

APPENDIX

C DFFE PRE- APPLICATION MEETING MINUTES



MEETING NOTES

JOB TITLE	Karreebosch Powerline BAR and WEF Amendment
PROJECT NUMBER	41103843
DATE	02 August 2022
TIME	11h30
VENUE	MS Teams
SUBJECT	Pre-application Meeting with DFFE
DFFE PRE-APPLICATION NO.	2022-07-0009
CLIENT	G7 Renewable Energy Pty Ltd (Applicant: Karreebosch Wind Farm (RF) (Pty) Ltd)
PRESENT	Ashlea Strong (AS) - WSP Thirushan Nadar (TN) - WSP Veronique Fyfe (VF) - G7 Caryn Clarke (CC) - G7 Skye Clarke-Mcleod (SCM) -G7 Collete Alisha Stanfer (CAS) - G7 Chantell Mabusela (CM) -DFFE Dr. Danie Smit (DS) -DFFE Nyiko Nkosi (NN) - DFFE Zama Langa (ZL) - DFFE
APOLOGIES	Megan Govender (MG) - WSP

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www.wsp.com \\corp.pbwan.net\za\Central_Data\Projects\41100xxx\41103843 - Karreebosch WEF Part 2 & BAR\41 ES\01-Reports\01-Pre-application Meeting\2022-08-02_Karreebosch pre-app Meeting_Meeting Notes_Final for Approval.docx

MEETING NOTES


MATTERS ARISING	ACTION
<p>NOTE: These notes constitute a summary of the key discussion points and decisions made during the discussion. They are not intended to reflect the exact discussions held.</p>	
<p>1.0 INTRODUCTIONS AS welcomed, all AS handed over to DFFE and G7 for introductions.</p>	None
<p>2.0 PRESENTATION The presentation is included Appendix A. AS began presentation of the proposed project outlining all the details concerned and noted that the applicant will be the registered Special Purpose Vehicle (SPV) - Karreebosch Wind Farm (RF) (Pty) Ltd. AS noted that the project comprised of two parts i.e. Part 2 Amendment Application of the existing Environmental Authorisation (EA) for the Karreebosch Wind Energy Facility (WEF) and the Basic Assessment (BA) Process for the proposed 132kV powerline and 33/132kV substation. Furthermore, the Part 2 Amendment Application for the Karreebosch WEF will include the submission of the Amended Environmental Management Programme (EMPr) and Final Layout for approval in compliance with Conditions 16 and 18 of the EA. NN mentioned that when the Karreebosch WEF EMPr is released for public comment it must make note that the release is to comply with the conditions of the EA and takes into consideration the information that is included as part of the Part 2 amendment. It must be made clear that the WEF EMPr being submitted because it was not approved as of the original Karreebosch WEF EA. AS confirmed, that the Karreebosch WEF adverts, site notices and letters clearly outline the Part 2 Amendment Process as well as the fact that the EMPr is being submitted in compliance with these two conditions. Will also be mentioned in the amendment report itself. It was noted that there were no additional comments or queries regarding the Karreebosch WEF Part 2 Amendment Process, final layout and EMPr approval process AS note that the servitude requirements for the proposed Karreebosch powerline would be approximately 45m inclusive of the access road, however a 400m wide assessment corridor is being considered in the BA The longest route alternative is approximately 20km which will result in a total servitude footprint of 92 hectares. VF clarified that the 92 hectares is just the area of influence, for assessment, it won't be the entire impacted area. The impacted area would only include areas where new access roads are required and where the towers will be constructed, pylon footings and where the substation is proposed. Therefore the footprint of the impacted area will be significantly smaller than the area of influence. AS mentioned, there are 6 powerline route alternatives, and 2 alternative substation options. AS mentioned, that there is only one powerline routing between the Bon Espirange and Komsberg substations, and the section preceding the Bon Espirange substation VF clarified that the reason for no possible route alternatives for the above-mentioned route is due to the existing operational Roggeveld Wind Farm and the setbacks required between Eskom lines and the turbines. Therefore, this is the only possible way to route the powerline through the area. AS mentioned, that the Option 1A alignment and Option 1 substation are currently preferred. It can be noted that Option 1A is the shortest route alignment for the power line. AS noted that this preference will be confirmed in the BA Report.</p>	<p>WSP noted</p> <p>WSP noted</p> <p>WSP noted this</p>

MEETING NOTES

<p>AS presented a brief overview of the applicable listed activities for the proposed Karreebosch powerline and substation from Listing Notices 1 and 3. Furthermore, a summary of the DFFE Screening tool for the powerline project was also provided.</p> <p>NN noted that the new published standards exclusions for powerlines have been promulgated, but confirmed that they would not be applicable to this project as the Screening tool identified very high and high sensitivity themes.</p> <p>AS confirmed, that the new standards were considered, however due to the presence of very high and high sensitives the new standards will not be applicable.</p> <p>AS mentioned, that the Competent Authority is anticipated to be the DFFE, as it is a Renewable Energy Independent Power Producer Project (REIPPP).</p> <p>DS confirmed this to be accurate.</p> <p>AS mentioned, that the WEF is located entirely within the Komsberg renewable energy development zone (REDZ), and the power line also falls entirely within the Central Strategic Transmission Corridor, therefore noting the applicability of shorter DFFE Review time frame (57-days) for both the WEF Part 2 amendment application and grid BA process.</p> <p>NN mentioned the requirement in the application form for projects in the strategic transmission corridor whereby pre-negotiated routes together with a map is required. These are required as proof so that the department will register the application in such a manner that the shorter time frames are adopted.</p> <p>AS and CC confirmed that signed consent forms have been received for all alternative routes. Furthermore, the consent forms comply with the relevant Gazette requirements (GNR 2313 27 July 2022, Adoption of the Standard for the development and expansion of powerlines and substations within identified geographical areas and the exclusion of the infrastructure from the requirement to obtain an environmental authorisation).</p> <p>AS confirmed that all the above will be attached to the Karreebosch powerline & substation application form when submitted.</p> <p>It was noted that there were no additional comments or queries regarding the Karreebosch grid BA Process.</p> <p>AS briefly outlined the public participation that will be undertaken for both projects (Part 2 and BAR).</p> <p>It was noted that there were no additional comments or queries regarding the proposed public participation process.</p>	<p>DFFE noted</p> <p>WSP noted</p> <p>WSP noted</p>
<p>3.0 CONCLUDING</p> <ul style="list-style-type: none">— AS opened floor to all for questions— No further comments from attendees— Meeting concluded at 12:20	

MEETING NOTES

APPENDIX A - PRESENTATION



DFFE Pre-Application Meeting


Karreebosch Wind Energy Facility and Overhead Powerline

August 2022

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Agenda

1. Introductions
2. Overview of the Projects
 - Background
 - Location
3. Karreebosch Wind Energy Facility (WEF)
 - Permitting Process
 - Proposed amendments
 - Updates to Specialist Studies
 - Part 2 Amendment Process
 - EMPr Update and Final Layout
4. Karreebosch Overhead Powerline (OHPL)
 - Basic Assessment
 - Listed Activities
 - Specialist Assessments as identified by DFFE Screening Tool
 - Specialist Studies commissioned
5. Competent Authority
6. Key Considerations
7. Public Participation Process
8. Timeframes
9. Questions and Discussions
10. Way Forward



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1. Introductions

- G7 Renewable Energies (Pty) Ltd:
 - Veronique Fyfe
 - Caryn Clarke
 - Skye Clarke-McLeod
- WSP Group Africa (Pty) Ltd:
 - Megan Govender (Senior Environmental Consultant)
 - Ashlea Strong (Project Manager)
- Department of Forestry, Fisheries and Environment (DFFE):
 - Nyiko Nkosi
 - Zama Langa
 - Danie Smit



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2. Overview of the Projects

Background

- Applicant:
 - Karreebosch Wind Farm RF (Pty) Ltd
- Projects include:
 - Basic Assessment Process for the Karreebosch 132kV OHPL and 33/132kV substation within the Karoo Hoogland Local Municipality and the Laingsburg Local Municipality in the Northern Cape Province and Western Cape Province; and
 - Part 2 Amendment, and Final Layout and Environmental Management Programme (EMPr) approval for the Karreebosch WEF, within the Karoo Hoogland Local Municipality, Witzenberg Local Municipality and the Laingsburg Local Municipality in the Northern Cape Province and Western Cape Province (EA Ref: 14/12/16/3/3/2/807/AM3).



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2. Overview of the Project



Location

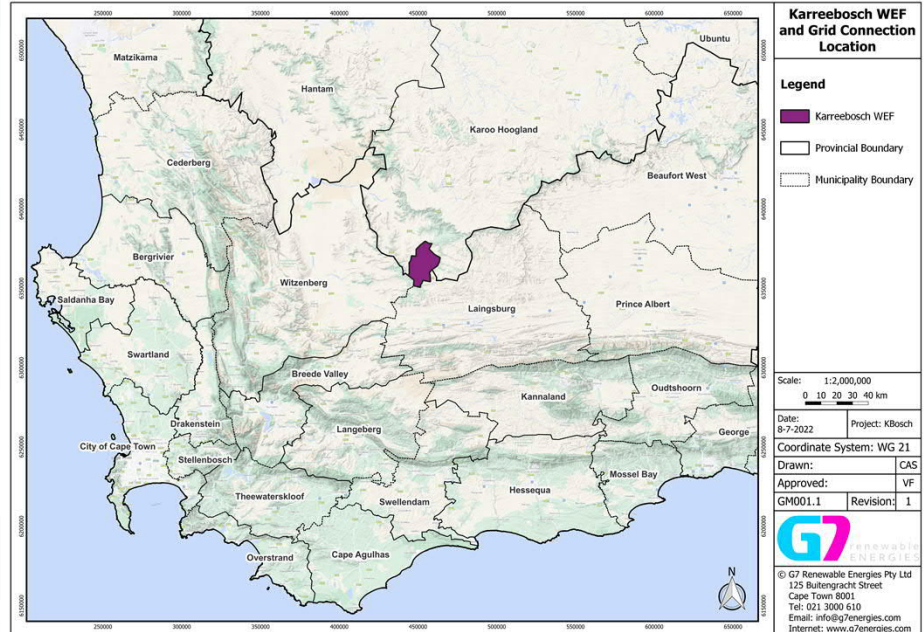
KARREEBOSCH WEF

Province:	Western Cape Province, Northern Cape Province	
Local Municipality:	Laingsburg Local Municipality, Western Cape Province Witzenberg Local Municipality, Western Cape Province Karoo Hoogland Local Municipality, Northern Cape Province	
Farms:	<ul style="list-style-type: none"> Farm Roode Wal No. 187 Farm Appels Fontein No. 201 Portion 1 of Farm Ek Kraal No. 199 Portion 2 (Nuwe Kraal) of Farm Ek Kraal No. 199 Portion 1 of Farm Klipbanks Fontein No. 198 Remainder of Farm Klipbanks Fontein No. 198 Remainder of Farm Wilgebosch Rivier No. 188 	<ul style="list-style-type: none"> Farm Rietfontein No. 197 Remainder of Farm Kareebosch No. 200 Portion 1 of Farm Karreebosch No. 200 Farm Oude Huis No. 195 Portion 1 of Farm Karree Kloof No. 196 Remainder of Farm Brandvalley No. 75

KARREEBOSCH OHPL

Province:	Western Cape Province, Northern Cape Province	
Local Municipality:	Laingsburg Local Municipality, Western Cape Province Karoo Hoogland Local Municipality, Northern Cape Province	
Farms:	<ul style="list-style-type: none"> Portion 2 (Nuwe Kraal) of Farm Ek Kraal No. 199 Remainder of Farm Wilgebosch Rivier No. 188 Remainder of Farm Klipbanks Fontein No. 198 Portion 1 of Farm Klipbanks Fontein No. 198 Remainder of Farm Karreebosch No. 200 Portion 1 of Farm Ek Kraal No. 199 Remainder of Farm Ek Kraal No. 199 	<ul style="list-style-type: none"> Remainder of Farm Bon Espirange No. 73 Farm Rietfontein No. 197 Portion 1 of Farm Bon Espirange No. 73 Farm Aprils Kraal No. 105 Portion 2 of Farm Standvastigheid No. 210 Remainder of Farm Standvastigheid No. 210

2. Overview of the Project



3. Karreebosch WEF



Existing Environmental Authorisations

- Original Applicant: Karreebosch Wind Farm (Pty) Ltd
- EIA for proposed 140MW Karreebosch Wind Energy Facility undertaken by Savannah Environmental (Pty) Ltd in 2015
- Specialist Studies:
 - Heritage and Palaeontological Impact Assessment
 - Agriculture and Soils Impact Assessment
 - Hydrological Impact Assessment
 - Avifaunal Impact Assessment
 - Bat Impact Assessment
 - Ecological Impact Assessment
 - Noise Impact Assessment
 - Social Impact Assessment
 - Visual Assessment
- EA granted in January 2016 (EA ref: 14/12/16/3/3/2/807)

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3. Karreebosch WEF



Existing Environmental Authorisation and Amendments

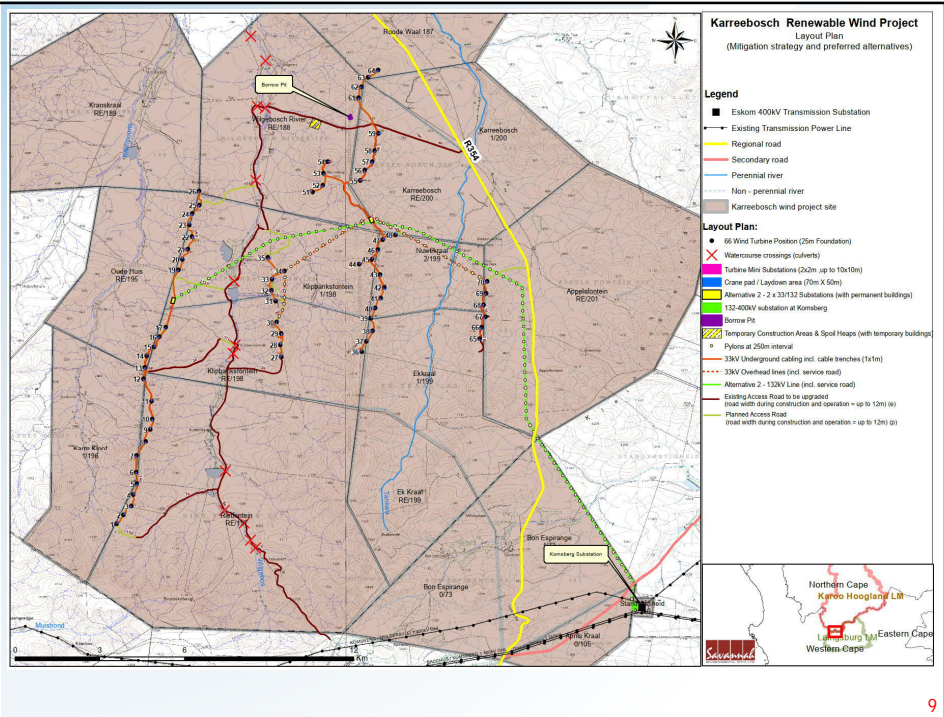
- EA for the Karreebosch WEF was issued on 29 January 2016 - 14/12/16/3/3/2/807
 - 140MW WEF of up to 65 turbines
 - Hub height of up to 100m
 - Rotor diameter of up to 140m
 - Approximately 25km of 132kV overhead powerlines from the onsite substation to Eskom's Komsberg Substation
- Subsequent amendments (EA Ref: 14/12/16/3/3/2/807/AM1, 14/12/16/3/3/2/807/AM2, 14/12/16/3/3/2/807/AM3) included increases in the hub height (up to 125m), rotor diameter (up to 160m), blade length (up to 80m), and minor amendments to the wording of certain conditions of the authorisation, as well as an extension of the validity of the EA to 2026.

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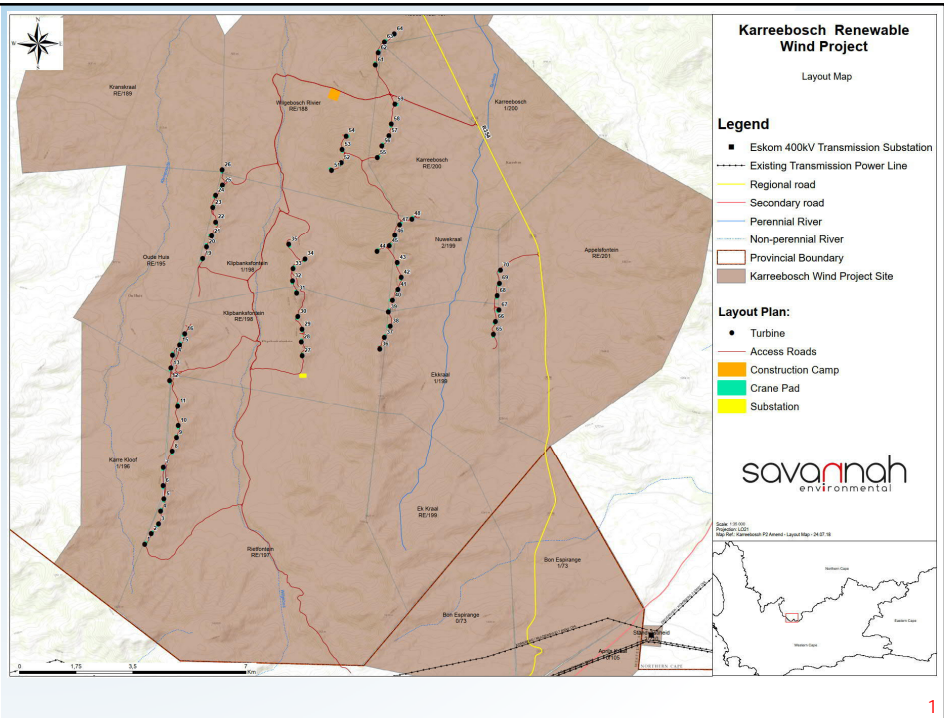
3. Karreebosch WEF

Layout as per January 2016 EA (Ref: 14/12/16/3/3/2/807)



3. Karreebosch WEF

Layout as per the November 2018 Part 2 EA Amendment (Ref: 14/12/16/3/3/2/807/AM2)

