FOR THE DEVELOPMENT OF THE THREE KWAGGA WIND ENERGY FACILITIES; NAMELY, THE 279 MW
KWAGGA WEF
1 (DFFE Ref. 14/12/16/3/3/2/2070), THE 341 MW KWAGGA WEF 2 (DFFE Ref. 14/12/16/3/3/2/2071) AND THE
204.6 MW K
WAGGA WEF 3 (DFFE Ref. 14/12/16/3/3/2/2072), AND ITS ASSOCIATED INFRASTRUCTURE, NEAR BEAUFORT WEST
IN THE WES
TERN CAPE PROVINCE

Further to the emails below, this serves as a notification that the Final Scoping Reports for the
above-ment
ioned proposed projects have been submitted to the Competent Authority, i.e. the National
Department of Fores
try, Fisheries, and the Environment(DFFE), for decision-making in terms of Regulation 21 (1) (a)
of the 2014
National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) Environmental Impact
Assessment (E
IA) Regulations (as amended).

The Draft Scoping Reports were made available to all Interested and Affected Parties (I&APs),
Organs of Stat
e and stakeholders for a 30-day review period extending from 28 May 2021 to 28 June 2021
(excluding public ho
lidays). All comments and issues raised as part of the comment period have been captured in a
Comments and Re
sponses Report and addressed, where applicable, in the Final Scoping Reports.

For your record and information purposes, the Final Scoping Reports can be accessed on the project
website a
nd Google Drive at the following links:

- <https://www.csir.co.za/environmental-impact-assessment>
- https://bit.ly/KWAGGA_WEF1-3_FSRs

A Cover Letter as well as the Executive Summaries of each of the three Final Scoping Reports are
attached to
this email.

As a registered I&AP on this project, you will be duly informed of the outcome of the DFFE's
decision on the
Final Scoping Reports.

We would like to thank you for your participation in these Scoping and EIA processes.

Please do not hesitate to contact us should you have any queries relating to the above or should
you struggl
e to access the documentation at the links provided above.

Kind Regards,
EIA Project Team

ANNEXURE K:

SERVICE LETTERS FROM THE MUNICIPALITY

**MUNISIPALITEIT
VAN
PRINS ALBERT**



**MUNICIPALITY
OF
PRINCE ALBERT**

Rig alle korrespondensie aan:
DIE MUNISIPALE BESTUURDER
Privaatsak X53, Prins Albert, 6930
E-Pos / E-Mail: adminklerk@pamun.gov.za

Address all correspondence to:
THE MUNICIPAL MANAGER
Private Bag X53, Prince Albert, 6930
Tel 023 5411 036 Fax 023 5411 035

The Directors

KWAGGA WIND ENERGY FACILITY 1(PTY)LTD

Unit B1, Mayfair Square
Century Way, Century City
Cape Town
7441

01 June 2022

Via email: rob.invernizzi@abo-wind.com

REMOVAL/DISPOSAL OF GENERAL WASTE AT THE PRINCE ALBERT WASTE DISPOSAL FACILITIES

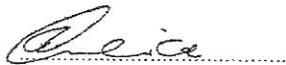
This is to inform you that the Prince Albert Municipality is responsible for the acceptance of household/domestic waste and builders rubble generated within the municipal area at the Prince Albert Municipalities Waste Disposal Facilities in line with our volumetric disposal tariffs as of 01 July 2022.

Waste Disposal Facility (WDF)	Permit License No	GPS Co-ordinates	Available Airspace (Years)
Prince Albert WDF	Original: 16/2/7/J232/D18/Z1/P384 Varied: 19/2/5/4/C2/8/WL0101/17	Longitude: 22°01'52.9146"E Latitude: 33°11'57.9726"S	3 Years
Leeu Gamka WDF	Original: 19/2/5/1/C2/5/WL0077/14 Varied: 19/2/5/4/C2/5/WL0103/17	Longitude: 21°58'15.32"E Latitude: 32°45'37.46"S	3 Years
Klaarstroom WDF	Original: 19/2/5/1/C2/3/WL0076/14 Varied: 19/2/5/4/C2/3/WL0112/17	Longitude: 22°31'56.50"E Latitude: 33°19'14.31"S	9 Years

The treatment of any waste is dealt with in a manner as prescribed by legislation and our permit conditions for the disposal at the respective Disposal Facilities. The wind energy project is located outside of our municipal area and economic radius for collection of waste and we do not render a service in that area. Given the anticipated monthly waste generation volume of 50m³ (18 tonnes) as per the attached letter you are advised to procure the services of a Waste Collection Service Provider.

