




**KUDUSBERG WIND FARM (PTY) LTD**

---

**Proposed Development of the 325MW  
Kudusberg Wind Energy Facility and  
associated infrastructure, between  
Matjiesfontein and Sutherland in the  
Western and Northern Cape Provinces**

**Revised Draft Environmental Authorisation  
(EA) Amendment Assessment Report**

DEFF Reference Number: 14/12/16/3/3/1/1976/AM2  
Issue Date: 25 January 2021  
Version No.: 1.0  
Project No.: 16235

<b>Date:</b>	25 January 2021
<b>Document Title:</b>	Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces – <b>Revised Draft Environmental Authorisation (EA) Amendment Assessment Report</b>
<b>Authors:</b>	<b>Stephan Jacobs</b> B.Sc. (Hons) Environmental Management & Analysis (UP) B.Sc. Environmental Sciences (UP)
<b>Version Number:</b>	1.0
<b>Checked by:</b>	<b>Liandra Scott-Shaw (EAP)</b> B.Sc. (Hons) Ecological Science (UKZN)
<b>Approved (Internal SiVEST Approval):</b>	<b>Liandra Scott-Shaw (EAP)</b> B.Sc. (Hons) Ecological Science (UKZN)
<b>Signature:</b>	
<b>For:</b>	Kudusberg Wind Farm (Pty) Ltd

### **Confidentiality Statement**

**© SiVEST SA (Pty) Ltd**  
**All rights reserved**

*Copyright is vested in SiVEST SA (Pty) Ltd in terms of the Copyright Act (Act 98 of 1978). This report is strictly confidential and is to be used exclusively by the recipient.*

*Under no circumstances should this report or information contained therein be distributed, reprinted, reproduced or transmitted in any form or by any means, electronic or mechanical, without the written consent of SiVEST SA (Pty) Ltd.*

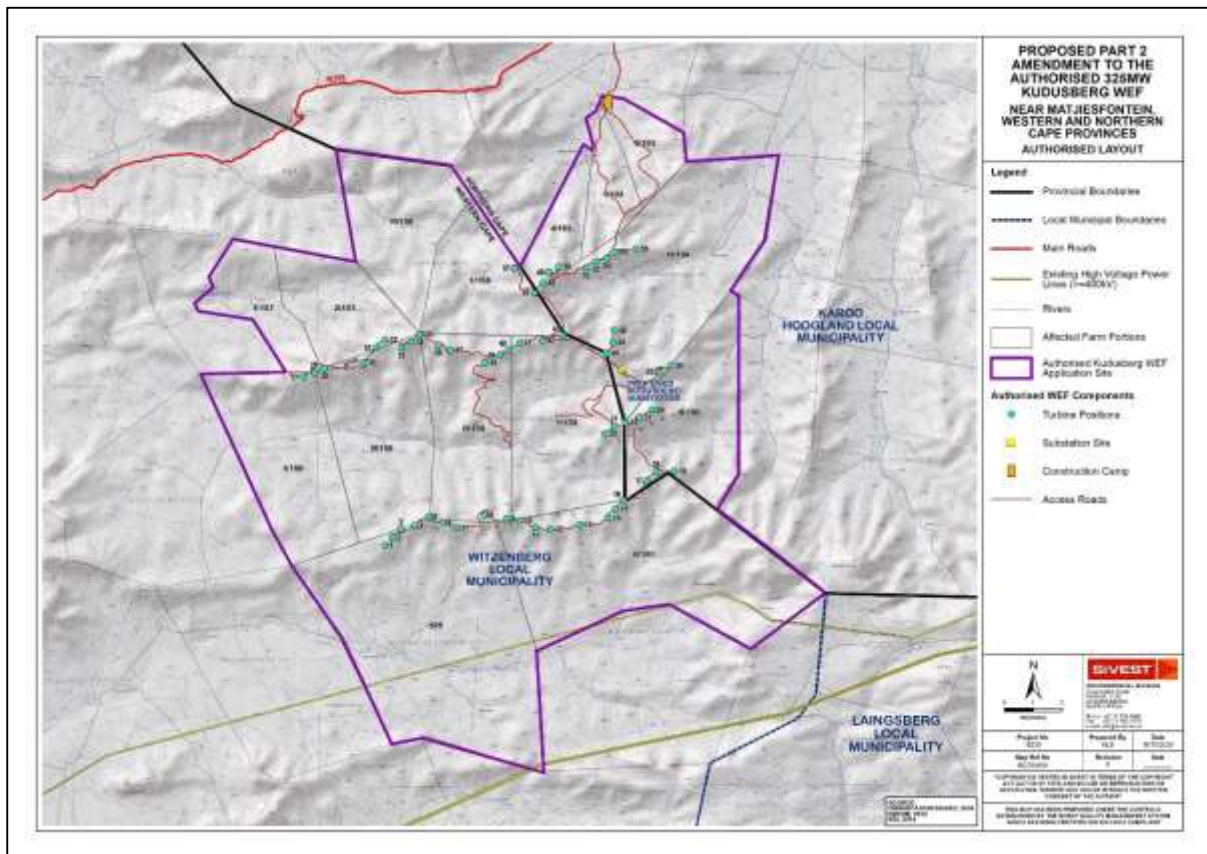
For ease of reference, all material information that has changed in this report has been underlined. Please note that the report has been updated from future tense to past tense (where applicable) and these changes have not been underlined.

# KUDUSBERG WIND FARM (PTY) LTD

## **REVISED DRAFT ENVIRONMENTAL AUTHORISATION (EA) AMENDMENT ASSESSMENT REPORT**

### **EXECUTIVE SUMMARY**

Kudusberg Wind Farm (Pty) Ltd (hereafter referred to as “Kudusberg Wind Farm”) was issued with an Environmental Authorisation (EA) for the proposed construction of the 325MW Kudusberg Wind Energy Facility (WEF) and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces. The EA was granted on 25 March 2019 (**DEFF Reference No.: 14/12/16/3/3/1/1976**) (**Appendix A**), and subsequently amended on 04 April 2019 to correct a minor naming error (**14/12/16/3/3/1/1976/AM1**). The layout for the authorised Kudusberg WEF is presented in **Figure i** below.



**Figure i:** Layout map for authorised Kudusberg WEF (14/12/16/3/3/1/1976/AM1)

Kudusberg Wind Farm is now proposing to submit a Part 2 EA Amendment Application to split the authorised Kudusberg WEF (14/12/16/3/3/1/1976/AM1) into two (2) separate smaller WEF projects, namely the Kudusberg WEF and Oya WEF, which will result in a number of technical and administrative changes detailed below in **Table i** below. The split is being proposed to allow the projects to be suitable for numerous opportunities such as either the Renewable Energy Independent Power Producer Procurement Programme (REIPPPP), Risk Mitigation Independent Power Producer Procurement Programme (RMIPPPP), other government run procurement programmes that may arise or for sale to private entities, if enabled and/or required in the drive for energy security in South Africa.

**KUDUSBERG WIND FARM (PTY) LTD**

**prepared by: SiVEST Environmental**

Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

Page ii

Following the split, the northern section of the authorised WEF will become the Oya WEF (**Figure ii**), while the southern section of the authorised WEF will remain known as the Kudusberg WEF (authorised under 14/12/16/3/3/1/1976/AM1) (**Table i**) (**Figure iii**). In addition to the split, the final layout for the Oya WEF is being submitted which has been informed by detailed specialist walk-throughs and on-site micro-siting as per condition 29 of the Kudusberg EA<sup>1</sup>.

It should be noted that after the submission of the Draft EA Amendment Assessment Report [which was made available for a 30-day<sup>2</sup> comment and review period, from 18 November 2020 to 11 January 2021 (excluding public holidays and the DEFF's December Closure Period)], the applicant made minor changes to the respective layouts being proposed for authorisation (namely the Oya WEF and Kudusberg WEF – see **Figure ii** and **Figure iii** below). This involved a slight adjustment in the number of turbines being proposed for each respective WEF (namely reducing number of turbines for Oya WEF, from 20 to 18, and increasing the number of turbines for Kudusberg WEF, from 36 to 38 – see **Table i** below) as well the inclusion of a section of an existing road<sup>3</sup> which was not presented in the previous layout for the Oya WEF. In addition, changes were made to the capacity (i.e. MW), hub height, rotor diameter and blade length for the proposed Oya WEF. All other technical details associated with the proposed projects are however the same. The hub height, rotor diameter and blade length for the Kudusberg WEF also remains unchanged as these specifications (as detailed in **Table i** below) were approved as part of the EA which was granted on 25 March 2019 (**DEFF Reference No.:** 14/12/16/3/3/1/1976). The technical details / specifications for each proposed WEF project are presented in **Table i** below.

The above-mentioned project changes were disseminated to all specialists for review, and each specialist was asked to amend their respective reports and/or comment letters in order to reflect these changes, or to compile a letter addressing these project changes. In addition, the specialists were also asked to provide confirmation (in the form of email confirmation) regarding the acceptability of the inclusion of the section of the existing road mentioned above (i.e. whether it would have any bearing on their findings). Refer to **Appendix C** and **Appendix D** respectively for the updated specialist reports and letters. This also includes the confirmation from each specialist with regards to the acceptability of the inclusion of the section of the existing road. It should be noted that a separate risk assessment was also undertaken for assessing the above-mentioned road's risk significance on watercourses (since the road is an existing road and entails existing large watercourse crossings via culvert and bridge crossings) and was subsequently included in the updated Freshwater Assessment Report (**Appendix C8**<sup>4</sup>).

The respective layouts for the proposed Kudusberg WEF (southern section of the authorised WEF) and Oya WEF (northern section of the authorised WEF) following the project changes mentioned above are presented in **Figure ii** and **Figure iii** below.

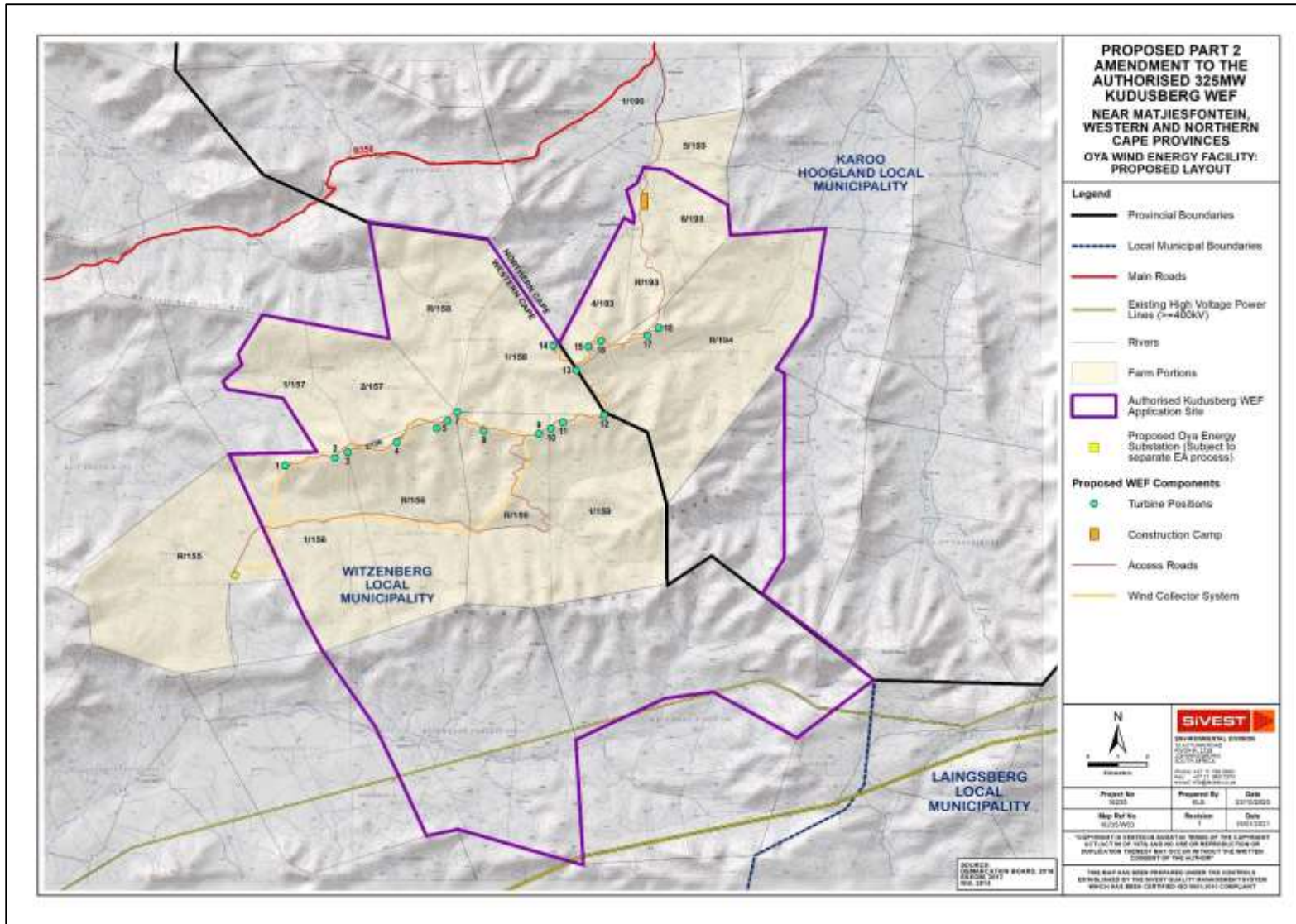
---

<sup>1</sup> Condition 29 of Kudusberg EA (**DEFF Ref:** 14/12/16/3/3/1/1976/AM1) – Page 15 of EA (page 17 of full document): *the final placement of turbines must follow a micro siting procedure involving a walk-through and identification of any sensitive areas by ecological, avifaunal, bat, surface water and heritage specialists.*

<sup>2</sup> DEFF have approved a 30-day comment and review period. Please refer to **Appendix E9** for a copy of the Public Participation Plan, including approval thereof.

<sup>3</sup> Road was not reflected in previous layouts presented in Draft EA Amendment Assessment Report, however, it falls within area assessed by specialists as part of Part 2 EA Amendment process. Road will be maintained (re-gravelled) during construction and operation.

<sup>4</sup> Compiled in October 2020, however, updated in January 2021 to reflect project changes made after submission of Draft EA Amendment Assessment Report.



**Figure ii:** Layout map for proposed Oya WEF (northern section of the authorised WEF)

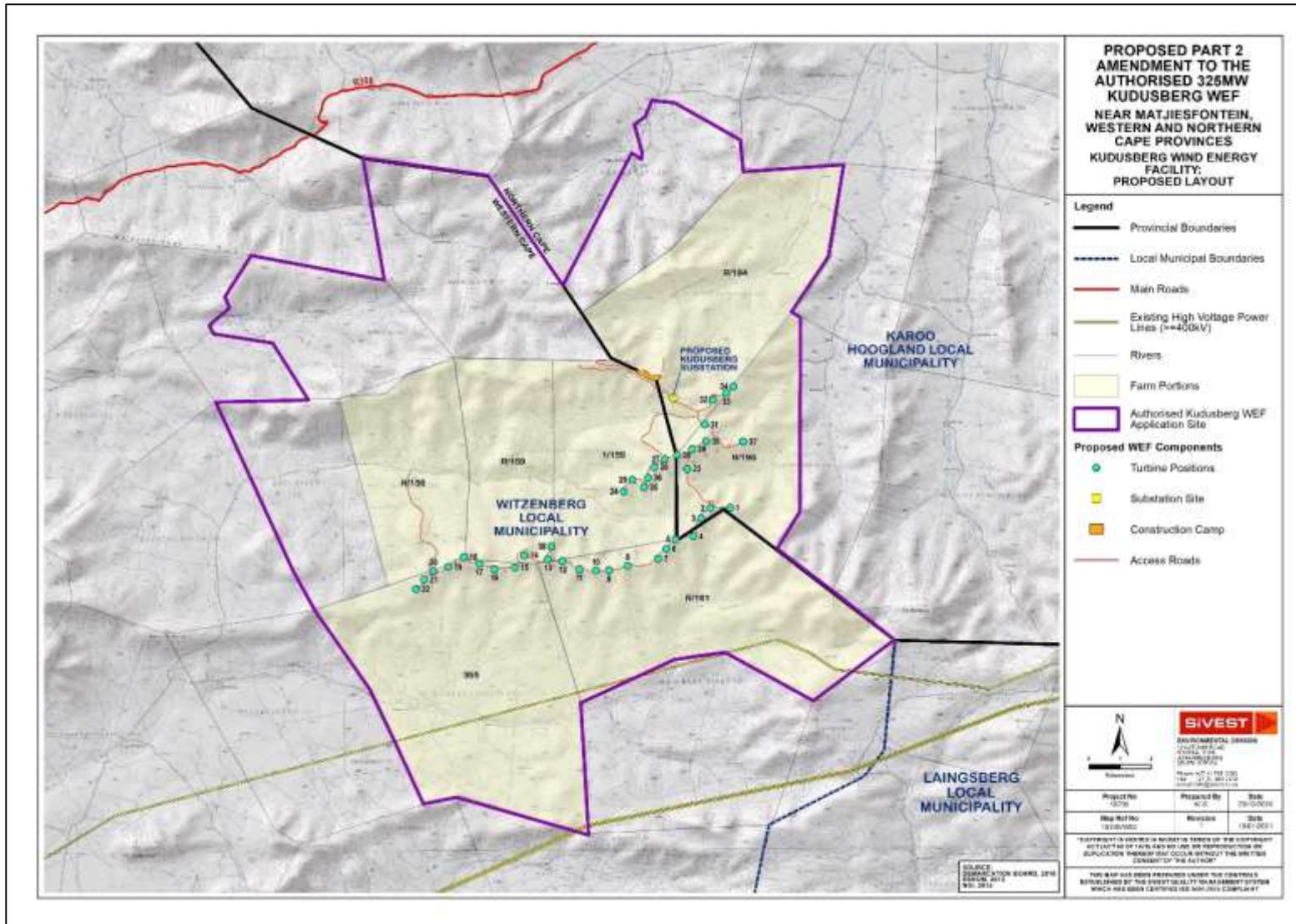
**KUDUSBERG WIND FARM (PTY) LTD**

Part 2 EA Amendment Process for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

prepared by SiVEST Environmental



**Figure iii:** Layout map for proposed Kudusberg WEF (southern section of the authorised WEF)

Furthermore, the approved EMPr authorised as part of the Kudusberg EA is being amended to each WEF. The Oya EMPr is also being updated to incorporate the final layout for the Oya WEF, management plans and the walk-throughs.

The amendments detailed in **Table i** below (including changes to specifications presented in Draft EA Amendment Assessment Report) are proposed for each of the two (2) WEFs mentioned above. It should be noted that the table below has been updated to reflect the amendments initially applied for, as well as the amendments now being applied for following the project changes mentioned above:

**Table i: Proposed Amendments**

Aspect to be amended	Authorised	Proposed Amendment – <u>Draft EA Amendment Assessment Report Submitted 18 November 2020</u>		Proposed Amendment – <u>Revised Draft EA Amendment Assessment Report re-submitted 25 January 2021</u>	
		Oya WEF	Kudusberg WEF	Oya WEF	Kudusberg WEF
<b>Administrative Aspects</b>					
Amend the holder of the EA's	Kudusberg Wind Farm (Pty) Ltd	Oya Energy (Pty) Ltd	Kudusberg Wind Farm (Pty) Ltd	<b><u>No Change</u></b>	<b><u>No Change</u></b>
Amend the name of the WEFs	Kudusberg Wind Energy Facility	Oya Wind Energy Facility	Kudusberg Wind Energy Facility	<b><u>No Change</u></b>	<b><u>No Change</u></b>
Contact Details	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	<a href="mailto:oya@g7energies.com">oya@g7energies.com</a>	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	<b><u>No Change</u></b>	<b><u>No Change</u></b>
Extend the validity of the EA	This activity must commence within a period of five (05) years from the date of issue of this environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	<b><u>No Change</u></b>	<b><u>No Change</u></b>
Location of Activity and SG codes	<b>Western Cape</b> 1. Portion 1 of 156 Gats Rivier Farm: C019000000000156000 01 2. Portion 3 of 156 Gats River Farm: C019000000000156000 02 3. Remainder of 156 Gats Rivier Farm: C019000000000156000 00 4. Portion 1 of 157 Riet Fontein Farm: C019000000000157000 01 5. Portion 1 of 158 Amandelbloom Farm: C019000000000158000 01	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C019000000000156000 01 2. Portion 2 of the Farm Gats Rivier No 156: C019000000000156000 02 3. Remainder of the Farm Gats Rivier No 156: C019000000000156000 00 4. Portion 1 of the Farm Riet Fontein No 157: C019000000000157000 01 5. Portion 2 of the Farm Riet Fontein No 157: C019000000000157000 02	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C01900000000015600001 2. Remainder of the Farm Gats Rivier No 156: C01900000000015600000 3. Portion 1 of the Farm Oliviers Berg No 159: C01900000000015900001 4. Remainder of the Farm Oliviers Berg No 159: C01900000000015900000 5. Klipbanks Fontein No 395: C01900000000039500000 6. Remainder of the Farm Muishond Rivier No 159: C01900000000016100000  <b>Northern Cape</b>	<b>Western Cape</b> 1. <u>Portion 1 of the Farm Gats Rivier No 156: C019000000000156000 001</u> 2. <u>Portion 2 of the Farm Gats Rivier No 156: C019000000000156000 002</u> 3. <u>Remainder of the Farm Gats Rivier No 156: C019000000000156000 000</u> 4. <u>Portion 1 of the Farm Riet Fontein No 157: C019000000000157000 001</u> 5. <u>Portion 2 of the Farm Riet Fontein No 157: C019000000000157000 002</u>	<b><u>No Change</u></b>



	<p>6. Remainder of 158 Amandelboom Farm: C019000000001580000</p> <p>7. Portion 1 of 159 Oliviers Berg Farm: C019000000001590001</p> <p>8. Remainder of 159 Oliviers Berg Farm: C019000000001590000</p> <p>9. Portion 2 of 157 Riet Fontein Farm: C019000000001570002</p> <p>10. Remainder of 161 Muishond Rivier Farm: C019000000001610000</p> <p>11. Remainder of 395 Klipbanks Fontein Farm: C019000000001950000</p> <p><b>Northern Cape</b></p> <p>12. Portion 4 of 193 Urias Gat Farm: C072000000001930004</p> <p>13. Portion 6 of 193 Urias Gat Farm: C072000000001930006</p> <p>14. Remainder of 193 Urias Gat Farm: C072000000001930000</p> <p>15. Remainder of 194 Matjes Fontein Farm: C072000000001940000</p>	<p>6. Portion 1 of the Farm Amandelboom No 158: C019000000001580001</p> <p>7. Remainder of the Farm Amandelboom No 158: C019000000001580000</p> <p>8. Portion 1 of the Farm Oliviers Berg No 159: C019000000001590001</p> <p>9. Remainder of the Farm Oliviers Berg No 159: C019000000001590000</p> <p><b>Northern Cape</b></p> <p>10. Portion 4 of the Farm Urias Gat No 193: C072000000001930004</p> <p>11. Portion 6 of the Farm Urias Gat No 193: C072000000001930006</p> <p>12. Remainder of the Farm Urias Gat No 193: C072000000001930000</p> <p>13. Remainder of the Farm Matjes Fontein No 194: C072000000001940000</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C072000000001930005</p> <p><b>Properties affected by access road:</b></p>	<p>7. Remainder of the Farm Karee Kloof No 196: C072000000001960000</p> <p>8. Remainder of the Farm Matjes Fontein No 194: C072000000001940000</p> <p><b>Properties affected by public road:</b></p> <p>9. Zeekoegat Farm No 169: C072000000001690000</p> <p>10. Portion 1 of the Farm Roodeheuvel No 170: C072000000001700001</p> <p>11. Remainder of the Farm Roodeheuvel No 170: C072000000001700000</p> <p>12. Remainder of the Farm Wind Heuvel No 190: C072000000001900000</p> <p>13. Portion 1 of the Farm Wind Heuvel No 190: C072000000001900001</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C072000000001930005</p> <p>15. Remainder of the Farm Vinke Kuil No 171: C072000000001710000</p> <p>16. The Farm Alkant No 220: C072000000002200000</p> <p>17. Portion 1 of the Farm Lange Huis No 174: C072000000001740001</p>	<p>6. <u>Portion 1 of the Farm Amandelboom No 158: C019000000001580001</u></p> <p>7. <u>Remainder of the Farm Amandelboom No 158: C019000000001580000</u></p> <p>8. <u>Portion 1 of the Farm Oliviers Berg No 159: C019000000001590001</u></p> <p>9. <u>Remainder of the Farm Oliviers Berg No 159: C019000000001590000</u></p> <p><b>Northern Cape</b></p> <p>10. <u>Portion 4 of the Farm Urias Gat No 193: C072000000001930004</u></p> <p>11. <u>Portion 6 of the Farm Urias Gat No 193: C072000000001930006</u></p> <p>12. <u>Remainder of the Farm Urias Gat No 193: C072000000001930000</u></p> <p>13. <u>Remainder of the Farm Matjes Fontein No 194: C072000000001940000</u></p> <p>14. <u>Portion 5 of the Farm Urias Gat No 193: C072000000001930005</u></p>	
--	---	---	---	--	--