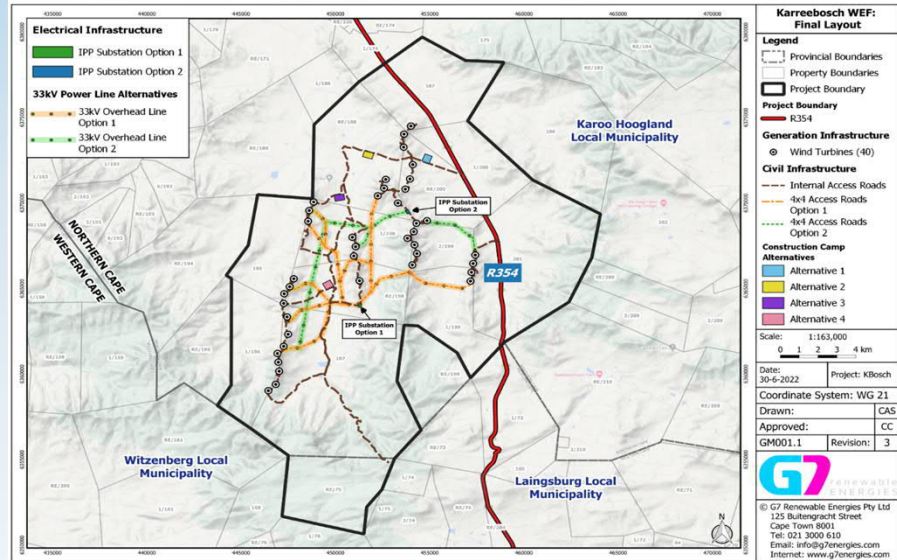


3. Karreebosch WEF

2022 Proposed Final Layout (40 turbines)



Final Layout



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3. Karreebosch WEF



Part 2 Amendment Process

- Proposed Amendments
 - Amend the details of the holder of the EA
 - Number of turbines: Up to 40 turbines (reduced from 65) with a maximum installed capacity of 149.9 MW and export capacity of 140MW
 - Turbine foundation: 30m in diameter and 5m in depth
 - Hub Height: up to 140M
 - Rotor diameter: up to 170M
 - Turbine generating capacity: up to 7.5MW each (with a total generation capacity not exceeding 140MW)
 - Blade length: up to 85 m
 - Additionally, amendments to length and width of access roads, areas occupied by buildings, laydown area, transformer stations and construction camp, capacity of onsite substation and height of fencing
- A Part 2 Amendment Process will therefore need to be undertaken as the increase in hub height and rotor diameter is a substantive amendment

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3. Karreebosch WEF



Part 2 Amendment Process

- Pre-application authority consultation
- Application form submission (and R2000 application fee)
- Appointment of specialists to undertake required specialist study reviews and provide either updated reports or specialist statements
- An Assessment Report (AR) will be compiled. The report is required to include:
 - An assessment of all impacts related to the proposed change
 - Advantages and disadvantages associated with the proposed change
 - Measures to ensure avoidance, management and mitigation of impacts associated with such proposed change
 - Any changes required to the Environmental Management Programme (EMPr) and
 - All relevant specialist input will be included in the assessment reports
- Dissemination of Draft AR for 30-day public participation
- Submission of the Final AR (including the Comment and Response Report) together with the Final EMPr to Competent Authority
- DFFE to Grant or Refuse EA and provide written feedback
- Stakeholder notification of decision on EA Application

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3. Karreebosch WEF



Part 2 Amendment Process

- Review and update (as required) of previous Specialist Studies including:
 - Avifauna
 - Bat
 - Biodiversity (including Rehabilitation Plan, Alien Invasive Management Plan, Search and Rescue Plan and Biological Monitoring Plan)
 - Desktop Geotechnical
 - Surface Water (including floodline assessment and SWMP)
 - Soils and Land Capability
 - Transport
 - Heritage (including Management Plan)
 - Visual
 - Noise
 - Social

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3. Karreebosch WEF

EMPr Update and Final Layout Process

- The EA issued for the Karreebosch WEF indicates that the EMPr and layout submitted as part of the original EIA process were not approved and must be amended to include measures as dictated by the final site layout map and micro-siting and the provisions of the EA
 - Condition 16 – layout
 - Condition 18 – EMPr
- The EMPr must be made available for comments by registered Interested and Affected Parties (I&APs) and the holder of EA must consider such comments
 - Condition 18
- Once amended, the final EMPr must be submitted to the Department of Forestry, Fisheries and Environment (DFFE) for written approval prior to commencement of the activity
- Confirmation:
 - Amended EMPr will be submitted for approval
 - Not a Regulation 37 process as the EMPr is not yet approved
 - Final layout will be submitted as part of the EMPr approval process and will not trigger a Part 2 amendment as the layout is not yet approved



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4. Karreebosch Powerline

Project Infrastructure

- Overhead Powerline
 - 132kV twin tern double circuit overhead powerline
 - Towers will either be steel lattice or monopole structures
 - Pole positions will only be available once the powerline detail design has been completed by the Eskom Design Review Team (DRT)
 - A 400m wide assessment corridor is being considered and has been walked down by the specialists for approval to allow for micro siting of tower positions once the detailed design has been completed
 - It is anticipated that towers will be located on average 200m to 250m apart; however, longer spans may be needed due to terrain and watercourse crossings
- Servitude
 - Registered servitude will fall within 400m wide assessment corridor and will be 31m wide (15.5 m on either side of the centre line)
 - Right of Way servitude (servitude road) will be up to 14m wide (7m on either side of centre line), resulting in a total servitude width of 45m in total
 - Length of the longest powerline route alternative is 20.52 km, which will result in a servitude area of up to 92.3 ha (unlikely to be this much due to the nature of the development).



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4. Karreebosch Powerline



Project Infrastructure

- Substations
 - OHPL routed from the proposed onsite Karreebosch 33/132kV substation (associated with the approved Karreebosch WEF) to the existing Bon Espirange substation, after which it will connect to the existing 400kV Komsberg substation
 - Two alternative 33/132kV onsite substation locations at the Karreebosch WEF site each with a 200m x 150m (3 ha) footprint
 - 200m assessment area surrounding the proposed substations alternatives assessed for micro siting, with a slight funnel leading into the existing Bon Espirange and Komsberg substations to allow for greater flexibility for micro siting for incoming proposed line connections
 - May require an extension of the existing 400kV Komsberg substation, and therefore, the entire Komsberg substation property has been assessed
- Site Access
 - Accessed via roads forming part of the authorised Karreebosch WEF
 - Existing roads will be used as much as possible
 - Additional new access roads may be required to be constructed to provide access to sections of the powerline route
 - New sections of access roads will deviate off existing roads (within the 400m wide assessment corridor), as needed to access tower positions
 - Access roads will likely be gravel roads located up to 14m (Right of Way Servitud) following beneath the OHPL in order to access tower structures for construction and maintenance purposes

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4. Karreebosch Powerline



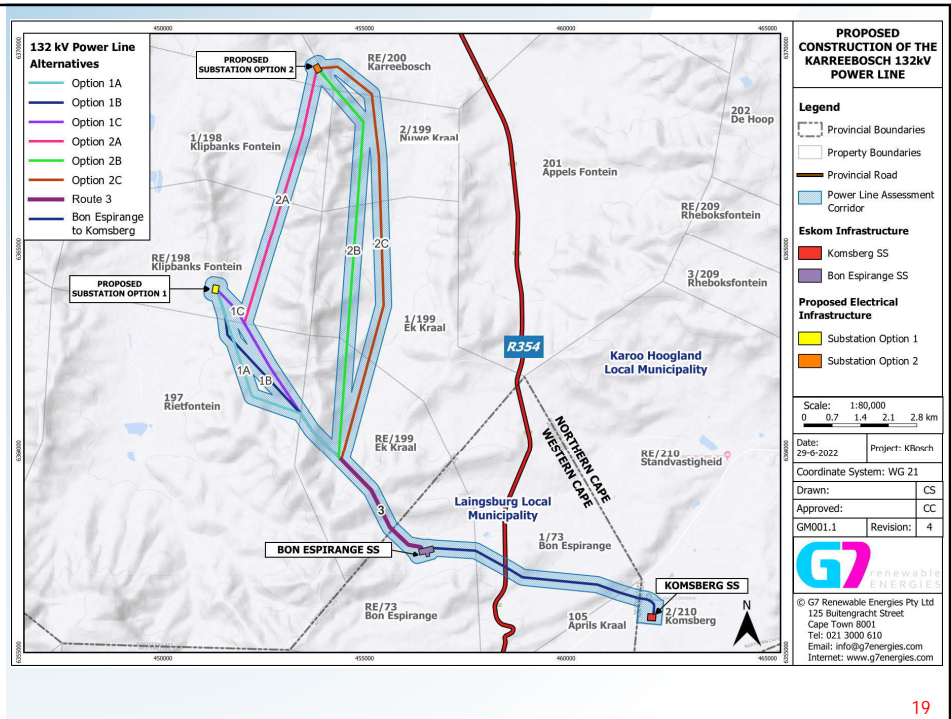
Project Infrastructure

- Alternatives
 - Six (6) OHPL route alternatives (Options 1A, 1B, 1C, 2A, 2B and 2C) are proposed between the Karreebosch WEF onsite 33/132kV substation (with alternatives: Option 1 and Option 2) and the existing Bon Espirange Substation
 - Only one (1) OHPL route is technically feasible for the section of the proposed powerline directly preceding the existing Bon Espirange Substation and for the section connecting the Bon Espirange substation to the Komsberg substation (Route 3), which is approximately 9.2 km in length
 - No alternatives can therefore be provided for this section of the OHPL (Route 3)

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4. Karreebosch Powerline



4. Karreebosch Powerline




Listed Activities

- Listing Notice 1 - GNR 327

LISTED ACTIVITY	DESCRIPTION OF PROJECT ACTIVITY
<p>Activity 11: The development of facilities or infrastructure for the transmission and distribution of electricity— (i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts;</p>	<p>The project involves the construction of a 132kV double circuit OHPL (400m wide corridor) to evacuate electricity from the authorised Karreebosch WEF to feed it into the National Grid. The project will also include the Karreebosch on-site 33/132kV substation as well as the potential expansion of the Komsberg Substation.</p> <p>The transmission lines are outside of the urban edge.</p>
<p>Activity 12 (ii), (a) and (c): The development of— (ii) infrastructure or structures with a physical footprint of 100 square metres or more, where such development occurs— (a) within a watercourse; or (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse</p>	<p>The proposed development will entail the construction of OHPL tower structures, access roads and associated infrastructure (buildings and other infrastructure) with a physical footprint of approximately 100m² or more within a surface water feature / watercourse or within 32m of a surface water feature / watercourse. The infrastructure associated with the proposed development will avoid the identified surface water features / watercourses where possible.</p> <p>A Surface Water Impact Assessment is being undertaken to assess the impacts of the proposed development on the identified surface water features / watercourses.</p>
<p>Activity 14 The development and related operation of facilities or infrastructure, for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic metres or more but not exceeding 500 cubic metres.</p>	<p>More than 80 m³ (but less than 500 m³) of diesel will be temporarily stored in above ground storage tanks within the construction camp for use during the construction phase. It should be noted that the above ground diesel storage tanks will be located within the Karreebosch WEF construction camp to be used for both the WEF and OHPL during construction.</p>

4. Karreebosch Powerline




Listed Activities (Cont.)

- [Listing Notice 1 - GNR 327](#)

LISTED ACTIVITY	DESCRIPTION OF PROJECT ACTIVITY
Activity 19 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 a watercourse	The proposed development will involve the excavation, removal, infilling, depositing and moving of 10m ³ or more of soil, sand, shells, shell grit, pebbles or rock from a watercourse for the construction of the OHPL servitude access roads. A Surface Water Impact Assessment is being undertaken to assess the impacts of the proposed development on the identified surface water features / watercourses.
Activity 24 The development of a road— (i) with a reserve wider than 13.5 meters, or where no reserve exists where the road is wider than 8 metres;	The width of the OHPL servitude road to be developed as part of the project will be up to 14m wide.
Activity 27: The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for: (i) the undertaking of a linear activity; (ii) maintenance purposes undertaken in accordance with a maintenance management plan.	The proposed development includes the clearance of an area of 1 hectare (ha) or more, but less than 20ha of indigenous vegetation. This is not triggered as a result of the proposed power line as it is linear infrastructure. The proposed development however involves the construction of one (1) new substation (up to 3ha) and one (1) new O&M building (up to 1ha) which will occupy an area of approximately 4 ha in total. All vegetation on the substation and O&M building sites will need to be cleared for construction. Cleared vegetation will amount to an area of up to approximately 4 ha. A Terrestrial Biodiversity Impact Assessment is being undertaken to assess the impacts of the proposed development on the biodiversity in the study area.
Activity 28: 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) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare; excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.	The proposed development will entail the construction of OHPL tower structures, access roads and associated infrastructure (buildings and other infrastructure) with a physical footprint of greater than 1 ha outside of an urban area on land that is zoned for agriculture.

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4. Karreebosch Powerline




Listed Activities (Cont.)

- [Listing Notice 1 - GNR 327](#)

LISTED ACTIVITY	DESCRIPTION OF PROJECT ACTIVITY
Activity 47 The expansion of facilities or infrastructure for the transmission and distribution of electricity where the expanded capacity will exceed 275 kilovolts and the development footprint will increase.	The project will also include the potential expansion of the Komsberg Substation.
Activity 48 The expansion of – (i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more; where such expansion occurs— (a) within a watercourse; or (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;	The OHPL will require the expansion of roads and other infrastructure by 100m ² or more within a watercourse or within 32m from a watercourse. Some of the existing access roads will need to be upgraded to be used as the OHPL servitude access roads and will traverse watercourses. A Surface Water Impact Assessment is being undertaken to assess the impacts of the proposed development on the identified surface water features / watercourses.
Activity 56 The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre— (i) where the existing reserve is wider than 13.5 meters; or (ii) where no reserve exists, where the existing road is wider than 8 metres; excluding where widening or lengthening occur inside urban areas.	For the OHPL, internal access roads will be required to access the substations, O&M building and powerline towers. Existing roads will be used wherever possible; however, where required, existing access roads will need to be upgraded by widening more than 6m and/or by lengthening by more than 1km.

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4. Karreebosch Powerline




Listed Activities (Cont.)

- Listing Notice 3 - GNR 324

LISTED ACTIVITY	DESCRIPTION OF PROJECT ACTIVITY
<p>Activity 4: The development of a road wider than 4 metres with a reserve less than 13.5 metres.</p> <p>g. Northern Cape ii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas; (ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans.</p> <p>i. Western Cape ii. Areas outside urban areas; (aa) Areas containing indigenous vegetation;</p> <p>Activity 10: The development and related operation of facilities or 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>g. Northern Cape ii. Areas within a watercourse or wetland; or within 100 metres from the edge of a watercourse or wetland; iii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas; (ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans</p>	<p>The OHPL 400m wide corridor including route alternatives traverse Critical Biodiversity Areas (according to the Western Cape Biodiversity Spatial Plan, 2017 and the Northern Cape Critical Biodiversity Areas, 2016) and fall within a National Protected Areas Expansion Strategy Focus Area. The OHPL will require an access road (of wider than 4m but less than 13.5m). The OHPL traverses both the Northern Cape and Western Cape Provinces.</p> <p>A Terrestrial Biodiversity Impact Assessment is being undertaken to assess the impacts of the proposed development on the biodiversity in the study area.</p> <p>More than 80 m³ (but less than 500 m³) of diesel will be temporarily stored in above ground storage tanks within the construction camp for use during the construction period.</p> <p>The OHPL and substation site is outside of an urban area. The site is within Critical Biodiversity Areas (according to the Namakwa District Bioregional Sector Plan 2008 and the Northern Cape Critical Biodiversity Areas, 2016) and fall within National Protected Areas Expansion Strategy Focus Areas.</p> <p>A Terrestrial Biodiversity Impact Assessment is being undertaken to assess the impacts of the proposed development on the biodiversity in the study area.</p>

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4. Karreebosch Powerline



Listed Activities (Cont.)


- Listing Notice 3 - GNR 324

LISTED ACTIVITY	DESCRIPTION OF PROJECT ACTIVITY
<p>Activity 12: 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>g. Northern Cape i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004; ii. Within critical biodiversity areas identified in bioregional plans;</p> <p>i. Western Cape i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004; ii. Within critical biodiversity areas identified in bioregional plans;</p> <p>Activity 14: The development of— (i) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs— (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>g. Northern Cape ii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas; (ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans.</p> <p>i. Western Cape i. Outside urban areas: (ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans.</p>	<p>The construction of the OHPL tower structures, access roads and substation(s) will potentially require the clearance of indigenous vegetation where the combined area to be cleared will exceed 300 m².</p> <p>The OHPL 400m wide corridor including route alternatives and associated infrastructure traverses Critical Biodiversity Areas (according to the Western Cape Biodiversity Spatial Plan, 2017 and the Northern Cape Critical Biodiversity Areas, 2016). The OHPL traverses both the Northern Cape and Western Cape Provinces.</p> <p>A Terrestrial Biodiversity Impact Assessment is being undertaken to assess the impacts of the proposed development on the biodiversity in the study area.</p> <p>The proposed development will entail the construction of OHPL tower structures, access roads and associated infrastructure (buildings and other infrastructure) with a physical footprint of approximately 10m² or more within a surface water feature / watercourse or within 32m of a surface water feature / watercourse.</p> <p>A Surface Water Impact Assessment is being undertaken to assess the impacts of the proposed development on the identified surface water features / watercourses.</p> <p>The OHPL 400m wide corridor including route alternatives and associated infrastructure traverses Critical Biodiversity Areas (according to the Western Cape Biodiversity Spatial Plan, 2017 and the Northern Cape Critical Biodiversity Areas, 2016) and falls within National Protected Areas Expansion Strategy Focus Areas. The OHPL traverses both the Northern Cape and Western Cape Provinces.</p>

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4. Karreebosch Powerline

A Basic Assessment Process is therefore proposed for the Karreebosch Powerline Project




Listed Activities (Cont.)

- Listing Notice 3 - GNR 324

LISTED ACTIVITY	DESCRIPTION OF PROJECT ACTIVITY
<p>Activity 18: The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</p> <p>g. Northern Cape ii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas: (ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans; (ii) Areas within a watercourse or wetland; or within 100 metres from the edge of a watercourse or wetland;</p> <p>i. Western Cape ii. All areas outside urban areas: (aa) Areas containing indigenous vegetation;</p> <p>Activity 23: The expansion of— (i) infrastructure or structures where the physical footprint is expanded by 10 square metres or more; where such expansion occurs— (a) within a watercourse; (c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>g. Northern Cape ii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas: (cc) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; (ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p> <p>i. Western Cape ii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas: (dd) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; (ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p>	<p>For the OHPL, internal access roads will be required to access the substations, O&M building and powerline towers. Existing roads will be used wherever possible; however, where required, existing access roads will need to be upgraded by widening more than 4m and/or by lengthening more than 1 km.</p> <p>The roads fall within Critical Biodiversity Areas (according to the Western Cape Biodiversity Spatial Plan, 2017 and the Northern Cape Critical Biodiversity Areas, 2016) and fall within National Protected Areas Expansion Strategy Focus Areas, within a watercourse and within 100m of a watercourse and areas containing indigenous vegetation. The OHPL traverses both the Northern Cape and Western Cape Provinces.</p> <p>A Terrestrial Biodiversity Impact Assessment is being undertaken to assess the impacts of the proposed development on the biodiversity in the study area.</p> <p>The OHPL will require the expansion of roads and other infrastructure by 10m² or more within a watercourse or within 32m from a watercourse. Some of the existing access roads will need to be upgraded to be used as the OHPL servitude access roads and will traverse watercourses.</p> <p>A Surface Water Impact Assessment is being undertaken to assess the impacts of the proposed development on the identified surface water features / watercourses.</p>

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4. Karreebosch Powerline



DFFE Screening Tool Identified Sensitivities

	Very High Sensitivity	High Sensitivity	Medium Sensitivity	Low Sensitivity
Agriculture Theme			X	
Animal Species Theme		X		
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme		X		
Civil Aviation Theme				X
Defence Theme				X
Palaeontology Theme	X			
Plant Species Theme			X	
Terrestrial Biodiversity Theme	X			

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4. Karreebosch Powerline



DEA Screening Tool Specialist Assessments

- Agricultural
- Landscape/Visual
- Archaeological & Cultural Heritage
- Palaeontology
- Terrestrial Biodiversity
- Aquatic Biodiversity
- Avian
- Civil Aviation
- Radio Frequency Interference (RFI)
- Geotechnical
- Plant Species
- Animal Species

No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
5	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
6	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Avian Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Avifauna_Assessment_Protocols.pdf
8	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf
9	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
1	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
1	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
1	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

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4. Karreebosch Powerline



Specialist Studies Commissioned

SPECIALIST ASSESSMENT	COMMENT
Soils and Agricultural Potential Assessment	A soils and agricultural survey will be undertaken.
Archaeological and Cultural heritage Assessment	The powerline could potentially negatively impact on heritage and archaeological resources. An Archaeological and Heritage Impact Assessment will be undertaken.
Visual Impact Assessment	The powerline could potentially negatively impact sensitive visual receptors. A Visual Impact Assessment will therefore be undertaken.
Terrestrial Biodiversity Impact Assessment	A large portion of the route falls within a CBA and NPAES focus areas. A Terrestrial Biodiversity Assessment has therefore been included in the BA process.
Freshwater Impact Assessment	The proposed route traverses several watercourses. A Freshwater Impact Assessment will therefore be undertaken.
Avifauna Impact Assessment	Due to the potential impacts on birds as a result of the Overhead Powerline, an Avifauna Assessment will be undertaken as part of the BA Process.
Bat Impact Assessment	Due to the potential impacts on bats as a result of the Overhead Powerline, a Bat Impact Assessment will be undertaken as part of the BA Process.
Social Impact Assessment	A detailed social assessment will be prepared. The social assessment will be based on a desktop review and telephonic interviews with key stakeholders.
Geotechnical Assessment	A Geotechnical Assessment will be undertaken as part of the BA Process.
Traffic Assessment	A Traffic Assessment and a Traffic Management Plan will be compiled as part of the BA Process

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4. Karreebosch Powerline

Specialist Studies NOT Commissioned

SPECIALIST ASSESSMENT	COMMENT
RFI	A Radio Frequency Interference (RFI) Study will not be undertaken. During the previous EIA and BA processes the SKA-SA confirmed that the WEF and associated infrastructure will have no impact on the SKA. SKA-SA as well as the South African Radio Astronomy Observatory (SARAO) will be engaged with as part of the Public Participation Process.
Civil Aviation	Civil Aviation was identified as having Low Sensitivity. The Civil Aviation Authority will be included on the project stakeholder database. They will be informed of the proposed Project, and comment will be sought. An Application for the Approval of Obstacles will also be submitted to SACAA.