Should you have further queries feel free to contact Mr Ashley America 023 541 1036 regarding disposal of waste.

Yours Faithfully

A handwritten signature in black ink, appearing to read 'Ashley', followed by a horizontal dotted line.

Ashley America

Manager: Infrastructure Services

Cc: Mr Aldrick Hendricks – Prince Albert Municipality

Mr George v d Westhuizen – Prince Albert Municipality

ABO Wind renewable energies (PTY) LTD, Unit B1, Mayfair Square, Century
Way, Century City, Cape Town, 7441, South Africa

ATT: George van der Westhuizen
Senior Manager Operations
Prince Albert Municipality

Kwagga Wind Energy Facility 3 (Pty) Ltd

Unit B1, Mayfair Square
Century Way, Century City
Cape Town
7441
South Africa
Mobile: +27 (0) 73 355 6575
Phone: +27 (0) 21 162 3672

Rob Invernizzi
Rob.Invernizzi@abo-wind.com

26 October 2021

Dear Mr van der Westhuizen,

**REQUEST FOR CONFIRMATION OF SOLID WASTE SERVICES AVAILABILITY FOR THE PROPOSED
CONSTRUCTION AND OPERATION OF THE KWAGGA WIND ENERGY FACILITY 3**

ABO Wind renewable energies (PTY) LTD, on behalf of Kwagga Wind Energy Facility 3 (Pty) Ltd, is developing a wind energy project within the Central Karoo District Municipality, approximately 70km north-east of the town of Prince Albert, with the intention of bidding the project into the government-run Renewable Energy Independent Power Producer Procurement Programme (REIPPP) or similar private or public-run power procurement program.

The project area of Kwagga Wind Energy Facility 3 is located on the following properties:

- Portion 1 of the Farm Arthurs Kraal No. 386
- Portion 2 of the Farm Arthurs Kraal No. 386
- Portion 3 of the Farm Arthurs Kraal No. 386
- The Farm Annex Taaibos No. 21
- Portion 4 of the Farm Cyferfontein No. 115
- Portion 5 of the Farm Cyferfontein No. 115
- Portion 6 of the Farm Cyferfontein No. 115
- Portion 8 of the Farm Cyferfontein No. 115
- Portion 5 of the Farm Muis Kraal No. 373
- Portion 7 of the Farm Muis Kraal No. 373

A site locality map is attached as Annexure A. Corner coordinates of the site are attached as Annexure B. A Google Earth location file is submitted together with this application.

As part of the due professional care process, ABO Wind would like to demonstrate the availability of municipal services from the Municipality for the proposed project. Specifically, this letter constitutes a request to the Municipality for a non-binding confirmation of the following municipal service:

Disposal of solid waste from construction activities:

It is estimated that during the 24 month construction phase, the project would generate approximately 50m³ of solid waste per month. Solid waste includes but is not limited to packaging material, building rubble, discarded bricks, wood, concrete and domestic waste. We therefore kindly request the Municipality to provide the details of dump sites for disposal of such solid waste, including:

- Location of dump site
- Name
- licence number
- capacity

We kindly request a letter from the Municipality for non-binding confirmation of the provision of these services. Please address your response to:

ATT: The Directors
KWAGGA WIND ENERGY FACILITY 3 (PTY) LTD
Unit B1, Mayfair Square
Century Way, Century City
Cape Town
7441

If you need any more information, please do not hesitate to contact me.