	<p>16. Remainder of 196 Karree Kloof Farm: C072000000001960000</p> <p><b>Properties affected by public road:</b></p> <p>17. 169 Zeekoegat Farm: C072000000001690000</p> <p>18. Portion 1 of 170 Roodeheuveld Farm: C0720000000017000001</p> <p>19. Remainder of 170 Roodeheuveld Farm: C0720000000017000000</p> <p>20. Remainder of 190 Wind Heuveld Farm: C0720000000019000000</p> <p>21. Portion 1 of 190 Wind Heuveld Farm: C0720000000019000001</p> <p>22. Portion 5 of 193 Urias Gat Farm: C0720000000019300005</p> <p>23. Remainder of 171 Vinke Kuil Farm: C0720000000017100000</p> <p>24. Alkant Re/220 Farm: C0720000000022000000</p> <p>25. Portion 1 of 174 Lange Huis Farm: C0720000000017400001</p>	<p>15. Zeekoegat Farm No 169: C0720000000016900000</p> <p>16. Portion 1 of the Farm Roodeheuveld No 170: C0720000000017000001</p> <p>17. Remainder of the Farm Roodeheuveld No 170: C0720000000017000000</p> <p>18. Remainder of the Farm Wind Heuveld No 190: C0720000000019000000</p> <p>19. Portion 1 of the Farm Wind Heuveld No 190: C0720000000019000001</p> <p>20. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p>21. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p> <p>22. Alkant Farm No 220: C0720000000022000000</p> <p>23. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p>		<p><b>Properties affected by access road:</b></p> <p>15. <u>Zeekoegat Farm No 169: C0720000000016900000</u></p> <p>16. <u>Portion 1 of the Farm Roodeheuveld No 170: C0720000000017000001</u></p> <p>17. <u>Remainder of the Farm Roodeheuveld No 170: C0720000000017000000</u></p> <p>18. <u>Remainder of the Farm Wind Heuveld No 190: C0720000000019000000</u></p> <p>19. <u>Portion 1 of the Farm Wind Heuveld No 190: C0720000000019000001</u></p> <p>20. <u>Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</u></p> <p>21. <u>Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</u></p> <p>22. <u>Alkant Farm No 220: C0720000000022000000</u></p> <p>23. <u>Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</u></p> <p>24. <u>Remainder of the Farm Baakens Rivier No. 155: C019000000001550000</u></p>	
--	--	--	--	---	--

Co-ordinates	Centre: 32°50' 56.0868"S 20°19' 25.0608"E	APPLICATION SITE: <u>Coordinates at Corner Points (DD MM SS.sss)</u>	APPLICATION SITE: <u>Coordinates at Corner Points (DD MM SS.sss)</u>	APPLICATION SITE: <u>Coordinates at Corner Points (DD MM SS.sss)</u>	
	North: 32°40' 29.8812"S 20°24' 57.78"E	1. S32° 46' 11.757" E20° 21' 39.554"	1. S32° 48' 14.853" E20° 23' 15.057"	1. <u>S32° 46' 11.757"</u> <u>E20° 21' 39.554"</u>	
	East: 32°43' 53.8212"S 20°29' 32.28"E	2. S32° 45' 55.571" E20° 23' 32.919"	2. S32° 48' 7.939" E20° 25' 19.086"	2. <u>S32° 45' 55.571"</u> <u>E20° 23' 32.919"</u>	
	South-East: 32°54' 6.66"S 20°23' 3.7788"E	3. S32° 47' 3.530" E20° 23' 8.115"	3. S32° 49' 44.075" E20° 24' 59.144"	3. <u>S32° 47' 3.530"</u> <u>E20° 23' 8.115"</u>	
	South-West: 32°55' 32.0412"S 20°16' 24.8988"E	4. S32° 48' 14.853" E20° 23' 15.057"	4. S32° 50' 41.159" E20° 24' 13.445"	4. <u>S32° 48' 14.853"</u> <u>E20° 23' 15.057"</u>	
	West: 32°52' 12.7812"S 20°14' 20.6988"E	5. S32° 48' 7.939" E20° 25' 19.086"	5. S32° 50' 46.823" E20° 24' 24.286"	5. <u>S32° 48' 7.939"</u> <u>E20° 25' 19.086"</u>	
		6. S32° 49' 44.075" E20° 24' 59.144"	6. S32° 54' 9.411" E20° 24' 22.544"	6. <u>S32° 49' 44.075"</u> <u>E20° 24' 59.144"</u>	
		7. S32° 50' 41.159" E20° 24' 13.445"	7. S32° 54' 48.192" E20° 23' 53.935"	7. <u>S32° 50' 41.159"</u> <u>E20° 24' 13.445"</u>	
		8. S32° 53' 6.441" E20° 21' 52.752"	8. S32° 56' 23.562" E20° 26' 18.389"	8. <u>S32° 53' 6.441"</u> <u>E20° 21' 52.752"</u>	
		9. S32° 53' 8.532" E20° 21' 53.539"	9. S32° 57' 26.788" E20° 24' 38.101"	9. <u>S32° 53' 8.532"</u> <u>E20° 21' 53.539"</u>	
		10. S32° 54' 36.732" E20° 21' 50.816"	10. S32° 56' 35.721" E20° 22' 48.877"	10. <u>S32° 54' 36.732"</u> <u>E20° 21' 50.816"</u>	
		11. S32° 55' 2.170" E20° 18' 58.064"	11. S32° 56' 42.813" E20° 21' 46.490"	11. <u>S32° 55' 2.170"</u> <u>E20° 18' 58.064"</u>	
		12. S32° 54' 57.184" E20° 17' 28.053"	12. S32° 57' 27.491" E20° 19' 50.038"	12. <u>S32° 54' 57.184"</u> <u>E20° 17' 28.053"</u>	
		13. S32° 55' 48.840" E20° 14' 21.666"	13. S32° 59' 45.215" E20° 19' 58.513"	13. <u>S32° 55' 48.840"</u> <u>E20° 14' 21.666"</u>	
		14. S32° 55' 7.517" E20° 13' 55.356"	14. S32° 59' 5.070" E20° 17' 15.888"	14. <u>S32° 55' 7.517"</u> <u>E20° 13' 55.356"</u>	
		15. S32° 54' 28.981" E20° 13' 34.753"	15. S32° 59' 11.874" E20° 16' 34.719"	15. <u>S32° 54' 28.981"</u> <u>E20° 13' 34.753"</u>	
		16. S32° 52' 11.464" E20° 12' 21.280"	16. S32° 57' 11.539" E20° 15' 29.007"	16. <u>S32° 54' 34.507"</u> <u>E20° 12' 20.205"</u>	
		17. S32° 52' 9.896" E20° 14' 16.133"	17. S32° 55' 48.840" E20° 14' 21.666"	17. <u>S32° 55' 13.194"</u> <u>E20° 12' 15.385"</u>	
		18. S32° 51' 10.304" E20° 13' 32.215"	18. S32° 55' 23.944" E20° 15' 52.693"	18. <u>S32° 56' 3.895"</u> <u>E20° 12' 26.330"</u>	
		19. S32° 51' 0.223" E20° 12' 19.238"	19. S32° 52' 9.370" E20° 14' 54.031"	19. <u>S32° 56' 12.929"</u> <u>E20° 11' 16.988"</u>	
		20. S32° 50' 51.343"	20. S32° 52' 4.579"	20. <u>S32° 55' 38.363"</u>	<u>No Change</u>

		<p>E20° 12' 14.058" 21. S32° 50' 33.384" E20° 12' 39.312" 22. S32° 50' 21.482" E20° 12' 33.983" 23. S32° 49' 38.848" E20° 13' 6.405" 24. S32° 50' 5.733" E20° 15' 50.817" 25. S32° 47' 57.718" E20° 15' 25.332" 26. S32° 48' 16.924" E20° 17' 59.136" 27. S32° 50' 12.452" E20° 19' 31.355" 28. S32° 47' 54.581" E20° 20' 57.293" 29. S32° 48' 1.255" E20° 21' 9.303" 30. S32° 47' 54.387" E20° 21' 10.181" 31. S32° 47' 24.673" E20° 21' 0.698" 32. S32° 47' 17.149" E20° 21' 13.982" 33. S32° 46' 59.938" E20° 21' 22.475" 34. S32° 46' 56.504" E20° 21' 29.064"</p> <p><b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b> 35. S32° 51' 21.895" E20° 18' 41.467"</p> <p><b><u>CONSTRUCTION CAMP: Coordinates at Centre Point (DD MM SS.sss)</u></b> CENTRE: S32° 47' 36.876"  E20° 21' 23.588"</p>	<p>E20° 15' 50.647" 21. S32° 51' 44.360" E20° 16' 19.552" 22. S32° 51' 27.665" E20° 17' 16.598" 23. S32° 51' 31.913" E20° 20' 32.550" 24. S32° 50' 41.238" E20° 19' 54.404" 25. S32° 49' 35.741" E20° 21' 44.517"</p> <p><b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b> 26. S32° 54' 10.102" 27. E20° 20' 14.737"</p> <p><b><u>CONSTRUCTION CAMP: Coordinates at Centre Point (DD MM SS.sss)</u></b> CENTRE: S32° 51' 46.797"  E20° 21' 16.710"</p> <p><b><u>Coordinates at Corner Points:</u></b> <b>CC1_01:</b> S32° 51' 41.254" E20° 21' 2.209" <b>CC1_02:</b> S32° 51' 40.895" E20° 21' 11.315" <b>CC1_03:</b> S32° 51' 46.466" E20° 21' 19.638" <b>CC1_04:</b> S32° 51' 45.812" E20° 21' 26.156" <b>CC1_05:</b> S32° 51' 47.063" E20° 21' 32.475" <b>CC1_06:</b> S32° 51' 50.861" E20° 21' 30.264" <b>CC1_07:</b> S32° 51' 51.339" E20° 21' 26.005" <b>CC1_08:</b> S32° 51' 53.100" E20° 21' 24.630" <b>CC1_09:</b> S32° 51' 43.651"</p>	<p>E20° 9' 20.611" 21. S32° 54' 56.533" E20° 9' 15.790" 22. S32° 54' 45.536" E20° 8' 55.471" 23. S32° 54' 18.000" E20° 9' 11.192" 24. S32° 54' 13.557" E20° 9' 23.325" 25. S32° 53' 59.701" E20° 9' 41.082" 26. S32° 53' 54.356" E20° 9' 40.992" 27. S32° 52' 11.464" E20° 12' 21.280" 28. S32° 52' 9.896" E20° 14' 16.133" 29. S32° 51' 10.304" E20° 13' 32.215" 30. S32° 51' 0.223" E20° 12' 19.238" 31. S32° 50' 51.343" E20° 12' 14.058" 32. S32° 50' 33.384" E20° 12' 39.312" 33. S32° 50' 21.482" E20° 12' 33.983" 34. S32° 49' 38.848" E20° 13' 6.405" 35. S32° 50' 5.733" E20° 15' 50.817" 36. S32° 47' 57.718" E20° 15' 25.332" 37. S32° 48' 16.924" E20° 17' 59.136" 38. S32° 50' 12.452" E20° 19' 31.355" 39. S32° 47' 54.581" E20° 20' 57.293" 40. S32° 48' 1.255" E20° 21' 9.303" 41. S32° 47' 54.387"</p>	
--	--	--	---	---	--

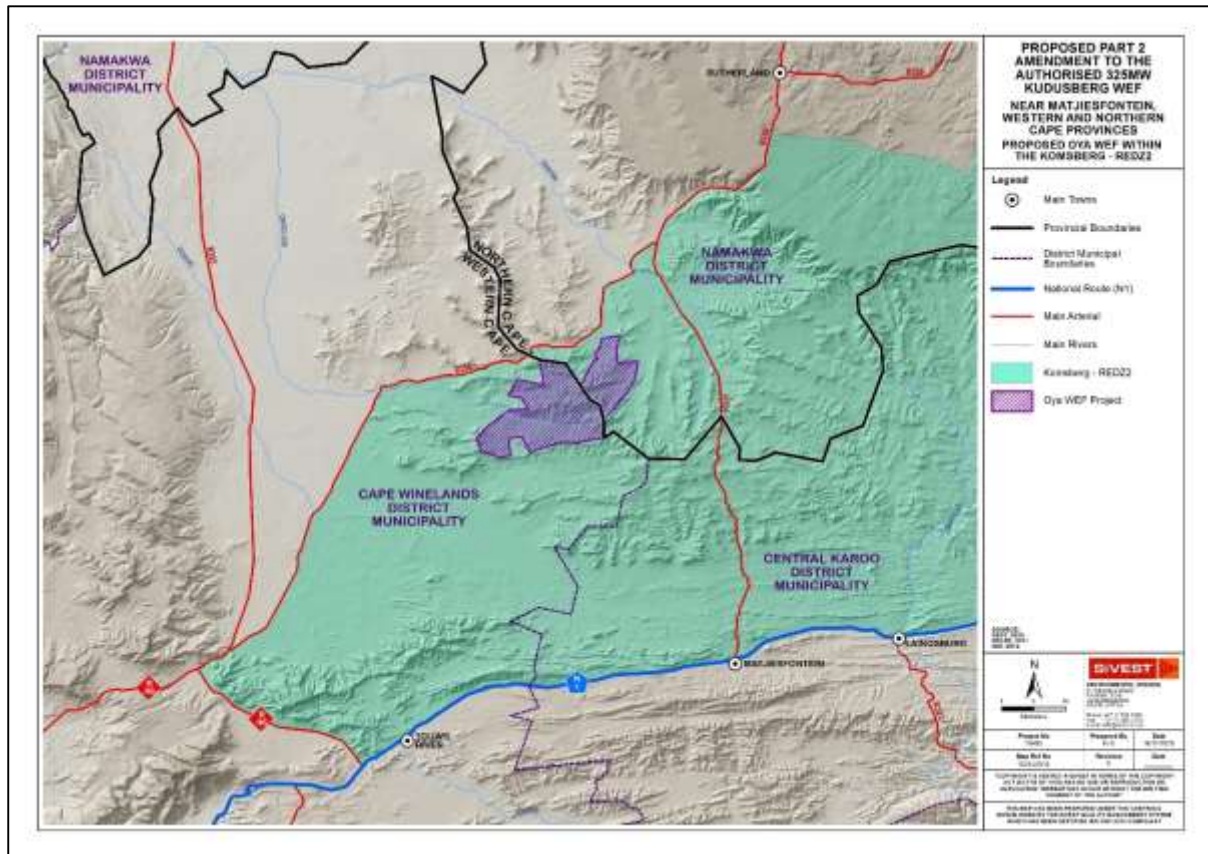
		<p><b><u>Coordinates at Corner Points:</u></b>  <b>CC1_01:</b> S32° 47' 28.108"  E20° 21' 19.647"  <b>CC1_02:</b> S32° 47' 28.329"  E20° 21' 28.144"  <b>CC1_03:</b> S32° 47' 45.815"  E20° 21' 27.943"  <b>CC1_04:</b> S32° 47' 45.598"  E20° 21' 19.332"  <b>CC1_05:</b> S32° 47' 43.103"  E20° 21' 20.053"  <b>CC1_06:</b> S32° 47' 40.376"  E20° 21' 20.085"  <b>CC1_07:</b> S32° 47' 38.132"  E20° 21' 19.168"  <b>CC1_08:</b> S32° 47' 35.632"  E20° 21' 19.015"  <b>CC1_09:</b> S32° 47' 34.407"  E20° 21' 18.760"</p> <p><b>SUBSTATION:</b>  <b><u>Coordinates at Centre Point (DD MM SS.sss):</u></b>  <b>CENTRE:</b> S32° 54' 24.333"  E20° 12' 28.366"</p> <p><b><u>Coordinates at Corner Points (DD MM SS.sss):</u></b>  <b>SS1_01:</b> S32° 54' 19.886"  E20° 12' 26.843"  <b>SS1_02:</b> S32° 54' 23.125"  E20° 12' 33.613"  <b>SS1_03:</b> S32° 54' 28.772"  E20° 12' 29.816"  <b>SS1_04:</b> S32° 54' 25.569"  E20° 12' 23.122"</p>	<p>E20° 21' 0.749"</p> <p><b>SUBSTATION:</b>  <b><u>Coordinates at Corner Points (DD MM SS.sss):</u></b>  <b>SS1_01:</b> S32° 52' 4.061"  E20° 21' 48.372"  <b>SS1_02:</b> S32° 52' 10.456"  E20° 21' 53.934"  <b>SS1_03:</b> S32° 52' 15.215"  E20° 21' 45.714"  <b>SS1_04:</b> S32° 52' 9.014"  E20° 21' 40.229"</p> <p><b><u>Coordinates at Centre Point (DD MM SS.sss):</u></b>  <b>CENTRE:</b> S32° 52' 9.655"  E20° 21' 47.079"</p>	<p>E20° 21' 10.181"  42. <u>S32° 47' 24.673"</u>  <u>E20° 21' 0.698"</u>  43. <u>S32° 47' 17.149"</u>  <u>E20° 21' 13.982"</u>  44. <u>S32° 46' 59.938"</u>  <u>E20° 21' 22.475"</u>  45. <u>S32° 46' 56.504"</u>  <u>E20° 21' 29.064"</u></p> <p><b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b>  26. <u>S32° 51' 45.765"</u>  <u>E20° 17' 43.464"</u></p> <p><b><u>CONSTRUCTION CAMP: Coordinates at Centre Point (DD MM SS.sss)</u></b>  <b>CENTRE:</b>  <u>S32° 47' 36.876"</u>  <u>E20° 21' 23.588"</u></p> <p><b><u>Coordinates at Corner Points:</u></b>  <u>CC1_01:</u> S32° 47' 28.108"  <u>E20° 21' 19.647"</u>  <u>CC1_02:</u> S32° 47' 28.329"  <u>E20° 21' 28.144"</u>  <u>CC1_03:</u> S32° 47' 45.815"  <u>E20° 21' 27.943"</u>  <u>CC1_04:</u> S32° 47' 45.598"  <u>E20° 21' 19.332"</u>  <u>CC1_05:</u> S32° 47' 43.103"  <u>E20° 21' 20.053"</u>  <u>CC1_06:</u> S32° 47' 40.376"  <u>E20° 21' 20.085"</u>  <u>CC1_07:</u> S32° 47' 38.132"  <u>E20° 21' 19.168"</u>  <u>CC1_08:</u> S32° 47' 35.632"  <u>E20° 21' 19.015"</u>  <u>CC1_09:</u> S32° 47' 34.407"  <u>E20° 21' 18.760"</u></p>	
--	--	---	---	--	--

				<b>SUBSTATION:</b> <b>Coordinates at Centre Point (DD MM SS.sss):</b> <b>CENTRE:</b> S32° 54' 24.333" E20° 12' 28.366" <b>Coordinates at Corner Points (DD MM SS.sss):</b> <b>SS1 01:</b> S32° 54' 19.886" E20° 12' 26.843" <b>SS1 02:</b> S32° 54' 23.125" E20° 12' 33.613" <b>SS1 03:</b> S32° 54' 28.772" E20° 12' 29.816" <b>SS1 04:</b> S32° 54' 25.569" E20° 12' 23.122"	
Technical Aspects					
Aspect to be amended	Authorised	Proposed Amendment - <u>Draft EA Amendment Assessment Report Submitted 18 November 2020</u>		Proposed Amendment – Revised Draft EA Amendment Assessment Report re-submitted 25 January 2021	
		Oya WEF	Kudusberg WEF	Oya WEF	Kudusberg WEF
Overall Capacity	325 MW	86 MW	239 MW	99 MW	226MW
Number of turbines	56	20	36	18	38
<u>Turbine numbers falling within WEF<sup>5</sup></u>	<u>Turbine numbers 1 - 56</u>	<u>Turbine numbers 1 - 20</u>	<u>Turbine numbers 1 - 36</u>	<u>Turbine numbers 1 - 18</u>	<u>Turbine numbers 1 - 38</u>
Hub height	Up to 140 m	92 m above the foundation	No Change i.e. up to 140 m	<u>Up to 101 m above the foundation</u>	<b>No Change</b> i.e. up to 140 m
Rotor diameter	Up to 180 m	150 m	No Change i.e. up to 180 m	<u>Up to 158 m</u>	<b>No Change</b> i.e. up to 180 m
Blade length	Up to 90 m	75 m	No Change i.e. up to 90 m	<u>Up to 79 m</u>	<b>No Change</b> i.e. up to 90 m

<sup>5</sup> Information requested by the DEFF as part of comments on Draft EA Assessment Report: “It has been noted that the Draft motivation report does not specify the exact wind energy turbines that will fall within the Oya WEF and which turbines will fall within the Kudusberg WEF. Please ensure that this information is included in the final motivation report.” Refer to **Appendix B** for a copy of the DEFF’s comment letter.

<b>Wind Measuring Lattice Masts</b>	Up to 4 x 140 m high depending the final hub height	2 x met masts (same as hub height)	2 x up to 140 m high depending the final hub height	<u>2 x height of the hub height</u>	<b>No Change</b> i.e. <u>2 x up to 140 m high depending the final hub height.</u>
<b>Layout</b>	-	Layout submitted for final approval. The layout to be approved are contained in <b>Appendix J4</b> . Associated turbine GPS locations will be provided in the Final EA Amendment Report.	Final layout to be submitted prior to the start of construction	<b>No Change</b> i.e. <u>Layout submitted for final approval. The layout to be approved are contained in <b>Appendix J4</b>. Associated turbine GPS locations will be provided in the Final EA Amendment Report</u>	<b>No Change</b> i.e. <u>Final layout to be submitted prior to the start of construction</u>
<b>EMPr</b>	The EMPr submitted as part of the Application for EA is hereby approved.	Approve Final EMPr	To be submitted based on final approval of layout.	<b>No Change</b> i.e. <u>Approve Final EMPr</u>	<b>No Change</b> i.e. <u>To be submitted based on final approval of layout.</u>

The authorised Kudusberg WEF is situated approximately 45km south-west of the town of Sutherland in the Northern and Western Cape Provinces. In addition, the WEF is located in the Witzenberg and Karoo Hoogland Local Municipalities, which fall within the Cape Winelands and Namakwa District Municipalities respectively. It should also be noted that the authorised Kudusberg WEF falls entirely within the Renewable Energy Zone (REDZ) 2 (i.e. Komsberg REDZ), which was Gazetted in February 2018 by the Minister of Environmental Affairs (GN 114), and therefore the proposed Oya WEF will also fall entirely within the above-mentioned REDZ (**Figure iv**).



**Figure iv:** Location of proposed Oya WEF in relation to REDZ

The proposed amendments in themselves are not listed activities according to Government Notice (GN) R326, R327, R325 and R324 of the Environmental Impact Assessment (EIA) Regulations (as amended on 07 April 2017 and 13 July 2018), and do not trigger any new listed activity. In addition, the proposed amendments to the Kudusberg WEF are within the original authorised development footprint, while the proposed amendments also do not change the scope of the EA<sup>6</sup>.

The following amendment is being submitted in terms of Condition 5 of the EA and Chapter 5 of the EIA Regulations of December 2014 (as amended on 07 April 2017 and 13 July 2018), it is possible for an applicant to apply, in writing, to the competent authority for a change or deviation from the project description to be approved. The amendment of the EMP is being undertaken in accordance with Condition 17 of the EA.

<sup>6</sup> Section of existing road which was not presented in previous layout for Oya WEF not within original authorised development footprint, due to inclusion of additional property (i.e. Remainder of the Farm Baakens River No. 155). Section of existing road however falls within area assessed by specialists as part of Part 2 EA Amendment process. Proposed amendment also does not change scope of EA as relevant listed activities related to widening of roads authorised as part of original EA for Kudusberg WEF (refer to **Table 7 in section 2.3**).



Accordingly, Kudusberg Wind Farm has appointed SiVEST SA (Pty) Ltd to act as the independent Environmental Assessment Practitioner (EAP) to undertake the Part 2 EA Amendment process as required in terms of Regulation 32 of GN R. 326 of the EIA Regulations, 2014 (as amended on 07 April 2017 and 13 July 2018), as well as Regulation 37 of GN R. 326 pertaining to amendments of EMPs. This EA Amendment Motivation Report has thus been compiled in accordance with the provisions of Regulation 32 (1) and 37 of the EIA Regulations 2014 (as amended).

As part of the original Basic Assessment (BA) process<sup>7</sup> for the proposed Kudusberg WEF undertaken in 2018/2019, the following specialist studies were undertaken:

- Agricultural Assessment;
- Avifaunal Assessment;
- Bat Assessment;
- Biodiversity (including fauna and flora) Assessment;
- Heritage Assessment;
- Noise Impact Assessment;
- Socio-Economic Impact Assessment;
- Surface Water / Aquatic Impact Assessment;
- Transportation Assessment, and
- Visual Impact Assessment.