5. Permitting Process

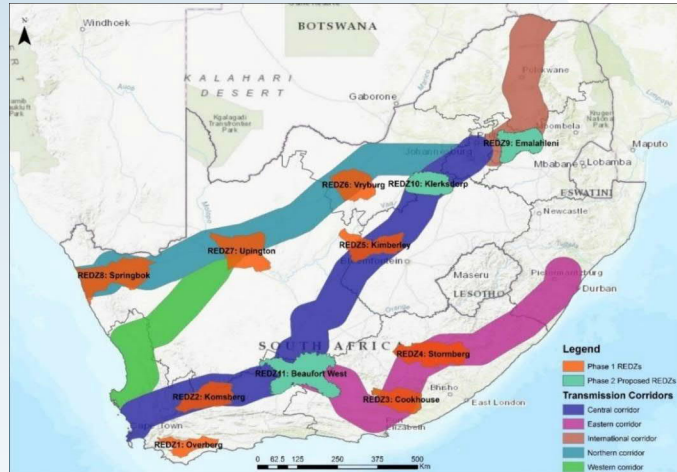
Competent Authority

- Section 24C(2)(a) of NEMA
 - The Minister must be identified as the CA if the activity has implications for international environmental commitments or relations
- GN 779 of 01 July 2016
 - Identifies the Minister as the CA for the consideration and processing of environmental authorisations and amendments thereto for activities related the Integrated Resource Plan (IRP) 2010 – 2030
- DFFE is therefore deemed to be the Competent Authority for both the Part 2 Amendment and BA Process

6. Key Considerations

Key Considerations

- Karreebosch Powerline falls within the Central Strategic Transmission Corridor
- Proposed Karreebosch WEF is located entirely within the Komsberg Renewable Energy Development Zone (REDZ)



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7. Public Participation Process

Public Participation Plan

- Site notices:
 - English and Afrikaans
- Compilation and management of I&AP Database
- Written notification:
 - Owners and occupiers on or adjacent to the proposed project site
 - Municipality Ward Councillor
 - District Municipality
 - Relevant State Departments
- Advertisement (one English and one Afrikaans in local and regional newspaper – Die Burger and Die Noordwester)
- Draft Report Review for 30 days
 - WSP on request
 - Online on the G7 website
 - Hard copies at the Sutherland Public Library and Laingsburg Public Library
- No provision has been made for public or focus group meetings

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8. Timeframes

- Basic Assessment
 - Falls within Central Strategic Transmission Corridor (GN 113)
 - Falls within the Komsberg REDZ (GN 114)
 - Authority decision making timeframe is 57 days
- Part 2 Amendment
 - Falls within the Komsberg REDZ (GN 114)
 - Authority decision making timeframe is 57 days
- Updated EMPr and Final layout
 - Authority decision making timeframe is 30 days (combined with Part 2 process so 57 days)



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6. Questions and Discussion



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7. Way forward



APPENDIX

D COMMENTS



Govender, Megan

From: Clinton Jackson Stakeholder details redacted as per POPIA requirements
Sent: Wednesday, 31 August 2022 15:52
To: Jenna Lavin
Cc: Natasha Higgitt; Nicholas Wiltshire; Strong, Ashlea
Subject: RE: Karreebosch Wind Farm - Walkdown Report

Good afternoon Jenna

Apologies for the delay. Does the new EAP have an appointment letter confirming that they are the new EAP on the project? If yes then that can be forwarded to me and then I can shift the case onto either yours or Ashlea's user account.

There are some notifications that get sent out automatically when a case status is changed, so if we keep it in savannah's name and just upload the docs then they will still receive the notifications instead of you or Ashlea.

Regards
Clinton

From: Jenna Lavin Stakeholder details redacted as per POPIA requirements
Sent: Tuesday, 30 August 2022 16:10
To: Clinton Jackson Stakeholder details redacted as per POPIA requirements
Cc: Natasha Higgitt Stakeholder details redacted as per POPIA requirements; Nicholas Wiltshire Stakeholder details redacted as per POPIA requirements; Strong, Ashlea
Subject: Karreebosch Wind Farm - Walkdown Report

Hi Clinton

I hope you are well. We were appointed by the new EAPs for the Karreebosch WEF project ([Case 7379](#)) to complete the Heritage Walkdown assessment that was required as part of the original EA (attached).

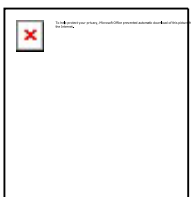
Unfortunately, I was not the creator of the original case, and neither is the EAP that is currently managing the process. As such, I am not able to add the EA to the case, nor am I able to attach our walkdown report to the case.

I have created the walkdown report here: <https://sahris.sahra.org.za/heritage-reports/heritage-walkdown-karreebosch-wef>

Please could you attach these documents to the case?

Many thanks

Jenna

 Jenna Lavin
CTS Heritage
Stakeholder details redacted as per POPIA requirements

Clinton Jackson

Manager: National Inventory Unit



T:
M:
E:
A:

Stakeholder details redacted as per
POPIA requirements

SAHRA EMAIL DISCLAIMER
SAHRA PRIVACY POLICY

Govender, Megan

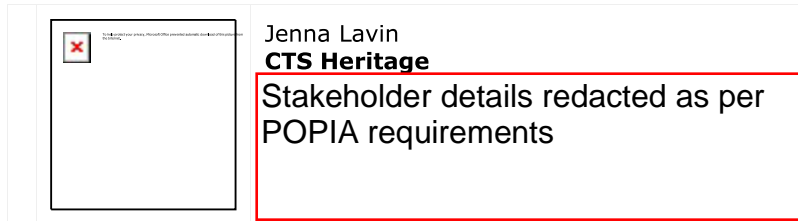
From: Jenna Lavin Stakeholder details redacted as per POPIA requirements
Sent: Wednesday, 07 September 2022 16:20
To: Clinton Jackson
Cc: Natasha Higgitt; Nicholas Wiltshire; Strong, Ashlea
Subject: Re: Karreebosch Wind Farm - Walkdown Report
Attachments: 2022-09-06_WSP_CTS_Confirmation of Appointment.pdf

Hi Clinton,

Please find attached the requested letter.

Kind regards

Jenna



On Wed, Aug 31, 2022 at 3:51 PM Clinton Jackson Stakeholder details redacted as per POPIA requirements

Good afternoon Jenna

Apologies for the delay. Does the new EAP have an appointment letter confirming that they are the new EAP on the project? If yes then that can be forwarded to me and then I can shift the case onto either yours or Ashlea's user account.

There are some notifications that get sent out automatically when a case status is changed, so if we keep it in savannah's name and just upload the docs then they will still receive the notifications instead of you or Ashlea.

Regards

Clinton

From: Jenna Lavin Stakeholder details redacted as per POPIA requirements
Sent: Tuesday, 30 August 2022 16:10
To: Clinton Jackson Stakeholder details redacted as per POPIA requirements
Cc: Natasha Higgitt Stakeholder details redacted as per POPIA requirements; Nicholas Wiltshire Stakeholder details redacted as per POPIA requirements; Strong, Ashlea



Subject: Karreebosch Wind Farm - Walkdown Report

Hi Clinton

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Unfortunately, I was not the creator of the original case, and neither is the EAP that is currently managing the process. As such, I am not able to add the EA to the case, nor am I able to attach our walkdown report to the case.

I have created the walkdown report here: <https://sahris.sahra.org.za/heritage-reports/heritage-walkdown-karreebosch-wef>

Please could you attach these documents to the case?

Many thanks

Jenna

	<p>Jenna Lavin CTS Heritage Stakeholder details redacted as per POPIA requirements</p>
--	--

Clinton Jackson

Manager: National Inventory Unit



T: Stakeholder details redacted as
 M: per POPIA requirements
 E:
 A:

Govender, Megan

From: Strong, Ashlea
Sent: Thursday, 15 September 2022 16:55
To: Stefan Geldenhuys (S); Stakeholder details redacted as per POPIA requirements
Cc: Selwyn Bowers (SS)
Subject: RE: [C] [I] NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

Attachments: Turbine Layout (40).kml; 33kV OHL southern substation.kml; Access Roads.kml; 2022-06-27_Karreebosch 132kV routing with alternatives.kml

Dear Stefan

Attached please find the relevant kmz files as requested.

Kind regards



Ashlea Strong
Principal Associate

Stakeholder details redacted as per POPIA requirements

From: Stefan Geldenhuys (S); Stakeholder details redacted as per POPIA requirements
Sent: Thursday, 08 September 2022 07:00
To: Strong, Ashlea; Stakeholder details redacted as per POPIA requirements
Cc: Selwyn Bowers (SS); Stakeholder details redacted as per POPIA requirements
Subject: RE: [C] [I] NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

Good morning

Please send the coordinates and all detail for me to do the wayleave. I'll indicate if our plant, Copper or Optic Fibre, would be affected by your proposed construction.

Send responds to Stakeholder details redacted as per POPIA requirements

Regards

Stefan Geldenhuys



Building Cabling & Design &
RFO Co-ordinator

Stakeholder details redacted as per POPIA requirements

Govender, Megan

From: Stefan Geldenhuys (S) Stakeholder details redacted as per POPIA requirements
Sent: Friday, 16 September
To: Govender, Megan
Subject: [C] 14/12/16/3/3/2/807/AM3 NEW 140MW WIND FARM, KARREEBOSCH, SUTHERLAND AREA
Attachments: Powerfile - Not Affected Stefan G.pdf; Front Sheets.pdf; WWIP_WSUD3472_22.pdf

Good day

Please find attached your approved Openserve wayleave.

Please note: Our area representative as listed on the wayleave **should be contacted at least 48 hours prior to commencement of construction** in order to show services out on site, as our services on the attached plan(s) are **APPROXIMATE ONLY**.

Please note, wayleave applications will NOT be accepted by this mailbox. Please send all wayleave requests to Stakeholder details redacted as per POPIA requirements

Please ensure that the Openserve service plan(s) are printed in colour (if applicable) and on the correct page size as indicated in the bottom right corner, in order to ensure that services can be seen clearly.

Thanks.

Stefan Geldenhuys



Building Cabling & Design &
RFO Co-ordinator

Stakeholder details redacted as per
POPIA requirements

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<http://www.telkom.co.za/TelkomEMailLegalNotice.PDF> ====



Division of Telkom SA SOC Ltd

10 Jan Smuts Drive
Pinelands
7404

Stefan Geldenhuys

Stakeholder details redacted as per POPIA requirements

Our Ref : WWIP_WSUD3472_22
Your Ref : 14/12/16/3/3/2/807/AM3

16 September 2022

Attention : Megan Govender
Karreebosch Wind Farm RF (Pty) Ltd
Building C
Knightsbridge
33 Sloane Street, Bryanston
2191
South Africa

Wayleave application : NEW 140MW WIND FARM, KARREEBOSCH, SUTHERLAND AREA

NO COPPER OR OPTIC FIBRE SERVICES AFFECTED

With reference to your letter received **07 September 2022**

**Please notify this office immediately if you locate any Open Serve plant that was not indicated.
Please contact our representative**

Stakeholder details redacted as per POPIA requirements

48 hours prior to commencement of construction work.

I hereby inform you that Open Serve approves the proposed work indicated on your drawing in principle. This approval is valid for **06 MONTHS ONLY**, after which reapplication must be made if the work has not been completed.

Any changes or deviations from the original planning during or prior to construction must immediately be communicated to this office.

As per supplied sketches it would appear as if OpenServe infrastructure **would not be affected**.

However, care should still be taken should it become evident that there is in fact OpenServe network present at the actual sites. Such lines should be treated in accordance with, and clearances stipulated in the

Occupational Health and Safety Act no 85 of 1993, Electrical Machinery Regulations 20 - Crossings, and Electrical Machinery Regulations 15 – Clearances of Power Lines. If the specifications could not be met, all deviation costs will be for the applicant's account. We also refer to Section 25 of the Electronic Communication Act 36 of 2005.

Please notify this office immediately if you locate any OpenServe plant not indicated.

It would be appreciated if this office can be notified within 30 days of completion of the construction work. Confirmation is required on completion of construction as per agreed requirements.

)

Should OpenServe infrastructure be damaged while work is undertaken, kindly contact our representative immediately.

All OpenServe rights remain reserved.

Yours faithfully



For Selwyn Bowers
Operations Manager
Wayleave Management: Western Region

PLANT NOT AFFECTED

If any plant not indicated exists and information or supervision is required please contact this office at least 48 hours before any work commences.

Stakeholder details redacted as per POPIA requirements

<u>Refence number</u> WWIP_WSUD3472_22	<u>Marked Up</u> S Geldenhuys	<u>Date</u> 16-Sep-22
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Govender, Megan

From: Strong, Ashlea
Sent: Thursday, 15 September 2022 16:53
To: MIEM Level2
Cc: Govender, Megan
Subject: RE: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPR AND FINAL LAYOUT

Attachments: 2022-06-27_Karreebosch 132kV routing with alternatives.kml; Turbine Layout (40).kml; 33kV OHL southern substation.kml; Access Roads.kml

Tracking:	Recipient	Delivery
	MIEM Level2	
	Govender, Megan	Delivered: 2022/09/15 16:54

Good Afternoon

Please find wetransfer links for the reports as requested:

Basic Assessment Report:

Download link

<https://we.tl/t-lxdUJtKfFu>

Part 2 Amendment and EMPR Amendment:

Download link

<https://we.tl/t-jD7Nxi3kWF>

Please confirm successful download.

Furthermore – the kmz files are attached as requested.

Kind regards



Ashlea Strong
Principal Associate

Stakeholder details redacted as per POPIA requirements

From: MIEM Level2 Stakeholder details redacted as per POPIA requirements

Sent: Wednesday, 31 August 2022 18:31

To: Strong, Ashlea Stakeholder details redacted as per POPIA requirements

Cc: Govender, Megan Stakeholder details redacted as per POPIA requirements

Subject: Re: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPR AND FINAL LAYOUT

Evening

Please take note, in order for this office to provide comments please include the relevant document supported by the kmz files.

Regards

Maj L.R. Kenny

On Tue, Aug 23, 2022 at 9:43 AM Strong, Ashlea wrote:

Stakeholder details redacted as per POPIA requirements

Dear Stakeholder

NOTICE OF THE PROPOSED AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE 140MW KARREEBOSCH WIND ENERGY FACILITY (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED ENVIRONMENTAL MANAGEMENT PROGRAMME AND FINAL LAYOUT FOR THE KARREEBOSCH WIND ENERGY FACILITY (REF: 14/12/16/3/3/2/807/AM3)

Notice is given in terms of Regulation 32 (GNR 326) of the Environmental Impact Assessment (EIA) Regulations, 2014 as amended published under section 24 and 24D of the National Environmental Management Act (No. 107 of 1998) (NEMA) (as amended) for submission of application for an Amendment in terms of a Part 2 Amendment Process described in Regulation 31.

In addition, notice is given of the proposed submission of the final layout and Environmental Management Programme (EMPr) amendment for the Karreebosch Wind Energy Facility (WEF) in terms of Condition 16 and 18 of the Environmental Authorisation (EA).

Karreebosch Wind Farm RF (Pty) Ltd (the Applicant) applied for Environmental Authorisation (EA) for the proposed Karreebosch WEF in 2016. The Department of Environmental Affairs (DEA) (now known as the Department of Forestry, Fisheries and the Environment – DFFE) issued an EA on the 29 January 2016 (Ref No: 14/12/16/3/3/2/807) for the 140MW Karreebosch Wind Energy Facility (WEF). Amendments to this EA were issued on 10 June 2016 (Ref No: 14/12/16/3/3/2/807/AM1), 15 November 2018 (Ref No: 14/12/16/3/3/2/807/AM2) and 30 October 2019 (Ref No: 14/12/16/3/3/2/807/AM3). The proponent, Karreebosch Wind Farm RF (Pty) Ltd (Karreebosch), now wishes to further amend the above-mentioned EA to undertake substantive amendments which includes increasing the hub height and rotor diameter to up to 140 m and 170 m respectively. Other non-substantive amendments include increasing the generation capacity of the individual turbines from up to 5.5MW to up to 7.5MW, as well as administrative amendments (the entire scope of the amendment request is detailed in the amendment report). None of the amendments trigger new listed activities in terms of GNR 327, 325 and 324 of the EIA Regulations, 2014 (as amended). However, the proposed amendments will result in a change in scope of the valid EA. As such, a Regulation 31 Amendment Process in terms the EIA Regulations (GNR 326) of the EIA Regulations, 2014 as amended is applicable. The authorised Karreebosch WEF falls within the Karoo Hoogland Local Municipality, Namakwa District Municipality within the Northern Cape Province as well as the Laingsburg Local Municipality, Central Karoo District Municipality and the Witzenberg Local Municipality, Cape Winelands District Municipality within the Western Cape Province.

WSP Group Africa (Pty) Ltd (WSP) has been appointed as the independent and suitably qualified Environmental Assessment Practitioner (EAP) by Karreebosch, to manage and undertake the Part 2 Amendment process and to amend the EMPr. Parties wishing to formally register as interested and affected parties in order to receive more information and/ or raise their comment(s) on the project amendments, are requested to forward their full contact details to the EAP and disclose their direct business, financial, personal or other interest in the project. Any comments on the proposed project may be submitted to the EAP via the details provided below. Registered interested and affected parties will be forwarded all future project related correspondence.