Yours sincerely



Rob Invernizzi

General Manager

**MUNISIPALITEIT
VAN
PRINS ALBERT**



**MUNICIPALITY
OF
PRINCE ALBERT**

Rig alle korrespondensie aan:
DIE MUNISIPALE BESTUURDER
Privaatsak X53, Prins Albert, 6930

E-Pos / E-Mail: adminklerk@pamun.gov.za

Address all correspondence to:
THE MUNICIPAL MANAGER
Private Bag X53, Prince Albert, 6930

Tel 023 5411 036 Fax 023 5411 035

The Directors

KWAGGA WIND ENERGY FACILITY 1 (PTY)LTD

Unit B1, Mayfair Square
Century Way, Century City
Cape Town
7441

01 June 2022

Via email: rob.invernizzi@abo-wind.com

Request for confirmation of water and municipal services availability for the proposed construction and operation of the Kwagga Wind Energy Facility 1

We refer to the **Kwagga Wind Energy Facility 1**

This serves as a non-binding confirmation of the following municipal services:

1. Use of a water source from the Prince Albert Municipality:

The estimated consumption of 8,333kl/month during the 24-month construction period, and the lowered consumption during the 20-year operational lifespan can be accommodated within our existing supply system. Please note that potable water is available within the municipal area and will have to be carted at your own cost to your site utilising your own water tankers. Water will be available at current bulk consumption municipal tariffs.

Once the project is approved you can contact the Prince Albert Municipality Infrastructure Services Dept. to confirm what the specified technical requirements are and a metered abstraction point will be provided following application for a new service connection.

Yours faithfully

A handwritten signature in black ink, appearing to read 'Ashley', followed by a horizontal dotted line.

Mr Ashley America

Manager: Infrastructure Services

Cc: Mr Aldrick Hendircks – Prince Albert Municipality
Mr George v d Westhuizen – Prince Albert Municipality
Mr PW Erasmus – Prince Albert Municipality
Mrs Jo-Verda Ladouce – Prince Albert Municipality

ABO Wind renewable energies (PTY) LTD Unit B1, Mayfair Square, Century
Way, Century City, Cape Town, 7441, South Africa

ATTN: George van der Westhuizen
Senior Manager Operations
Prince Albert Municipality

Kwagga Wind Energy Facility 3 (Pty) Ltd

Unit B1, Mayfair Square
Century Way, Century City
Cape Town
7441
South Africa
Mobile: +27 (0) 73 265 8575
Phone: +27 (0) 21 180 3672

Rob Invernizzi
Rob.Invernizzi@abo-wind.com

26 October 2021

Dear Mr van der Westhuizen,

**REQUEST FOR CONFIRMATION OF WATER AND MUNICIPAL SEWAGE SERVICES AVAILABILITY
FOR THE PROPOSED CONSTRUCTION AND OPERATION OF THE KWAGGA WIND ENERGY
FACILITY 3**

ABO Wind renewable energies (PTY) LTD, on behalf of Kwagga Wind Energy Facility 3 (Pty) Ltd, is developing a wind energy project within the Central Karoo District Municipality, approximately 70km north-east of the town of Prince Albert, with the intention of bidding the project into the government-run Renewable Energy Independent Power Producer Procurement Programme (REIPPPP) or similar private or public-run power procurement program.

The project area of Kwagga Wind Energy Facility 3 is located on the following properties:

- Portion 1 of the Farm Arthurs Kraal No. 386
- Portion 2 of the Farm Arthurs Kraal No. 386
- Portion 3 of the Farm Arthurs Kraal No. 386
- The Farm Annex Taalbos No. 21
- Portion 4 of the Farm Cyferfontein No. 115
- Portion 5 of the Farm Cyferfontein No. 115
- Portion 6 of the Farm Cyferfontein No. 115
- Portion 8 of the Farm Cyferfontein No. 115
- Portion 5 of the Farm Muis Kraal No. 373
- Portion 7 of the Farm Muis Kraal No. 373

A site locality map is attached as Annexure A. Corner coordinates of the site are attached as Annexure B. A Google Earth location file is submitted together with this application.

As part of the due professional care process, ABO Wind would like to demonstrate the availability of municipal services from the Municipality for the proposed project. Specifically, this letter constitutes a request to the Municipality for a non-binding confirmation of the following two municipal services:

1) Use of a water resource from the Municipality:

It is estimated that the total water consumption for the 24-month construction period will be 100,000kl with a maximum average monthly requirement of 8,333kl/month. During the 20-year operational lifespan of the project, the water consumption requirements will be low volumes for drinking and sanitation purposes only.