The above-mentioned specialist studies were commissioned to assess the impacts associated with the proposed amendments.

In addition, the following specialist have undertaken detailed walk-throughs and micro-siting of the Oya WEF in accordance with the recommendations contained in the approved EMP and in accordance with condition 29 of the EA<sup>1</sup>:

- Avifauna;
- Bats;
- Surface Water / Aquatic
- Ecology; and
- Heritage (including Archaeology, Palaeontology and Cultural Landscapes).

The above-mentioned walk-throughs were undertaken to identify any additional sensitive / “no-go” areas based on the final layout and/or any other special features which need to be avoided. Furthermore, the necessary specialists were commissioned to compile the requisite management plans detailed in the EMP<sup>8</sup>.

Based on the assessment of the proposed amendments undertaken by the respective specialists, no new environmental risks or impacts were identified and it was concluded that the impacts identified and mitigation measures and/or recommendations proposed as part of the BA process for the original Kudusberg WEF in 2018 would remain unchanged. The 2020 Freshwater Assessment (du Preez,

---

<sup>7</sup> BA process undertaken for original Kudusberg WEF (DEFF Ref: [14/12/16/3/3/1/1976/AM1](#)) as proposed WEF falls entirely within REDZ 2 (namely the Komsberg REDZ), which was formally gazetted on 16 February 2018 by Minister of Environmental Affairs (GN 114)

<sup>8</sup> Includes Alien and Invasive Plant Species Management Plan; Plant Rescue Management Plan; Vegetation Rehabilitation Plan; Heritage Management Plan; Watercourse Rehabilitation & Maintenance Management Plan; Hydrological Assessment (including Storm Water Management & Erosion Control Plan); Traffic and Transport Management Plan; Post-Construction Avifaunal Monitoring Plan; Fire Management Plan and Waste Management Plan

2020<sup>4</sup>) which replaces the original Surface Water Impact Assessment (BlueScience, 2018) also concluded that impacts can be mitigated to acceptably low levels after the implementation of the recommended mitigation measures.

With regards to the specialist walk-throughs which were undertaken, no fatal flaws or additional environmental sensitivities were identified and all specialists found the proposed layout for the Oya WEF to be acceptable. Additionally, all specialists recommended that the layout should be approved. Very few new (previously unknown) heritage resources were identified during the Heritage walk-through, however, it was confirmed by the specialist that they do not fall within the development footprint and will not be directly impacted. It should be noted that the Ecologist recommended (not critical) shifting Turbine 1 a minimum of 90m eastwards and locating the crane pad to the east of the new position if a possible Vulnerable plant species (tentatively identified as *Octopoma quadrisepalum*) is identified within 40m of Turbine 1. If this is not technically feasible due to the terrain an application can be submitted for a permit to relocate the plant or destroy it. No additional layout changes were however recommended from a Terrestrial Ecology perspective.

From a Surface Water perspective, it was found that the proposed Oya WEF overhead collector power line will traverse several watercourses, however, the pylons will be constructed outside the 32m NEMA zone of regulation. It was however determined that should the above infrastructure components be moved to be located at least 32m from a watercourse and the watercourse road crossings only be constructed during the driest period of the year, the impacts significance for the construction and operation for these components can be considered low with mitigation. In addition, no fatal flaws in terms of freshwater ecological aspects were identified. In terms of the walk-down, recommended amendments to the Oya WEF layout were made, in order to limit the infrastructure components within the watercourses and the 32m NEMA and 100m GN 509 zones of regulation. These amendments are however **not considered critical** for the protection of watercourses (as the risk assessment determined a Low Risk significance for linear infrastructure within the watercourses), but are suggested as best practice and to further reduce impacts on the receiving natural environment as a whole. The proposed Oya WEF layout respects the required buffers and is however considered acceptable from a freshwater ecological perspective, provided the recommended mitigation measure be applied, and should be granted EA. Various management plans<sup>8</sup> have also been compiled by some of the specialists for incorporation into the EMP<sub>r</sub> and subsequent implementation.

As previously mentioned, the Applicant made minor project changes after the submission of the Draft EA Amendment Assessment Report. The proposed project changes were disseminated to all specialists for review, and each specialist was asked to amend their respective reports and/or comment letters in order to reflect these changes, or to compile a letter addressing these changes. In addition, they were also asked to provide confirmation (in the form of email confirmation) regarding the acceptability of the inclusion of the section of the existing road mentioned above (i.e. whether it would have any bearing on their findings). All specialists subsequently found that the proposed changes have no material impact on their findings. Furthermore, all specialists confirmed that the inclusion of the section of the existing road to the layout proposed for the Oya WEF was acceptable and would have no material impact on their findings. This is due to the fact that the road is already present and being used, thus the disturbance / impact is already existing. The road is also not proposed to undergo any changes.

It should be noted that a separate risk assessment was undertaken for assessing the additional section of the existing road's risk significance on watercourses, since this road is an existing road and entails existing large watercourse crossings via culvert and bridge crossings. The results of this risk assessment have subsequently been included in the Freshwater Assessment Report (Appendix C8<sup>4</sup>). The results of the Freshwater Assessment remain unchanged and the inclusion this road would not

change the findings of the Freshwater Assessment (i.e. the impact of the proposed development, including the impact of roads and road upgrades, can be reduced to an acceptably low level after the implementation of the recommendations and/or mitigation measures). It was however recommended that the outcome of the risk assessment be revised when detailed designs for watercourse road crossings become available as the outcome of the Department of Water and Sanitation (DWS) Risk assessment may change pending the outcome of the watercourse road crossing designs (section 4). The inclusion of the section of the existing road to the layout for the proposed Oya WEF will therefore not result in any fatal flaws and is deemed acceptable.

In conclusion, none of the specialists identified any fatal flaws and all specialists (including the Ecologist and Surface Water Specialist) subsequently recommended that the layout should be approved.

The advantages and disadvantages of the proposed amendment were explored to provide an indication of the potential benefits and drawbacks. Based on the feedback received from the specialists, it is evident that the advantages outweigh the disadvantages, mainly due to the fact that the amended layout is more beneficial as wind turbines have been removed and re-positioned outside of very high sensitivity areas and are located in optimal positions. Additionally, most specialist found that the layout did not differ too significantly from the original findings as the total number of turbines has remained unchanged. It should also be noted that none of the specialists found that the proposed amendments and subsequent addition of the proposed Oya WEF (northern section of authorised WEF) would change the original cumulative impact ratings or result in fatal flaws from a cumulative impact perspective. This is mainly due to the fact that the overall number of turbines will still remain the same and the two (2) proposed WEFs will be clustered in a REDZ (namely REDZ – Komsberg REDZ), in line with the REDZ intention. It should also be noted that, as mentioned above, all specialists found that the changes to the proposed projects have no material impact on their findings and confirmed that the inclusion of the section of the existing road to the layout for the proposed Oya WEF was acceptable. A separate risk assessment was also undertaken for assessing the above-mentioned road's risk significance on watercourses and found that the inclusion of this road would not change the findings of the Freshwater Assessment (Appendix C8). It was therefore confirmed that the project changes (and ultimately the proposed amendments in total) would not result in any fatal flaws and that the final layouts being proposed for authorisation are acceptable and should be authorised.

Considering the information above, the proposed amendments would not result in any fatal flaws, are acceptable from an overall environmental perspective and should therefore be authorised. This includes the subsequent project changes made following the submission of the Draft EA Amendment Assessment Report, as detailed in Table i above.

An application to amend the EA and Draft EA Amendment Assessment Report was submitted to the DEFF on 18 November 2020. All affected landowners, as well as the relevant provincial authority, were notified about the EA Amendment Application which was submitted (Appendix E7). The DEFF subsequently acknowledged having received the application and draft report on the same day (namely 18 November 2020) and assigned the following reference number for the amendment process: **14/12/16/3/3/1/1976/AM2**. The Draft EA Amendment Assessment Report was subsequently circulated for public participation for a period of 30 days (excluding public holidays and the DEFF's December closure period) **from 18 November 2020 until 11 January 2021**. Written notice via email and SMS was given to all I&APs, key stakeholders and OoS / Authorities registered on the database that the Draft EA Amendment Assessment Report (this report) was available for comment and review (Appendix E2). Electronic copies (CDs / Flash Disk) of the report were also be distributed on written request, otherwise a link to the report was shared with all OoS and I&APs (Appendix E5). All I&APs, key stakeholders and OoS / Authorities were also reminded about the closure of the 30-day review and comment period as well as reminded to provide comments (if required) (Appendix E2).

In light of the countrywide restriction enforced in terms of Government Gazette 43096<sup>9</sup>, which has resulted in the entire country being placed in a national state of disaster, which limits the movement and gathering of people in an effort to curb the spread CoVID-19, the public participation process has been amended and adjusted in light of these restrictions. In response, SiVEST has formulated a unique Public Participation process which is as closely related to the requirements of Regulations 39 to 44 of the EIA Regulations, 2014, as amended, (GNR 326) as possible (**Appendix E9**).

As a result, SiVEST have implemented a virtual and electronic public participation process, in which electronic Tablets will be located at public venues (namely the Sutherland Police Station, Witzenberg Local Municipality office and Liangsburg Local Library) in conjunction with a 'data free' website which has been set up in a way where the Draft Reports can be either viewed and/or downloaded free of charge. Furthermore, electronic copies of the Draft Reports (Draft EA Amendment Assessment Report and Revised Draft EA Amendment Assessment Report) have also been made available on a website (<http://ppp.g7energies.com/K7khasco90m>), whereby all registered I&APs can download the documents (see **section 7.3**). This will ensure that all project related information associated with the amendment process is readily available and accessible to any person with interest in the project, enabling the public participation process to be undertaken in line with Regulations 41 to 44 of the EIA Regulations, 2014, as amended. It should be noted that a Public Participation Plan (**Appendix E9**) was compiled by the EAP and was submitted to the DEFF for review and approval on 03 November 2020. This Public Participation Plan was subsequently approved on 16 November 2020 (**Appendix 4** and **Appendix E9**).

It should be noted that due to the project changes made by the Applicant after the submission of the Draft EA Amendment Assessment Report, written notification in terms of Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended), that the final report will be submitted within 140 days of receipt of the application by the competent authority, was subsequently submitted to the DEFF. This was submitted on 20 January 2021 (**Appendix B**). This is due to the fact that there have been changes and new information that has been added to the motivation report or EMPr which were not contained in the Draft EA Amendment Assessment Report consulted on during the initial public participation process (18 November 2020 to 11 January 2021). The DEFF provided a response on 25 January 2021 and subsequently granted the EAP permission so submit the final report within 140 days of receipt of the application (**Appendix B**). In light of this, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period, from 25 January 2021 to 24 February 2021.

The inputs received from authorities and I&APs following the 30-day review and comment period of the Draft EA Amendment Assessment Report have been recorded and addressed in the Revised Draft EA Amendment Assessment Report (this report). After evaluating the Draft EA Amendment Assessment Report, the DEFF issued a letter, dated 11 January 2021 (**Appendix B**), containing comments on the report which were taken into consideration in the compilation of the Revised Draft EA Amendment

---

<sup>9</sup> General Notice issued by the DEFF on 24 March 2020, as well as Government Notice No. 650 issued by the DEFF on 05 June 2020, were being adhered to during Level 3 of the national lockdown period. However, during a meeting held with SAWEA on 25 August 2020, the DEFF indicated that the Directive issued by the Department on 05 June 2020 (Government Gazette 43412) related to level 3 lockdown, has been repealed, based on the current lockdown level. Therefore, as it stands, there is no indication that a new directive will be issued, and the "normal" EIA Regulations are currently in force. DEFF however highlighted that Applicants must continue to adhere to the applicable provisions of the Disaster Management Act and associated Regulations (e.g. restrictions on gatherings for public meetings) and hence some elements included in the lockdown directive (05 June 2020 - Government Gazette 43412), mainly as it pertains to PPP, are still relevant and that this directive can be used as a consultation guide for all new applications. Applicant will thus continue to adhere to applicable provisions of Disaster Management Act and associated Regulations

Assessment Report (this report), which was submitted to the DEFF and is being released to all registered I&APs for a 30-day comment period on 25 January 2021. All comments received to date have been responded to in the Comments and Response Report (C&RR) which is included as **Appendix E6**.

The Revised Draft EA Amendment Assessment Report (this report) was sent out for review and comment on 25 January 2021. The Revised Draft EA Amendment Assessment Report (this report) will therefore be available for review and comment for a period of 30-days (excluding public holidays) from **25 January 2021 to 24 February 2021**. As mentioned, SiVEST formulated a unique Public Participation process which is as closely related to the requirements of Regulations 39 to 44 of the EIA Regulations, 2014, as amended, (GNR 326) as possible (**Appendix 4** and **Appendix E9**). As a result, electronic Tablets are located at public venues (namely the Sutherland Police Station, Witzenberg Local Municipality office and Liangsburg Local Library) (**Appendix E10**) in conjunction with a 'data free' website which has been set up in a way where the Revised Draft EA Amendment Assessment Report can be either viewed and/or downloaded free of charge. Furthermore, electronic copies of the Revised Draft EA Amendment Assessment Report) have also been made available on a website (<http://ppp.g7energies.com/K7khasco90m>), whereby all registered I&APs can download the document (see **section 7.3**). Written notice via email and SMS will be given to all I&APs, key stakeholders and OoS / Authorities registered on the database that the Revised Draft EA Amendment Assessment Report (this report) is available for comment and review (**Appendix E2**). Electronic copies (CDs / Flash Disk) of the report will also be distributed on written request, otherwise a link to the report will be shared with all OoS and I&APs.

As mentioned, a Public Participation Plan) was compiled by the EAP and was subsequently approved by the DEFF (**Appendix 4** and **Appendix E9**).

All comments received following the review and comment period for the Revised Draft EA Amendment Assessment Report will be responded to in the C&RR, which forms part of this report (**Appendix E6**) and will also be included prior to submission of the Final EA Amendment Assessment Report and EMPr to the decision-making authority, namely the DEFF. Comments received on the Revised Draft EA Amendment Assessment Report will be taken into consideration, incorporated into the report (where possible) and will be used when compiling the Final EA Amendment Assessment Report, which will be submitted to the DEFF for decision-making.

All I&APs and key stakeholders will thus be provided with a second opportunity to participate in the EA Amendment process through the public participation process which will be undertaken for the Revised Draft EA Amendment Assessment Report (this report).

All I&APs and key stakeholders are invited to register as I&APs to be kept informed throughout the amendment process. To register as an I&AP / stakeholder and/or to obtain additional information, please submit your name, contact details (telephone number, postal address and email address) and the interest which you have in the application to SiVEST Environmental Division, as per the details below:

Contact: Hlengiwe Ntuli or Stephan Jacobs

PO Box 2921, RIVONIA, 2128

Phone: (011) 798 0600

E-mail: [hlengiwen@sivest.co.za](mailto:hlengiwen@sivest.co.za) / [stephanj@sivest.co.za](mailto:stephanj@sivest.co.za) / [sivest\\_ppp@sivest.co.za](mailto:sivest_ppp@sivest.co.za)

Fax: (011) 803 7272

Websites: [www.sivest.co.za](http://www.sivest.co.za)

Please reference '*Kudusberg WEF*' in your correspondence. SiVEST shall keep all registered I&APs / key stakeholders informed of the EA Amendment process.

In light of the information above, it is concluded that the EA should be split into two (2) EA's and amended in line with the proposed specifications listed in **Table i**, and that the impacts identified can be mitigated to acceptable levels, provided the recommended mitigation measures are implemented. In addition, it is the EAP's reasoned opinion, based on the detailed specialist walk-throughs which were undertaken, that the **layout being proposed as part of the Oya WEF and the Final Oya EMPr (Appendix I) be approved by the DEFF as part of the Amended EA (should this be granted)**. Furthermore, it is requested that the Kudusberg EMPr **should not be approved and should be submitted along with the final layout before construction and should be included as such as part of the Amended EA (should this be granted)**.

As per the EIA Regulations 2014, as amended, Regulation 32 of Government Notice Regulation (GNR) 326 (as amended) identifies the legislated requirements, which must be contained within an EA Amendment Assessment Report for the competent authority to consider and come to a decision on the amendment application. **Table ii** below details where the required information is located within this Revised Draft EA Amendment Assessment Report (this report).

**Table ii:** Legislated requirements of an EA Amendment Assessment Report

Regulation 32 of GNR 326 (as amended)	Description	Relevant Report Section
1	The applicant must within 90 days of receipt by the competent authority of the application made in terms of regulation 31, submit to the competent authority:	<p><u>Due to the project changes made by the Applicant after the submission of the Draft EA Amendment Assessment Report, the applicant will submit the Final Amendment Report within 140 days of receipt of the application by the competent authority, in terms of Regulation 32 (1)(b) of the NEMA EIA Regulations, 2014 (as amended). This is due to the fact that there have been changes and new information that has been added to the motivation report or EMPr which were not contained in the Draft EA Amendment Assessment Report consulted on during the initial public participation process (18 November 2020 to 11 January 2021).</u></p> <p><u>It should be noted that written notification that the final report will be submitted within 140 days of receipt of the application by the competent authority, in terms of Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended), was subsequently submitted to the DEFF on 20 January 2021 (Appendix B). The DEFF provided a response on 25 January 2021 and subsequently granted the EAP permission so submit the final report within 140 days of receipt of the application (Appendix B). In light of this, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period, from 25 January 2021 to 24 February 2021.</u></p>
(a)	<p>A report, reflecting:</p> <p>(i) An assessment of all impacts related to the proposed change;</p> <p>(ii) Advantages and disadvantages associated with the proposed change; and</p> <p>(iii) Measures to ensure avoidance, management and mitigation of impacts associated with such proposed change; and</p>	<p>All impacts related to the proposed amendments are detailed in <b>section 4</b> of this report.</p> <p>All advantages and disadvantages associated with the proposed amendments are detailed in <b>section 6</b> of this report.</p> <p>Measures to ensure avoidance, management and mitigation of impacts associated with the proposed amendments are provided in <b>section 5</b> of this report.</p>

	(iv) Any changes to the EMPr:	The approved EMPr authorised as part of the Kudusberg EA is being amended to each WEF. The Oya EMPr is also being updated to incorporate the final layout for the Oya WEF, management plans and the walk-throughs which were undertaken. The updated EMPrs for the proposed Oya WEF and Kudusberg WEF are attached to this report as <b>Appendix I1</b> and <b>Appendix I2</b> respectively.
	Which report –  (aa) had been subjected to a public participation process, which had been agreed to by the competent authority, and which was appropriate to bring the proposed change to the attention of potential and registered interested and affected parties, including organs of state, which have jurisdiction in respect of any aspect of the relevant activity, and the competent authority; and	<p>The public participation process being undertaken as part of the EA Amendment process is detailed in <b>section 7</b> of this report. In addition, all public participation related documentation is provided in <b>Appendix E</b>.</p> <p>The <u>Draft EA Amendment Assessment Report</u> was circulated for public participation for a period of 30 days (excluding public holidays and the DEFF's December closure period) from 18 November 2020 until 11 January 2021. In light of the countrywide restriction enforced in terms of Government Gazette 43096, the public participation process has been amended and adjusted. In response, SiVEST has formulated a unique Public Participation process which is as closely related to the requirements of Regulations 39 to 44 of the EIA Regulations, 2014, as amended, (GNR 326) as possible. SiVEST have implemented a virtual and electronic public participation process, in which electronic Tablets will be located at public venues in conjunction with a 'data free' website which will be set up in a way where the Draft Reports can be either viewed and/or downloaded free of charge. Furthermore, electronic copies of the Draft EA Amendment Assessment Report was also made available on a website which is a DFP (<a href="http://ppp.g7energies.com/K7khasco90m">http://ppp.g7energies.com/K7khasco90m</a>), whereby all registered I&amp;APs could download the document at no data cost to themselves. <u>The revised Draft EA Amendment Assessment Report will also be made available on the same DFP website (<a href="http://ppp.g7energies.com/K7khasco90m">http://ppp.g7energies.com/K7khasco90m</a>).</u> A Public Participation Plan (<b>Appendix E9</b>) was compiled by the EAP and was submitted to the DEFF for review and approval on 03 November 2020 (<b>Appendix 4</b> and <b>Appendix E9</b>). Public Participation Plan was subsequently approved on 16 November 2020 (<b>Appendix 4</b> and <b>Appendix E9</b>).</p> <p><u>It should be noted that due to the changes / amendments made by the Applicant after the submission of the Draft EA Amendment Assessment Report, a notification in terms of</u></p>



		<p><u>Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended), that the final report will be submitted within 140 days of receipt of the application by the competent authority was subsequently submitted to the DEFF. This was submitted on 20 January 2021 (<b>Appendix B</b>). This is due to the fact that there have been changes and new information that has been added to the motivation report or EMPr which were not contained in the Draft EA Amendment Assessment Report consulted on during the initial public participation process (18 November 2020 to 11 January 2021). The DEFF provided a response on 25 January 2021 and subsequently granted the EAP permission so submit the final report within 140 days of receipt of the application (<b>Appendix B</b>). In light of this, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period, from 25 January 2021 to 24 February 2021.</u></p> <p><u>The inputs received from authorities and I&amp;APs following the 30-day review and comment period of the Draft EA Amendment Assessment Report have been recorded and addressed in the Revised Draft EA Amendment Assessment Report (this report). After evaluating the Draft EA Amendment Assessment Report, the DEFF issued a letter, dated 11 January 2021 (<b>Appendix B</b>), containing comments on the report which were taken into consideration in the compilation of the Revised Draft EA Amendment Assessment Report (this report), which was submitted to the DEFF and is being released to all registered I&amp;APs for a 30-day comment period on 25 January 2021. All comments received to date have been responded to in the C&amp;RR which is included as <b>Appendix E6</b>.</u></p> <p><u>The Revised Draft EA Amendment Assessment Report (this report) was sent out for review and comment on 25 January 2021. The Revised Draft EA Amendment Assessment Report (this report) will therefore be available for review and comment for a period of 30-days (excluding public holidays) from <b>25 January 2021 to 24 February 2021</b>. As mentioned, electronic Tablets are located at public venues (namely the Sutherland Police Station, Witzenberg Local Municipality office and Liangsburg Local Library) in conjunction with a 'data free' website which</u></p>
--	--	--

		<p>has been set up in a way where the Revised Draft EA Amendment Assessment Report can be either viewed and/or downloaded free of charge. Furthermore, electronic copies of the Revised Draft EA Amendment Assessment Report have also been made available on a website which is a DFP (<a href="http://ppp.g7energies.com/K7khasco90m">http://ppp.g7energies.com/K7khasco90m</a>), whereby all registered I&amp;APs can download the documents (see <b>section 7.3</b>).</p> <p>As mentioned, a Public Participation Plan) was compiled by the EAP and was subsequently approved by the DEFF (<b>Appendix 4 and Appendix E9</b>).</p>
	(bb) reflects the incorporation of comments received, including any comments of the competent authority	<p>All comments received to date have been incorporated into the report (where required / possible) and responded to in the C&amp;RR, which is included as <b>Appendix E6</b>. All comments received following the review and comment period for the Revised Draft EA Amendment Assessment Report will be incorporated into the Final EA Amendment Assessment Report (where required / possible) and will also be responded to in the C&amp;RR, which forms part of this report (<b>Appendix E6</b>). The C&amp;RR will be included prior to submission of the Final EA Amendment Assessment Report and EMPr to the decision-making authority, namely the DEFF. Comments received on the Revised Draft EA Amendment Assessment Report will be taken into consideration, incorporated into the report (where possible) and will be used when compiling the Final EA Amendment Assessment Report which will be submitted to the DEFF for decision-making.</p>
(b)	A notification in writing that the report will be submitted within 140 days of receipt of application by the competent authority, as significant changes have been made or significant new information has been added to the report, which changes or information was contained in the report consulted on during the initial public participation process contemplated in sub regulation (1)(a) and that the revised report will be subjected to another public participation process of at least 30 days.	<p>As mentioned, the applicant will submit the Final Amendment Report within <b>140 days</b> of receipt of the application by the competent authority, in terms of Regulation 32 (1)(b) of the NEMA EIA Regulations, 2014 (as amended), as a result of the changes / amendments made after the submission of the Draft EA Amendment Assessment Report. This is due to the fact that there have been changes and new information that has been added to the motivation report or EMPr which were not contained in the Draft EA Amendment Assessment Report consulted on during the initial public participation process (18 November 2020 to 11 January 2021).</p> <p>It should be noted that written notification that the final report will be submitted within 140 days of receipt of the application by the competent authority, in terms of Regulation 32(1)(b) of the NEMA EIA Regulations, 2014</p>