The Draft Amendment Report and amended EMPr and Final Layout are available from WSP on request and at the venues below for public review and comment for 30 days from **23 August 2022 – 23 September 2022:**

Area	Venue	Street Address	Contact No
Laingsburg	Laingsburg Public Library	Van Riebeeck Street, Laingsburg,	Tel: 023 551 1019
Sutherland	Sutherland Public Library	Sarel Celliers Street, Sutherland, 6920	Tel: 023 571 1429
G7 Website	https://ppp.g7energies.com/KWEF6v78		
Website Instructions	<ul style="list-style-type: none"> • Create an account here https://ppp.g7energies.com • Login and use the specific pathway above to view and/or download the documents 		

Kindly ensure that all comments on the proposed project or requests to be registered as an Interested and Affected Party are submitted to the contact details provided below, by 23 September 2022. Should you have any queries/comments, please do not hesitate to contact the EAP.

We look forward to your participation in this process and your meaningful contributions.

WSP Group Africa (Pty) Ltd

Attention: Megan Govender

(T) 011 361 1300

(F) 011 361 1301

(E) Megan.Govender@wsp.com

Kind regards



Ashlea Strong
Principal Associate

Stakeholder details redacted as per POPIA requirements



WSP in Africa
Building C
Knightsbridge
33 Sloane Street, Bryanston
2191 South Africa

wsp.com

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-LAEmHhHzdJzBITWfa4Hgs7pbKI

Govender, Megan

From: Shehaam Brinkhuis **Stakeholder details redacted as per POPIA requirements**
Sent: Wednesday, 14 September 2022 20:12
To: Strong, Ashlea
Subject: RE: NOTICE OF THE PROPOSED DEVELOPMENT OF THE KARREEBOSCH 132KV OVERHEAD POWERLINE AND SUBSTATION: Draft Basic Assessment Public Review

Hi there

Thank you for your response and documents it is much appreciated.

Kind Regards

Shehaam brinkhuis

From: Strong, Ashlea **Stakeholder details redacted as per POPIA requirements**
Sent: Wednesday, September 14, 2022 5:43 PM
To: Shehaam Brinkhuis **Stakeholder details redacted as per POPIA requirements**
Cc: Govender, Megan <Megan.Govender@wsp.com>
Subject: RE: NOTICE OF THE PROPOSED DEVELOPMENT OF THE KARREEBOSCH 132KV OVERHEAD POWERLINE AND SUBSTATION: Draft Basic Assessment Public Review

Hi Shehaam

Please find wetransfer links for the reports as requested:

Basic Assessment Report:

Download link

<https://we.tl/t-lxdUJtKfFu>

Part 2 Amendment and EMPR Amendment:

Download link

<https://we.tl/t-jD7Nxj3kWF>

Please confirm successful download.

Kind regards

Ashlea



Ashlea Strong
Principal Associate

Stakeholder details redacted as per POPIA requirements

From: Shehaam Brinkhuis **Stakeholder details redacted as per POPIA requirements**
Sent: Wednesday, 14 September 2022 08:54
To: Strong, Ashlea **Stakeholder details redacted as per POPIA requirements**
Cc: Govender, Megan <Megan.Govender@wsp.com>

Subject: FW: NOTICE OF THE PROPOSED DEVELOPMENT OF THE KARREEBOSCH 132KV OVERHEAD POWERLINE AND SUBSTATION: Draft Basic Assessment Public Review

Good day Ashlea Strong

May I please ask for documentation and appendices to be emailed to me as I cannot download them due to errors for the Karreebosch application.

Kind regards

Shehaam Brinkhuis

From: Shehaam Brinkhuis
Sent: Tuesday, September 13, 2022 1:46 PM
To: Megan.Govender@wsp.com
Subject: RE: NOTICE OF THE PROPOSED DEVELOPMENT OF THE KARREEBOSCH 132KV OVERHEAD POWERLINE AND SUBSTATION: Draft Basic Assessment Public Review

Good Day Ms Govender

I am unable to download the documents for this application, none of the links are allowing me to download.
Could I please ask for your assistance in emailing them all appendices to me please.

Kind Regards

Shehaam Brinkhuis

From: Strong, Ashlea **Stakeholder details redacted as per POPIA requirements**
Sent: Tuesday, August 23, 2022 11:05
To: Strong, Ashlea **Stakeholder details redacted as per POPIA requirements**
Cc: Govender, Megan <Megan.Govender@wsp.com>
Subject: NOTICE OF THE PROPOSED DEVELOPMENT OF THE KARREEBOSCH 132KV OVERHEAD POWERLINE AND SUBSTATION: Draft Basic Assessment Public Review

Dear Commenting Authority

NOTICE OF THE PROPOSED DEVELOPMENT OF THE KARREEBOSCH 132KV OVERHEAD POWERLINE AND SUBSTATION WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY AND THE LAINGSBURG LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE AND WESTERN CAPE PROVINCE

Notice is given in terms of Regulation 41(2) of GNR 326 (07 April 2017) published under section 24 and 24D of the National Environmental Management Act (No. 107 of 1998) (NEMA) (as amended) for an application process for Environmental Authorisation (EA) in respect of activities identified in terms of GNR 327 and GNR 324 of the 2014 Environmental Impact Assessment (EIA) Regulations (as amended).

The proponent, Karreebosch Wind Farm (RF) (Pty) Ltd (Karreebosch), proposes to construct a 132kV overhead powerline (OHPL) (up to 21km in length) and onsite 33/132kV substation. The proposed Karreebosch OHPL will evacuate power from the proposed Karreebosch onsite substation associated with the authorised Karreebosch WEF (EA Ref: 14/12/16/3/3/2/807/AM3) and will connect to the existing 400kV Komsberg substation via the existing Bon Espirange substation.

WSP Group Africa (Pty) Ltd (WSP) has been appointed as the independent and suitably qualified Environmental Assessment Practitioner (EAP) to manage and undertake the BA process. Parties wishing to formally register as interested and affected parties (IAPs) in order to receive more information and/ or raise their comment(s) on the proposed project, are requested to forward their full contact details to the EAP and disclose their direct business, financial, personal or other interest in the project. Any comments on the proposed project may be submitted to the EAP via the details provided below. Registered IAPs will be sent all future project related correspondence and notified individually of additional opportunities to participate in the process.

The Draft BA Report has been made available at the links below for your review and comment for 30 days from **23 August 2022**
 – **23 September 2022**.

One Drive Link	<input type="checkbox"/> Karreebosch Public Review
One Drive Instruction	<ul style="list-style-type: none"> Please note that you will receive a separate email with the link to the one drive. This link will then request a verification number which will automatically be sent to your email address – if it doesn't seem to come through please check your "spam" folder
G7 Website	https://ppp.g7energies.com/KWEF6v78
Website Instructions	<ul style="list-style-type: none"> Create an account here https://ppp.g7energies.com Login and use the specific pathway above to view and/or download the documents

WSP Group Africa (Pty) Ltd
Attention: Megan Govender

Tel: +27 11 361 1300

Fax: +27 11 361 1301

E-mail: Megan.Govender@wsp.com

We look forward to your participation in this process and your meaningful contributions.

Kind regards



Ashlea Strong
 Principal Associate

Stakeholder details redacted
 as per POPIA requirements



WSP in Africa
 Building C
 Knightsbridge
 33 Sloane Street, Bryanston
 2191 South Africa

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Govender, Megan

From: Nyiko Nkosi Stakeholder details redacted as per POPIA requirements
Sent: Tuesday, 30 August 2022 13:49
To: Strong, Ashlea
Cc: Zama Langa; karreebosch@g7energies.com; Ephron Maradwa
Subject: Acknowledgement of receipt of Application for amendment EA for proposed Karreebosch wind farm(Roggeveld phase 2): DFFE Reference: 14/12/16/3/3/2/807/AM4

Dear Ms Strong

Acknowledgement of receipt of application for amendment of Environmental Authorisation (EA) for the proposed Karreebosch wind farm(Roggeveld phase 2) and its associated infrastructure within the karoo Hoogland local municipality and the Lianburg Local Municipality in the Northern and Western Cape. DFFE Ref: 14/12/16/3/3/2/807/AM4

The Department confirms having received the application for amendment of the EA and draft Motivation Report for the abovementioned project on 22 August 2022.

Please note that your application for amendment of the environmental authorisation falls within the ambit of amendments to be applied for in terms of Part 2 of Chapter 5 of the Environmental Impact Assessment Regulations, 2014, as amended. You are therefore referred to Regulation 32 of the EIA Regulations, 2014 as amended.

Regards
Ms. Nyiko Nkosi
Control Environmental Officer
Chief Directorate: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment
Environment House
473 Steve Biko and Soutpansberg Streets
PRETORIA

Stakeholder details redacted as per POPIA requirements

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natasha.higgitt 12:40 pm [Delete](#)

Good afternoon,

I note the submission of the Walkdown report to the case, however, the walkdown report refers to an amended EMPr that is undergoing a public commenting process (page 6 of the report, 7th page of the pdf). Please upload the EMPr out for public comment so that an informed comment can be issued.

Kind regards,
Natasha Higgitt

CaseReference:

[Karreebosch Wind Farm](#)

Add message to tracker:

You 11 sec ago [Delete](#)

Good Afternoon

The Amended EMPr was uploaded together with a Part 2 Amendment Report in CaseID: 19361. WSP was not aware of the pervious Karreebosch Wind Farm upload by the previous EAPs and subsequent to our creation of CaselD 19361 Clinton Jackson linked WSP to caseID 7379 as the new EAPs. Please see email to yourself from Clinton dated 7 September 2022.

kind regards

CaseReference:

[Karreebosch Wind Farm](#)

Add message to tracker:

Good afternoon,

Thank you for the clarification. Case ID 19361 was not assigned to me, so I was unaware of the case. I will therefore not provide comments on Case ID 7379, as the amendment application will be addressed in Case ID 19361. Should the walkdown report not be delinked from Case ID 7379? If so, I will delete it from the case and change the status of the case back to Closed (Approved).

Kind regards,
Natasha Higgitt

Add message to tracker:

Hi Natasha

Thanks for the feedback.

With reference to your query regarding removing the link to Case ID 7379 - I am not sure what would be best - as the link was specifically actioned by Clinton Jackson. No comments have been issued on Case ID 19361 as yet. Just in case i have uploaded the amended EMPr for your information and review.

Kind regards
Ashlea Strong

Add message to tracker:

Govender, Megan

From: Strong, Ashlea
Sent: Tuesday, 27 September 2022 08:47
To: Govender, Megan
Subject: FW: 14/12/16/3/3/2/807/AM4
Attachments: 14-12-16-3-3-2-807-AM4.pdf



Ashlea Strong
Principal Associate

Stakeholder details redacted as per POPIA requirements

From: Lydia Kutu Stakeholder details redacted as per POPIA requirements

Sent: Tuesday, 20 September 2022 16:40

To: Strong, Ashlea <Ashlea.Strong@wsp.com>; karreebosch@g7energies.com

Stakeholder details redacted as per POPIA requirements

Subject: 14/12/16/3/3/2/807/AM4

Good day.

Please find herein the attached letter for the above mentioned.

Please do not respond to this mailbox with any queries related to the decision been issued. All queries on the attached decision must be directed to official whose contact details is listed as enquiries.

I hope you find all in order.

Thank you.

Kind Regards,
Lydia Kutu
Integrated Environmental Authorisations:
Priority Infrastructure Developments

Stakeholder details redacted as per POPIA requirements

To God be the Glory!!!



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: 14/12/16/3/3/2/807/AM4

Enquiries: Ms Zamanga Lange

Stakeholder details redacted as per POPIA requirements

Ms Ashlea Strong
WSP Group (Pty) Ltd
PO Box 98867
SLOANE PARK
2152

Telephone Number:
Email Address:

Stakeholder details redacted
as per POPIA requirements

PER MAIL / EMAIL

Dear Ms Strong

COMMENTS ON THE DRAFT AMENDMENT REPORT FOR THE APPLICATION FOR AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 29 JANUARY 2016 KARREEBOSCH WIND ENERGY FACILITY (WEF), WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, WITZENBERG LOCAL MUNICIPALITY AND THE LAINGSBURG LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE AND WESTERN CAPE PROVINCE

The Environmental Authorisation (EA) for the above-mentioned project dated 29 January 2016 as amended, the application for amendment of the EA and the draft amendment report received by the Department on 22 August 2022 and the acknowledgement letter dated 30 August 2022, refer.

The Department has the following comments on the abovementioned amendment application:

(a) **Specific Comments**

- (i) The EAP is required to provide a detailed motivation for each amendment applied for. Department has noted that you grouped motivation for amendments applied for and the motivation provided cannot be linked to the proposed amendment applied for. For example, the amendment applied for regarding the construction camp and laydown area, the EA approved the area size of 9ha and the proposed amendment is to increase the footprint to 14ha, however the reason provided is not applicable to this amendment as it refers to reduced areas of impacts.
- (ii) Please refrain from grouping reason provided for proposed amendments. You must provide detailed motivation for each amendment applied for. In addition, you must also indicate whether the proposed amendments applied for are still within the assessed and approved development footprint or not, especially to those amendments where there is an increase in the development footprint.
- (iii) The EAP must ensure that all the amendments applied for does not trigger any listed or specified activity as outlined in Regulation 31 of the EIA Regulations, 2014 as amended.
- (iv) Please ensure that the amendments applied for in the application form are the same as the amendments described in the final Motivation report.
- (v) You must submit the certified copies of the EA as well as the amendments. Please ensure that all pages of EA as well as amendments are certified as the certified copies submitted with the application form are not acceptable as you did not certify all pages.

- (vi) Please ensure that the EMPr to be submitted with the final amendment motivation report must be updated to include and incorporate all mitigation measures recommended by the specialists.
- (vii) Please ensure that all mitigation recommendations are in line with applicable and most recent guidelines.

(b) Public participation

- (i) A Comments and Response trail report (C&R) must be submitted with the final report. The C&R report must incorporate all comments for this application. The C&R report must be a separate document from the main report. Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied verbatim and responded to clearly. Please note that a response such as “noted” is not regarded as an adequate response to I&AP’s comments.
- (ii) Please ensure that all issues raised and comments received during the circulation of the draft report from registered I&APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the final report. Proof of correspondence with the various stakeholders must be included in the final report. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments. The Public Participation Process must be conducted in terms of Regulation 39, 40, 41, 42, 43 & 44 of the EIA Regulations 2014 as amended.
- (iii) The final report must also indicate that this draft report has been subjected to a public participation process.

(c) Specialist assessments

- (i) The EAP must indicate and ensure that all additional mitigation measures which are to be included in the EA are specified clearly and it must be detailed and clearly indicated where they must be inserted into the EA (if necessary).
- (ii) Should specialists recommend specific mitigation measures for identified turbine positions, these must be clearly indicated.
- (iii) Should the appointed specialists specify contradicting recommendations, the EAP must clearly indicate the most reasonable recommendation and substantiate this with defensible reasons; and were necessary, include further expertise advice.

General

Should you fail to meet any of the timeframes stipulated in Regulation 32 of the NEMA EIA Regulations, 2014, as amended, your application will lapse.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours faithfully



Ms Milicent Solomons

Acting Chief Director: Integrated Environmental Authorisations

Department of Forestry, Fisheries and the Environment

Signed by: Dr Danie Smit

Designation: Deputy Director: National Integrated Authorisation Projects

Date: 19/09/2022

cc:	Dr Kilian Hagemann	Karreebosch Wind Farm (Pty) Ltd	Stakeholder details redacted as per POPIA requirements
-----	--------------------	---------------------------------	--

Govender, Megan

From: Strong, Ashlea
Sent: Thursday, 22 September 2022 13:00
To: Portia Makitla
Subject: [Pending]RE: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

Hi Portia

Please find a wetransfer link for both the Part 2 application report and the OHPL BA report – not sure why the link isn't working:

Download link

<https://we.tl/t-zlcqvDRNCc>

Please confirm receipt and successful download

Kind regards



Ashlea Strong
Principal Associate
T +27 82 786-7819
M +27 82 786-7819

From: Portia Makitla Stakeholder details redacted as per POPIA requirements
Sent: Thursday, 22 September 2022 10:51
To: Strong, Ashlea Stakeholder details redacted as per POPIA requirements
Subject: RE: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

Dear Ashlea

We don't have anything in our junk emails. The link requires the username and password.

Thanks & Regards 

Ms. Mashienyane Portia Makitla
CBO: Biodiversity Mainstreaming & EIA
Department of Forestry, Fisheries and the Environment
Environment House
473 Steve Biko and Soutpansberg Streets
PRETORIA

Stakeholder details redacted as per POPIA requirements

Stakeholder details redacted as per POPIA requirements



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From: Strong, Ashlea Stakeholder details redacted as per POPIA requirements

Sent: Wednesday, 21 September 2022 17:58

To: Portia Makitla Stakeholder details redacted as per POPIA requirements

Cc: BC Admin Stakeholder details redacted as per POPIA requirements

Subject: RE: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

Hi there

You should receive the passcode automatically – please check your “Junk mail” or “other” email folders.

If you don't come right please let me know.

Thanks

Ashlea



Ashlea Strong
Principal Associate

Stakeholder details redacted as per
POPIA requirements

From: Portia Makitla Stakeholder details redacted as per POPIA requirements

Sent: Wednesday, 21 September 2022 17:43

To: Strong, Ashlea Stakeholder details redacted as per POPIA requirements

Cc: BC Admin Stakeholder details redacted as per POPIA requirements

Subject: RE: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

Good day Ashlea

Kindly share the link with passcode.

Thanks & Regards 

Ms. Mashienyane Portia Makitla

CBO: Biodiversity Mainstreaming & EIA

Department of Forestry, Fisheries and the Environment

Environment House

473 Steve Biko and Soutpansberg Streets

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Stakeholder details redacted as per POPIA requirements

Stakeholder details redacted as per POPIA requirements

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From: Strong, Ashlea Stakeholder details redacted as per POPIA requirements

Sent: Tuesday, 23 August 2022 11:05

To: Strong, Ashlea Stakeholder details redacted as per POPIA requirements

Cc: Govender, Megan <Megan.Govender@wsp.com>

Subject: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

Dear Commenting Authority

NOTICE OF THE PROPOSED AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE 140MW KARREEBOSCH WIND ENERGY FACILITY (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED ENVIRONMENTAL MANAGEMENT PROGRAMME AND FINAL LAYOUT FOR THE KARREEBOSCH WIND ENERGY FACILITY (REF: 14/12/16/3/3/2/807/AM3)

Notice is given in terms of Regulation 32 (GNR 326) of the Environmental Impact Assessment (EIA) Regulations, 2014 as amended published under section 24 and 24D of the National Environmental Management Act (No. 107 of 1998) (NEMA) (as amended) for submission of application for an Amendment in terms of a Part 2 Amendment Process described in Regulation 31.

In addition, notice is given of the proposed submission of the final layout and Environmental Management Programme (EMPr) amendment for the Karreebosch Wind Energy Facility (WEF) in terms of Condition 16 and 18 of the Environmental Authorisation (EA).