The potable water will be trucked to site, where storage facilities will be provided to store the water. Access and routes will be pre-arranged.

2) Treatment of sewage produced:

Based on our current knowledge, the site's sewage network cannot connect to the municipal waterborne sewage network due to the remote locality of the site. The project company will contract a registered company to store and transport sewage from site to an appropriate municipal treatment facility. Please provide the following details of potential treatment facilities:

- Location of the sewage treatment facility
- Name and licence number of the facility
- Capacity of the facility

We kindly request a letter from the Municipality for non-binding confirmation of the provision of these services. Please address your response to:

ATT: The Directors
KWAGGA WIND ENERGY FACILITY 3 (PTY) LTD
Unit B1, Mayfair Square
Century Way, Century City
Cape Town
7441

If you need any more information, please do not hesitate to contact me.

Yours sincerely



Rob Invernizzi

General Manager

**MUNISIPALITEIT
VAN
PRINS ALBERT**



**MUNICIPALITY
OF
PRINCE ALBERT**

Rig alle korrespondensie aan:
DIE MUNISIPALE BESTUURDER
Privaatsak X53, Prins Albert, 6930
E-Pos / E-Mail: adminklerk@pamun.gov.za

Address all correspondence to:
THE MUNICIPAL MANAGER
Private Bag X53, Prince Albert, 6930
Tel 023 5411 036 Fax 023 5411 035

The Directors

KWAGGA WIND ENERGY FACILITY 1 (PTY)LTD

Unit B1, Mayfair Square
Century Way, Century City
Cape Town
7441

01 June 2022

Via email: rob.invernizzi@abo-wind.com

Request for confirmation of water and municipal services availability for the proposed construction and operation of the Kwagga Wind Energy Facility 1

We refer to the **Kwagga Wind Energy Facility 1**

This serves as a non-binding confirmation of the following municipal services:

This serves as a non-binding conformation of the following municipal services:


1. Treatment of sewerage produced:

Household sewerage generated on your site may be transported to the Waste Water Treatment Oxidation Pond Facilities of the Prince Albert Municipality for discharge and treatment. Only once the sludge/effluent has been classified as a Class B1a by an accredited testing laboratory and confirmation of this submitted will discharge be permitted.

Waste Water Oxidation Pond Facility	Permit License No	GPS Co-ordinates	Capacity (Megaliteres)
Prince Albert WWTW	Original: N/A	Longitude: 22°01'52.9146"E Latitude: 33°11'57.9726"S	06-1.0
Leeu Gamka WWTW	Original: N/A	Longitude: 21°58'15.32"E Latitude: 32°45'37.46"S	0.5
Klaarstroom WWTW	Original: /J33C/CEGI/10065	Longitude: 22°31'56.50"E Latitude: 33°19'14 31"S	0.1

Please note that only registered service providers will be allowed to access our WWTW's. successful service providers will also have to submit a contingency plan for accidental spillage before commencement of any work. The tariff for disposal per discharge only will be in accordance with the basic tariff for rural suction services as applicable at the time (this will not include a suction).

Yours faithfully

A handwritten signature in black ink, appearing to read 'Ashley', followed by a horizontal dotted line.

Mr Ashley America

Manager: Infrastructure Services

Cc: Mr Aldrick Hendircks – Prince Albert Municipality
Mr George v d Westhuizen – Prince Albert Municipality

ANNEXURE L:

CONVEYANCER CERTIFICATE

CONVEYANCER'S CERTIFICATE

I, the undersigned,

HANLIE FERREIRA

a conveyancer, duly admitted and practising as such at STBB SMITH TABATA BUCHANAN BOYES, 2nd Floor, 5 High Street, Roscnpark, Tygervally, BELLVILLE do hereby certify that:

1. an electronic search was conducted in the Deeds Registry, Cape Town in respect of the following property:

PORTION 1 OF THE FARM DWAALFONTEIN WES NO. 377, IN THE KOUP MUNICIPALITY, BEAUFORT WEST REGISTRATION DIVISION, PROVINCE OF THE WESTERN CAPE

Measuring 1 108,7087 (ONE THOUSAND ONE HUNDRED AND EIGHT COMMA SEVEN ZERO EIGHT SEVEN) Hectares