		<p><u>(as amended), was subsequently submitted to the DEFF on 20 January 2021 (<b>Appendix B</b>). The DEFF provided a response on 25 January 2021 and subsequently granted the EAP permission so submit the final report within 140 days of receipt of the application (<b>Appendix B</b>). In light of this, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period, from 25 January 2021 to 24 February 2021.</u></p>
2	<p>In the event where sub regulation (1)(b) applies, the report, which reflects the incorporation of comments received, including any comments of the competent authority, must be submitted to the competent authority within 140 days of receipt of the application by the competent authority</p>	<p>As mentioned above, the Final Amendment Report will be submitted to the DEFF for decision-making within 140 days of receipt of the application, in terms of Regulation 32 (1)(b) of the NEMA EIA Regualtions, 2014 (as amended).</p> <p><u>Written notification that the final report will be submitted within 140 days of receipt of the application by the competent authority, in terms of Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended), was subsequently submitted to the DEFF on 20 January 2021 (<b>Appendix B</b>). The DEFF provided a response on 25 January 2021 and subsequently granted the EAP permission so submit the final report within 140 days of receipt of the application (<b>Appendix B</b>). In light of this, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period, from 25 January 2021 to 24 February 2021.</u></p>

## TABLE OF CONTENTS

<u>Contents</u>	<u>Page</u>
<b>TABLE OF CONTENTS</b>	<b>XXII</b>
<b>1 INTRODUCTION</b>	<b>1</b>
1.1 Authority Consultation	13
1.2 Expertise of Environmental Assessment Practitioner (EAP)	20
<b>2 PROJECT OVERVIEW</b>	<b>23</b>
2.1 Project Location	23
2.2 Authorised Project Components	31
2.3 Listed Activities	32
2.4 Assessment of Environmental Impacts	48
<b>3 PROPOSED AMENDMENTS</b>	<b>58</b>
3.1 Changes to Authorised Elements of the Project	58
3.2 Motivation	67
<b>4 IMPACTS RELATED TO PROPOSED AMENDMENTS</b>	<b>77</b>
4.1 Summary of Changes in Impact Ratings	95
<b>5 NEW / REVISED MITIGATION MEASURES</b>	<b>115</b>
<b>6 ADVANTAGES / DISADVANTAGES OF THE PROPOSED AMENDMENTS</b>	<b>117</b>
<b>7 PUBLIC PARTICIPATION</b>	<b>130</b>
7.1 Notification of Affected Landowners and Provincial Authorities	137
7.2 Notification of Potential Interested and Affected Parties (I&APs)	137
7.3 Comment and Review of Draft EA Amendment Assessment Report and Revised Draft EA Amendment Assessment Report	137
7.4 Stakeholders and I&APs	138
7.5 Announcing the Opportunity to Participate	139
7.6 Proof of Notification	140
7.7 Comments and Response Report (C&RR)	140
7.8 Distribution to Organs of State (OoS) / Authorities	140
<b>8 CONCLUSION AND RECOMMENDATIONS</b>	<b>168</b>
8.1 Details of Amendments Being Applied For	170
8.2 Environmental Impact Statement	171
<b>9 REFERENCES</b>	<b>172</b>

### List of Tables

Table 1: Proposed Amendments	4
Table 2: Compliance with the DEFF requirements / comments detailed in the Draft EA Amendment Assessment Report comment letter	14
Table 3: Project Team	20
Table 4: Expertise of the EAP	21
Table 5: Farm Portions on which the Kudusberg WEF and Oya WEF are located	24
Table 6: Authorised components according to EA dated 25 March 2019 (pages 9 - 10 of EA)	31

Table 7: Listed activities applicable to each EA for respective projects	33
Table 8: Original Rating of Impacts for the proposed WEF and associated infrastructure	49
Table 9: Details of the authorised WEF and the split of the EA between Oya WEF and Kudusberg WEF	60
Table 10: Summary of Specialist Findings (amendment letters and walk-throughs)	78
Table 11: Summary of changes in overall impact ratings	95
Table 12: Summary of the results of the DWS risk assessment applied to the proposed WEF development activities	102
Table 13: New / Revised mitigation measures identified in respect of the proposed amendments	115
Table 14: Advantages / Disadvantages of the Proposed Amendments	118
Table 15: Public Participation Plan: Discussion of approach and methodology to meet the requirements of the Regulations (Please see Appendix E9 for full approved plan)	132
Table 16: Distribution of Draft EA Amendment Assessment Report to OoS	142

## **List of Figures**

Figure 1: Layout map for authorised Kudusberg WEF (14/12/16/3/3/1/1976/AM1) .....	1
Figure 2: Layout assessed in Kudusberg WEF (14/12/16/3/3/1/1976/AM1) FBAR (2018) ...	26
Figure 3: Layout map for proposed Kudusberg WEF (southern section of the authorised WEF) .....	27
Figure 4: Layout map for proposed Oya WEF (northern section of the authorised WEF) ....	28
Figure 5: Location of proposed Oya WEF in relation to REDZ.....	29
Figure 6: Layout map for proposed Kudusberg WEF (southern section of authorised Kudusberg WEF) in relation to environmental sensitivities .....	93
Figure 7: Layout map for proposed Oya WEF (northern section of authorised Kudusberg WEF) in relation to environmental sensitivities .....	94
Figure 8: Layout comparison for authorised Kudusberg WEF and proposed Oya WEF.....	128
Figure 9: Layout comparison for authorised Kudusberg WEF and new proposed Kudusberg WEF.....	129
Figure 10: Schematic illustration of PPP tools.....	131

## **Appendices**

**Appendix A:** Environmental Authorisations (EAs)

**Appendix B:** Authority Consultation

**Appendix C:** Specialist Assessments (including road confirmation)

**Appendix C1:** Appendix C1a: Agricultural Amendment Letter

Appendix C1b: Original Agricultural Impact Assessment (2018)

**Appendix C2:** Appendix C2a: Avifaunal Amendment Letter

Appendix C2b: Original Avifaunal Impact Assessment (2018)

**Appendix C3:** Appendix C3a: Bat Amendment Letter

Appendix C3b: Original Bat Impact Assessment (2018)

**Appendix C4:** Appendix C4a: Biodiversity (fauna & flora) Amendment Letter

Appendix C4b: Original Biodiversity Impact Assessment (2018)

**Appendix C5:** Appendix C5a: Heritage Amendment Letter

Appendix C5b: Original Heritage Impact Assessment (2018)

**Appendix C6:** Appendix C6a: Noise Amendment Letter

Appendix C7b: Original Noise Impact Assessment (2018)

**Appendix C7:** Appendix C7a: Socio-Economic Amendment Letter

Appendix C7b: Original Socio-Economic Impact Assessment (2018)

**Appendix C8:** Appendix C8a: Surface Water / Aquatic Amendment Letter

Appendix C8b: Surface Water / Aquatic Impact Assessment (2020)

**Appendix C9:** Appendix C9a: Transportation Amendment Letter

Appendix C9b: Original Transportation Impact Assessment (2018)

**Appendix C10:** Appendix C10a: Visual Impact Amendment Letter

Appendix C10b: Original Visual Impact Assessment (2018)

**Appendix D:** Specialist Walk-through / Micro-siting Reports (including road confirmation)

**Appendix D1:** Avifauna

**Appendix D2:** Bat

**Appendix D3:** Terrestrial Ecology Walk-through, including:

- Alien Invasive Management Plan
- Plant Rescue Management Plan
- Re-Vegetation and Habitat Rehabilitation Plan

**Appendix D4:** Heritage Walk-through, including:

- Heritage Management Plan

**Appendix D5:** Surface Water / Aquatic Walk-through, including:

- Watercourse Rehabilitation, Maintenance and Management Plan
- Hydrological Assessment (including Storm Water Management & Erosion Control Plan)

**Appendix E:** Public Participation

**Appendix E1:** Site Notice Proof

**Appendix E2:** Proof of Written Notification

**Appendix E3:** Proof of Advertisements  
**Appendix E4:** I&AP Database  
**Appendix E5:** Correspondence  
**Appendix E6:** Comments and Response Report (C&RR)  
**Appendix E7:** Landowner and Authority Notifications  
**Appendix E8:** Distribution to Organs of State  
**Appendix E9:** Public Participation Plan  
**Appendix E10:** Digital Tablet Proof

**Appendix F:** Maps

**Appendix G:** Project Team CV's

**Appendix H:** Specialist Declarations of Interest (Dols)

**Appendix I:** Environmental Management Programmes (EMPrs)

**Appendix I1:** Oya WEF Final EMPr

**Appendix I2:** Kudusberg WEF draft EMPr

**Appendix J:** Additional Information

**Appendix J1:** DEFF External Review Confirmation

**Appendix J2:** Kudusberg consent to cede EA to Oya

**Appendix J3:** Oya accepting Kudusberg EA

**Appendix J4:** Oya Final Layout

**Appendix J5:** Online Screening Tool Reports

**Appendix J6:** Coordinates

**Appendix J7:** GA Confirmation Letter from DWS

# GLOSSARY OF TERMS

## ABBREVIATIONS

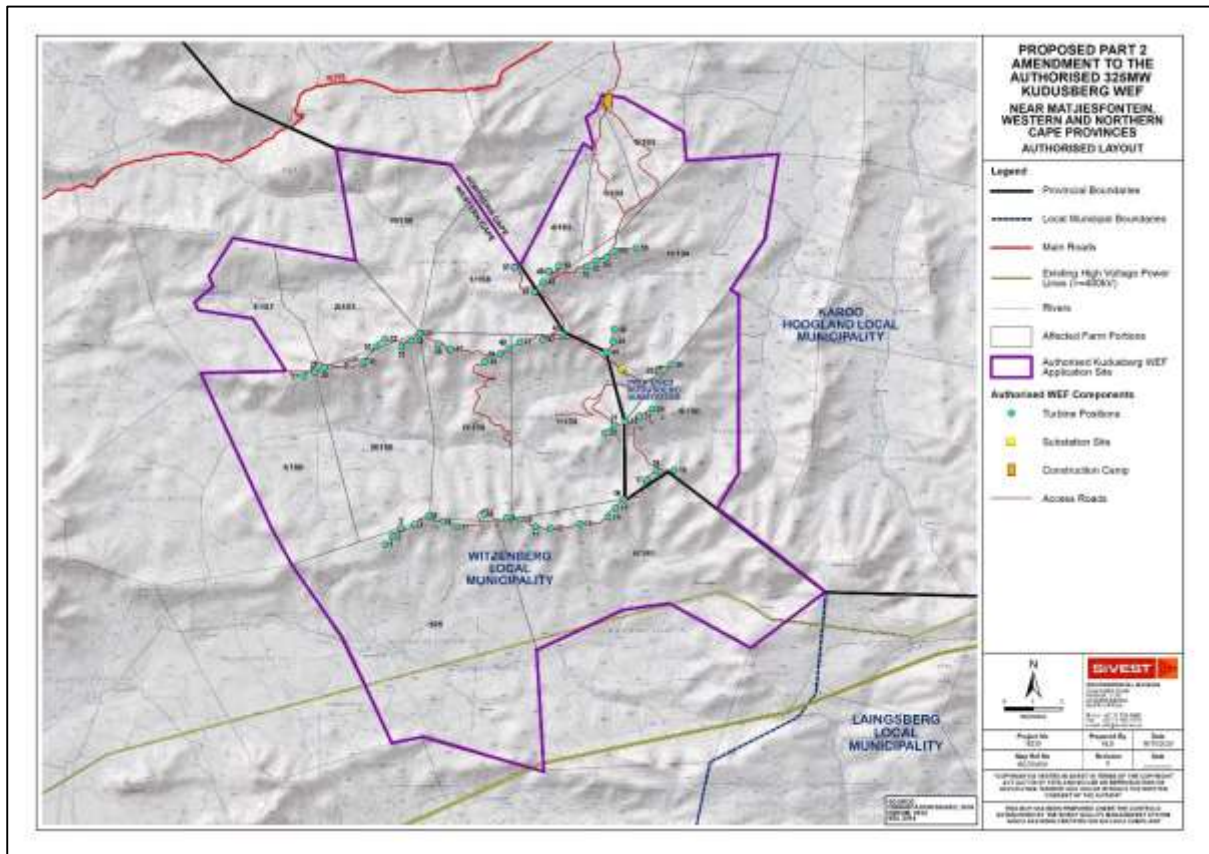
ATNS	- Air Traffic Navigation Services
C&RR	- Comments and Response Report
CV	- Curriculum Vitae
DAFF	- Department of Agriculture, Forestry and Fisheries
DEA	- Department of Environmental Affairs
DMR	- Department of Mineral Resources
DoE	- Department of Energy
DWS	- Department of Water & Sanitation
EA	- Environmental Authorisation
EAP	- Environmental Assessment Practitioner
ECP	- Emissions Control Plan
EIA	- Environmental Impact Assessment
EIAr	- Environmental Impact Assessment Report
EMC	- Electromagnetic Compatibility
EMI	- Electromagnetic Interference
EMPr	- Environmental Management Programme
ESA	- Early Stone Age
EWT	- Endangered Wildlife Trust
FEIAr	- Final Environmental Impact Assessment Report
GIS	- Geographic Information System
GN	- Government Notice
GPS	- Global Positioning System
HIA	- Heritage Impact Assessment
I&AP(s)	- Interested and Affected Parties
IPP(s)	- Independent Power Producers
KM	- Kilometre(s)
M	- Metres
MSA	- Middle Stone Age
MW	- Megawatt
NCR	- National Noise Control Regulations
NC DENC	- Northern Cape Department of Environment and Nature Conservation
NEMA	- National Environmental Management Act (Act No. 107 of 1998)
NSD	- Noise Sensitive Development
OoS	- Organs of State
RE	- Renewable Energy
REIPPPP	- Renewable Energy Independent Power Producer Procurement Programme
RMIPPPP	- Risk Mitigation Independent Power Producer Procurement Programme
PPA	- Power Purchase Agreement
PPP	- Public Participation Process
SA	- South Africa
SA CAA	- South African Civil Aviation Authority
SAHRA	- South African Heritage Resources Agency
SANRAL	- South African National Roads Agency SOC Limited
SKA	- Square Kilometre Array
VIA	- Visual Impact Assessment
WEF	- Wind Energy Facility



WESSA - Wildlife & Environment Society of South Africa  
WTG - Wind Turbine Generator  
ZoR - Zone of Regulation

# 1 INTRODUCTION

Kudusberg Wind Farm (Pty) Ltd (hereafter referred to as “Kudusberg Wind Farm”) was issued with an Environmental Authorisation (EA) for the proposed construction of the 325MW Kudusberg Wind Energy Facility (WEF) and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces. The EA was granted on 25 March 2019 (**DEFF Reference No.: 14/12/16/3/3/1/1976 (Appendix A)**), and subsequently amended on 04 April 2019 to correct a minor naming error (**14/12/16/3/3/1/1976/AM1 (Appendix A)**). The layout for the authorised Kudusberg WEF is presented in **Figure 1** below.



**Figure 1:** Layout map for authorised Kudusberg WEF (14/12/16/3/3/1/1976/AM1)

Kudusberg Wind Farm is now proposing to submit a Part 2 EA Amendment Application to split the authorised Kudusberg WEF (14/12/16/3/3/1/1976/AM1) into two (2) separate smaller WEF projects, namely the Kudusberg WEF and Oya WEF, which will result in a number of technical and administrative changes detailed below in **Table 1** below. The split is being proposed to allow the projects to be suitable for numerous opportunities such as either the Renewable Energy Independent Power Producer Procurement Programme (REIPPPP), Risk Mitigation Independent Power Producer Procurement Programme (RMIPPPP), other government run procurement programmes that may arise or for sale to private entities, if enabled and/or required in the drive for energy security in South Africa.

Following the split, the northern section of the authorised WEF will become the Oya WEF (**Figure 3**), while the southern section of the authorised WEF will remain known as the Kudusberg WEF (authorised under 14/12/16/3/3/1/1976/AM1) (**Table 1**) (**Figure 4**). In addition to the split, the final layout for the Oya WEF is being submitted which has been informed by detailed specialist walk-throughs and on site

micro-siting as per condition 29 of the Kudusberg EA<sup>10</sup>. Furthermore, the approved Environmental Management Programme (EMPr) authorised as part of the Kudusberg EA is being amended to each WEF. The Oya EMPr is being amended to incorporate the final layout for the Oya WEF, management plans and the walk-throughs.

It should be noted that after the submission of the Draft EA Amendment Assessment Report [which was made available for a 30-day<sup>11</sup> comment and review period, from 18 November 2020 to 11 January 2021 (excluding public holidays and the DEFF's December Closure Period)], the applicant made minor changes to the respective layouts being proposed for authorisation (namely the Oya WEF and Kudusberg WEF – see Figure 3 and Figure 4 below). This involved a slight adjustment in the number of turbines being proposed for each respective WEF (namely reducing number of turbines for Oya WEF, from 20 to 18, and increasing the number of turbines for Kudusberg WEF, from 36 to 38 – see Table 1 below) as well the inclusion of a section of an existing road<sup>12</sup> which was not presented in the previous layout for the proposed Oya WEF. In addition, changes were made to the capacity (MW), hub height, rotor diameter and blade length for the proposed Oya WEF. All other technical details associated with the proposed projects are however the same. The hub height, rotor diameter and blade length for the Kudusberg WEF also remains unchanged as these specifications (as detailed in Table 1 below) were approved as part of the EA which was granted on 25 March 2019 (DEFF Reference No.: 14/12/16/3/3/1/1976). The technical details / specifications for each proposed WEF are presented in Table 1 below.

The above-mentioned proposed project changes were disseminated to all specialists for review, and each specialist was asked to amend their respective reports and/or comment letters in order to reflect these changes, or to compile a letter addressing these changes. In addition, the specialists were also asked to provide confirmation (in the form of a letter or email confirmation) regarding the acceptability of the inclusion of the section of the existing road mentioned above (i.e. whether it would have any bearing on their findings). The updated specialist reports and letters have been provided as part of this Revised Draft EA Amendment Assessment Report (Appendix C and Appendix D respectively). This also includes the confirmation from each specialist with regards to the acceptability of the inclusion of the section of the existing road. A separate risk assessment was also undertaken for assessing the above-mentioned road's risk significance on watercourses (since the road is an existing road and entails existing large watercourse crossings via culvert and bridge crossings) and was subsequently included in the updated Freshwater Assessment Report (Appendix C8<sup>13</sup>).

The respective layouts for the proposed Kudusberg WEF (southern section of the authorised WEF) and Oya WEF (northern section of the authorised WEF) following the project changes mentioned above are presented in Figure 3 and Figure 4 in section 2.1 of this report.

The amendments detailed in Table 1 below (including changes to specifications presented in Draft EA Amendment Assessment Report) are proposed for each of the two (2) WEFs mentioned above. It

---

<sup>10</sup> Condition 29 of Kudusberg EA (DEFF Ref: 14/12/16/3/3/1/1976/AM1) – Page 15 of EA (page 17 of full document): *the final placement of turbines must follow a micro siting procedure involving a walk-through and identification of any sensitive areas by ecological, avifaunal, bat, surface water and heritage specialists.*

<sup>11</sup> DEFF have approved a 30-day comment and review period. Please refer to Appendix E9 for a copy of the Public Participation Plan, including approval thereof.

<sup>12</sup> Road was not reflected in previous layouts presented in Draft EA Amendment Assessment Report, however, it falls within the area assessed by the specialists as part of the Part 2 EA Amendment process. Road will be maintained (re-gravelled) during construction and operation.

<sup>13</sup> Compiled in October 2020, however, updated in January 2021 to reflect project changes made after submission of Draft EA Amendment Assessment Report.

should be noted that the table below has been updated to reflect the amendments initially applied for, as well as the amendments now being applied for following the project changes mentioned above:

**Table 1: Proposed Amendments**

Aspect to be amended	Authorised	Proposed Amendment – Draft EA Amendment Assessment Report Submitted 18 November 2020		Proposed Amendment – Revised Draft EA Amendment Assessment Report re-submitted 25 January 2021	
		Oya WEF	Kudusberg WEF	Oya WEF	Kudusberg WEF
<b>Administrative Aspects</b>					
Amend the holder of the EA's	Kudusberg Wind Farm (Pty) Ltd	Oya Energy (Pty) Ltd	Kudusberg Wind Farm (Pty) Ltd	<b><u>No Change</u></b>	<b><u>No Change</u></b>
Amend the name of the WEFs	Kudusberg Wind Energy Facility	Oya Wind Energy Facility	Kudusberg Wind Energy Facility	<b><u>No Change</u></b>	<b><u>No Change</u></b>
Contact Details	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	<a href="mailto:oya@g7energies.com">oya@g7energies.com</a>	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	<b><u>No Change</u></b>	<b><u>No Change</u></b>
Extend the validity of the EA	This activity must commence within a period of five (05) years from the date of issue of this environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	<b><u>No Change</u></b>	<b><u>No Change</u></b>
Location of Activity and SG codes	<b>Western Cape</b> 1. Portion 1 of 156 Gats Rivier Farm: C01900000000015600001 2. Portion 3 of 156 Gats River Farm: C01900000000015600002 3. Remainder of 156 Gats Rivier Farm: C01900000000015600000 4. Portion 1 of 157 Riet Fontein Farm: C01900000000015700001 5. Portion 1 of 158 Amandelboom Farm: C01900000000015800001 6. Remainder of 158 Amandelboom Farm: C01900000000015800000 7. Portion 1 of 159 Oliviers Berg Farm: C01900000000015900001	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C01900000000015600001 2. Portion 2 of the Farm Gats Rivier No 156: C01900000000015600002 3. Remainder of the Farm Gats Rivier No 156: C01900000000015600000 4. Portion 1 of the Farm Riet Fontein No 157: C01900000000015700001 5. Portion 2 of the Farm Riet Fontein No 157: C01900000000015700002 6. Portion 1 of the Farm Amandelboom No 158: C01900000000015800001	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C01900000000015600001 2. Remainder of the Farm Gats Rivier No 156: C01900000000015600000 3. Portion 1 of the Farm Oliviers Berg No 159: C01900000000015900001 4. Remainder of the Farm Oliviers Berg No 159: C01900000000015900000 5. Klipbanks Fontein No 395: C01900000000039500000 6. Remainder of the Farm Muishond Rivier No 159: C01900000000016100000  <b>Northern Cape</b>	<b>Western Cape</b> 1. <u>Portion 1 of the Farm Gats Rivier No 156: C01900000000015600001</u> 2. <u>Portion 2 of the Farm Gats Rivier No 156: C01900000000015600002</u> 3. <u>Remainder of the Farm Gats Rivier No 156: C01900000000015600000</u> 4. <u>Portion 1 of the Farm Riet Fontein No 157: C01900000000015700001</u> 5. <u>Portion 2 of the Farm Riet Fontein No 157: C01900000000015700002</u> 6. <u>Portion 1 of the Farm Amandelboom No 158: C01900000000015800001</u>	<b><u>No Change</u></b>

**KUDUSBERG WIND FARM (PTY) LTD**

Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

prepared by: SiVEST Environmental

<p>8. Remainder of 159 Oliviers Berg Farm: C0190000000015900000</p> <p>9. Portion 2 of 157 Riet Fontein Farm: C0190000000015700002</p> <p>10. Remainder of 161 Muishond Rivier Farm: C0190000000016100000</p> <p>11. Remainder of 395 Klipbanks Fontein Farm: C0190000000019500000</p> <p><b>Northern Cape</b></p> <p>12. Portion 4 of 193 Urias Gat Farm: C0720000000019300004</p> <p>13. Portion 6 of 193 Urias Gat Farm: C0720000000019300006</p> <p>14. Remainder of 193 Urias Gat Farm: C0720000000019300000</p> <p>15. Remainder of 194 Matjies Fontein Farm: C0720000000019400000</p> <p>16. Remainder of 196 Karree Kloof Farm: C0720000000019600000</p> <p><b>Properties affected by public road:</b></p> <p>17. 169 Zeekoegat Farm: C0720000000016900000</p> <p>18. Portion 1 of 170 Roodeheuveld Farm: C0720000000017000001</p> <p>19. Remainder of 170 Roodeheuveld Farm: C0720000000017000000</p>	<p>7. Remainder of the Farm Amandelboom No 158: C0190000000015800000</p> <p>8. Portion 1 of the Farm Oliviers Berg No 159: C0190000000015900001</p> <p>9. Remainder of the Farm Oliviers Berg No 159: C0190000000015900000</p> <p><b>Northern Cape</b></p> <p>10. Portion 4 of the Farm Urias Gat No 193: C0720000000019300004</p> <p>11. Portion 6 of the Farm Urias Gat No 193: C0720000000019300006</p> <p>12. Remainder of the Farm Urias Gat No 193: C0720000000019300000</p> <p>13. Remainder of the Farm Matjies Fontein No 194: C0720000000019400000</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p><b>Properties affected by access road:</b></p> <p>15. Zeekoegat Farm No 169: C0720000000016900000</p> <p>16. Portion 1 of the Farm Roodeheuveld No 170: C0720000000017000001</p> <p>17. Remainder of the Farm Roodeheuveld No 170: C0720000000017000000</p> <p>18. Remainder of the Farm Wind Heuveld No 190: C0720000000019000000</p>	<p>7. Remainder of the Farm Karee Kloof No 196: C0720000000019600000</p> <p>8. Remainder of the Farm Matjies Fontein No 194: C0720000000019400000</p> <p><b>Properties affected by public road:</b></p> <p>9. Zeekoegat Farm No 169: C0720000000016900000</p> <p>10. Portion 1 of the Farm Roodeheuveld No 170: C0720000000017000001</p> <p>11. Remainder of the Farm Roodeheuveld No 170: C0720000000017000000</p> <p>12. Remainder of the Farm Wind Heuveld No 190: C0720000000019000000</p> <p>13. Portion 1 of the Farm Wind Heuveld No 190: C0720000000019000001</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p>15. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p> <p>16. The Farm Alkant No 220: C0720000000022000000</p> <p>17. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p>	<p>7. Remainder of the Farm Amandelboom No 158: C0190000000015800000</p> <p>8. Portion 1 of the Farm Oliviers Berg No 159: C0190000000015900001</p> <p>9. Remainder of the Farm Oliviers Berg No 159: C0190000000015900000</p> <p><b>Northern Cape</b></p> <p>10. Portion 4 of the Farm Urias Gat No 193: C0720000000019300004</p> <p>11. Portion 6 of the Farm Urias Gat No 193: C0720000000019300006</p> <p>12. Remainder of the Farm Urias Gat No 193: C0720000000019300000</p> <p>13. Remainder of the Farm Matjies Fontein No 194: C0720000000019400000</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p><b>Properties affected by access road:</b></p> <p>15. Zeekoegat Farm No 169: C0720000000016900000</p> <p>16. Portion 1 of the Farm Roodeheuveld No 170: C0720000000017000001</p> <p>17. Remainder of the Farm Roodeheuveld No 170: C0720000000017000000</p> <p>18. Remainder of the Farm Wind Heuveld No 190: C0720000000019000000</p>
--	--	---	--