Karreebosch Wind Farm RF (Pty) Ltd (the Applicant) applied for Environmental Authorisation (EA) for the proposed Karreebosch WEF in 2016. The Department of Environmental Affairs (DEA) (now known as the Department of Forestry, Fisheries and the Environment – DFFE) issued an EA on the 29 January 2016 (Ref No: 14/12/16/3/3/2/807) for the 140MW Karreebosch Wind Energy Facility (WEF). Amendments to this EA were issued on 10 June 2016 (Ref No: 14/12/16/3/3/2/807/AM1), 15 November 2018 (Ref No: 14/12/16/3/3/2/807/AM2) and 30 October 2019 (Ref No: 14/12/16/3/3/2/807/AM3). The proponent, Karreebosch Wind Farm RF (Pty) Ltd (Karreebosch), now wishes to further amend the above-mentioned EA to undertake substantive amendments which includes increasing the hub height and rotor diameter to up to 140 m and 170 m respectively. Other non-substantive amendments include increasing the generation capacity of the individual turbines from up to 5.5MW to up to 7.5MW, as well as administrative amendments (the entire scope of the amendment request is detailed in the amendment report). None of the amendments trigger new listed activities in terms of GNR 327, 325 and 324 of the EIA Regulations, 2014 (as amended). However, the proposed amendments will result in a change in scope of the valid EA. As such, a Regulation 31 Amendment Process in terms the EIA Regulations (GNR 326) of the EIA Regulations, 2014 as amended is applicable. The authorised Karreebosch WEF falls within the Karoo Hoogland Local Municipality, Namakwa District Municipality within the Northern Cape Province as well as the Laingsburg Local Municipality, Central Karoo District Municipality and the Witzenberg Local Municipality, Cape Winelands District Municipality within the Western Cape Province.

WSP Group Africa (Pty) Ltd (WSP) has been appointed as the independent and suitably qualified Environmental Assessment Practitioner (EAP) by Karreebosch, to manage and undertake the Part 2 Amendment process and to amend the EMPr. Parties wishing to formally register as interested and affected parties in order to receive more information and/ or raise their comment(s) on the project amendments, are requested to forward their full contact details to the EAP and disclose their direct business, financial, personal or other interest in the project. Any

comments on the proposed project may be submitted to the EAP via the details provided below. Registered interested and affected parties will be forwarded all future project related correspondence.

The Draft Amendment Report and amended EMPR and Final Layout are available from WSP on request and at the following links below for your review and comment for 30 days from **23 August 2022 – 23 September 2022**:

One Drive Link	<input type="checkbox"/> Karreebosch Public Review
One Drive Instruction	<ul style="list-style-type: none"> Please note that you will receive a separate email with the link to the one drive. This link will then request a verification number which will automatically be sent to your email address – if it doesn't seem to come through please check your "spam" folder
G7 Website	https://ppp.g7energies.com/KWEF6v78
Website Instructions	<ul style="list-style-type: none"> Create an account here https://ppp.g7energies.com Login and use the specific pathway above to view and/or download the documents

Kindly ensure that all comments on the proposed project or requests to be registered as an Interested and Affected Party are submitted to the contact details provided below, by 23 September 2022. Should you have any queries/comments, please do not hesitate to contact the EAP.

We look forward to your participation in this process and your meaningful contributions.

WSP Group Africa (Pty) Ltd
 Attention: Megan Govender
 (T) 011 361 1300
 (F) 011 361 1301
 (E) Megan.Govender@wsp.com

Kind regards



Ashlea Strong
 Principal Associate

Stakeholder details redacted
 as per POPIA requirements



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-LAEmHhHzdJzBITWfa4Hgs7pbKI

Govender, Megan

From: Strong, Ashlea
Sent: Tuesday, 27 September 2022 08:47
To: Govender, Megan
Subject: FW: KARREEBOSCH WEF
Attachments: EA Amend Karreebosch Comments.pdf; Karreesboch DBAR comments.pdf



Ashlea Strong
Principal Associate

Stakeholder details redacted as per
POPIA requirements

From: Portia Makitla <PMakitla@dffe.gov.za>
Sent: Friday, 23 September 2022 20:39
To: Strong, Ashlea <Ashlea.Strong@wsp.com>
Cc: Mashudu Mudau <MaMudau@dffe.gov.za>
Subject: KARREEBOSCH WEF

Dear Ashlea

Please find the attached for your attention.

Thanks & Regards 

Ms. Mashienyane Portia Makitla
CBO: Biodiversity Mainstreaming & EIA
Department of Forestry, Fisheries and the Environment
Environment House
473 Steve Biko and Soutpansberg Streets
PRETORIA

Stakeholder details redacted as per POPIA requirements

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REPUBLIC OF SOUTH AFRICA

From: Strong, Ashlea Stakeholder details redacted as per POPIA requirements
Sent: Tuesday, 23 August 2022 11:05
To: Strong, Ashlea Stakeholder details redacted as per POPIA requirements

Cc: Govender, Megan <Megan.Govender@wsp.com>

Subject: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

Dear Commenting Authority

NOTICE OF THE PROPOSED AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE 140MW KARREEBOSCH WIND ENERGY FACILITY (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED ENVIRONMENTAL MANAGEMENT PROGRAMME AND FINAL LAYOUT FOR THE KARREEBOSCH WIND ENERGY FACILITY (REF: 14/12/16/3/3/2/807/AM3)

Notice is given in terms of Regulation 32 (GNR 326) of the Environmental Impact Assessment (EIA) Regulations, 2014 as amended published under section 24 and 24D of the National Environmental Management Act (No. 107 of 1998) (NEMA) (as amended) for submission of application for an Amendment in terms of a Part 2 Amendment Process described in Regulation 31.

In addition, notice is given of the proposed submission of the final layout and Environmental Management Programme (EMPr) amendment for the Karreebosch Wind Energy Facility (WEF) in terms of Condition 16 and 18 of the Environmental Authorisation (EA).

Karreebosch Wind Farm RF (Pty) Ltd (the Applicant) applied for Environmental Authorisation (EA) for the proposed Karreebosch WEF in 2016. The Department of Environmental Affairs (DEA) (now known as the Department of Forestry, Fisheries and the Environment – DFFE) issued an EA on the 29 January 2016 (Ref No: 14/12/16/3/3/2/807) for the 140MW Karreebosch Wind Energy Facility (WEF). Amendments to this EA were issued on 10 June 2016 (Ref No: 14/12/16/3/3/2/807/AM1), 15 November 2018 (Ref No: 14/12/16/3/3/2/807/AM2) and 30 October 2019 (Ref No: 14/12/16/3/3/2/807/AM3). The proponent, Karreebosch Wind Farm RF (Pty) Ltd (Karreebosch), now wishes to further amend the above-mentioned EA to undertake substantive amendments which includes increasing the hub height and rotor diameter to up to 140 m and 170 m respectively. Other non-substantive amendments include increasing the generation capacity of the individual turbines from up to 5.5MW to up to 7.5MW, as well as administrative amendments (the entire scope of the amendment request is detailed in the amendment report). None of the amendments trigger new listed activities in terms of GNR 327, 325 and 324 of the EIA Regulations, 2014 (as amended). However, the proposed amendments will result in a change in scope of the valid EA. As such, a Regulation 31 Amendment Process in terms the EIA Regulations (GNR 326) of the EIA Regulations, 2014 as amended is applicable. The authorised Karreebosch WEF falls within the Karoo Hoogland Local Municipality, Namakwa District Municipality within the Northern Cape Province as well as the Laingsburg Local Municipality, Central Karoo District Municipality and the Witzenberg Local Municipality, Cape Winelands District Municipality within the Western Cape Province.

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The Draft Amendment Report and amended EMPr and Final Layout are available from WSP on request and at the following links below for your review and comment for 30 days from **23 August 2022 – 23 September 2022**:

One Drive Link	<input type="checkbox"/> Karreebosch Public Review
One Drive Instruction	<ul style="list-style-type: none">Please note that you will receive a separate email with the link to the one drive. This link will then request a verification number which will automatically be sent to your email address – if it

	doesn't seem to come through please check your "spam" folder
G7 Website	https://ppp.g7energies.com/KWEF6v78
Website Instructions	<ul style="list-style-type: none"> • Create an account here https://ppp.g7energies.com • Login and use the specific pathway above to view and/or download the documents

Kindly ensure that all comments on the proposed project or requests to be registered as an Interested and Affected Party are submitted to the contact details provided below, by 23 September 2022. Should you have any queries/comments, please do not hesitate to contact the EAP.

We look forward to your participation in this process and your meaningful contributions.

WSP Group Africa (Pty) Ltd
 Attention: Megan Govender
 (T) 011 361 1300
 (F) 011 361 1301
 (E) Megan.Govender@wsp.com

Kind regards



Ashlea Strong
 Principal Associate

Stakeholder details redacted as per POPIA requirements



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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, Pretoria, Tel: +27 12 399 9000, Fax: +27 86 625 1042

Reference: 14/12/16/3/3/2/807/AM3

Enquiries: Ms. Portia Makitla

Stakeholder details redacted as per POPIA requirements

Ms Ashlea Strong
WSP GROUP AFRICA (PTY) LTD
P.O. Box 98867
SLOANE PARK
2151

Telephone Number:
Email Address:

Stakeholder details redacted as per POPIA requirements

PER E-MAIL

Dear Ms., Strong

COMMENTS ON DRAFT PART 2 ENVIRONMENTAL AMENDMENT REPORT FOR THE PROPOSED KARREEBOSCH WIND ENERGY FACILITY, WESTERN CAPE PROVINCE

The Directorate: Biodiversity Conservation has reviewed and evaluated the amendment report, the final EMPr is being submitted in line with Condition 16 and 18 of the EA.

All the specialists concluded that the proposed amendments are acceptable with limited additional mitigation required.

Based on the above the Directorate Biodiversity Conservation does not have any objection to the proposal. However, the final report must comply with all the requirements as outlined in the Environmental Impact Assessment (EIA) guideline for renewable energy projects and the Best Practice Guideline for Birds & Wind Energy for assessing and monitoring the impact of wind energy facilities on birds in Southern Africa.

In conclusion, all Public Participation Process documents related to Biodiversity EIA for review and queries should be submitted to the Directorate: Biodiversity Conservation at Email; BCAdmin@environment.gov.za for the attention of Mr. Seoka Lekota.

Yours faithfully

Mr. Seoka Lekota
Control Biodiversity Officer Grade B: Biodiversity Conservation
Department of Forestry, Fisheries & the Environment
Date: 23/09/2022



Batho pele- putting people first

Govender, Megan

From: Strong, Ashlea
Sent: Thursday, 22 September 2022 13:00
To: Adri La Meyer
Cc: Govender, Megan
Subject: RE: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

Hi Adri

If I can receive the comments on the 26th – that will be fine

Thanks

Ashlea



Ashlea Strong
Principal Associate

Stakeholder details redacted as per POPIA requirements

From: Adri La Meyer Stakeholder details redacted as per POPIA requirements
Sent: Thursday, 22 September 2022 12:21
To: Strong, Ashlea Stakeholder details redacted as per POPIA requirements
Cc: Govender, Megan <Megan.Govender@wsp.com>
Subject: RE: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT
Importance: High

Dear Ashlea,

I hope you are well.

The comments on the Draft BAR for the overhead powerline and EMPr amendment and final WEF layout refer. I know they are due tomorrow, but I need an extension until 26 September 2022 please!

Reason being that I have not yet received all comments from the components. I only have comments from Air Quality and Waste Management on the EMPr amendment/layout, and from Development Management on the powerline. I have no idea if I will get comments from the rest in time to submit it by tomorrow, so I would rather play it safe and request an extension please?

I sincerely apologise for this inconvenience and hope you would be able to assist please.

Kind regards,
Adri

From: Strong, Ashlea Stakeholder details redacted as per POPIA requirements
Sent: Tuesday, August 23, 2022 11:05
To: Strong, Ashlea Stakeholder details redacted as per POPIA requirements
Cc: Govender, Megan <Megan.Govender@wsp.com>

Subject: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

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WSP Group Africa (Pty) Ltd
 Attention: Megan Govender
 (T) 011 361 1300
 (F) 011 361 1301
 (E) Megan.Govender@wsp.com

Kind regards



Ashlea Strong
 Principal Associate

Stakeholder details redacted as per POPIA requirements

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Govender, Megan

From: Thea Jordan Stakeholder details redacted as per POPIA requirements
Sent: Tuesday, 27 September 2022 17:31
To: Strong, Ashlea; Govender, Megan
Cc: Adri La Meyer
Subject: COMMENTS ON THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF, AMENDED EMPr AND FINAL LAYOUT OF THE KARREEBOSCH WEF (14/12/16/3/3/2/807/AM4)
Attachments: 2022 Sept 27 - AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF, AMENDED EMPr AND FINAL LAYOUT OF THE KARREEBOSCH WEF.pdf

Dear EAP,

Your request for comment refers.

Please find attached this Department's comment in the above regard.

Yours faithfully

Thea Jordan
Pr. Pl. (A/1237/2002)
Director: Development Facilitation
Department of Environmental Affairs and Development Planning
Western Cape Government

11th Floor, Utilitas Building, 1 Dorp Street, Cape Town, 8000

Stakeholder details redacted as per POPIA requirements

Website: www.westerncape.gov.za/eadp



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Due to COVID-19 restrictions, we are still operating on a "work-from-home" basis. Should you not be able to contact the numbers above, please call +27 (0)21 483 4091 between 07:30-16:00.

From: Strong, Ashlea Stakeholder details redacted as per POPIA requirements
Sent: Tuesday, August 23, 2022 11:05
To: Strong, Ashlea Stakeholder details redacted as per POPIA requirements
Cc: Govender, Megan <Megan.Govender@wsp.com>
Subject: NOTICE OF THE PROPOSED AMENDMENT OF THE EA FOR THE 140MW KARREEBOSCH WEF (REF: 14/12/16/3/3/2/807/AM3) AND THE AMENDED EMPr AND FINAL LAYOUT

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WSP Group Africa (Pty) Ltd
Attention: Megan Govender
(T) 011 361 1300
(F) 011 361 1301
(E) Megan.Govender@wsp.com

Kind regards



Ashlea Strong
Principal Associate

Stakeholder details redacted as per POPIA requirements



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Stakeholder details redacted as per POPIA requirements

References:

- 16/3/3/6/4/1/1/C1/7/0168/22 (Development Management)
- 18/2/3/2022-2023 (Development Facilitation)
- 19/3/2/4/C1/7/DDF064/22 (Pollution and Chemicals Management)
- 19/2/5/3/C1/7/WL0134/22 (Waste Management)
- 19/4/4/1/BL1 & BW2 – 140MW Karreebosch WEF, Western Cape (Air Quality Management)

Attention: Ms Megan Govender

WSP Group Africa (Pty) Ltd
P.O. Box 98867
Sloane Park
JOHANNESBURG
2151

Megan.Govender@wsp.com

Dear Madam

COMMENTS ON THE DRAFT AMENDMENT REPORT, AMENDED ENVIRONMENTAL MANAGEMENT PROGRAMME, AND FINAL LAYOUT FOR THE AUTHORISED 140MW KARREEBOSCH WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE ACROSS 12 PROPERTIES IN KAROO HOOGLAND MUNICIPALITY, NORTHERN CAPE AND ON THE REMAINDER OF THE FARM BRANDVALLEY NO. 75, LAINGSBURG MUNICIPALITY, WESTERN CAPE (DFFE REF: 14/12/16/3/3/2/807/AM4)

1. The email notification of 23 August 2022 regarding the availability of the Draft Amendment Report for the proposed amendment of the environmental authorisation ("EA") for the 140MW Karreebosch wind energy facility ("WEF"), and the availability of the Amended Environmental Management Programme ("EMPr") and final layout for the authorised Karreebosch WEF refers.
2. Thank you for the opportunity to provide comments on the Part 2 EA amendment application, Amended EMPr, and final layout. The Department apologises for the slight delay in submitting comments on the requested documents. Please find consolidated comment from various directorates within the Department on the Draft Amendment Report dated 23 August 2022, the Amended EMPr dated 23 August 2022, and the final layout for the Karreebosch WEF that were available for download from various online platforms provided by the environmental assessment practitioner.

3. Directorate: Development Management (Region 3) – Ms Dorien Werth (Email: Stakeholder details redacted as per POPIA requirements)
- 3.1. It is noted that the heritage specialist is of the opinion that the amendments proposed to the authorised Karreebosch WEF will cause no changes to the project in terms of impacts on heritage resources. No additional or amended mitigation measures have been recommended by the heritage specialist with regards to the proposed amendments, and the original mitigation measures included within the EMPr remain valid. The significance of heritage impacts during the construction of the WEF is rated as low negative.
- 3.2. Please ensure that all additional specialists' recommendations and mitigation measures are incorporated into the Amended EMPr.
- 3.3. The EMPr must meet the requirements of condition 19 of the EA granted on 29 January 2016. The EMPr must contain all the relevant information stipulated in Appendix 4 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") Environmental Impact Assessment Regulations, 2014 (as amended) and comply with section 24N of the NEMA, 1998.
- 3.4. All the identified no-go areas must be clearly demarcated and not disturbed or impacted upon and may not be used for storage purposes during the construction or the operational phase of the project.
- 3.5. Where revegetation work will be done on disturbed areas, only indigenous vegetation that occur naturally in the area may be used, and no "alien/invasive" plant species may be introduced during revegetation/rehabilitation.
- 3.6. It is noted that the concrete batching plant and stockpiles are to be located more than 100m away from drainage lines. Please however also include in the EMPr that concrete mixing must be done in a bunded area to ensure that no runoff will enter the watercourses.
- 3.7. The EMPr is supported by this Directorate with the inclusion of all the specialists' recommendations and mitigation measures in the specialist studies that were undertaken during the initial application and the Part 2 EA amendment application.
- 3.8. This Directorate has no objection to the proposed EA amendment as it will not result in more significant environmental impacts that were identified during the initial application and approval process. The number of wind turbines will be reduced from 65 to 40; however, it is noted that the larger turbines do have more impacts on the environment, but this is mitigated by reducing the number of turbines.
4. Directorate: Development Facilitation – Ms Adri La Meyer (Stakeholder details redacted as per POPIA requirements)
Stakeholder details redacted as per POPIA requirements
- 4.1. Both the Draft Amendment Report and Amended EMPr state that "The site falls within the Karoo Hoogland Local Municipality of the Namakwa District Municipality within the Northern Cape Province as well as the Laingsburg Local Municipality of the Central Karoo District Municipality and the Witzenberg Local Municipality of the Cape Winelands District Municipality within the Western Cape

Province." However, it appears that no properties within Witzenberg Municipality of Cape Winelands District Municipality are affected by the proposed WEF development. Please confirm?