FIRST REGISTERED by Deed of Consolidated Title No. 10965/1950 with Diagram No. 6652/49 relating thereto and HELD by Deed of Transfer No. T6990/1987 and presently registered in the name of **JOHANNES BERNARDUS NIGRINI** under Deed of Transfer No. 22649/1995 ("the Property")

2. There are no endorsements registered against the Property.
3. There are no conditions prohibiting:
 - 3.1. The use of the Property for electricity generation purposes;
 - 3.2. The registration of a notarial lease over the Property;
 - 3.3. The rezoning of the Property from Agricultural Zone to Special Zone;
 - 3.4. The use of the Property for electricity transmission purposes.

DATED at BELLVILLE on 28 JULY 2022


CONVEYANCER

CONVEYANCER'S CERTIFICATE

I, the undersigned,

HANI IF FERREIRA

a conveyancer, duly admitted and practising as such at SIBB SMITH TABATA BUCHANAN BOYES, 2nd Floor, 5 High Street, Rosenpark, Tygervalley, BELLVILLE do hereby certify that:

1. an electronic search was conducted in the Deeds Registry, Cape Town in respect of the following property:

REMAINDER OF PORTION 3 OF THE FARM TYGER POORT NO. 376, IN THE KOUP MUNICIPALITY, DIVISION BEAUFORT WEST, WESTERN CAPE PROVINCE

Measuring 739.4140 (SEVEN HUNDRED AND THIRTY NINE COMMA FOUR ONE FOUR ZERO) Hectares

FIRST REGISTERED by Title Deed No. T7277/1925 with Diagram No. 5932/1962 relating thereto and HELD by Deed of Transfer No. T8102/1982 and presently registered in the name of **JOHANNES BERNARDUS NIGRINI** under Deed of Transfer No. 22649/1995
("the Property")

2. There are no endorsements registered against the Property.
3. There are no conditions prohibiting:
 - 3.1. The use of the Property for electricity generation purposes;
 - 3.2. The registration of a notarial lease over the Property;
 - 3.3. The rezoning of the Property from Agricultural Zone to Special Zone;
 - 3.4. The use of the Property for electricity transmission purposes.

DATED at BELLVILLE on 28 JULY 2022


CONVEYANCER

CONVEYANCER'S CERTIFICATE

I, the undersigned,

HANLIE FERREIRA

a conveyancer, duly admitted and practising as such at STBB SMITH TABATA BUCHANAN BOYES, 2nd Floor, 5 High Street, Rosenpark, Tygervalley, BELLVILLE do hereby certify that:

1. an electronic search was conducted in the Deeds Registry, Cape Town in respect of the following property:

REMAINDER OF THE FARM DWAALFONTEIN NO. 379, IN THE KOUP MUNICIPALITY, BEAUFORT WEST REGISTRATION DIVISION, PROVINCE OF THE WESTERN CAPE

Measuring 2 217,3658 (TWO THOUSAND TWO HUNDRED AND SEVENTEEN COMMA THREE SIX FIVE EIGHT) Hectares

FIRST REGISTERED by Title Deed No. 7278 dated 30 July 1925 with attached diagram thereto and HELD by Deed of Transfer No. T16789/11 and presently registered in the name of **THE TRUSTEES FOR THE TIME BEING OF THE LOTINI TRUST IT209/2010** under Deed of Transfer No. 16790/11 ("the Property")

2. There are no endorsements registered against the Property.
3. There are no conditions prohibiting:
 - 3.1. The use of the Property for electricity generation purposes;
 - 3.2. The registration of a notarial lease over the Property;
 - 3.3. The rezoning of the Property from Agricultural Zone to Special Zone;
 - 3.4. The use of the Property for electricity transmission purposes.