	<p>20. Remainder of 190 Wind Heuvel Farm: C0720000000019000000</p> <p>21. Portion 1 of 190 Wind Heuvel Farm: C0720000000019000001</p> <p>22. Portion 5 of 193 Urias Gat Farm: C0720000000019300005</p> <p>23. Remainder of 171 Vinke Kuil Farm: C0720000000017100000</p> <p>24. Alkant Re/220 Farm: C0720000000022000000</p> <p>25. Portion 1 of 174 Lange Huis Farm: C0720000000017400001</p>	<p>19. Portion 1 of the Farm Wind Heuvel No 190: C0720000000019000001</p> <p>20. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p>21. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p> <p>22. Alkant Farm No 220: C0720000000022000000</p> <p>23. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p>		<p>19. Portion 1 of the Farm Wind Heuvel No 190: C0720000000019000001</p> <p>20. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p>21. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p> <p>22. Alkant Farm No 220: C0720000000022000000</p> <p>23. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p> <p>24. Remainder of the Farm Baakens Rivier No. 155: C01900000000015500000</p>	
<b>Co-ordinates</b>	<p><b>Centre:</b> 32°50' 56.0868"S 20°19' 25.0608"E</p> <p><b>North:</b> 32°40' 29.8812"S 20°24' 57.78"E</p> <p><b>East:</b> 32°43' 53.8212"S 20°29' 32.28"E</p> <p><b>South-East:</b> 32°54' 6.66"S 20°23' 3.7788"E</p> <p><b>South-West:</b> 32°55' 32.0412"S 20°16' 24.8988"E</p> <p><b>West:</b> 32°52' 12.7812"S 20°14' 20.6988"E</p>	<p><b>APPLICATION SITE: Coordinates at Corner Points (DD MM SS.sss)</b></p> <ol style="list-style-type: none"> <li>S32° 46' 11.757" E20° 21' 39.554"</li> <li>S32° 45' 55.571" E20° 23' 32.919"</li> <li>S32° 47' 3.530" E20° 23' 8.115"</li> <li>S32° 48' 14.853" E20° 23' 15.057"</li> <li>S32° 48' 7.939" E20° 25' 19.086"</li> <li>S32° 49' 44.075" E20° 24' 59.144"</li> <li>S32° 50' 41.159" E20° 24' 13.445"</li> <li>S32° 53' 6.441" E20° 21' 52.752"</li> <li>S32° 53' 8.532" E20° 21' 53.539"</li> <li>S32° 54' 36.732" E20° 21' 50.816"</li> <li>S32° 55' 2.170" E20° 18' 58.064"</li> </ol>	<p><b>APPLICATION SITE: Coordinates at Corner Points (DD MM SS.sss)</b></p> <ol style="list-style-type: none"> <li>S32° 48' 14.853" E20° 23' 15.057"</li> <li>S32° 48' 7.939" E20° 25' 19.086"</li> <li>S32° 49' 44.075" E20° 24' 59.144"</li> <li>S32° 50' 41.159" E20° 24' 13.445"</li> <li>S32° 50' 46.823" E20° 24' 24.286"</li> <li>S32° 54' 9.411" E20° 24' 22.544"</li> <li>S32° 54' 48.192" E20° 23' 53.935"</li> <li>S32° 56' 23.562" E20° 26' 18.389"</li> <li>S32° 57' 26.788" E20° 24' 38.101"</li> <li>S32° 56' 35.721" E20° 22' 48.877"</li> <li>S32° 56' 42.813" E20° 21' 46.490"</li> </ol>	<p><b>APPLICATION SITE: Coordinates at Corner Points (DD MM SS.sss)</b></p> <ol style="list-style-type: none"> <li>S32° 46' 11.757" E20° 21' 39.554"</li> <li>S32° 45' 55.571" E20° 23' 32.919"</li> <li>S32° 47' 3.530" E20° 23' 8.115"</li> <li>S32° 48' 14.853" E20° 23' 15.057"</li> <li>S32° 48' 7.939" E20° 25' 19.086"</li> <li>S32° 49' 44.075" E20° 24' 59.144"</li> <li>S32° 50' 41.159" E20° 24' 13.445"</li> <li>S32° 53' 6.441" E20° 21' 52.752"</li> <li>S32° 53' 8.532" E20° 21' 53.539"</li> <li>S32° 54' 36.732" E20° 21' 50.816"</li> <li>S32° 55' 2.170" E20° 18' 58.064"</li> </ol>	

**KUDUSBERG WIND FARM (PTY) LTD**

Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

prepared by: SiVEST Environmental

		<p>12. S32° 54' 57.184" E20° 17' 28.053"</p> <p>13. S32° 55' 48.840" E20° 14' 21.666"</p> <p>14. S32° 55' 7.517" E20° 13' 55.356"</p> <p>15. S32° 54' 28.981" E20° 13' 34.753"</p> <p>16. S32° 52' 11.464" E20° 12' 21.280"</p> <p>17. S32° 52' 9.896" E20° 14' 16.133"</p> <p>18. S32° 51' 10.304" E20° 13' 32.215"</p> <p>19. S32° 51' 0.223" E20° 12' 19.238"</p> <p>20. S32° 50' 51.343" E20° 12' 14.058"</p> <p>21. S32° 50' 33.384" E20° 12' 39.312"</p> <p>22. S32° 50' 21.482" E20° 12' 33.983"</p> <p>23. S32° 49' 38.848" E20° 13' 6.405"</p> <p>24. S32° 50' 5.733" E20° 15' 50.817"</p> <p>25. S32° 47' 57.718" E20° 15' 25.332"</p> <p>26. S32° 48' 16.924" E20° 17' 59.136"</p> <p>27. S32° 50' 12.452" E20° 19' 31.355"</p> <p>28. S32° 47' 54.581" E20° 20' 57.293"</p> <p>29. S32° 48' 1.255" E20° 21' 9.303"</p> <p>30. S32° 47' 54.387" E20° 21' 10.181"</p> <p>31. S32° 47' 24.673" E20° 21' 0.698"</p> <p>32. S32° 47' 17.149" E20° 21' 13.982"</p>	<p>12. S32° 57' 27.491" E20° 19' 50.038"</p> <p>13. S32° 59' 45.215" E20° 19' 58.513"</p> <p>14. S32° 59' 5.070" E20° 17' 15.888"</p> <p>15. S32° 59' 11.874" E20° 16' 34.719"</p> <p>16. S32° 57' 11.539" E20° 15' 29.007"</p> <p>17. S32° 55' 48.840" E20° 14' 21.666"</p> <p>18. S32° 55' 23.944" E20° 15' 52.693"</p> <p>19. S32° 52' 9.370" E20° 14' 54.031"</p> <p>20. S32° 52' 4.579" E20° 15' 50.647"</p> <p>21. S32° 51' 44.360" E20° 16' 19.552"</p> <p>22. S32° 51' 27.665" E20° 17' 16.598"</p> <p>23. S32° 51' 31.913" E20° 20' 32.550"</p> <p>24. S32° 50' 41.238" E20° 19' 54.404"</p> <p>25. S32° 49' 35.741" E20° 21' 44.517"</p> <p><b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b></p> <p>26. S32° 54' 10.102"</p> <p>27. E20° 20' 14.737"</p> <p><b><u>CONSTRUCTION CAMP: Coordinates at Centre Point (DD MM SS.sss)</u></b></p> <p><b>CENTRE:</b> S32° 51' 46.797"</p> <p>E20° 21' 16.710"</p>	<p>12. <u>S32° 54' 57.184"</u> <u>E20° 17' 28.053"</u></p> <p>13. <u>S32° 55' 48.840"</u> <u>E20° 14' 21.666"</u></p> <p>14. <u>S32° 55' 7.517"</u> <u>E20° 13' 55.356"</u></p> <p>15. <u>S32° 54' 28.981"</u> <u>E20° 13' 34.753"</u></p> <p>16. <u>S32° 54' 34.507"</u> <u>E20° 12' 20.205"</u></p> <p>17. <u>S32° 55' 13.194"</u> <u>E20° 12' 15.385"</u></p> <p>18. <u>S32° 56' 3.895"</u> <u>E20° 12' 26.330"</u></p> <p>19. <u>S32° 56' 12.929"</u> <u>E20° 11' 16.988"</u></p> <p>20. <u>S32° 55' 38.363"</u> <u>E20° 9' 20.611"</u></p> <p>21. <u>S32° 54' 56.533"</u> <u>E20° 9' 15.790"</u></p> <p>22. <u>S32° 54' 45.536"</u> <u>E20° 8' 55.471"</u></p> <p>23. <u>S32° 54' 18.000"</u> <u>E20° 9' 11.192"</u></p> <p>24. <u>S32° 54' 13.557"</u> <u>E20° 9' 23.325"</u></p> <p>25. <u>S32° 53' 59.701"</u> <u>E20° 9' 41.082"</u></p> <p>26. <u>S32° 53' 54.356"</u> <u>E20° 9' 40.992"</u></p> <p>27. <u>S32° 52' 11.464"</u> <u>E20° 12' 21.280"</u></p> <p>28. <u>S32° 52' 9.896"</u> <u>E20° 14' 16.133"</u></p> <p>29. <u>S32° 51' 10.304"</u> <u>E20° 13' 32.215"</u></p> <p>30. <u>S32° 51' 0.223"</u> <u>E20° 12' 19.238"</u></p> <p>31. <u>S32° 50' 51.343"</u> <u>E20° 12' 14.058"</u></p> <p>32. <u>S32° 50' 33.384"</u> <u>E20° 12' 39.312"</u></p>	
--	--	--	--	---	--



		<p>33. S32° 46' 59.938" E20° 21' 22.475"</p> <p>34. S32° 46' 56.504" E20° 21' 29.064"</p> <p><b><u>Coordinates at Centre Point</u></b> <b><u>(DD MM SS.sss)</u></b></p> <p>35. S32° 51' 21.895" E20° 18' 41.467"</p> <p><b>CONSTRUCTION CAMP:</b> <b><u>Coordinates at Centre Point</u></b> <b><u>(DD MM SS.sss)</u></b> <b>CENTRE:</b> S32° 47' 36.876"  E20° 21' 23.588" <b><u>Coordinates at Corner</u></b> <b><u>Points:</u></b></p> <p><b>CC1_01:</b> S32° 47' 28.108" E20° 21' 19.647"</p> <p><b>CC1_02:</b> S32° 47' 28.329" E20° 21' 28.144"</p> <p><b>CC1_03:</b> S32° 47' 45.815" E20° 21' 27.943"</p> <p><b>CC1_04:</b> S32° 47' 45.598" E20° 21' 19.332"</p> <p><b>CC1_05:</b> S32° 47' 43.103" E20° 21' 20.053"</p> <p><b>CC1_06:</b> S32° 47' 40.376" E20° 21' 20.085"</p> <p><b>CC1_07:</b> S32° 47' 38.132" E20° 21' 19.168"</p> <p><b>CC1_08:</b> S32° 47' 35.632" E20° 21' 19.015"</p> <p><b>CC1_09:</b> S32° 47' 34.407" E20° 21' 18.760"</p> <p><b>SUBSTATION:</b> <b><u>Coordinates at Centre Point</u></b> <b><u>(DD MM SS.sss):</u></b> <b>CENTRE:</b> S32° 54' 24.333"</p>	<p><b><u>Coordinates at Corner</u></b> <b><u>Points:</u></b></p> <p><b>CC1_01:</b> S32° 51' 41.254" E20° 21' 2.209"</p> <p><b>CC1_02:</b> S32° 51' 40.895" E20° 21' 11.315"</p> <p><b>CC1_03:</b> S32° 51' 46.466" E20° 21' 19.638"</p> <p><b>CC1_04:</b> S32° 51' 45.812" E20° 21' 26.156"</p> <p><b>CC1_05:</b> S32° 51' 47.063" E20° 21' 32.475"</p> <p><b>CC1_06:</b> S32° 51' 50.861" E20° 21' 30.264"</p> <p><b>CC1_07:</b> S32° 51' 51.339" E20° 21' 26.005"</p> <p><b>CC1_08:</b> S32° 51' 53.100" E20° 21' 24.630"</p> <p><b>CC1_09:</b> S32° 51' 43.651" E20° 21' 0.749"</p> <p><b>SUBSTATION:</b> <b><u>Coordinates at Corner Points</u></b> <b><u>(DD MM SS.sss):</u></b></p> <p><b>SS1_01:</b> S32° 52' 4.061" E20° 21' 48.372"</p> <p><b>SS1_02:</b> S32° 52' 10.456" E20° 21' 53.934"</p> <p><b>SS1_03:</b> S32° 52' 15.215" E20° 21' 45.714"</p> <p><b>SS1_04:</b> S32° 52' 9.014" E20° 21' 40.229"</p> <p><b><u>Coordinates at Centre Point</u></b> <b><u>(DD MM SS.sss):</u></b> <b>CENTRE:</b> S32° 52' 9.655" E20° 21' 47.079"</p>	<p>33. S32° 50' 21.482" E20° 12' 33.983"</p> <p>34. S32° 49' 38.848" E20° 13' 6.405"</p> <p>35. S32° 50' 5.733" E20° 15' 50.817"</p> <p>36. S32° 47' 57.718" E20° 15' 25.332"</p> <p>37. S32° 48' 16.924" E20° 17' 59.136"</p> <p>38. S32° 50' 12.452" E20° 19' 31.355"</p> <p>39. S32° 47' 54.581" E20° 20' 57.293"</p> <p>40. S32° 48' 1.255" E20° 21' 9.303"</p> <p>41. S32° 47' 54.387" E20° 21' 10.181"</p> <p>42. S32° 47' 24.673" E20° 21' 0.698"</p> <p>43. S32° 47' 17.149" E20° 21' 13.982"</p> <p>44. S32° 46' 59.938" E20° 21' 22.475"</p> <p>45. S32° 46' 56.504" E20° 21' 29.064"</p> <p><b><u>Coordinates at Centre Point</u></b> <b><u>(DD MM SS.sss)</u></b></p> <p>26. S32° 51' 45.765" E20° 17' 43.464"</p> <p><b>CONSTRUCTION CAMP:</b> <b><u>Coordinates at Centre Point</u></b> <b><u>(DD MM SS.sss)</u></b> <b>CENTRE:</b> S32° 47' 36.876" E20° 21' 23.588" <b><u>Coordinates at Corner</u></b> <b><u>Points:</u></b> CC1_01: S32° 47' 28.108" E20° 21' 19.647"</p>	
--	--	--	--	---	--

		<p>E20° 12' 28.366"  <b>Coordinates at Corner Points</b>  <b>(DD MM SS.sss):</b>  <b>SS1_01:</b> S32° 54' 19.886"  E20° 12' 26.843"  <b>SS1_02:</b> S32° 54' 23.125"  E20° 12' 33.613"  <b>SS1_03:</b> S32° 54' 28.772"  E20° 12' 29.816"  <b>SS1_04:</b> S32° 54' 25.569"  E20° 12' 23.122"</p>		<p>CC1_02: S32° 47' 28.329"  E20° 21' 28.144"  CC1_03: S32° 47' 45.815"  E20° 21' 27.943"  CC1_04: S32° 47' 45.598"  E20° 21' 19.332"  CC1_05: S32° 47' 43.103"  E20° 21' 20.053"  CC1_06: S32° 47' 40.376"  E20° 21' 20.085"  CC1_07: S32° 47' 38.132"  E20° 21' 19.168"  CC1_08: S32° 47' 35.632"  E20° 21' 19.015"  CC1_09: S32° 47' 34.407"  E20° 21' 18.760"</p> <p><b>SUBSTATION:</b>  <b>Coordinates at Centre Point</b>  <b>(DD MM SS.sss):</b>  <b>CENTRE:</b>  S32° 54' 24.333"  E20° 12' 28.366"  <b>Coordinates at Corner Points</b>  <b>(DD MM SS.sss):</b>  SS1_01: S32° 54' 19.886"  E20° 12' 26.843"  SS1_02: S32° 54' 23.125"  E20° 12' 33.613"  SS1_03: S32° 54' 28.772"  E20° 12' 29.816"  SS1_04: S32° 54' 25.569"  E20° 12' 23.122"</p>	
--	--	--	--	--	--

**Technical Aspects**

Aspect to be amended	Authorised	Proposed Amendment - <u>Draft EA Amendment Assessment Report Submitted 18 November 2020</u>		Proposed Amendment – <u>Revised Draft EA Amendment Assessment Report re-submitted 25 January 2021</u>	
		Oya WEF	Kudusberg WEF	Oya WEF	Kudusberg WEF
Overall Capacity	325 MW	86 MW	239 MW	<u>99 MW</u>	<u>226MW</u>
Number of turbines	56	20	36	<u>18</u>	<u>38</u>

<b><u>Turbine numbers falling within WEF<sup>14</sup></u></b>	<u>Turbine numbers 1 - 56</u>	<u>Turbine numbers 1 - 20</u>	<u>Turbine numbers 1 - 36</u>	<u>Turbine numbers 1 - 18</u>	<u>Turbine numbers 1 - 38</u>
<b>Hub height</b>	Up to 140 m	92 m above the foundation	No Change i.e. up to 140 m	<u>Up to 101 m above the foundation</u>	<b>No Change</b> i.e. <u>up to 140 m</u>
<b>Rotor diameter</b>	Up to 180 m	150 m	No Change i.e. up to 180 m	<u>Up to 158 m</u>	<b>No Change</b> i.e. <u>up to 180 m</u>
<b>Blade length</b>	Up to 90 m	75 m	No Change i.e. up to 90 m	<u>Up to 79 m</u>	<b>No Change</b> i.e. <u>up to 90 m</u>
<b>Wind Measuring Lattice Masts</b>	Up to 4 x 140 m high depending the final hub height	2 x met masts (same as hub height)	2 x up to 140 m high depending the final hub height	<u>2 x height of the hub height</u>	<b>No Change</b> i.e. <u>2 x up to 140 m high depending the final hub height.</u>
<b>Layout</b>	-	Layout submitted for final approval. The layout to be approved are contained in <b>Appendix J4</b> . Associated turbine GPS locations will be provided in the Final EA Amendment Report.	Final layout to be submitted prior to the start of construction	<b>No Change</b> i.e. <u>Layout submitted for final approval. The layout to be approved are contained in <b>Appendix J4</b>. Associated turbine GPS locations will be provided in the Final EA Amendment Report</u>	<b>No Change</b> i.e. <u>Final layout to be submitted prior to the start of construction</u>
<b>EMPr</b>	The EMPr submitted as part of the Application for EA is hereby approved.	Approve Final EMPr	To be submitted based on final approval of layout.	<b>No Change</b> i.e. <u>Approve Final EMPr</u>	<b>No Change</b> i.e. <u>To be submitted based on final approval of layout.</u>

<sup>14</sup> Information requested by the DEFF as part of comments on Draft EA Assessment Report: “It has been noted that the Draft motivation report does not specify the exact wind energy turbines that will fall within the Oya WEF and which turbines will fall within the Kudusberg WEF. Please ensure that this information is included in the final motivation report.” Refer to **Appendix B** for a copy of the DEFF’s comment letter.

The proposed amendments in themselves are not listed activities according to Government Notice (GN) R326, R327, R325 and R324 of the Environmental Impact Assessment (EIA) Regulations (as amended on 07 April 2017 and 13 July 2018), and do not trigger any new listed activity. In addition, the proposed amendments to the Kudusberg WEF are within the original authorised development footprint, while the proposed amendments also do not change the scope of the EA<sup>15</sup>.

The proposed project split may however be construed as a change in the scope of the EA and may result in changes in the associated impacts, thus requiring an amendment application in terms of Part 2 of Chapter 5 of the EIA Regulations 2014, (as amended). The following amendment is thus being submitted in terms of Condition 5 of the EA and Chapter 5 of the EIA Regulations of December 2014 (as amended on 07 April 2017). This states that it is possible for an applicant to apply, in writing, to the competent authority for a change or deviation from the project description to be approved. In addition, the amendment of the EMPr is being undertaken in accordance with Condition 17 of the EA.

Accordingly, Kudusberg Wind Farm has appointed SiVEST SA (Pty) Ltd (hereafter referred to as “SIVEST”) to act as the independent Environmental Assessment Practitioner (EAP) to undertake the Part 2 EA Amendment process as required in terms of Regulation 32 of GN R326 of the EIA Regulations, 2014 (as amended on 07 April 2017 and 13 July 2018), as well as Regulation 37 of GN R. 326 pertaining to amendments of EMPrs. This EA Amendment Assessment Report has thus been compiled in accordance with the provisions of Regulation 32 (1) and 37 of the EIA Regulations 2014, (as amended), and includes:

- an assessment of all impacts related to the proposed change;
- an evaluation of the advantages and disadvantages associated with the proposed change;
- provision of measures to ensure avoidance, management and mitigation of any impacts associated with such proposed change; and
- identification of any changes required to the EMPr.

In addition, several specialists (namely Avifauna, Bats, Surface Water, Terrestrial Ecology and Heritage, which includes Archaeology, Palaeontology and Cultural Landscapes) have undertaken detailed walk-throughs and micro-siting of the Oya WEF in accordance with the recommendations contained in the approved EMPr and in accordance with condition 29 of the EA<sup>10</sup>. These walk-throughs were undertaken to identify any additional sensitive / “no-go” areas based on the final layout and/or any other special features which need to be avoided.

It should also be noted that the proposed changes to the technical details for the Oya WEF as well as the respective layouts being proposed for authorisation were disseminated to all specialists for review. Each specialist was asked to amend their respective reports and/or comment letters in order to reflect these project changes or to compile a letter addressing these changes. In addition, the specialists were also asked to provide confirmation (in the form of a letter or email confirmation) regarding the acceptability of the inclusion of the section of the existing road which was not presented in the previous layout for the Oya WEF. The updated specialist reports and letters have been provided as part of this Revised Draft EA Amendment Assessment Report (this report). The confirmation from each specialist with regards to the acceptability of the inclusion of the existing road is provided in **Appendix C** and **Appendix D** respectively, with the respective specialist amendment letters or walk-through reports. A

---

<sup>15</sup> Section of existing road which was not presented in previous layout for Oya WEF not within original authorised development footprint, due to inclusion of additional property (i.e. Remainder of the Farm Baakens River No. 155). Section of existing road however falls within area assessed by specialists as part of Part 2 EA Amendment process. Proposed amendment also does not change scope of EA as relevant listed activities related to widening of roads authorised as part of original EA for Kudusberg WEF (refer to **Table 7** in **section 2.3**).

separate risk assessment was also undertaken for assessing the additional section of the existing road's risk significance on watercourses. The results of this risk assessment have subsequently been included in the Freshwater Assessment Report (**Appendix C8**<sup>13</sup>).

Furthermore, the necessary specialists were commissioned to compile the requisite management plans detailed in the EMP<sup>16</sup>. This was done in order for the layout being proposed as part of the Oya WEF and the Final EMP (Appendix I1) to be approved by the DEFF as part of the Amended EA (should this be granted).

In light of the countrywide restriction enforced in terms of Government Gazette 43096, which has resulted in the entire country being placed in a national state of disaster, which limits the movement and gathering of people in an effort to curb the spread CoVID-19, the public participation process has been amended and adjusted in light of these restrictions. In response, SiVEST has formulated a unique Public Participation process which is as closely related to the requirements of Regulations 39 to 44 of the EIA Regulations, 2014, as amended, (GNR 326) as possible (Appendix E9).