- 4.2. Please amend the final layout map and environmental sensitivity maps to indicate the numbered 40 wind turbines. This includes the layout in Figures 4-3 and 5-4 of the Draft Amendment Report; Figures 1-2 and 4-2 of the Amended EMPr; and Appendix B of the Amended EMPr.
- 4.3. This Directorate requests clarity on what the preferred laydown area is. Page 65 of the Draft Amendment Report states that *"Four laydown sites have been assessed. Laydown area Alternative 2 being the preferred area as development here will result in the lowest impact to terrestrial biodiversity and ecological functionality."* However, the Freshwater Ecological Assessment compiled by FEN Consulting dated August 2022 states that *"Construction Camp Options 1, 2 and 4 are considered acceptable ... compared to the proposed Construction Camp Option 3 which is located directly outside the delineated boundary of a watercourse."* It is assumed that the construction camp options referred to in the Freshwater Ecological Assessment, is the same as the laydown area sites referred to in the Biodiversity & Terrestrial Ecology Assessment Walkdown Report compiled by Trusted Partners dated 18 August 2022. Please confirm the preferred laydown area alternative.
- 4.4. Reference is made in the Draft Amendment Report, Amended EMPr and final layout to an eastern ridge access route alternative (option 1 and 2): *"The proposed two eastern ridge access route alternatives are considered acceptable with the implementation of mitigation measures as outlined in this report, with specific mention of installing appropriately sized throughflow structures and construction preferably undertaken during the dry period when there is little to no flow within the watercourses and thus no flow diversion required."* It is however not clear if the eastern ridge access route alternative is new/additional to the Part 2 EA amendment application as the documents reviewed are silent on this issue.
- 4.5. The EMPr must clearly indicate the frequency of environmental audits to be undertaken. Section 9.5.1 of the Amended EMPr states that *"The period and frequency of environmental monitoring will most likely be stipulated by the Environmental Authorisation."* Please however note that condition 28 of the EA granted on 29 January 2016 does not specify the period and frequency of environmental auditing as the EA condition states that *"The frequency of auditing and submission of the environmental audit reports must be as per the frequency indicated in the EMPr, taking into account the processes for such auditing as prescribed in Regulation 34 of GN R. 982."* The frequency of auditing and submission of the environmental audit reports must be indicated in the EMPr. (In this regard, please also refer to paragraph 6.1.3. below.)
5. Directorate: Pollution and Chemicals Management – Mr Swelihle Dyani/ Mr Russell Mehl (Email: **Stakeholder details redacted as per POPIA requirements**)
- 5.1. It is stated in both the Draft Amendment Report and Amended EMPr that: *"Environmental authorisation (EA) for 65 turbines was granted on 29 January 2016 (EA Ref: 14/12/16/3/3/2/807). The project underwent subsequent amendments (EA Ref: 14/12/16/3/3/2/807/AM1, 14/12/16/3/3/2/807/AM2, 14/12/16/3/3/2/807/AM3) which included increases in the hub height (up to 125m), rotor diameter (up to 160m), blade length (up to 80m), and minor amendments to the wording of certain conditions of*

the authorisation, as well as an extension of the validity of the EA to 2026." This Directorate supports the proposed final 40-turbine layout as risks and disturbances to the environment during the construction and operational phases will be minimised.

- 5.2. This Directorate supports the additional recommended mitigation measures to reduce surface water quality and riparian zone impacts as indicated in the Freshwater Ecological Assessment.
- 5.3. This Directorate recommends proper implementation and use of proposed mitigation strategies to reduce risks and/or potential impacts to watercourses as indicated in the Freshwater Ecological Assessment.
- 5.4. Please provide more information on the handling, treatment, and disposal of effluent or sewage, including an approval letter from the municipality/ies, for the use of conservancy tanks.
- 5.5. Please indicate whether any on-site boreholes will be used and whether any approval from the responsible water use authority for groundwater usage will be required.

6. Directorate: Waste Management – Mr Muneeb Baderoon (Email:

Stakeholder details redacted as per POPIA requirements

- 6.1. This Directorate notes that an amendment to the EA granted for the Karreebosch WEF is required to increase the hub height and rotor diameter to up to 140m and 170m, respectively. This Directorate has the following comments on the Amended EMPr:
 - 6.1.1. Waste management and waste manifest documentation, dust and noise impacts, hazardous substance storage and disposal, surface and groundwater protection, fires and training are adequately addressed in the EMPr.
 - 6.1.2. Appropriate numbers of chemical toilets will be provided within appropriate areas for use by construction personnel. Ablution facilities, especially chemical toilets, must be placed so that they do not negatively impact on surface and groundwater.
 - 6.1.3. Audits of the proposed construction and operation phases must take place according to fixed schedules that are to be included in the EMPr and must be strictly adhered to.
 - 6.1.4. Vegetation clearing will be monitored by the environmental control officer. Alien vegetation and other removed vegetation may be taken to a green/garden waste chipping facility for composting or be disposed of at an appropriately licenced facility but may not be disposed of on adjacent land. The affected municipalities should be consulted for available options to deal with green waste.
 - 6.1.5. The EMPr must be easily accessible to the persons responsible for managing the proposed development during the construction and operation phases and adherence to its conditions must be strictly monitored.

7. Directorate: Air Quality Management – Ms Nokulunga Goqo (Email:

Stakeholder details redacted as per POPIA requirements

- 7.1. The management measures to monitor and prevent fugitive dust emissions indicated in the Amended EMPr must be implemented strictly.

- 7.2. Dust generated during the proposed WEF development must comply with the National Dust Control Regulations (Government Notice No. R. 827 of 1 November 2013) promulgated in terms of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004). These regulations prohibit a person from conducting any activity in such a way as to give rise to dust in such quantities and concentrations that the dust, or dust fallout, has a detrimental effect on the environment, including human health.
- 7.3. It is noticed in the Draft Amendment Report that fugitive dust emissions may be created from cleared, bare and excavated areas, as well as from large vehicles and equipment traversing and operating on-site during the construction phase. This Directorate recommends that vegetation clearance should be implemented in stages and be timed, in line with their construction schedule, as it is not ideal to have a site cleared and lying fallow for a long time.
- 7.4. Measures to monitor and prevent fugitive dust emissions must be implemented strictly as per the EMPr. The maximum speed limit on roads within the development footprint must be specified in the EMPr. Please note that the speed limit is only specified in section 12.3 (rehabilitation of the site) of the EMPr.
- 7.5. Large vehicles traversing on the site and machinery may cause significant noise on-site; these activities may become a noise nuisance and/or disturbance to the surrounding communities. Noise generated from the proposed activities must comply with the Western Cape Noise Control Regulations promulgated in Provincial Notice 200/2013.
- 7.6. According to the Remodelling of the Noise Impact Assessment compiled by SafeTech dated 11 August 2022, the current EA limit and International Finance Corporation night-time limit is 45 dB(A) for night-time. There is no mention of testing of residual noise level at the noise sensitive areas ("NSAs"). It is further noted that at a maximum sound power level threshold of 113.0dB(A), the noise levels will exceed the EA limit of 45.0dB(A) by 2.2dB(A) at NSA 27, which is an occupied farm dwelling.
- 7.7. As such, this Directorate recommends that the residual noise levels must be measured within the vicinity of the WEF to ensure accurate result reporting and analysis to ensure that noise rating levels will not exceed the existing residual noise levels by 5dB(A) or more, as per regulation 4(3) of the Western Cape Noise Control Regulations, 2013.
- 7.8. It is strongly recommended that construction activities be conducted during the day-time hours, to avoid any night-time noise disturbances at NSAs.
- 7.9. Noise monitoring must be undertaken, and measures put in place to minimise disturbing noise emissions. The noise mitigation measures identified in the EMPr must be implemented strictly during all phases of the proposed development.
- 7.10. Potential air emissions will be in the form of dust pollution, exhaust fumes from vehicles and machinery as well as potential noise pollution from the activities on site. All potential air pollutants need to be monitored and if causing significant emissions, must be mitigated strictly.

7.11. Please note that the abovementioned comments and recommendations do not pre-empt the outcome of the application. No information provided, views expressed and/or comments made by this Directorate should in any way be regarded as an indication or confirmation that additional information or documents will not be requested; or of the outcome of any application submitted to the competent authority.

8. The applicant is reminded of its "general duty of care towards the environment" as prescribed in section 28 of the NEMA, 1998 which states that "Every person who causes, has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing or recurring, or, in so far as such harm to the environment is authorised by law or cannot reasonably be avoided or stopped, to minimise and rectify such pollution or degradation of the environment."

Please direct all enquiries to the commenting officials should you require any clarity on any of the comments provided.

The Department reserves the right to revise initial comments and request further information based on any or new information received.

Yours sincerely

Thea Jordan
Digitally signed by Thea Jordan
Date: 2022.09.27 17:29:56 +02'00'

pp **HEAD OF DEPARTMENT**

DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING

Letter signed by:

Thea Jordan

Director: Development Facilitation

Date: 27 September 2022

G7 Renewable Energies (Pty) Ltd
5th floor, 125 Buitengracht Street
Cape Town
8001
Email: skye@g7energies.com
Date: 30 September 2022

Dear Skye Clarke-Mcleod

RE: PROPOSED PROJECT AMMENDMENTS FOR THE KARREEBOSCH WIND ENERGY FACILITY, NORTHERN CAPE PROVINCE.

This letter is in response to the proposed wind energy facility and its possible impact on the Square Kilometre Array radio telescopes.

SARAO has undertaken a high-level impact assessment based on the information provided for the Karreebosch Wind Energy facility located at central coordinates 32°22'57.33"S 20°48'38.00"E. It was determined that the project represents a low risk of interference to the nearest SKA radio telescope with a compliance surplus of 228.05 dBm/Hz. As such, we do not have any objection to the proposed development.

Thank you for your correspondence, our office remains open to discuss any matter relating to the above.

Regards,

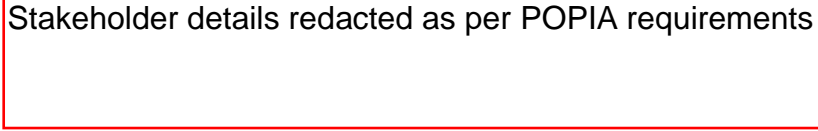
A handwritten signature in black ink, appearing to read 'P. Matlhane', written in a cursive style.

Mr Selaelo Matlhane

Spectrum & Telecommunication Manager

South African Radio Astronomy Observatory (SARAO)

Stakeholder details redacted as per POPIA requirements



APPENDIX

E LETTER FROM THE KAROO HOOGLAND LOCAL MUNICIPALITY



KAROO HOOGLAND MUNISIPALITEIT
MUNICIPALITY

'n Amalgamasie van Fraserburg, Sutherland, Williston & omliggende landelike gebiede
An amalgamation of Fraserburg, Sutherland, Williston and surrounding rural areas

Privaatsak / Private Bag X03
WILLISTON, 8920
t. 053 3913 003 // f. 053
3913 294
e. karooadmin@telkomsa.net
www.karoohoogland.gov.za

NAVRAE: F.J. Lötter
ENQUIRIES:

VERW.NR.:
REF. NO.:

G7 Renewable Energies (PTY) Ltd
5th Floor, 125 Buitengracht Street
Cape Town
8001

11 October 2022

Attention Lyle van der Merwe

Karoo Hoogland Municipality will be able to take sewer at our plant in Fraserburg at a cost that will be determine at the time of service. We will not be able to do the transport but will be able to receive it at the plant, please be aware that we will not be able to take sludge only waste water out of the conservancy tanks.

I trust that u will find the above in order

Regards

Frannie Lotter
Director: Infrastructure
Karoo Hoogland Municipality
Tel: 053 285 2093
Cell: 083 655 1438
E-pos: flotter@karoohoogland.gov.za

APPENDIX

F PROOF OF APPLICATION TO APPLY FOR WUL

Subject: Application Notification (WU20781)



Ewulaas_Do_Not_Reply@dws.gov.za <Ewulaas_Do_Not_Reply@dws.gov.za>
to Wula

You are viewing an attached message. G7 Energies Mail can't verify the authenticity of

Dear Mr Stephen van Staden,

The following application has reference :

140 MW Karreebosch Wind Energy Facility (WU20781)

The reason for the notification is as follows :

PROOF OF RECEIPT OF YOUR APPLICATION FORM TO APPLY FOR A WATER USE LICENCE IN TE

Karreebosch Wind Farm (Pty) Ltd : 140 MW Karreebosch Wind Energy Facility
Ref No :WU20781

The Department of Water and Sanitation hereby acknowledges receipt of your application to apply for a wa

A formal letter will be sent to you no later than 7 days of receipt of this letter to arrange for a site inspection

You received this email from :

Name : Mrs Collette Parker (WUA Administrator)
e-Mail : ParkerC@dws.gov.za
Tel : +27219416183

[Click Here to access the Application](#)

Kind Regards,
e-WULAAS on Behalf of **Department of Water and Sanitation**

Private Bag X313, Pretoria, 0001
Sedibeng Building, 185 Francis Baard Street, Pretoria, 0001
Tel: (012) 336 7500
Fax: (012) 323-4472
Website: www.dws.gov.za
Email: E-WULAASCalls@dws.gov.za



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



e-WULAAS

APPENDIX

G ASTRONOMY MANAGEMENT AUTHORITY LETTER



Skye Clarke-Mcleod
Kareebosch Wind Farm RF (Pty) Ltd
125 Buitengracht Street, 5th Floor
Cape Town, 8001
South Africa

Email: skye@g7energies.com

Dear Ms. Clarke-Mcleod

RE: KARREEBOSCH WIND FARM RF (PTY) LTD APPLICATION SUBMITTED IN TERMS OF SUB-REGULATION 5(1) OF SCHEDULE 1 OF THE REGULATIONS TO SEEK APPROVAL FOR AN ACTIVITY INVOLVING EARTH WORKS CREATING DUST CAPABLE OF CAUSING AIR POLLUTION WITH A DETRIMENTAL IMPACT ON OPTICAL ASTRONOMY CONDUCTED AT THE SOUTH AFRICAN ASTRONOMICAL OBSERVATORY NEAR SUTHERLAND IN THE NORTHERN CAPE PROVINCE.

1. The abovementioned matter and Karreebosch Wind Farm RF (Pty) Ltd's application, dated 31 August 2022, have reference.
2. The Application is in respect of the Kareebosch Wind Farm RF (Pty) Ltd, which is to be developed 51.75 km from SALT, at the central geographic location of 32°22'57.33"S, 20°48'38"E (Latitude, Longitude), and the elevation of the highest point at 1237m above sea level.
3. The Astronomy Management Authority (AMA) hereby acknowledges receipt of Karreebosch Wind Farm RF (Pty) Ltd's interest to conduct earthwork activities within the declared Sutherland Central Astronomy Advantage Area (SCAAA). AMA takes note of Annexure A and the relevant sections of the application with respect to the proposed project and potential impacts and mitigations as follows:
 1. Mitigation measures for dust emissions caused by earthworks, vegetation clearing and transport of materials for the entire Project (Karreebosch Wind Energy Facility (WEF) & powerline construction);
 2. Mitigation measures for dust Emissions as per WEF Environmental Management Programme (EMPr) (2015) as amended (2022);
 3. Mitigation measures for dust Emissions as per DFFE pre-approved Generic EMPr (OHPL);
 4. Dust and Particulate Matter Emission mitigation measures as per site specific EMPr (OHPL);
 5. Mitigation measures for Light Pollution, Glare and Visual Impact for the entire Project (Karreebosch WEF & powerline construction); and

6. Mitigation measures for light Emissions as per WEF EMPr (2015) as amended (2022).
4. The report (Annexure A) further describes the scope of the proposed project and potential impacts, as well as the mitigation measures to be implemented. The proposed mitigation measures, as outlined in **Table 6**, are acceptable to AMA, and must be implemented during the construction and operation phases of the project.
5. Approval is hereby granted, in terms of Regulation 5 of the Regulations for the Protection of the Sutherland Central Astronomy Advantage Area, for the activities described in **Table 4** of the Motivational Memorandum (or Annexure A), subject thereto that all mitigation measures relating to dust and light pollution, outlined in **Table 6**, are strictly applied and supervised by a designated person during construction and operational phases of the proposed Kareebosch Wind Farm RF (Pty) Ltd.
6. The above-mentioned approval is subject to the Astronomy Management Authority conducting ad-hoc visits at the project site to ensure that the agreed mitigation measures are implemented at all times.
7. Any enquiries regarding this letter of approval should be directed to Mr Mere Kgampe at 076 4884 776 (cell-phone) or email address: mere.kgampe@dst.gov.za.

Your Sincerely



Mr Mere Kgampe
Director: Astronomy Management Authority

Date: 28 / 09 / 2022



Karreebosch Wind Farm RF (Pty) Ltd
125 Buitengracht Street, 5th floor
Cape Town 8001, South Africa
Tel: +27(0)21 300 0610
Fax: +27(0)86 524 1735
Email: karreebosch@g7energies.com

Annexure A:

Motivational Memorandum

Prepared by:

Karreebosch Wind Farm (RF) (Pty) Ltd

Project Name: Karreebosch Wind Farm

Skye Clarke-Mcleod: Environmental Project Developer

Cell: 071 541 9626 / Tel: 021 300 0610

Email: skye@g7energies.com / permitting@g7energies.com

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1. Introduction

1.1 Introduction to the Karreebosch Wind Energy Facility

Sub-regulations 5 (1) of schedule 1 regulations of the Astronomy Geographic Advantage Act, 2007 (Act no 21 of 2007) (AGAA) defines the application process required for a party to seek approval for an activity involving any earth works creating dust capable of causing air pollution with a detrimental impact on optical astronomy conducted at the South African Astronomical Observatory near Sutherland.

Karreebosch Wind Farm (RF) (Pty) Ltd (company registration number 2011/118863/07) (hereafter referred to as 'Karreebosch'), a special purpose vehicle (SPV) of G7 Renewable Energies (Pty) Ltd, applied for Environmental Authorisation (EA) for the proposed Karreebosch WEF in 2015. The original Environmental Impact Assessment (EIA) was undertaken in September of 2015 for up to 71 wind turbines with a hub height of up to 100m and a rotor diameter of up to 140m including associated infrastructure. EA for 65 turbines was granted on 29 January 2016 (EA Ref: 14/12/16/3/3/2/807) outlined in Table 1 below. The project underwent subsequent amendments (EA Ref: 14/12/16/3/3/2/807/AM1, 14/12/16/3/3/2/807/AM2, 14/12/16/3/3/2/807/AM3) which included increases in the hub height (up to 125m), rotor diameter (up to 160m), blade length (up to 80m), and minor amendments to the wording of certain conditions of the authorisation, as well as an extension of the validity of the EA to 2026.

Karreebosch is currently undertaking a Part 2 EA Amendment process, final layout and EMPr approval process as required in terms of the NEMA EIA Regulations (2014, as amended). The proposed amendments are detailed in Table 1 below and the final proposed layout is shown in Figure 2: Karreebosch Wind Energy Facility comprising of the WEF and associated grid infrastructure. below. The reduced 40 turbine layout of the Karreebosch WEF falls within the Sutherland Central Astronomy Advantage Area (SCAAA) as shown in Figure 3: Karreebosch WEF in relation to the SCAAA below.