DATED at BELLVILLE on 28 JULY 2022



CONVEYANCER

CONVEYANCER'S CERTIFICATE

I, the undersigned,

HANLIE FERREIRA

a conveyancer, duly admitted and practising as such at STBB SMITH TABATA BUCHANAN BOYES, 2nd Floor, 5 High Street, Rosenpark, Tygervalley, BELLVILLE do hereby certify that:

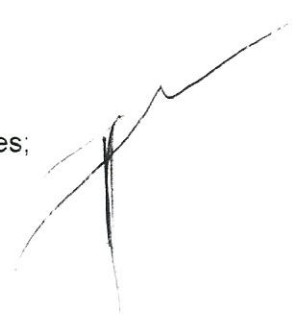
1. an electronic search was conducted in the Deeds Registry, Cape Town in respect of the following property:

REMAINDER OF THE FARM DWAALFONTEIN WES NO. 377, IN THE KOUP MUNICIPALITY, BEAUFORT WEST REGISTRATION DIVISION, PROVINCE OF THE WESTERN CAPE

Measuring 1 108,6427 (ONE THOUSAND ONE HUNDRED AND EIGHT COMMA SIX FOUR TWO SEVEN) Hectares

FIRST REGISTERED by Deed of Consolidated Title No. 7273/1925 with Diagram No. A1184/1923 relating thereto and HELD by Deed of Transfer No. T99989/2003 and presently registered in the name of **P S P TIMBER INDUSTRIES (PTY) LTD REG NO. 2000/027836/07** under Deed of Transfer No. 69090/2005
("the Property")

2. The Property is mortgaged by:
 - 2.1. a first bond in favour of FirstRand Bank Limited under bond B92094/2005. The capital amount of the bond is R600,000.00.
 - 2.2. a second bond in favour of FirstRand Bank Limited under bond B5626/2012. The capital amount of the bond is R800,000.00.
 - 2.3. a third bond in favour FirstRand Bank Limited under bond B5379/2022. The capital amount of the bond is R720,000.00.
3. Apart from the mortgage bonds referred to above, there are no endorsements registered against the Property.
4. There are no conditions prohibiting:
 - 4.1. The use of the Property for electricity generation purposes;

A handwritten signature in black ink, appearing to be 'H. Ferreira', is written over the bottom right portion of the document, specifically over the text of item 4.1.

- 4.2. The registration of a notarial lease over the Property;
- 4.3. The rezoning of the Property from Agricultural Zone to Special Zone;
- 4.4. The use of the Property for electricity transmission purposes.

DATED at BELLVILLE on 28 JULY 2022



A handwritten signature in black ink, consisting of several overlapping loops and strokes, is written over a horizontal line. The signature is positioned to the left of the word 'CONVEYANCER'.

CONVEYANCER

ANNEXURE M:

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT NO OBJECTION LETTER



**agriculture, land reform
& rural development**

Department:
Agriculture, Land Reform and Rural Development
REPUBLIC OF SOUTH AFRICA

Private Bag X120, Pretoria (Tshwane), 0001
Dolpen Building, C/o Annie Botha & Union Street, Riviera, 0084
From: Directorate Soil and Land Management
Tel: 012-319-7634 Fax: 012-329-5938 E-mail: AnnetteS@dalrrd.gov.za/MakhosonkeB@dalrrd.gov.za
Enquiries: Helpdesk Ref: 2022_07_0062

Townscape Planning Solutions
P.O.Box 20831
NOORDBURG
2522

E-mail: adminmp@tpsplanners.co.za

Attention: Mr K.W. Rost

APPLICATION FOR CONSENT USE FOR WIND ENERGY FACILITY ON PORTIONS OF THE FARM DWAALFONTEIN NO. 379, REMAINDER OF THE FARM DWAALFONTEIN WEST NO. 377, PORTION 1 OF THE FARM DWAALFONTEIN NO. 377 AND REMAINDER OF PORTION 3 OF THE FARM TYGER POORT NO. 376, DIVISION BEAUFORT WES, WESTERN CAPE PROVINCE

Your letter bearing reference P22813 dated 27 July 2022 refers.

With reference to the above-mentioned matter, this Department wishes to inform you that there is no objection against the proposed Wind energy Facility of 45 turbines on portions of the above mentioned property, measuring approximately 250 hectares in total, from an agricultural point of view.