It should be noted that General Notice issued by the DEFF on 24 March 2020, as well as Government Notice No. 650 issued by the DEFF on 05 June 2020, were being adhered to during Level 3 of the national lockdown period. However, during a meeting held with the South African Wind Energy Association (SAWEA) on 25 August 2020, the DEFF indicated that the Directive issued by the Department on 05 June 2020 (Government Gazette 43412) related to level 3 lockdown, has been repealed, based on the current lockdown level. Therefore, as it stands, there is no indication that a new directive will be issued, and the "normal" EIA Regulations are currently in force. DEFF however highlighted that Applicants must continue to adhere to the applicable provisions of the Disaster Management Act and associated Regulations (e.g. restrictions on gatherings for public meetings) and hence some elements included in the lockdown directive (05 June 2020 - Government Gazette 43412), mainly as it pertains to PPP, are still relevant and that this directive can be used as a consultation guide for all new applications. The Applicant will thus continue to adhere to applicable provisions of Disaster Management Act and associated Regulations.

As a result, **alternative means** of undertaking the required stakeholder engagement have been designed and implemented by SiVEST to ensure that all I&APs are afforded reasonable opportunity to engage meaningfully. As such, SiVEST proposed amendments to the public participation process. The Public Participation Plan was submitted to the DEFF for review and approval on 03 November 2020, and can be found in **Appendix E9**. The Public Participation Plan was subsequently approved by the DEFF on 16 November 2020 (**Appendix 4** and **Appendix E9**).

In light of the above, the Draft EA Amendment Assessment Report was made available for public comment for a period of 30 days<sup>17</sup> (18 November 2020 – 11 January 2021), in-line with legislation (refer to **Appendix E9**). Due to the project changes made by the Applicant after the submission of the Draft EA Amendment Assessment Report, a notification in terms of Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended), that the final report will be submitted within 140 days of receipt of the application by the competent authority, was subsequently submitted to the DEFF on 20 January 2021 (Appendix B). This is due to the fact that there have been changes and new information that has been

---

<sup>16</sup> Includes Alien and Invasive Plant Species Management Plan; Plant Rescue Management Plan; Vegetation Rehabilitation Plan; Heritage Management Plan; Watercourse Rehabilitation & Maintenance Management Plan; Hydrological Assessment (including Storm Water Management & Erosion Control Plan); Traffic and Transport Management Plan; Post-Construction Avifaunal Monitoring Plan; Fire Management Plan and Waste Management Plan

<sup>17</sup> DEFF have approved a 30-day Public Participation Process (Refer to **Appendix E9** – Public Participation Plan)

added to the motivation report or EMPr which were not contained in the Draft EA Amendment Assessment Report consulted on during the initial public participation process. The DEFF provided a response on 25 January 2021 and subsequently granted the EAP permission so submit the final report within 140 days of receipt of the application (**Appendix B**). In light of this, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period. Comments received to date were addressed and incorporated into the Revised Draft EA Amendment Assessment Report (this report), which is being made available for another 30-day review and comment period. The Revised Draft EA Amendment Assessment Report (this report) was sent out for review and comment on 25 January 2021 and will therefore be available for review and comment for a period of 30-days (excluding public holidays) from **25 January 2021 to 24 February 2021**. All comments received following the review and comment period for the Revised Draft EA Amendment Assessment Report will be responded to in the C&RR, which forms part of this report (**Appendix E6**) and will also be included prior to submission of the Final EA Amendment Assessment Report and EMPr to the decision-making authority, namely the DEFF.

## **1.1 Authority Consultation**

The National Department of Environment, Forestry and Fisheries (DEFF) is the competent authority for this EA Amendment application. An application to amend the EA for the proposed development was submitted to the DEFF on Wednesday 18 November 2020. The proof of payment for the application fee, details of the EAP and Declaration of Independence (DoI), declaration signed by the Applicant, project schedule, details of landowners, screening tool and locality map formed part of the application form. The Draft EA Amendment Assessment Report was submitted to the DEFF on the same day that the application for EA was submitted (namely Wednesday 18 November 2020). The DEFF acknowledged receipt of both the application to amend the EA and Draft EA Amendment Assessment Report on 18 November 2020 and the following DEFF Reference number: **14/12/16/3/3/1/1976/AM2** was allocated for the amendment process (see **Appendix B** for copy of Acknowledgement of Receipt). The Draft EA Amendment Assessment Report at the same time was made available for a 30-day public review and comment, from Wednesday 18 November 2020 to Monday 11 January 2021 (excluding public holidays and the DEFF's December Closure Period). After evaluating the Draft EA Amendment Assessment Report the DEFF issued a letter, dated 11 January 2021, containing comments on the Draft EA Amendment Assessment Report which needed to be addressed and/or taken into consideration in the Final EA Amendment Assessment Report.

It should however be noted that a notification in terms of Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended), that the final report will be submitted within 140 days of receipt of the application by the competent authority, was submitted to the DEFF on 20 January 2021 (**Appendix B**). This was due to the project changes made by the Applicant after the submission of the Draft EA Amendment Assessment Report which resulted in new information being added to the motivation report or EMPr which were not contained in the draft report consulted on during the initial public participation process. The DEFF provided a response on 25 January 2021 and subsequently granted the EAP permission so submit the final report within 140 days of receipt of the application (**Appendix B**). In light of this, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period.

This Revised Draft EA Amendment Assessment Report has addressed the comments made by the DEFF in the Draft EA Amendment Assessment Report comment letter (see **Appendix B**). The table below provides details as to how this Revised Draft EA Amendment Assessment Report has addressed

the comments provided by the DEFF. For further details, refer to **Appendix B** for a copy of the Draft EA Amendment Assessment Report Comment Letter.

**Table 2:** Compliance with the DEFF requirements / comments detailed in the Draft EA Amendment Assessment Report comment letter

<b>Comment made by the DEFF</b>	<b>Notes / Comments / Responses</b>
The following amendments and additional information are required for the EIAr:	
<b><u>Amendment Report</u></b>	
<u>It has been noted that the Draft motivation report does not specify the exact wind energy turbines that will fall within the Oya WEF and which turbines will fall within the Kudusberg WEF. Please ensure that this information is included in the final motivation report.</u>	<u>This information has been provided in the Revised Draft EA Amendment Assessment Report (this report), as requested by the Department. This information is provided in <b>Table 1</b> in <b>section 1</b>. This is also indicated on the project maps (<b>Appendix F</b>), as well in the coordinates (<b>Appendix J6</b>).</u>
<b><u>Listed Activities</u></b>	
<u>The amendment report must include the table of listed activities that applies to each split EA.</u>	<u>The amendment report has been updated to include a table of listed activities that applies to each split EA, as requested by the Department. <b>Table 7</b> in <b>section 2.3</b> contains the listed activities that apply to each split EA. It should be noted that the proposed WEF projects are very similar in nature and the proposed amendments do not trigger any new listed activity.</u>
<b><u>Layout &amp; Sensitivity Maps</u></b>	
<u>The final motivation report must include an environmental sensitivity map for each split EA indicating environmental sensitive areas, buffer areas and features identified during the assessment process</u>	<u>Environmental sensitivity maps for each split EA indicating environmental sensitive areas, buffer areas and features identified during the amendment assessment process were included as part of the Draft EA Amendment Assessment Report, as <b>Figure 6</b> and <b>Figure 7</b> respectively. These maps have been updated and included as part of this Revised Draft EA Amendment Assessment Report. Please refer to <b>Figure 6</b> and <b>Figure 7</b> respectively for environmental sensitivity maps for each proposed project following the proposed split (i.e. each split EA) indicating environmental sensitive areas, buffer areas and features identified during the amendment assessment process. Larger maps can be found in <b>Appendix F</b>.</u>
<u>A copy of the layout map for each split EA must be submitted with the final amendment report. All available biodiversity information must be used in the layout map. The layout map must amongst other things, indicate the following:</u>	<u>A copy of the final preferred layout map for each split EA (with a clear legend describing all features on each proposed layout) has been provided. All available biodiversity information has been used when compiling these layout maps. These maps show the final development layouts superimposed</u>

<ul style="list-style-type: none"> <li>▪ <u>All supporting onsite infrastructure e.g. roads (existing and proposed) for both Oya WEF and Kudusberg WEF;</u></li> <li>▪ <u>The location of sensitive environmental features on site e.g. drainage lines etc. that will be affected;</u></li> <li>▪ <u>Buffer areas; and</u></li> <li>▪ <u>All "no-go" areas.</u></li> </ul>	<p><u>(overlain) by the environmental sensitivities. Please refer to <b>Figure 6</b> and <b>Figure 7</b> respectively. Larger maps are provided in <b>Appendix F.</b></u></p> <p><u>The findings of the specialist assessments undertaken as part of the amendment process have been used in the finalisation of the respective layout maps and existing infrastructure has been used as far as possible. In addition, the layout maps indicate the information / features requested by the Department.</u></p> <p><u>The proposed preferred site layouts have avoided all sensitive and/or 'no-go' areas identified and all recommended buffers have been avoided accordingly. The above-mentioned maps will be updated (if required) and also provided as part of the Final EA Amendment Assessment Report, which will be submitted to the DEFF for decision-making.</u></p>
<b><u>Environmental Management Programme (EMPr)</u></b>	
<p><u>The EMPr and layout map for each split EA to be submitted with the final amendment motivation report must be updated to include and incorporate all mitigation measures recommended by the specialist.</u></p>	<p><u>EMPrs and layout maps for each proposed project following the project split (i.e. each split EA) were submitted with the Draft EA Amendment Assessment Report. The layout maps were provided as <b>Figure 6</b> and <b>Figure 7</b> in the report respectively. The EMPrs were provided in <b>Appendix I.</b></u></p> <p><u>The approved EMPr authorised as part of the Kudusberg EA has been amended to each WEF. The EMPr for the Kudusberg WEF remains unchanged since it was approved as part of the original EA (14/12/16/3/3/1/1976). This EMPr was merely updated to include updated layout maps. The EMPr for the Oya WEF was compiled and updated to incorporate the final layout for the Oya WEF, management plans and the walk-throughs and also includes all mitigation measures recommended by the specialists as part of the amendment and walk down process.</u></p> <p><u>The above-mentioned EMPrs have been updated to reflect the project changes made after the submission of the Draft EA Amendment Assessment Report and are</u></p>



	<p>provided as part of this Revised Draft EA Amendment Assessment Report (<b>Appendix I</b>). These updates have however not resulted in any material changes to the mitigation measures or management plans and included updates to the project maps and technical details. The EMPr and layout maps for each split EA will be updated (if required) and submitted with the final amendment motivation report, as requested. These will incorporate all applicable mitigation measures recommended by the respective specialists.</p>
--	--

**Public Participation**

<p><u>Please ensure that copies of original comments received from I&amp;APs and organs of state, which have jurisdiction in respect of the proposed activity are submitted to the Department with the final amendment report. Kindly ensure that the Square Kilometre Array (SKA) comments and comments from this Departments Biodiversity and Conservation Directorate are included in the document</u></p>	<p><u>Copies of all original comments received to date from all relevant I&amp;APs and Organs of State (OoS), which have jurisdiction in respect of the proposed activity, have been submitted to the Department with the Revised Draft EA Amendment Assessment Report (this report). These have been provided in <b>Appendix E5</b>.</u></p> <p><u>It should be noted that the Square Kilometre Array (SKA) and the DEFF's Biodiversity and Conservation Directorate have been included as part of the amendment process and comments from these Departments have been sought and included in the Revised Draft EA Amendment Assessment Report, where provided. <b>Appendix E8</b> includes a database of all stakeholders / OoS who have been included in the amendment process, as well as the method in which they received information and/or were contacted.</u></p> <p><u>It should be noted that a formal comment letter was submitted by the DEFF's Biodiversity and Conservation Directorate. It was confirmed that the proposed amendment will not result in any significant changes to the impacts that have already been assessed. The Department however provided recommendations, which have been taken into consideration in the compilation of the Revised EMPr and Revised Amendment Report. The comments received by from the DEFF's Biodiversity and Conservation Directorate have been addressed in the Comments and Response</u></p>
---	--

	<p><u>Report (C&amp;RR) (<b>Appendix E6</b>). No formal comments have been received from the SKA to date.</u></p> <p><u>Registered I&amp;APs, landowners / occupiers, key stakeholders and OoS / authorities were reminded about the closure of the 30-day review and comment period and reminded to provide comments (if required). <b>Appendix E8</b> includes a database of all stakeholders / OoS who have been included in the amendment process, as well as the method in which they received information and/or were contacted. This is also provided in <b>section 7.8</b> of this report. <b>Appendix E4</b> includes a database of all registered I&amp;APs who have been included in the amendment process, as well as the method in which they received information and/or were contacted.</u></p> <p><u>Copies of all original comments received from I&amp;APs and OoS as part of the amendment process will be submitted to the Department with the final amendment report, as requested.</u></p>
<p><u>Furthermore, ensure that all issues raised and comments received during the circulation of the draft amendment report from registered I&amp;APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the final amendment report.</u></p>	<p><u>All comments received to date (including during the circulation of the Draft EA Amendment Assessment Report) from registered I&amp;APs, key stakeholders and OoS / authorities which have jurisdiction in respect of the proposed activity have been adequately addressed in this Draft EA Amendment Assessment Report and are included in the C&amp;RR (<b>Appendix E6</b>). Proof of correspondence with the various I&amp;APs and key stakeholders / OoS / authorities has been included in <b>Appendix E5</b>.</u></p>
<p><u>Proof of correspondence with the various stakeholders must be included in the final amendment report. This must indicate that this draft amendment report has been subjected to 30 days' public participation process, stating the start and end date of the PPP. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.</u></p>	<p><u>It should be noted that the registered I&amp;APs, key stakeholders / OoS / authorities were reminded to provide comments. Proof of this is included in <b>Appendix E2</b>. This is also detailed in <b>Table 16</b>. Proof of this is also included in the Revised Draft EA Amendment Assessment Report (this report) (<b>section 7.8</b>), as well as in <b>Appendix E8</b>.</u></p> <p><u>All issues raised and comments received during the circulation of the Revised Draft EA Amendment Assessment Report (this report)</u></p>

	will be included and adequately addressed in the final amendment report.
<b>General</b>	
The Public Participation Process must be conducted in terms of Regulations 39, 40, 41, 42, 43 & 44 of the EIA Regulations 2014, as amended.	The Public Participation Process has been conducted in accordance with Regulation 39, 40, 41, 42, 43 and 44 of the EIA Regulations 2014, as amended. Please refer to <b>section 7</b> and <b>Appendix E</b> for details regarding the Public Participation Process which was conducted as part of the amendment process. It should be noted that the PPP was undertaken in accordance with the agreed Public Participation Plan ( <b>Appendix E9</b> ) which was approved by the DEFF ( <b>Appendix B</b> and <b>Appendix E9</b> ).
<p>You are further reminded to comply with Regulation 32(1)(a) of the NEMA EIA Regulations, 2014, as amended, which states that: <i>"The applicant must within 90 days of receipt by the competent authority of the application made in terms of regulation 31, submit to the competent authority-</i></p> <p>(a) <i>a report, reflecting-</i></p> <p>(i) <i>an assessment of all impacts related to the proposed change;</i></p> <p>(ii) <i>advantages and disadvantages associated with the proposed change; and</i></p> <p>(iii) <i>measures to ensure avoidance, management and mitigation of impacts associated with such proposed change; and</i></p> <p>(iv) <i>any changes to the EMPr;</i></p> <p>which report -</p> <p>(aa) <i>had been subjected to a public participation process, which had been agreed to by the competent authority, and which was appropriate to bring the proposed change to the attention of potential and registered interested and affected parties, including organs of state, which have jurisdiction in respect of any aspect of the relevant activity, and the competent authority, and</i></p> <p>(bb) <i>reflects the incorporation of comments received, including any comments of the competent authority."</i></p>	<p>Due to the project changes made by the Applicant after the submission of the Draft EA Amendment Assessment Report, the applicant will submit the Final Amendment Report within 140 days of receipt of the application by the competent authority, in terms of Regulation 32 (1)(b) of the NEMA EIA Regulations, 2014 (as amended). This is due to the fact that there have been changes and new information that has been added to the motivation report or EMPr which were not contained in the Draft EA Amendment Assessment Report consulted on during the initial public participation process (18 November 2020 to 11 January 2021).</p> <p>It should be noted that written notification that the final report will be submitted within 140 days of receipt of the application by the competent authority, in terms of Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended), was subsequently submitted to the DEFF on 20 January 2021 (Appendix B). The DEFF provided a response on 25 January 2021 and subsequently granted the EAP permission so submit the final report within 140 days of receipt of the application (<b>Appendix B</b>). In light of this, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period, from 25 January 2021 to 24 February 2021.</p>
Should there be significant changes or new information that has been added to the motivation report or EMPr which changes or information was not contained in the reports or plans consulted on during the initial public participation process, you are	

<p><u>required to comply with Regulation 32(1)(b) of the NEMA EIA Regulations, 2014, as amended, which states: "the applicant must, within 90 days of receipt of the application by the competent authority, submit to the competent authority- (b) a notification in writing that the report will be submitted within 140 days of receipt of the application by the competent authority, as significant changes have been made or significant new information has been added to the report, which changes or information was not contained in the report consulted on during the initial public participation process contemplated in sub regulation (1)(a) and that the revised report will be subjected to another public participation process of at least 30 days".</u></p>	<p><u>It should be noted that the Revised Draft EA Amendment Assessment Report complies with Regulation 32(1)(a) of the NEMA EIA Regulations, 2014, as amended, and meets all relevant requirements. This is detailed in <b>Table ii</b> on <b>page xix</b>. The Final EA Amendment Assessment Report will also comply with Regulation 32(1)(a) of the NEMA EIA Regulations, 2014, as amended, and meet all relevant requirements.</u></p>
<p><u>In the event where sub regulation (1)(b) applies, the report which reflects the incorporation of comments received, including any comments of the competent authority, must be submitted to the competent authority within 140 days of receipt of the application by the competent authority.</u></p>	<p><u>The Applicant will ensure that the Final EA Amendment Assessment Report will be submitted to the competent authority within 140 days of receipt of the application by the competent authority and that this report incorporates all comments received as part of the amendment process (where possible and/or required), including any comments of the competent authority.</u></p> <p><u>Due to the fact that Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended) is applicable, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period, from 25 January 2021 to 24 February 2021. Following the completion of this review and comment period, this report will be updated to incorporate any comments received (where possible and/or required), including any comments of the competent authority, and the final report will be submitted to the competent authority within 140 days of receipt of the application by the competent authority.</u></p>
<p><u>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.</u></p>	<p><u>The Department's comment is duly acknowledged. The EAP has ensured that all the timeframes stipulated in Regulation 19 of the NEMA EIA Regulations, 2014, as amended, have been met. As mentioned, the Final EA Amendment Assessment will be submitted to the DEFF within 140 days of receipt of the application. The Draft EA Amendment Assessment Report was</u></p>

	<p><u>submitted to the DEFF on 18 November 2020 and was subsequently subjected to a public participation process of at least 30 days (excluding public holidays and the DEFF's December Closure Period), from 18 November 2020 to 11 January 2021.</u></p> <p><u>Due to the fact that Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended) is applicable, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period, from 25 January 2021 to 24 February 2021. Following the completion of this review and comment period, this report will be updated to incorporate any comments received (where possible and/or required), including any comments of the competent authority, and the final report will be submitted to the competent authority within 140 days of receipt of the application by the competent authority.</u></p>
<p><u>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.</u></p>	<p><u>The Department's comment is duly acknowledged. The proposed development will not proceed without an EA being granted by the DEFF.</u></p>

A record of all decision-making authority consultation is included within **Appendix B**.

## 1.2 Expertise of Environmental Assessment Practitioner (EAP)

SiVEST Environmental Division has considerable experience in the undertaking of BA, EIA and EA Amendment Application processes. Staff and specialists who were involved in this EA Amendment Application process and contributed to the compilation of this report are detailed in **Table 3** below.

**Table 3:** Project Team

Name	Organisation	Role
John Richardson	SiVEST	Lead Environmental Consultant
Liandra Scott-Shaw	SiVEST	Project Coordinator / Environmental Assessment Practitioner (EAP)
Stephan Jacobs	SiVEST	Environmental Consultant
Kerry Schwartz	SiVEST	GIS, Mapping and Visual*
Hlengiwe Ntuli	SiVEST	Public Participation Consultant

Name	Organisation	Role
Johann Lanz	-	Agriculture & Soils Specialist
Stephan van Staden	Scientific Aquatic Services (SAS)	Surface Water Specialist
Christel du Preez	FEN Consulting – part of Scientific Aquatic Services (SAS) Environmental Group of Companies	Surface Water Specialist
Miguel Mascarenhas	Biolnsight	Avifauna (Birds) Specialist
Miguel Mascarenhas	Biolnsight	Bat Specialist
Jenna Lavin	CTS Heritage	Heritage Specialist
Nicholas Wiltshire	CTS Heritage	Heritage Specialist
Elena Broughton	Urban-Econ Development Economists	Socio-Economic Specialist
Marcel Theron	Urban-Econ Development Economists	Socio-Economic Specialist
David Hoare	David Hoare Consulting	Terrestrial Ecology Specialist
Iris Wink	JG Afrika	Transportation Specialist
Dr Brett Williams	SAFETECH	Noise Specialist

\*Specialist assessment undertaken by SiVEST's in-house specialist. Based on recent correspondence with the DEFF, it was confirmed that assessments undertaken by in-house specialists do not need to be externally reviewed as a specialist permanently employed by an EAP is regarded as independent, provided he / she has no vested interest in the project and receives fair and normal remuneration for the work. An external peer review will be required should the Competent Authority have reason to believe that the EAP or specialist is not complying or has not complied with the requirements of Regulation 13 of the EIA regulations (as amended), in respect of the application. In addition, all specialists are required to sign a Declaration of Independence (DoI). It should be noted that the respective in-house specialist is deemed to be independent, has no vested interest in the project and receives fair and normal remuneration for the work, as confirmed as part of the signed specialist DoI, all of which have been submitted with this report (**Appendix H**). Refer to **Appendix J1** for proof of this correspondence with the DEFF.

As per the requirements of the EIA Regulations 2014 (as amended), the details and level of expertise of the persons who prepared the EA Amendment Assessment Report are provided in **Table 4** below. CVs for each team member are provided in **Appendix G**.

**Table 4:** Expertise of the EAP

Lead Project Coordinator / Environmental Assessment Practitioner (EAP)	SiVEST SA (Pty) Ltd – Liandra Scott-Shaw
Contact Details	<a href="mailto:liandras@sivest.co.za">liandras@sivest.co.za</a>
Qualifications	B.Sc. Biological Science and B.Sc. (Hons) Ecological Science
Professional Affiliations	SACNASP: 117442 IAIAsa Membership Number: 3624
Expertise	Liandra has approximately 8 years work experience specialising in undertaking and managing Environmental Impact Assessments (EIAs) and Basic Assessment (BAs), primarily related to energy generation and electrical distribution projects as well as Vegetation Ecology and Environmental Management. She has extensive experience in overseeing public participation and stakeholder engagement processes and has been involved

	in environmental baseline assessments, fatal flaw / feasibility assessments and environmental sensitivity analyses. She is responsible for the overall management of the SiVEST renewable energy projects and project management.
Lead Environmental Consultant	SiVEST SA (Pty) Ltd – John Richardson
Contact Details	<a href="mailto:johnr@sivest.co.za">johnr@sivest.co.za</a>
Qualifications	B.Sc. – Geographic Science & B.Sc. Honours – Environmental Management
Professional Affiliations	Member of the International Association for Impact Assessment South Africa (IAIAsa) code of conduct and was between 2009 and 2017 a committee member of the KwaZulu-Natal branch. Elected in August 2014 as the IAIAsa KwaZulu-Natal Branch Chairman and served as branch chairman for a two-year term. In August 2017 was then elected to serve on the IAIAsa National Executive Committee for a two year term.
Expertise	Approximately thirteen years' professional experience as an environmental scientist and GIS specialist in a range of environmental and strategic planning projects, processes and applications for private, government and commercial clients. Mr Richardson has experience in conducting Environmental Screening Assessments, Basic Assessment, Scoping and Full Environmental Impact Assessment, and Section 24G compliance process under the 2006, 2010 & 2014 National Environmental Management: Environmental Impact Assessment Regulations, his experience includes Environmental Control Officer (ECO) site auditing duties and management of the GIS mapping requirements for several Biodiversity Sector Plans, Strategic Environmental Assessments, Environmental Management Frameworks and Strategic Environmental Management Plans.
Environmental Consultant	SiVEST SA (Pty) Ltd - Stephan Jacobs
Contact Details	<a href="mailto:stephanj@sivest.co.za">stephanj@sivest.co.za</a>
Qualifications	B.Sc. Environmental Sciences (undergraduate) and B.Sc. (Hons) Environmental Management and Analysis
Professional Affiliations	IAIAsa Membership Number: 5736
Expertise	Stephan specialises in the field of Environmental Management and has been extensively involved in Environmental Impact Assessment (EIA) and Basic Assessment (BA) processes for various types of projects / developments, in particular renewable energy projects. Stephan has extensive experience in undertaking public participation and stakeholder engagement processes. Stephan has also assisted extensively in the undertaking of field work and the compilation of reports for specialist studies such as Surface Water and Visual Impact Assessments. Stephan also has considerable experience in Environmental Compliance and Auditing and has acted as an Environmental Control Officer (ECO) for several infrastructure projects.