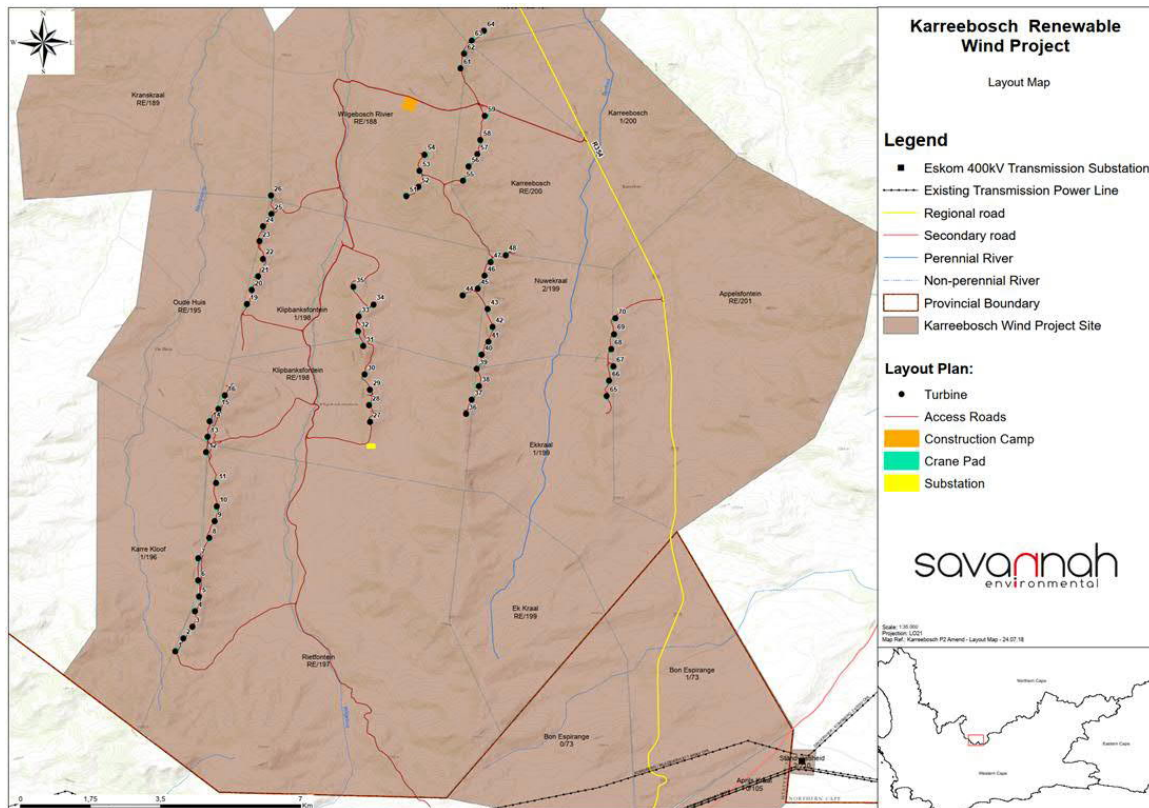


Figure 1: EA Approved 65 Turbine Layout and associated infrastructure (DEFF Reference No.: 14/12/16/3/3/2/807/AM2). Source: Savannah, 2018.

Table 1: EA Authorised infrastructure (14/12/16/3/3/2/807/AM3) and proposed 2022 amendments.

Infrastructure	Authorised Footprint and Dimensions (14/12/16/3/3/2/807/AM3)	2022 Amendments proposed
Overall capacity	140MW	140MW
Hub Height from ground level	Up to 125m above the foundation	Up to 140m
Rotor Diameter	Up to 160m	Up to 170m
Blade length	Up to 80m	Up to 85m
Internal access roads	Internal access roads up to 12 m wide	Internal access roads up to 12m wide (turns will have a radius of up to 55m) with additional yet associated servitudes/ reserve for above/underground cabling installation and maintenance where needed. 200m wide road corridor along the internal access roads for micro-siting during construction. Internal 4x4 tracks associated with the 33kV and 132Kv OHPLs will be

Infrastructure	Authorised Footprint and Dimensions (14/12/16/3/3/2/807/AM3)	2022 Amendments proposed
		up to 4m wide and substation access roads of up to 9m.
Turbines	Turbine foundations: Reinforced concrete foundation 25m in diameter, 4m deep. Crane pads (laydown areas) of 70m x 50m at each turbine	Turbine foundation of 30m in diameter and 5m in depth. Crane pads will be up to 1.2ha at each turbine.
Number of turbines	65	Up to 40

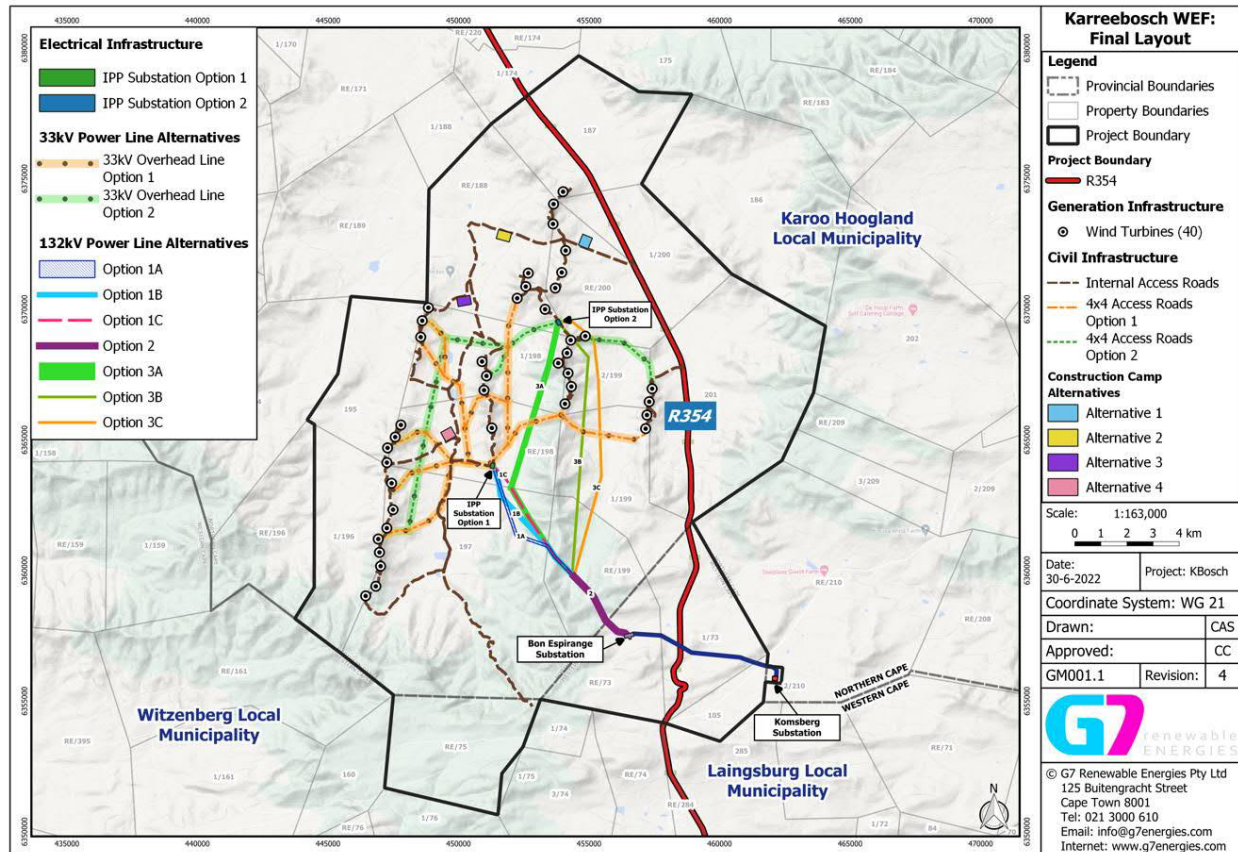


Figure 2: Karreebosch Wind Energy Facility comprising of the WEF and associated grid infrastructure.

1.2 Legislative & regulatory context

1.2.1 Government Gazette, No. 42492, No. 805

The Karreebosch WEF has the potential to negatively impact on the SCAAA in terms of Government Gazette, No. 42492, No. 805, dated 29 May 2019. The gazette provides for certain protective measures that apply to certain activities. These protective measures include:

- Monitoring and measuring of sky brightness and transparency shall be conducted within the SCAAA area. When the management authority becomes aware of new outdoor lighting installations or when new outdoor lighting sources are observed by the South African Astronomical Observatory ("SAAO"), located within the SCAAA, the management authority may arrange that a light pollution impact assessment is to be carried out on the average moonless night sky brightness levels within the SCAAA.
- Any person who intends to install new outdoor lighting must submit a request to the management authority before installation is done and provide full details of the light fittings to be installed and exactly where the light fittings will be installed in order that an assessment may be carried out on the installation to determine whether the average moonless night sky brightness levels within the SCAAA are exceeded.
- Any person who intends to conduct any activity within the SCAAA that may involve any earth works creating dust, must submit an application on the prescribed form, for approval by the management authority prior to commencing such activities.

Refer to Government Gazette, No. 42492, No. 805, dated 29 May 2019, for specifics on the points listed above. This application should also be read in conjunction with the existing EAs as detailed in section 1.1 above.

1.2.2 Astronomy Geographic Advantage Act (No. 21 of 2007)

Sub-regulations 5 (1) of schedule 1 of the regulations of the Astronomy Geographic Advantage Act (No. 21 of 2007) ("AGAA") defines the application process required for a party to seek approval for an activity involving any earth works creating dust capable of causing air pollution with a detrimental impact on optical astronomy conducted at the South African Astronomical Observatory near Sutherland. Karreebosch hereby applies in terms of sub-regulation 5 (1) of the AGAA for the Karreebosch WEF, as the construction of the various components of the facility will likely generate dust pollution.

2. Spatial orientation

2.1 Site location & siting

The Karreebosch WEF is located approximately 40km north of Matjiesfontein, and approximately 40 km south of Sutherland. The site falls within the Karoo Hoogland Local Municipality of the Namakwa District Municipality within the Northern Cape Province as well as the Laingsburg Local Municipality of the Central Karoo District Municipality and the Witzenberg Local Municipality of the Cape Winelands District Municipality within the Western Cape Province.

The full extent of the project is located just inside of the Sutherland Core Astronomy Advantage Area (SCAAA) as shown in Figure 4 below. The distance from the closest turbine (Turbine 21) to the Southern African Large Telescope (SALT) is 51,75km away, **and does not fall within the SALT or Core area**. The forty (40) turbine positions and turbine numbers are given in Table 2 below, showing geographical location of the turbines (longitude & latitude in degrees, minutes & seconds).

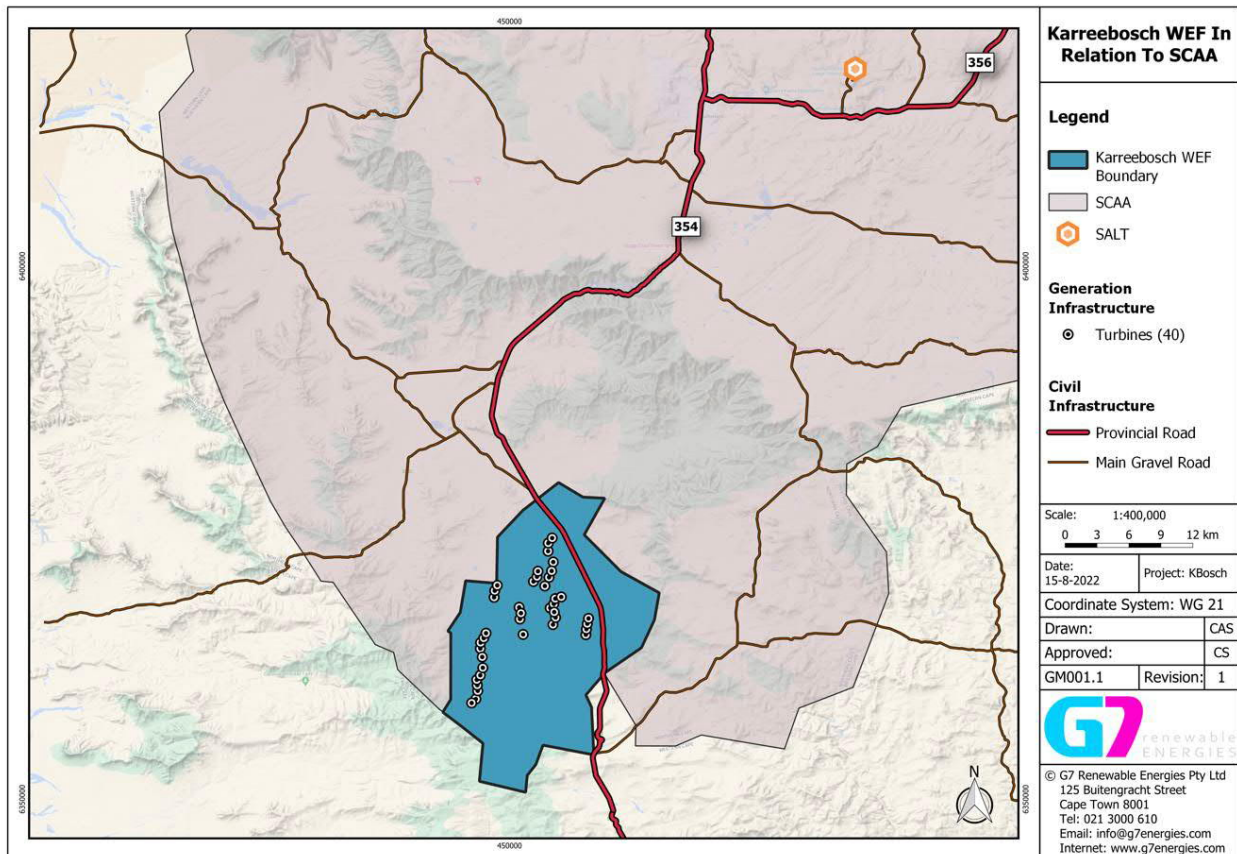


Figure 3: Karreebosch WEF in relation to the SCAA

2.2 Turbine location & siting

The table below indicates the coordinates of the turbine positions which are proposed as part of the Karreebosch WEF Part 2 EA amendment (existing approvals: EA Ref: 14/12/16/3/3/2/807, 14/12/16/3/3/2/807/AM2, 14/12/16/3/3/2/807/AM3).

Table 2: Central geographical coordinates of the proposed 40 turbine layout

Turbine Number	Latitude	Longitude	Elevation	Turbine Number	Latitude	Longitude	Elevation
1	32°50'54.08"S	20°32'32.25"E	1079.83	21	32°45'59.08"S	20°30'32.17"E	943.01
2	32°50'37.21"S	20°32'34.26"E	1099.98	22	32°50'52.39"S	20°28'45.59"E	1047.10
3	32°50'20.67"S	20°32'37.66"E	1078.82	23	32°50'5.34"S	20°28'34.34"E	1087.45
4	32°50'4.52"S	20°32'42.05"E	1063.48	24	32°49'47.63"S	20°28'38.08"E	1013.91
5	32°50'22.83"S	20°30'33.53"E	1142.02	25	32°49'29.71"S	20°28'31.65"E	982.56
6	32°50'1.32"S	20°30'43.08"E	1127.61	26	32°48'58.93"S	20°27'1.46"E	964.84
7	32°49'44.67"S	20°30'38.24"E	1110.52	27	32°48'38.61"S	20°27'3.85"E	976.05
8	32°49'32.12"S	20°30'23.87"E	1128.35	28	32°48'22.48"S	20°27'12.97"E	993.13
9	32°49'19.71"S	20°30'36.92"E	1115.32	29	32°54'20.37"S	20°25'38.28"E	1161.88
10	32°49'3.73"S	20°30'42.40"E	1070.14	30	32°54'8.46"S	20°25'53.43"E	1166.86
11	32°48'58.75"S	20°31'3.96"E	1019.55	31	32°53'43.46"S	20°26'0.55"E	1237.05
12	32°48'25.12"S	20°30'4.84"E	1019.30	32	32°53'26.32"S	20°25'59.00"E	1228.76
13	32°48'11.27"S	20°29'23.86"E	991.02	33	32°53'9.72"S	20°25'57.30"E	1214.20
14	32°47'56.79"S	20°29'36.64"E	1035.50	34	32°52'56.20"S	20°26'10.07"E	1151.61
15	32°47'40.12"S	20°29'40.33"E	979.55	35	32°52'33.31"S	20°26'19.32"E	1153.75
16	32°47'58.83"S	20°30'20.03"E	1016.55	36	32°52'0.45"S	20°26'17.41"E	1072.64
17	32°47'39.45"S	20°30'29.68"E	968.80	37	32°51'34.74"S	20°26'10.66"E	1073.71
18	32°47'12.26"S	20°30'35.59"E	931.25	38	32°51'16.48"S	20°26'11.75"E	1114.68
19	32°46'39.09"S	20°30'17.18"E	959.90	39	32°51'3.03"S	20°26'23.14"E	1101.70
20	32°46'14.39"S	20°30'18.08"E	991.80	40	32°50'48.05"S	20°26'31.57"E	1069.24

As indicated in Table 2 (above) the elevation of the highest point at the Project site is 1237m above sea level at ground level for Turbine ID 31. The shortest distance between a turbine (Turbine ID 21) to be built and the Southern African Large Telescope ("SALT") is 51,75 km and does not fall within the Sutherland

Core Astronomy Advantage Area, which is defined as all land within a 3km radius of the SALT. The wind direction which may affect dust pollution (if at all) is the south-western winds, which is not the prevailing wind direction of the area (refer to Section 2.3 and Figure 4 below).

2.3 Wind direction

The wind frequency diagram illustrates the wind speed and directional data captured during the wind measurement campaign conducted prior to the development of the Project. The wind measurement campaign was conducted over a period of 10 years utilising two (2) 62m masts and a period of over 7 years with two (2) 80m high measurement masts equipped with anemometers for wind speed measurements and wind vanes for directional measurements. The met masts data availability per mast since their commissioning, ranges between 95.7% and 99.8% for top wind speed sensors.

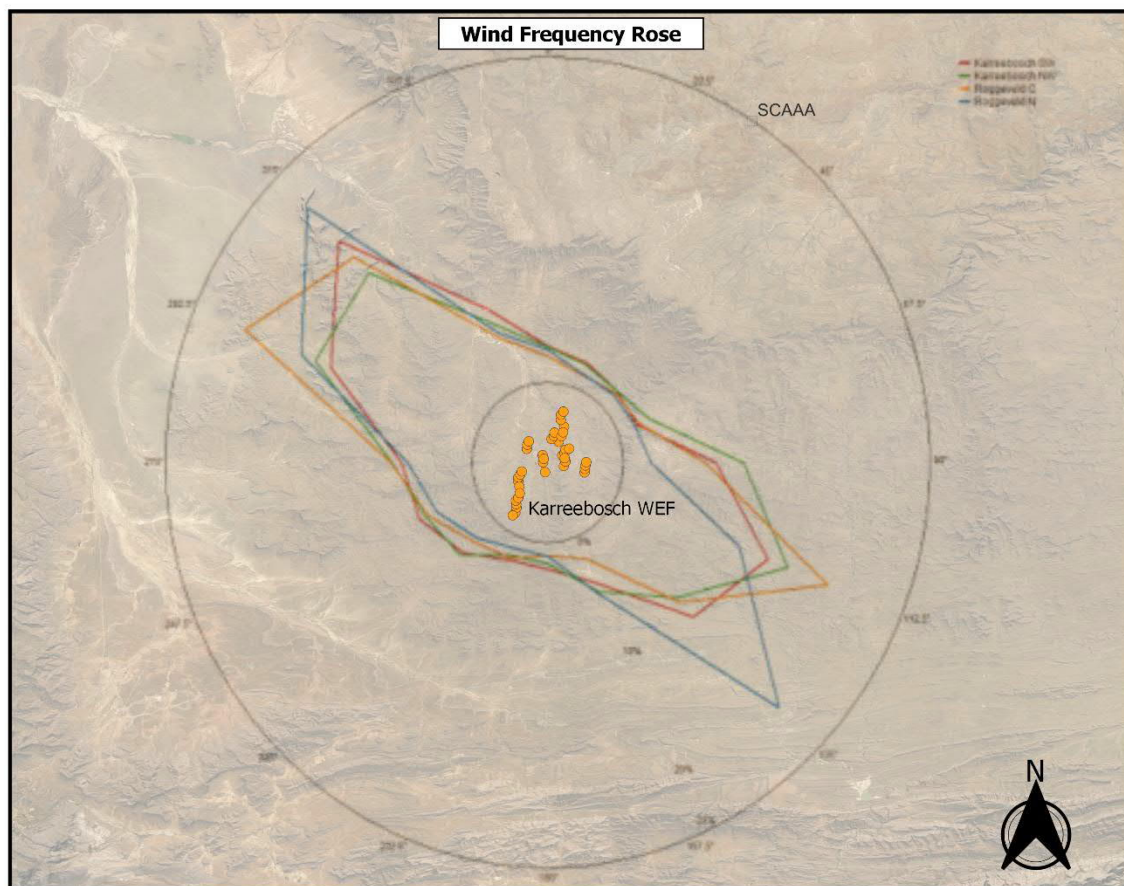


Figure 4: Wind frequency rose diagram overlay



As illustrated above in the wind frequency diagram, the prevailing wind directions are between 100° - 135° and 292.5° - 315° . Degree direction that falls between 100° - 135° is considered as a South-East wind and degree directions between 292.5° - 315° is considered to be a North-West wind.