However, the following needs to be adhered to:

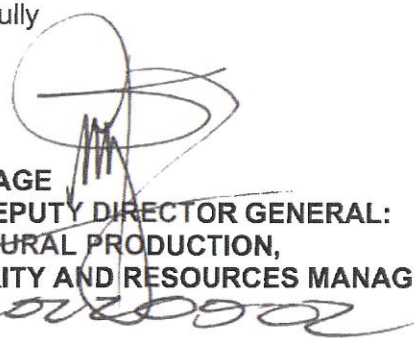
- Any further extension of this proposed project should be reviewed in terms of Subdivision of Agricultural Land Act, 70 (Act 70 of 1970).
- No subdivision for the purposes of demarcating the individual footprint area should be allowed.
- No construction should be placed on area that are of high or unique agricultural value and those that are under cultivation.
- Natural vegetation should be restored after the construction of the plant to prevent degradation.
- Provision should be made for the controls of runoff water were applicable.
- Water needed for the maintenance of the site should not be sourced from existing water

rights allocated to the site or nearby farm portions as it will negatively impact on agricultural production.

- The applicant should take responsibility of the maintenance and status of the natural resource base of the site.
- These comments are valid for five years and if the development does not take place, the proposed rezoned portion must revert back to its original parent portion and remain agricultural land in terms of section (1) of the subdivision of agricultural land act, Act 70 of 1970.
- The application for the registration of the long-term lease shall be considered upon receipt of the positive Record of Decision and a copy of the rezoning approval.

This comment does not exempt any person from any provision of any other law, with special reference to the Conservation of Agricultural Resources Act, 1983 (Act 43 of 1983) and does not purport to interfere with the rights of any person who may have an interest in the agricultural land.

Yours faithfully



MR D SERAGE
ACTING DEPUTY DIRECTOR GENERAL:
AGRICULTURAL PRODUCTION,
BIOSECURITY AND RESOURCES MANAGEMENT
DATE: 20200902

CC: Coenrad Agenbach, Deputy Director: Environmental Impact Evaluation: Special Projects, Department of Environmental Affairs, Private Bag X447, PRETORIA, 0001 Fax: 012 320 7539



ANNEXURE N:

WESTERN CAPE DEPARTMENT OF AGRICULTURE LAND USE MANAGEMENT NO OBJECTION LETTER



OUR REFERENCE : 20/9/2/3/1/081
YOUR REFERENCE : P22813
ENQUIRIES : Cor van der Walt

Townscape Planning Solutions
PO Box 20831
NOORBRUG
2522

Att: Mr. KW Rost

KWAGGA WIND ENERGY FACILITY 1
APPLICATION FOR CONSENT USE: DIVISION BEAUFORT WEST
PORTION 1 OF THE FARM DWAALFONTEIN WEST NO 377
FARM DWAALFONTEIN NO 379
REMAINING EXTENT OF THE FARM DWAALFONTEIN WEST NO 377
REMAINING EXTENT OF PORTION 3 OF THE FARM TYGER POORT NO 376

Your application of 27 September 2022 has reference.

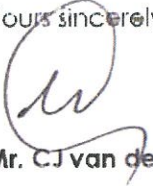
The Western Cape Department of Agriculture: Land Use Management has no objection to the proposed application.

Please note:

- Kindly quote the above-mentioned reference number in any future correspondence in respect of the application.

- The Department reserves the right to revise initial comments and request further information based on the information received.

Yours sincerely



Mr. CJ van der Walt

LANDUSE MANAGER: LANDUSE MANAGEMENT

2022-10-13

Copy:

Beaufort West Municipality

Private Bag 582

BEAUFORT WEST

6970

ANNEXURE O:

BONDHOLDERS CONSENT



FNB Business
Church Corner Building
cnr Church and Courtenay Street
George
Email: Zrossouw2@fnb.co.za
Web: www.fnb.co.za
+27 71 256 3652

27 June 2022

TO WHOM IT MAY CONCERN

Re: Request for Consent

Borrower(s)' name: PSP Timber Industries (Pty) Ltd
Registration no: 2000/027836/07
Property description: Remainder of Farm 377, Dwaalfontein, Beaufort West.

We refer to the abovementioned client and confirm consent for the application to Beaufort Municipality for "consent use change" in order to accommodate "Renewable Energy Structures" i.e. wind turbines on the above-mentioned property.

Kind regards

Zanya Rossouw
Client Portfolio Executive