## 2 PROJECT OVERVIEW

### 2.1 Project Location

The authorised Kudusberg WEF is situated approximately 45km south-west of the town of Sutherland, within the Witzenberg and Karoo Hoogland Local Municipalities, which fall within the Cape Winelands and Namakwa District Municipalities of the Western and Northern Cape Provinces, respectively.

The authorised Kudusberg WEF project is currently located on sixteen (16) land portions, however, the project split will result in a change in the land portions for each WEF. The land portions associated with each proposed WEF are shown in **Table 5** below.



**Table 5:** Farm Portions on which the Kudusberg WEF and Oya WEF are located

Farm name and Number	21- Digit SG Code	District and Local Municipality / Province	Farm Size (hectares)
<b>Kudusberg WEF</b>			
Remainder of the Farm Gats Rivier No 156	C01900000000015600000	Cape Winelands DM and Witzenberg LM / Western Cape	2089.4066
Portion 1 of the Farm Gats Rivier No 156	C01900000000015600001		2124.9847
Portion 1 of the Farm Oliviers Berg No 159	C01900000000015900001		2279.2114
Remainder of the Farm Oliviers Berg No 159	C01900000000015900000		1852.5062
Klipbanks Fontein No 395	C01900000000039500000		4977.4259
Remainder of the Farm Muishond Rivier No 161	C01900000000016100000		4051.7902
Remainder of the Farm Karee Kloof No 196	C07200000000019600000	Namakwa DM and Karoo Hoogland LM / Northern Cape	1859.7068
Remainder of the Farm Matjes Fontein No 194	C07200000000019400000	Cape	3730,8407
<b>Kudusberg WEF - Properties affected by public road</b>			
Zeekoegat Farm No 169	C07200000000016900000	Namakwa DM and Karoo Hoogland LM / Northern Cape	4160,3672
Portion 1 of the Farm Roodeheuvel No 170	C07200000000017000001		2442,9587
Remainder of the Farm Roodeheuvel No 170	C07200000000017000000		2441,9247
Remainder of the Farm Wind Heuvel No 190	C07200000000019000000		2628,9130
Portion 1 of the Farm Wind Heuvel No 190	C07200000000019000001		2628,9194
Portion 5 of the Farm Urias Gat No 193	C07200000000019300005		616,1812924920
Remainder of the Farm Vinke Kuil No 171:	C07200000000017100000		3823,0938
The Farm Alkant No 220	C07200000000022000000		1557,7400
Portion 1 of the Farm Lange Huis No 174	C07200000000017400001		852,1697
<b>Oya WEF</b>			
Portion 1 of the Farm Gats Rivier No 156	C01900000000015600001	Cape Winelands DM and Witzenberg LM / Western Cape	2124,9847
Portion 2 of the Farm Gats Rivier No 156	C01900000000015600002		35,6890
Remainder of the Farm Gats Rivier No 156	C01900000000015600000		2089,4066
Portion 1 of the Farm Riet Fontein No 157	C01900000000015700001		891,9104
Portion 2 of the Farm Riet Fontein No 157	C01900000000015700002		1205,0160
Portion 1 of the Farm Amandelbloom No 158	C01900000000015800001		1373,8659
Remainder of the Farm Amandelboom No 158	C01900000000015800000		1711,3566
Portion 1 of the Farm Oliviers Berg No 159	C01900000000015900001		2279,2114
Remainder of the Farm Oliviers Berg No 159	C01900000000015900000		1852,5062
Portion 4 of the Farm Urias Gat No 193	C07200000000019300004		608,1991

**KUDUSBERG WIND FARM (PTY) LTD**

Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

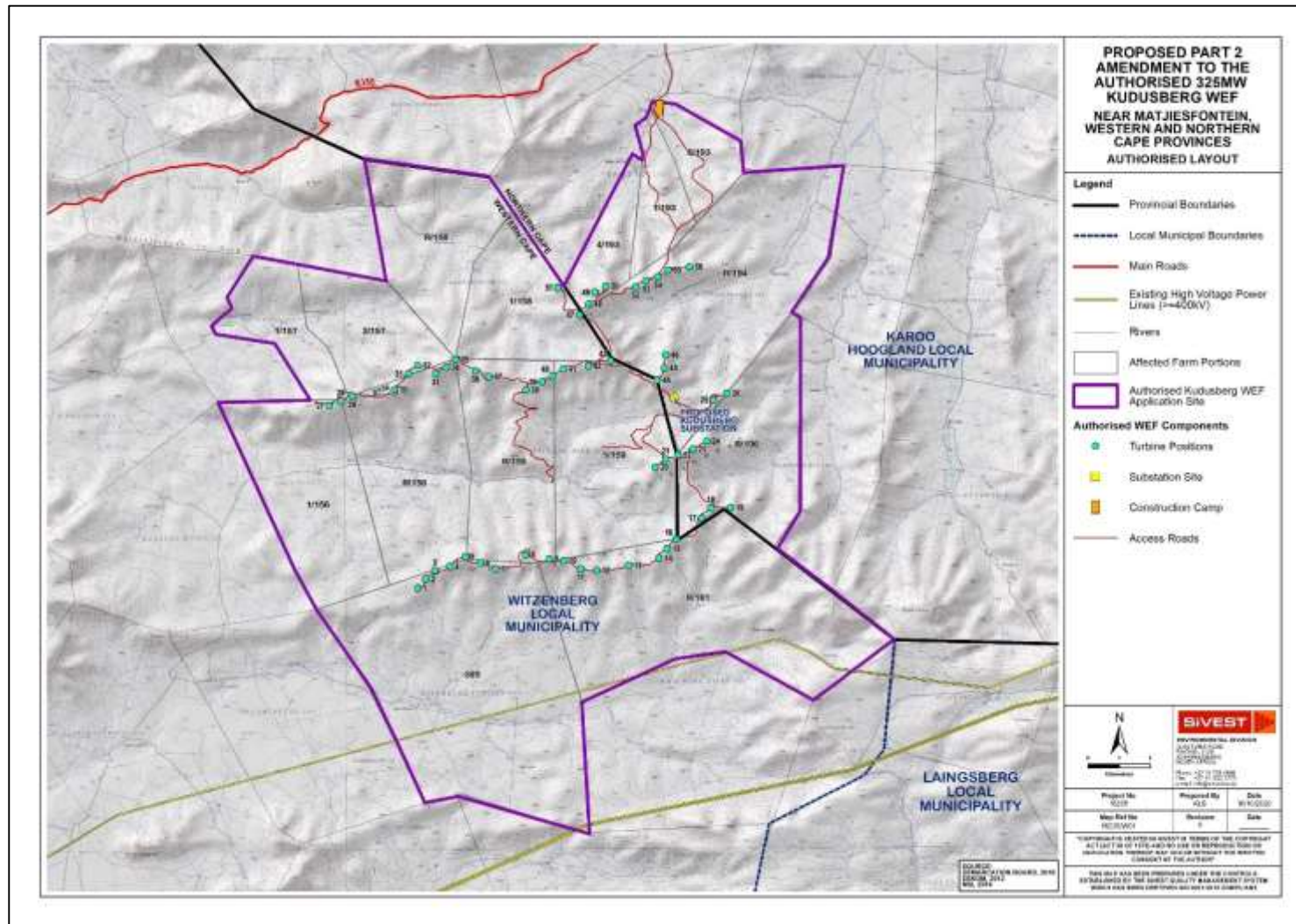
Version No: 1.0

25 January 2021

prepared by: SiVEST Environmental

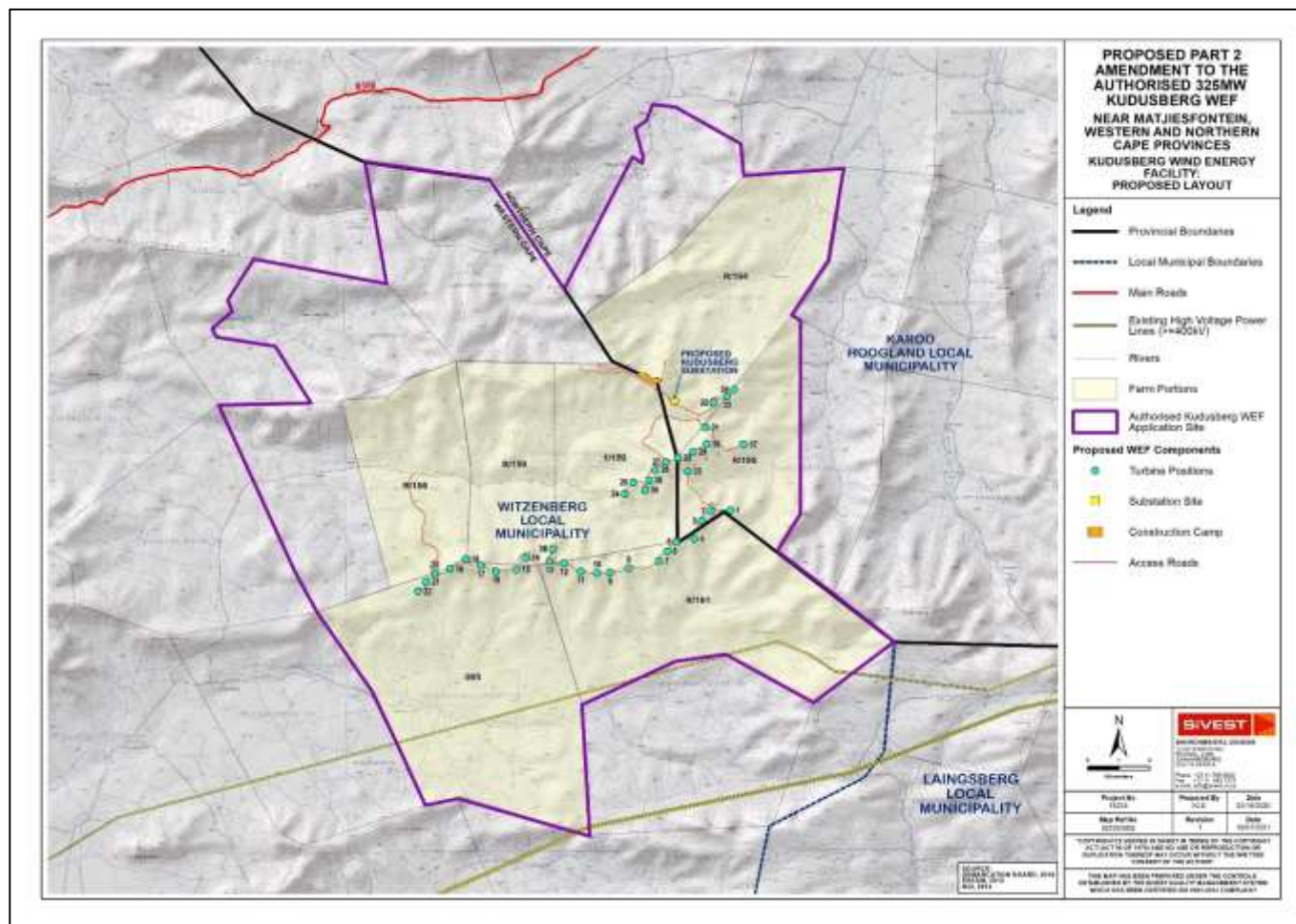
Portion 6 of the Farm Urias Gat No 193	C0720000000019300006	Namakwa DM and Karoo Hoogland LM / Northern Cape	607,7437
Remainder of the Farm Urias Gat No 193	C0720000000019300000		608,0949
Remainder of the Farm Matjies Fontein No 194	C0720000000019400000		3730,8407
Portion 5 of the Farm Urias Gat No 193	C0720000000019300005		616,1812924920
<b>Oya <u>WEF</u> - Properties affected by <u>access road</u></b>			
Zeekoegat Farm No 169	C0720000000016900000	Namakwa DM and Karoo Hoogland LM / Northern Cape	4160,3672
Portion 1 of the Farm Roodeheuvel No 170	C0720000000017000001		2442,9587
Remainder of the Farm Roodeheuvel No 170	C0720000000017000000		2441,9247
Remainder of the Farm Wind Heuvel No 190	C0720000000019000000		2628,9130
Portion 1 of the Farm Wind Heuvel No 190	C0720000000019000001		2628,9194
Portion 5 of the Farm Urias Gat No 193	C0720000000019300005		616,1812924920
Remainder of the Farm Vinke Kuil No 171:	C0720000000017100000		3823,0938
The Farm Alkant No 220	C0720000000022000000		1557,7400
Portion 1 of the Farm Lange Huis No 174	C0720000000017400001	852,1697	
Remainder of the Farm Baakens Rivier No. 155	C0190000000015500000	Cape Winelands DM and Witzenberg LM / Western Cape	2942.85

The layout of the of the authorised Kudusberg WEF which was assessed in the Final Basic Assessment Report (FBAR) (2018) is indicated in **Figure 2** below.



**Figure 2:** Layout assessed in Kudusberg WEF (14/12/16/3/3/1/1976/AM1) FBAR (2018)

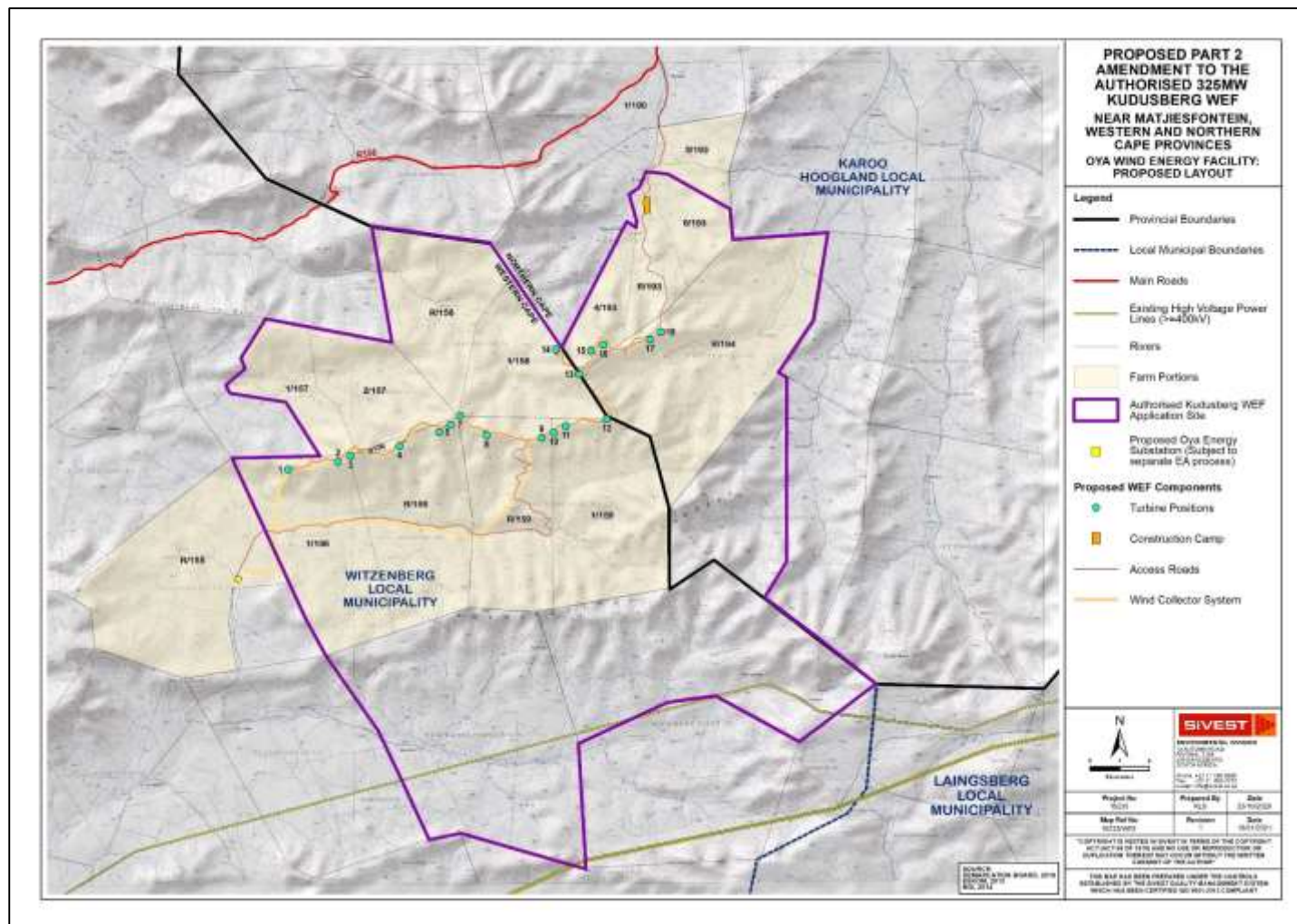
The land portions affected by the proposed Kudusberg WEF (southern section of the authorised WEF) following the project changes made after the submission of the Draft EA Amendment Assessment Report are shown in **Figure 3** below<sup>18</sup>.



**Figure 3:** Layout map for proposed Kudusberg WEF (southern section of the authorised WEF)

<sup>18</sup> Project changes detailed in **section 1** have no bearing on land portions affected by proposed Kudusberg WEF (southern section of the authorised WEF)

The land portions affected by the proposed Oya WEF (northern section of the authorised WEF) following the project changes made after the submission of the Draft EA Amendment Assessment Report are shown in **Figure 4** below.



**Figure 4:** Layout map for proposed Oya WEF (northern section of the authorised WEF)

**KUDUSBERG WIND FARM (PTY) LTD**

Part 2 EA Amendment for Proposed Development of 325MW Kudu'sberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

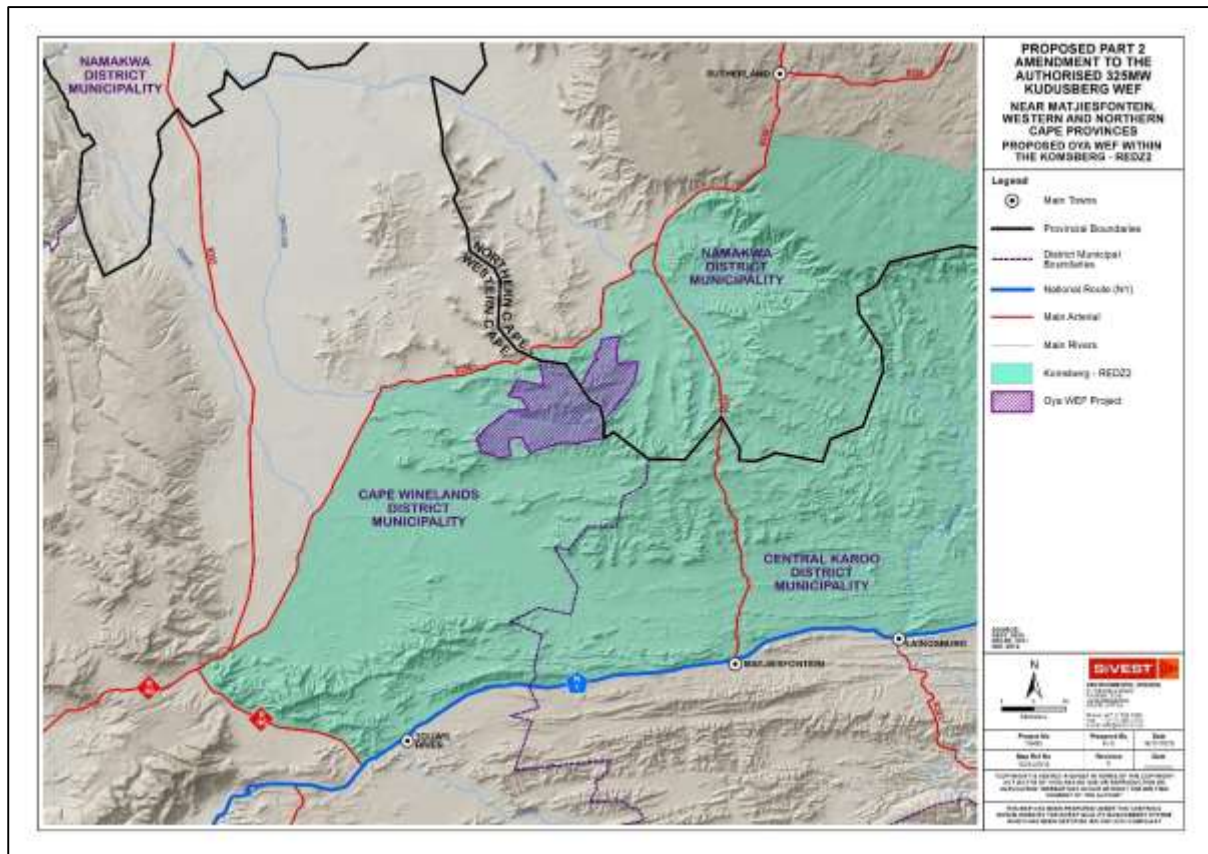
Version No: 1.0

25 January 2021

prepared by: SiVEST Environmental

It should be noted that the authorised Kudusberg WEF falls entirely within the Renewable Energy Zone (REDZ) 2 (i.e. Komsberg REDZ), which was Gazetted in February 2018 by the Minister of Environmental Affairs (GN 114), and therefore the proposed Oya WEF will also fall entirely within the above-mentioned REDZ.

The location of the proposed Oya WEF in relation to the Komsberg REDZ is shown in **Figure 5** below.



**Figure 5:** Location of proposed Oya WEF in relation to REDZ

**As a result of the proposed amendments and the specialist walk-throughs, the layout assessed in the FBAR (2018) has been amended. In addition, the layouts presented in the Draft EA Amendment Assessment Report were amended slightly in light of the project changes made after the submission of the report<sup>19</sup>. These amendments to the proposed layouts were however minor, had no material impact on the findings of the specialist assessments and thus no refinements in terms of additional / new sensitive and/or “no-go” areas were required. The Oya WEF (northern section of the authorised Kudusberg WEF) has been optimised based on wind resources, grid access and civil designs. The final layout has also been assessed by specialists as part of the amendment and has been as informed by detailed specialist walk-throughs<sup>20</sup> and micro-sighting as per condition 29 of the EA<sup>10</sup> and the EMPr. As mentioned, the project changes made after the submission of the Draft EA Amendment Assessment Report had no material impact on the findings of the specialist walk-throughs and thus no additional**

<sup>19</sup> Involved reducing number of turbines for Oya WEF, from 20 to 18, and increasing number of turbines for Kudusberg WEF, from 36 to 38 (see **Table 1**), as well the inclusion of a section of an existing road which was not presented in the previous layout for the Oya WEF (refer to **section 1**).

<sup>20</sup> Namely Terrestrial Ecology, Surface Water, Avifauna, Bats and Heritage (including Archaeology, Palaeontology and Cultural Landscapes)

sensitive and/or 'no-go' areas were identified for inclusion. No amendments to the layout being proposed (apart from the change in turbine numbers and inclusion of section of an existing road which was not presented in the previous layout for Oya WEF<sup>19</sup>) were therefore required. The final Oya WEF layout is indicated in **Figure 4** above.

The Kudusberg WEF layout (southern section of the authorised Kudusberg WEF) as a result of the split is shown in **Figure 3**. The layout was not informed by detailed micro-sighting as the layout has not yet been finalised, however, the turbine positions have been assessed by the specialist as part of this amendment and are located on areas assessed as part of the original FBAR (2018) which were deemed to be acceptable. In addition, all turbine positions avoid all previously identified environmental sensitive / 'no-go' areas and none of the specialists found any fatal flaws with the proposed layouts or any reason why they should not be approved. The project changes made after the submission of the Draft EA Amendment Assessment Report also had no material impact on the specialist findings and thus no amendments were required to the layout being proposed (apart from the change in turbine numbers<sup>19</sup>).