3. Infrastructure and impacts

It is important to consider the potential impact that the larger Project (Karreebosch WEF and Grid infrastructure combined) may have due to its proximity of the SCAAA. The following sections addresses the scope of the infrastructure that the Project consists of as well as the possible effects caused by the construction and operation of the infrastructure.

The scope of the operations and the methods to be employed, as required in terms of Section 3 of the application form, are detailed herein. Three key components considered within this section include the proposed extent of project infrastructure, consideration of project activities which may contribute to light and dust pollution and, finally, a brief summary of transport activities expected during construction.

3.1 Proposed infrastructure

Table 3 below details the proposed infrastructure associated with the Project (Karreebosch WEF and Grid). For information regarding the activities associated with possible dust, emissions and light pollution, please refer to Table 4.

Table 3: Proposed Infrastructure associated with the Karreebosch WEF Amendment

Infrastructure	Footprint and Dimensions
Development area	Approximately 200.51 ha
Generation capacity of WEF component	Up to 140 MW
Number of WTGs locations permitted	Up to 40
Hub Height	Up to 140m above the foundation
Rotor Diameter	Up to 170m
Blade length	Up to 85m
Turbine foundations	Turbine foundations: Reinforced concrete foundation 30m x 30, 5m deep. Crane pads (laydown areas) of 90m x 50m.
Internal Access Roads	Internal access roads up to 12m wide, comprising of ~76 km of new internal access roads and up to ~13km of 4x4 access tracks . ~30km of existing access roads which are 4m wide will be widened by up to 9m.
Site Access	The existing access off the R354 is the main access road to the to the proposed facility site as it is an existing road and allows direct access to the site.
On-site substation	One (1) new 33/132kV on-site substation. Total footprint: up to approximately 4ha.
132kV Overhead Powerline (OHPL)	Up to 20,5km 132kv OHPL and associated servitude below

3.2 Impacting activities during construction and operation.

Table 4 below details activities associated with possible dust, emissions and light pollution applicable to the components of the entire Project (the WEF, associated Grid and supporting infrastructure).

Table 4: Proposed activities and possible effects caused by the activities within and adjacent to the SCAA

Project Component	Activity	Effects
WEF & Grid component	<ul style="list-style-type: none"> • Earthworks (Construction, Excavation, etc.) • Transport of construction material (conventional trucks during Construction- and Decommissioning-Phase) • Transport of Equipment (40ft container trucks during Construction- and Decommissioning-Phase) • Transport of staff to site (Light Differential Vehicle) • Navigation Lights as per South African Civil Aviation Authority (SACAA) requirements • Construction Lighting 	<ul style="list-style-type: none"> • Dust Generation • Light Pollution
Supporting Infrastructure component	<ul style="list-style-type: none"> • Earthworks (Construction, Excavation, etc.) • Transport of construction material (conventional trucks during Construction- and Decommissioning-Phase) • Transport of staff to site (Light Differential Vehicle) • Construction Lighting 	<ul style="list-style-type: none"> • Dust Generation • Light Pollution

3.2.1 Transport as an impacting activity

Considering Section 3.2 above, transport activities during the construction phase of the Project may play a major role in the generation of dust. This matter was considered in a Transport Impact Assessment Studies prepared by JG AFRIKA (Pty) Ltd as part of the application for EA for the Project (in 2021 and reassessed as part of the amendments in 2022) for the WEF component and a separate assessment for the Grid EA application in 2022 (JG AFRIKA). These specialist reports can be provided on request.

The following activities with trip generation estimates were assumed for the 2022 Transport study:

- **Material delivery:** This includes heavy vehicles for the transport of building materials such as reinforced concrete materials for foundations, gravel material for roadworks, brickwork material for buildings, fencing material, etc. The major trip generation activities are assumed to result from the construction of turbine foundations and road material delivery.
- Heavy vehicles (reinforced concrete materials): 60 trips per turbine (i.e., 2400 trips for 40 turbines)
- Heavy vehicle (road layer works): 90 trips per turbine (i.e., 3600 trips for 40 turbines)
- Considering the worst-case scenario of 6000 heavy vehicle trips for the full site construction. Based on a 24-30 month estimated construction period, with ± 235 annual average working days (five-day work week), an estimated maximum of 13 daily trips can be assumed for material delivery. This

results in 4 peak hour estimated trips (a 4-hr delivery window/day is assumed). The additional 480 abnormal load trips for wind turbine component delivery are highly variable, but are outlined below.

- **Wind turbine component delivery:** This includes delivery of wind turbine components (i.e., blades, nacelle, turbine hub, and tower sections).
- The blades, nacelle and turbine hub are expected to be transported by abnormal loads. These are expected to be shipped from the nearest port of entry (i.e., Port of Saldanha Bay). As the worst-case scenario, it will be assumed that the turbine blades will each be delivered separately. The wind turbine towers can be manufactured locally. Steel towers can be sourced from Cape Town, Atlantis or Port Elizabeth, and concrete towers can be manufactured near the site. As the worst-case scenario, it will be assumed that the towers will be sourced from a manufacturer and delivered on site.
- Abnormal loads (turbine components): 12 trips per turbine (i.e., 480 total trips for 40 turbines)
- The abnormal load trips are highly depended on project planning and abnormal load permitting. These trips are not necessarily concentrated to the peak hours. The number of peak hour vehicle trips generated by abnormal load vehicles is thus unknown at this stage.

3.2.2 Dust Generation

It should be noted that majority of dust generation will be concentrated around the proposed WEF component of the Project, as this component requires the largest area of vegetation clearance and groundworks. The WEF component of the Project is located approximately 51.75 km south-west of the SALT. It is worth noting that the prevailing wind direction is predominantly in the **north-west direction** (as indicated in the wind frequency diagram, Figure 4). This implies that movement of dust generated during the construction phase of this component (as well as other facility components in general) **is not blown towards the SALT**. Please refer to the wind frequency rose diagram (Figure 4) in Section 2.3 above, illustrating the wind speed and directional data captured during the wind measurement campaign conducted prior to the development of the Project.

The 2015 Agriculture and Soil assessment concluded would have an overall MODERATE NEGATIVE significance pre-mitigation. With the implementation of the mitigation measures to further suppress the potential of negative impacts (as outlined in Table 6Table 5 below), the impacts can be reduced to MINOR NEGATIVE. The following section details the proposed mitigation measures as per the Draft Environmental Management Programmes (EMPrs) for the Project (which can be provide upon request). These mitigations are detailed in Chapter 4 below.

3.2.3 Light Pollution

The Project components include several activities that require artificial lighting during construction and operation. These include lighting for construction during low light conditions, obstacle lighting on turbines (to be confirmed by the SACAA), and operational lighting for facility buildings. The mitigation measures addressing these possible sources of light pollution is detailed in Table 6 below.

The potential visual impacts of operational, safety and security lighting of the facility at night on observers within the region, with specific reference to the South African Large Telescope (SALT) near Sutherland (as assessed in the original VIA (2015) and confirmed in 2018 and 2021) : *The SALT is situated at the South African Astronomical Observatory (SAAO) field station 14km from the town of Sutherland...The site is 50km to the north east of the proposed WEF and lies on an elevated plateau. The wind turbines associated with the Karreebosch WEF are all located below the escarpment and is not expected to be visible from the observatory due to the topography and the significant distance.*

4. Impact Assessment Summary: Dust Emissions and Lighting

This section of the report details the potential sources of dust and light pollution and presents mitigation measures proposed as part of the Environmental Impact Assessment (EIA) and specialist investigations conducted as part of the Project's EA application processes detailed below.

The impacts of dust and light pollution were assessed for the construction, operation, and decommissioning phases associated with the Project, within the relevant EA application documents, as listed below (available on request):

- Final EIA Report (and associated specialist studies) submitted September 2015 as part of the original application for EA for the 140MW Karreebosch WEF (14/12/16/3/3/2/807) and associated infrastructure (Savannah Environmental, 2015).
- Final EA Amendment Report (and associated specialist studies) submitted October 2018 as part of the application to amend the hub height and rotor diameter of the authorised 65 turbine layout Karreebosch WEF (14/12/16/3/3/2/807/AM2) (Savannah Environmental , 2018).
- Draft EA Amendment Report (and associated specialist studies) submitted on the 23 August 2022 as part of the application for amendment of the EA (for which this SCAA application is being submitted), layout finalisation and final approval of the EMPr for the Karreebosch WEF (WSP, 2022).
- Draft Basic Assessment Report (and associated specialist studies) submitted on the 23 August 2022 as part of the application for EA for the development of the Karreebosch 132kV powerline and substation (WSP, 2022).

The impacts of dust emissions and lighting were identified as being of moderate significance across all assessments conducted (as detailed above), however, once the proposed mitigation measures were applied, the impact was reduced to minor significance.

A list of the conditions included in the original Environmental Authorisation (EA REF: 14/12/16/3/3/2/807) of 2016 which relate to dust and lighting impacts which must be addressed, are included in Table 5 below.

The possible effects caused by the proposed facility, as well as the proposed mitigation measures to minimise these effects, are listed in Table 6 below.

Table 5: Conditions of approval as contained in the original Environmental Authorisation EA REF: 14/12/16/3/3/2/807 relating to Dust & Light



Condition Number	Conditional Wording
<ul style="list-style-type: none"> CONDITION 83 EA REF: 14/12/16/3/3/2/807 	The holder of this authorisation must reduce visual impacts during construction by minimising areas of surface disturbance, controlling erosion, using dust suppression techniques and restoring exposed soil as closely as possible to their original contour and vegetation.
<ul style="list-style-type: none"> CONDITION 84 EA REF: 14/12/16/3/3/2/807 	A lighting engineer or relevant authority must be consulted to assist in the planning and placement of light fixtures in order to reduce visual impacts associated with glare and light trespass.
<ul style="list-style-type: none"> CONDITION 107 EA REF: 14/12/16/3/3/2/807 	Dust abatement techniques must be used before and during surface clearing, excavation, or blasting activities.
<ul style="list-style-type: none"> CONDITION 108 EA REF: 14/12/16/3/3/2/807 	Appropriate dust suppression techniques must be implemented on all exposed surfaces during periods of high wind. Such measures may include wet suppression, chemical stabilisation, the use of a wind fence, covering surfaces with straw chippings and re-vegetation of open areas.

Table 6: Determination of possible dust and lighting pollution as per number 5 (a) & (b) of the application form

Possible effects caused by operations	Mitigation measure	Significance before mitigation	Significance after mitigation
Dust emissions caused by earthworks, vegetation clearing and transport of materials for the entire Project (Karreebosch WEF & powerline construction).	<ul style="list-style-type: none"> Soils <ul style="list-style-type: none"> Use dust suppression methods/material/chemical Minimise activity on steep slopes/ the side of slopes. Implement effective erosion control measures and Erosion Management plan. Keep to existing roads, where practical, to minimise impact on undisturbed ground. Stockpiles should not exceed 2m in height and must be handles with dust suppressants Stockpiles not used in three (3) months after stripping must be seeded to prevent dust and erosion, only if natural seeding does not occur. Visual <ul style="list-style-type: none"> Ensure that vegetation is not unnecessarily removed during the construction period. Reduce the construction period through careful logistical planning and productive implementation of resources. 	MODERATE-	MINOR-

	<ul style="list-style-type: none"> Plan the placement of lay-down areas and temporary construction equipment camps in order to minimise vegetation clearing (i.e. in already disturbed areas) wherever possible. Restrict the activities and movement of construction workers and vehicles to the immediate construction site and existing access roads. Ensure that rubble, litter, and disused construction materials are appropriately stored (if not removed daily) and then disposed regularly at licensed waste facilities. Reduce and control construction dust using approved dust suppression techniques as and when required (i.e. whenever dust becomes apparent). Restrict construction activities to daylight hours whenever possible in order to reduce lighting impacts. Rehabilitate all disturbed areas immediately after the completion of construction works. Traffic <ul style="list-style-type: none"> The delivery of components to the site can be staggered and trips can be scheduled to occur outside of peak traffic periods. Dust suppression of gravel roads during the construction phase, as required. Regular maintenance of site gravel roads by the Contractor when needed. The use of mobile batch plants and quarries near the site would decrease traffic on the surrounding road network. Staff and general trips should occur outside of peak traffic periods as far as possible. 		
<p>Dust Emissions mitigation measures as per WEF EMPr (2015) as amended (2022)</p>	<ul style="list-style-type: none"> Implement appropriate dust suppression measures on site (e.g. wetting roads on a regular basis) while taking into account water shortages. Haul vehicles moving outside the construction site carrying material that can be wind-blown should be covered with tarpaulins where possible. Ensure vehicles adhere to speed limits on public roads and speed limits set within the site by the Site Manager. Vehicles should be fitted with recorders to record when vehicles exceed the speed limit. Disturbed areas must be re-vegetated using appropriate vegetation as soon as practicable after construction is complete in an area. Vehicles and equipment must be maintained in a road-worthy condition at all times. Ensure that damage to gravel public roads and access roads attributable to construction vehicles is repaired before completion of construction phase. Regular dust control of materials (sand, soil, cement) must be used at concrete batching plants on site 		
<p>Dust Emissions mitigation measures as per DFFE pre-approved Generic EMPr (OHPL)</p>	<ul style="list-style-type: none"> Take all reasonable measures to minimise the generation of dust as a result of project development activities to the satisfaction of the ECO; 		

	<ul style="list-style-type: none"> • Removal of vegetation must be avoided until such time as soil stripping is required and similarly exposed surfaces must be re- vegetated or stabilised as soon as is practically possible; • Excavation, handling and transport of erodible materials must be avoided under high wind conditions or when a visible dust plume is present; • During high wind conditions, the ECO must evaluate the situation and make recommendations as to whether dust damping measures are adequate, or whether working will cease altogether until the wind speed drops to an acceptable level; • Where possible, soil stockpiles must be located in sheltered areas where they are not exposed to the erosive effects of the wind; • Where erosion of stockpiles becomes a problem, erosion control measures must be implemented at the discretion of the ECO; • Vehicle speeds must not exceed 40 km/h along dust roads or 20 km/h when traversing unconsolidated and non-vegetated areas; • Straw stabilisation must be applied at a rate of one bale/10 m² and harrowed into the top 100 mm of top material, for all completed earthworks; • For significant areas of excavation or exposed ground, dust suppression measures must be used to minimise the spread of dust. 		
<p>Dust and Particulate Matter Emission mitigation measures as per site specific EMPr (OHPL)</p>	<ul style="list-style-type: none"> • When required, dust suppression methods such as water suppression must be used, especially during dry and windy periods. Dust must be visually monitored on a daily basis and reasonable measures implemented to ensure emissions are minimised. • All materials transported to, or from, site must be transported in such a manner that they do not fly or fall off the vehicle. This may necessitate covering or wetting friable materials. • Ensure that all vehicles and machines are adequately maintained to minimise emissions 		
<p>Light Pollution, Glare and Visual Impact for the entire Project (Karreebosch WEF & powerline construction).</p>	<ul style="list-style-type: none"> • Limit aircraft warning lights to the turbines on the perimeter, thereby reducing the overall requirement. • Shield the sources of light by physical barriers (walls, vegetation, or the structure itself). • Limit mounting heights of lighting fixtures, or alternatively use foot-lights or bollard level lights. • Make use of minimum lumen or wattage in fixtures. • Make use of down-lighters, or shielded fixtures. • Make use of motion detectors on security lighting. This will allow the site to remain in relative darkness, until lighting is required for security or maintenance purposes. • Make use of Low-Pressure Sodium lighting or other types of low impact lighting 	<p>Moderate</p>	<p>Low</p>
<p>Light Emissions mitigation measures as</p>	<ul style="list-style-type: none"> • During the planning phase for the Karreebosch WEF it must become mandatory to only use lights with low sensitivity motion sensors that switch off automatically when 		

<p>per WEF EMPr (2015) as amended (2022)</p>	<p>no persons are nearby, to prevent the creation of regular insect gathering pools, where practically possible without compromising security requirements. This applies to the turbine bases (if applicable) and other infrastructure/buildings.</p> <ul style="list-style-type: none"> • Aviation lights should remain as required by aviation regulations. Floodlights should be down-hooded and where possible, lights with a colour (lighting temperature) that attract less insects should be used. • Bi-annual visits to the facility at night must be conducted for the operational lifetime of the facility by operational staff of the facility, to assess the lighting setup and whether the passive motion sensors are functioning correctly. 		
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5. Conclusion

Karreebosch trusts that the information provided within is sufficient to inform the Authority's decision in respect of Karreebosch's application for approval in terms of Geographic Advantage Act, Act 21 of 2007 for the Project.

In conclusion, Karreebosch reiterates a few key considerations as bullet points below:

- The turbines do not fall within the **SALT or Core Area**.
- Furthermore, the largest portion of construction, site clearing and other possible dust generating activities take place **outside of the Core Area**.
- The prevailing wind direction, being in the north-west direction indicates that there is **low to no risk** of dust emissions being carried by the winds closer to the SCAAA.

Additionally, as per the original EMPr (Savannah Environmental, 2015), The Environmental Control Officer (ECO) will monitor compliance with the EMPr during construction, and will conduct monitoring activities on a regular basis (this includes aspects of listed in Table 4): *"An independent ECO must be appointed, and have the appropriate experience and qualifications to undertake the necessary tasks. The ECO will report any non-compliance or where corrective action is necessary to the Site Manager, DFFE and/or any other monitoring body stipulated by the regulating authorities"*. The Environmental Control Officer (ECO) will be appointed by Karreebosch to provide independent monitoring and auditing of the site conditions, including dust emissions and lighting requirements (in accordance with the EAs and final EMPRs), and will be authorised to impose spot fines for the creation of excess dust. As further stated in the EMPr for the powerline (WSP, 2022) The Environmental Officer's (EO's) responsibilities include: ***Undertaking daily environmental monitoring to ensure the Contractor's activities do not impact upon the receiving environment. Such monitoring shall include dust, noise and water monitoring;***

Should additional mitigation measures be required by the Authority to further reduce the impact of the Project on the SCAAA, Karreebosch kindly requests that these be brought to the attention of Karreebosch for consideration and implementation thereof.



Thank you for your consideration.

Kind regards,

A handwritten signature in black ink, appearing to read "Skye Clarke-Mcleod", is written over a horizontal line.

Skye Clarke-Mcleod

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