**It should be noted that the specialists have confirmed that both layouts are acceptable and should therefore be approved as part of the amendment.**

As per Condition 5 of the EA, any changes to, or deviations from, the project description set out in the EA must be approved, in writing, by the Department before such changes or deviations may be affected. **This amendment process therefore covers the proposed change in turbine number as well as obtaining approval of the proposed changes to, or deviations from, the project description set out in the EA by the Department.**

In addition, Condition 29 of the EA states that the final placement of turbines must follow a micro-siting procedure involving a walk-through and identification of any sensitive areas by ecological, avifaunal, bat, surface water and heritage specialists. It should be noted that Ecological, Avifaunal, Bat, Surface Water and Heritage (including Archaeology, Palaeontology and Cultural Landscapes) specialists have been appointed and have undertaken detailed site walk-throughs and micro-siting of the Oya WEF as part of their assessments which involved the identification of additional sensitive / "no-go" areas and/or any other special features based on the final layout which need to be avoided. The specialists also recommended whether any approvals and/or permits are required from certain authorities. This amendment **process therefore covers the micro-siting procedure involving a walk-through and identification of any sensitive areas by ecological, avifaunal, bat, surface water and heritage specialists.**

The final proposed development layout for the Oya WEF and the proposed Kudusberg WEF turbine layout has however been made available for comments as part of this amendment process. The holder of the EA will consider such comments and thereafter submit the final Oya development layout and proposed Kudusberg WEF layout to the DEFF for written approval prior to commencement of the activity. The final Oya WEF development layout has been determined as part of this EA Amendment process and therefore **obtaining approval of the Oya WEF development layout has also been covered by this amendment process. In light of this, it is requested that the layout being proposed for the Oya WEF (northern section of authorised Kudusberg WEF) as part of this EA Amendment process be approved by the DEFF.**

It should however be noted that **the layout for the proposed Kudusberg should NOT be approved as part of this EA Amendment process.**

## 2.2 Authorised Project Components

In terms of the original EA for the Kudusberg WEF dated 25 March 2019 (DEFF Ref No.: 14/12/16/3/3/1/1976), the components listed in **Table 6** below were authorised:

**Table 6:** Authorised components according to EA dated 25 March 2019 (pages 9 - 10 of EA)

INFRASTRUCTURE	FOOTPRINT AND DIMENSIONS
Hub Height from ground level Up to 140m	Up to 140 m
Rotor Diameter	Up to 180 m
Blade length	Up to 90 m
Project Size/Export capacity	325MW
Capacity of on-site substation	33/132 kV
Area occupied by on-site substation	Up to 2.25 ha
Area occupied by construction camp	~12.6 ha which includes an on-site concrete batching plant for use during the construction phase and for offices, administration, operations and maintenance buildings during the operational phase.
Permanent area/Facility area occupied by the development footprint of the project	Approximately 126 ha
Area occupied by buildings	Approximately 1 ha (comprising inter alia offices, ablution facilities, reception area, storeroom). The footprint of the buildings has all been included in the construction/substation footprint.
Internal access roads	Internal access roads up to 12 m wide, including structures for storm water control are required to access each turbine and the substation, with a total footprint of about 82.44 ha. Where possible, existing roads will be upgraded. Turns will have a radius of up to 50m for abnormal loads (especially turbine blades) to access the various turbine positions. 200 m wide corridor along proposed access road to enable micro siting
Turbines	Turbine foundations: Reinforced concrete foundation - 30 m x 30 m (total footprint -4 ha), 5m deep. Crane pads (laydown areas): 56 turbines x 90 m x 50 m (total footprint 25.2 ha)
Electrical transformer	Electrical transformers (690 V/33 kV) will be placed adjacent to each turbine (typical footprint of 2m x 2m, but can be up to 10m x 10m at certain locations) to step up the voltage to 33 kV. Underground 33 kV cabling between turbines buried along access roads, where feasible, with overhead 33 kV lines grouping turbines to crossing valleys and ridges outside of the road footprints to get to the onsite 33/132 kV substation.
Wind Monitoring masts	Up to 4 x 140 m high (depending on the final hub height) wind measuring lattice masts strategically placed within the wind farm development footprint to collect data on wind conditions during the operational phase.
Proximity to grid connection	It should be noted that the proposed supporting transmission line that will connect the proposed Kudusberg WEF to the Komsberg substation will be assessed under a separate Basic Assessment that will be undertaken at a later stage. The proximity from the site to the Komsberg substation is approximately 24 km.



Fencing	Permanent fencing will be required around the batching plant, the on-site substation and will be a maximum of 4 m high.
---------	---

## 2.3 Listed Activities

As per the EA as well as the Amended EA for the Kudusberg WEF dated 25 March 2019 (**DEFF Ref No.:** 14/12/16/3/3/1/1976) and 04 April 2019 (**DEFF Ref No.:** 14/12/16/3/3/1/1976/AM1<sup>21</sup>) respectively, a number of activities indicated in Listing Notice 1, Listing Notice 2 and Listing Notice 3 (GN R. 983, 984 and 985, as amended) were authorised. These activities were authorised in terms of the National Environmental Management Act (NEMA) (Act No. 107 of 1998) and the EIA Regulations, 2014 (as amended), which were applicable at the time of the original EA. Please refer to respective EAs attached in **Appendix A** for authorised Listed activities.

As previously mentioned, the proposed amendments in themselves are not listed activities according to GN R. 326, 327, 325 and 324 of the EIA Regulations (as amended on 07 April 2017), and do not trigger any new listed activity. In addition, the proposed amendments to the Kudusberg WEF are within the original authorised development footprint, while the proposed amendments also do not change the scope of the EA<sup>15</sup>.

Based on comments made on the Draft EA Amendment Assessment Report by the DEFF, the listed activities that apply to each EA for the respective projects, following the proposed project split (should the amendment be granted), are presented in **Table 7** below. This table provides listed activities authorised as part of original EA (14/12/16/3/3/1/1976) and Amended EA (14/12/16/3/3/1/1976/AM1) versus listed activities which are to be authorised as part of each respective EA following the proposed project split.

<sup>21</sup> EA amendment included the correction to Listing Notice 3: Activity 18 (GN R 985, as amended) on page 4 of the original EA (14/12/16/3/3/1/1976)

**Table 7:** Listed activities applicable to each EA for respective projects<sup>22</sup>

<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>			<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>			<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>		
<u>Activity No(s):</u>	<u>Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 1 of the EIA Regulations, 2014 as amended</u>	<u>Describe the portion of the proposed project to which the applicable listed activity relates.</u>	<u>Activity No(s):</u>	<u>Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 1 of the EIA Regulations, 2014 as amended</u>	<u>Describe the portion of the proposed project to which the applicable listed activity relates.</u>	<u>Activity No(s):</u>	<u>Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 1 of the EIA Regulations, 2014 as amended</u>	<u>Describe the portion of the proposed project to which the applicable listed activity relates.</u>
11 (i)	<b>GN R. 327 Item 11:</b> <i>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.</i>	The proposed project will entail the construction of a 132kV on-site substation and underground cabling (22/33kV) to connect the proposed WEF to it. The proposed facility is situated outside of the urban edge.	11 (i)	<b>GN R. 327 Item 11:</b> <i>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.</i>	The proposed project will entail the construction of a 132kV on-site substation and underground cabling (22/33kV) to connect the proposed WEF to it. The proposed facility is situated outside of the urban edge.	N/A – Oya WEF will not require construction of on-site substation and will make use of shared substation for proposed neighbouring Oya Energy Facility (part of separate on-going EIA process with DEFF Ref No.: 14/12/16/3/3/2/2009).		
12 (ii) (a) (c)	<b>GN R. 327 Item 12:</b> <i>The development of:</i>	The proposed WEF buildings and infrastructure are	12 (ii) (a) (c)	<b>GN R. 327 Item 12:</b> <i>The development of:</i>	The proposed WEF buildings and infrastructure are	12 (ii) (a) (c)	<b>GN R. 327 Item 12:</b> <i>The development of:</i>	The proposed WEF buildings and infrastructure are

<sup>22</sup> Table provides listed activities authorised as part of original EA (14/12/16/3/3/1/1976) and Amended EA (14/12/16/3/3/1/1976/AM1) versus listed activities to be authorised as part of proposed Kudusberg and Oya WEFs following project split. Proposed amendments in themselves are not listed activities according to GN R. 326, 327, 325 and 324 of the EIA Regulations (as amended on 07 April 2017), and do not trigger any new listed activity. In addition, proposed amendments do not change scope of EA.

<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>		<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>		<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>				
	<p><i>ii) infrastructure or structures with a physical footprint of 100 square metres or more;</i></p> <p><i>where such development occurs-</i></p> <p><i>(a) within a watercourse;</i></p> <p><i>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse.</i></p>	<p>expected to exceed a footprint of 100m<sup>2</sup> with some infrastructure or structures occurring within a watercourse (drainage line) or 32m of watercourse. The proposed project will take place outside of an urban area.</p>		<p><i>development of:</i></p> <p><i>ii) infrastructure or structures with a physical footprint of 100 square metres or more;</i></p> <p><i>where such development occurs-</i></p> <p><i>(a) within a watercourse;</i></p> <p><i>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse.</i></p>	<p>expected to exceed a footprint of 100m<sup>2</sup> with some infrastructure or structures occurring within a watercourse (drainage line) or 32m of watercourse. The proposed project will take place outside of an urban area.</p>		<p><i>ii) infrastructure or structures with a physical footprint of 100 square metres or more;</i></p> <p><i>where such development occurs-</i></p> <p><i>(a) within a watercourse;</i></p> <p><i>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse.</i></p>	<p>expected to exceed a footprint of 100m<sup>2</sup> with some infrastructure or structures occurring within a watercourse (drainage line) or 32m of watercourse. The proposed project will take place outside of an urban area.</p>
19	<p><b><u>GN R. 327 Item 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;</u></b></p>	<p>The proposed project will entail the excavation, removal, infilling, depositing and moving of more than 10m<sup>3</sup> of soil, sand, pebbles or rock from the watercourses.</p>	19	<p><b><u>GN R. 327 Item 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,</u></b></p>	<p>The proposed project will entail the excavation, removal, infilling, depositing and moving of more than 10m<sup>3</sup> of soil, sand, pebbles or rock from the watercourses.</p>	19	<p><b><u>GN R. 327 Item 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</u></b></p>	<p>The proposed project will entail the excavation, removal, infilling, depositing and moving of more than 10m<sup>3</sup> of soil, sand, pebbles or rock from the watercourses.</p>

<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>		<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>		<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>	
			<u>shell grit, pebbles or rock of more than 10 cubic metres from a watercourse;</u>		<u>rock of more than 10 cubic metres from a watercourse;</u>
24 (ii)	<u>GN R. 327 Item 24: The development of a road - ii) with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres.</u>	<u>An access road wider than 8m and up to 12m in some sections will be constructed.</u>	24 (ii) <u>ii) with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres.</u>	<u>An access road wider than 8m and up to 12m in some sections will be constructed.</u>	24 (ii) <u>GN R. 327 Item 24: The development of a road - ii) with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres.</u>
28 (ii)	<u>GN R. 327 Item 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:</u>	<u>The land is currently used and zoned for agricultural purposes. The proposed Kudusberg WEF which is considered to be a commercial / industrial development which will require a special zoning, will have a footprint of more than 1ha.</u>	28 (ii) <u>GN R. 327 Item 28: Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on</u>	<u>The land is currently used and zoned for agricultural purposes. The proposed Kudusberg WEF which is considered to be a commercial / industrial development which will require a special zoning, will have a footprint of more than 1ha.</u>	28 (ii) <u>GN R. 327 Item 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</u>

<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>		<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>		<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>	
	<u>(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare;</u>		<u>or after 01 April 1998 and where such development:</u>  <u>(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare;</u>		<u>1998 and where such development:</u>  <u>(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare;</u>
<u>48 (i) (a) (c)</u>	<u><b>GN R. 37 Item 48: The expansion of-</b></u>  <u>(i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more;</u>  <u>where such expansion occurs—</u>  <u>(a) within a watercourse; or</u> <u>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</u>	The proposed Kudusberg WEF will entail the expansion of roads and other infrastructure by 100 square metres or more within a watercourse or within 32m from the edge of a watercourse.	<u><b>GN R. 37 Item 48: The expansion of-</b></u>  <u>(i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more;</u>  <u>where such expansion occurs—</u>  <u>(a) within a watercourse; or</u>	The proposed Kudusberg WEF will entail the expansion of roads and other infrastructure by 100 square metres or more within a watercourse or within 32m from the edge of a watercourse.	<u><b>GN R. 37 Item 48: The expansion of-</b></u>  <u>(i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more;</u>  <u>where such expansion occurs—</u>  <u>(a) within a watercourse; or</u> <u>(c) if no development setback exists, within 32 metres</u>

<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>			<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>			<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>		
				<i>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</i>			<i>of a watercourse, measured from the edge of a watercourse;</i>	
56 (i)(ii)	<p><b><u>GN R. 327 Item 56: The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre –</u></b></p> <p><i>(i) Where the existing reserve is wider than 13.5metres, or</i>  <i>(ii) where no reserve exists, where the existing road is wider than 8 metres</i></p>	Existing roads will be widened by approximately 8m which is more than 6m in some places to provide access to the WEF site.	56 (i)(ii)	<p><b><u>GN R. 327 Item 56: The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre –</u></b></p> <p><i>(i) Where the existing reserve is wider than 13.5metres, or</i>  <b><i>(ii) where no reserve exists, where the existing road is wider than 8 metres</i></b></p>	Existing roads will be widened by approximately 8m which is more than 6m in some places to provide access to the WEF site.	56 (i)(ii)	<p><b><u>GN R. 327 Item 56: The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre –</u></b></p> <p><i>(i) Where the existing reserve is wider than 13.5metres, or</i>  <b><i>(ii) where no reserve exists, where the existing road is wider than 8 metres</i></b></p>	Existing roads will be widened by approximately 8m which is more than 6m in some places to provide access to the WEF site.
<b><u>Activity No(s):</u></b>	<b><u>Provide the relevant Scoping and EIA Activity(ies) as set out in Listing Notice 2 of the</u></b>	<b><u>Describe the portion of the proposed project to which the applicable listed activity relates.</u></b>	<b><u>Activity No(s):</u></b>	<b><u>Provide the relevant Scoping and EIA Activity(ies) as set out in</u></b>	<b><u>Describe the portion of the proposed project to which the applicable listed activity relates.</u></b>	<b><u>Activity No(s):</u></b>	<b><u>Provide the relevant Scoping and EIA Activity(ies) as set out in Listing</u></b>	<b><u>Describe the portion of the proposed project to which the applicable listed activity relates.</u></b>

<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>			<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>			<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>		
	<u>EIA Regulations, 2014 as amended</u>			<u>Listing Notice 2 of the EIA Regulations, 2014 as amended</u>			<u>Notice 2 of the EIA Regulations, 2014 as amended</u>	
1	<u>GN R. 325 Item 1: The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more.</u>	The proposed project will entail the construction of a WEF with a maximum generation capacity of 325MW (i.e. facilities for the generation of more than 20MW of electricity from a renewable resource) and will be located outside an urban area.	1	<u>GN R. 325 Item 1: The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more.</u>	The proposed project will entail the construction of a WEF with a maximum generation capacity of 226MW (i.e. facilities for the generation of more than 20MW of electricity from a renewable resource) and will be located outside an urban area.	1	<u>GN R. 325 Item 1: The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more.</u>	The proposed project will entail the construction of a WEF with a maximum generation capacity of 99MW (i.e. facilities for the generation of more than 20MW of electricity from a renewable resource) and will be located outside an urban area.
15	<u>GN R. 325 Item 15: The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for-</u>  <u>(i) The undertaking of a linear activity</u>	The proposed Kudusberg WEF will have an estimated footprint of 126ha. As a result, more than 20 ha of indigenous vegetation will be removed for the construction of the proposed WEF.	15	<u>GN R. 325 Item 15: The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for-</u>	The proposed Kudusberg WEF will result in more than 20 ha of indigenous vegetation being removed for the construction of the proposed WEF.	15	<u>GN R. 325 Item 15: The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for-</u>  <u>(i) The undertaking of a linear activity</u>	The proposed Oya WEF will result in more than 20 ha of indigenous vegetation being removed for the construction of the proposed WEF.

<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>			<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>			<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>		
				<i>(i) The undertaking of a linear activity</i>				
<b>Activity No(s):</b>	<b>Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 3 of the EIA Regulations, 2014 as amended</b>	<b>Describe the portion of the proposed project to which the applicable listed activity relates.</b>	<b>Activity No(s):</b>	<b>Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 3 of the EIA Regulations, 2014 as amended</b>	<b>Describe the portion of the proposed project to which the applicable listed activity relates.</b>	<b>Activity No(s):</b>	<b>Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 3 of the EIA Regulations, 2014 as amended</b>	<b>Describe the portion of the proposed project to which the applicable listed activity relates.</b>
4 ii (aa)	<p><b>GN R. 324 Item 4:</b> <i>The development of a road wider than 4 metres with a reserve less than 13,5 metres.</i></p> <p><b>g. Northern Cape</b></p> <p><i>ii. Outside urban areas:</i></p> <p><i>(bb) National Protected Area Expansion Strategy Focus areas;</i></p> <p><i>(cc) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act as adopted by the competent authority;</i></p> <p><i>(ee) Critical biodiversity areas as identified in systematic biodiversity</i></p>	Access roads wider than 4 3 with a reserve less than 13.5m will be required within the Northern and Western Cape Provinces, outside urban areas within the specific special areas containing indigenous vegetation. Section of the site are within the NPAES and CBAs.	4 ii (aa)	<p><b>GN R. 324 Item 4:</b> <i>The development of a road wider than 4 metres with a reserve less than 13,5 metres.</i></p> <p><b>g. Northern Cape</b></p> <p><i>ii. Outside urban areas:</i></p> <p><i>(bb) National Protected Area Expansion Strategy Focus areas;</i></p> <p><i>(cc) Sensitive areas as identified in an environmental management</i></p>	Access roads wider than 4 3 with a reserve less than 13.5m will be required within the Northern and Western Cape Provinces, outside urban areas within the specific special areas containing indigenous vegetation.	4 ii (aa)	<p><b>GN R. 324 Item 4:</b> <i>The development of a road wider than 4 metres with a reserve less than 13,5 metres.</i></p> <p><b>g. Northern Cape</b></p> <p><i>ii. Outside urban areas:</i></p> <p><i>(cc) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act as adopted by the competent authority;</i></p>	Access roads wider than 4 3 with a reserve less than 13.5m will be required within the Northern and Western Cape Provinces, outside urban areas within the specific special areas containing indigenous vegetation.

KUDUSBERG WIND FARM (PTY) LTD

Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

prepared by: SiVEST Environmental



<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>		<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>		<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>		
	<p><u>plans adopted by the competent authority or in bioregional plans;</u></p> <p><b><u>i. Western Cape</u></b>  <u>ii. Areas outside urban areas:</u>  <u>(aa) Areas containing indigenous vegetation;</u></p>		<p><u>framework as contemplated in chapter 5 of the Act as adopted by the competent authority;</u>  <u>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</u></p> <p><b><u>i. Western Cape</u></b>  <u>ii. Areas outside urban areas:</u>  <u>(aa) Areas containing indigenous vegetation;</u></p>	<p>are within an ESA 1 and CBA 1 in the Western Cape Province.</p> <p>It should be noted that the Western Karoo NPAES Focus Area affects the proposed WEF.</p>	<p><u>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</u></p> <p><b><u>i. Western Cape</u></b>  <u>ii. Areas outside urban areas:</u>  <u>(aa) Areas containing indigenous vegetation;</u></p>	<p>Western Cape Province.</p> <p>There are no NPAES Focus Areas which are affected by the proposed WEF</p>
12 g. ii.; i. ii	<p><b><u>GN R. 324 Item 12: The clearance of an area of 300 square metres or more of indigenous vegetation</u></b></p>	<p>The proposed facility's development footprint will result in the clearance of more than 300 square metres of indigenous vegetation.</p>	12 g. ii.	<p><b><u>GN R. 324 Item 12: The clearance of an area of 300 square metres or more of</u></b></p>	<p>The proposed facility's development footprint will result in the clearance of more than 300 square metres of indigenous</p>	<p>12 g. ii.</p> <p><b><u>GN R. 324 Item 12: The clearance of an area of 300 square metres or more of</u></b></p> <p>The proposed facility's development footprint will result in the clearance of more than 300 square metres of indigenous</p>

Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF	Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split	Listed activities to be authorised as part of EA for proposed Oya WEF following project split
<p><b>g. Northern Cape</b> ii. Within critical biodiversity areas as identified in bioregional plans;</p> <p><b>i. Western Cape</b> ii. Within critical biodiversity areas as identified in bioregional plans;</p>	<p>The proposed project area partially falls within a CBA.</p>	<p><i>indigenous vegetation</i></p> <p><b>g. Northern Cape</b> ii. Within critical biodiversity areas as identified in bioregional plans;</p> <p>vegetation. The proposed project area falls within ESA areas and partially within a CBA 2 in the Northern Cape Province. The proposed project area falls within ESA 1 areas in the Western Cape Province.</p> <p>Despite the fact that the proposed project area falls partially within CBA 1 areas in the Western Cape Province, no systematic biodiversity plans have been adopted by the Western Cape Department of Environmental Affairs and Development Planning (WC DEA&amp;DP) and no bioregional plans exist for the Witzenberg Municipality. The Western Cape Biodiversity Spatial Plan has not been</p>
<p><i>indigenous vegetation</i></p> <p><b>g. Northern Cape</b> ii. Within critical biodiversity areas as identified in bioregional plans;</p> <p>vegetation. The proposed project area falls within ESA areas and partially within a CBA 2 in the Northern Cape Province. The proposed project area falls within ESA 1 areas in the Western Cape Province.</p> <p>Despite the fact that the proposed project area falls partially within CBA 1 areas in the Western Cape Province, no systematic biodiversity plans have been adopted by the WC DEA&amp;DP and no bioregional plans exist for the Witzenberg Municipality. The Western Cape Biodiversity Spatial Plan has not been adopted by the Western Cape Government. This was confirmed by the WC DEA&amp;DP when</p>		

Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF	Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split	Listed activities to be authorised as part of EA for proposed Oya WEF following project split						
					<p>adopted by the Western Cape Government. This was confirmed by the WC DEA&amp;DP when commenting on the EIA process for the proposed Oya Energy Facility (part of separate on-going EIA process with DEFF Ref No.: 14/12/16/3/3/2/2009).</p>			<p>commenting on the EIA process for the proposed Oya Energy Facility (part of separate on-going EIA process with DEFF Ref No.: 14/12/16/3/3/2/2009).</p>
<p>14 (ii) (a) (c); g. ii. (bb) (ff); i. ii. (bb) (ff)</p>	<p><b>GN R. 324 Item 14:</b> <i>The development of-</i>  <i>(ii) Infrastructure or structures with a physical footprint of 10 square metres or more:</i>  <i>Where such development occurs-</i>  <i>(a) Within a watercourse;</i> <i>(c) If no development setback has been adopted, within 32 metres of a watercourse;</i>  <b>g. Northern Cape</b></p>	<p>The proposed Kudusberg WEF will entail the development of roads and other infrastructure with a footprint of 10 square metres or more within a watercourse or within 32m from the edge of a watercourse.</p>	<p>14 (ii) (a) (c); g. ii. (bb) (ff); i. ii. (bb) (ff)</p>	<p><b>GN R. 324 Item 14:</b> <i>The development of-</i>  <i>(ii) Infrastructure or structures with a physical footprint of 10 square metres or more:</i>  <i>Where such development occurs-</i>  <i>(a) Within a watercourse;</i> <i>(c) If no development setback has</i></p>	<p>The proposed Kudusberg WEF will entail the development of roads and other infrastructure with a footprint of 10 square metres or more within a watercourse or within 32m from the edge of a watercourse.</p> <p>The proposed project area falls within ESA areas and partially within a CBA 2 in the Northern Cape Province. The proposed project area falls within ESA 1 areas in the</p>	<p>14 (ii) (a) (c); g. ii. (bb) (ff)</p>	<p><b>GN R. 324 Item 14:</b> <i>The development of-</i>  <i>(ii) Infrastructure or structures with a physical footprint of 10 square metres or more:</i>  <i>Where such development occurs-</i>  <i>(a) Within a watercourse;</i> <i>(c) If no development setback has been adopted, within 32 metres of a</i></p>	<p>The proposed Kudusberg WEF will entail the development of roads and other infrastructure with a footprint of 10 square metres or more within a watercourse or within 32m from the edge of a watercourse.</p> <p>The proposed project area falls within ESA areas and partially within a CBA 2 in the Northern Cape Province. The proposed project area falls within ESA 1 areas in the</p>

Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF	Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split	Listed activities to be authorised as part of EA for proposed Oya WEF following project split
<p><i>ii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas; (ff) Critical biodiversity areas or ecosystem services as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</i></p> <p><b><u>i. Western Cape</u></b></p> <p><i>ii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas; (ff) Critical biodiversity areas or ecosystem services as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</i></p>	<p><i>been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</i></p> <p><b><u>g. Northern Cape</u></b></p> <p><i>ii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas; (ff) Critical biodiversity areas or ecosystem services as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</i></p> <p><b><u>i. Western Cape</u></b></p>	<p><i>watercourse, measured from the edge of a watercourse;</i></p> <p><b><u>g. Northern Cape</u></b></p> <p><i>ii. Outside urban areas: (bb) National Protected Area Expansion Strategy Focus areas; (ff) Critical biodiversity areas or ecosystem services as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</i></p>

Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF	Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split	Listed activities to be authorised as part of EA for proposed Oya WEF following project split				
			<p><i>ii. Outside urban areas;</i>  <i>(bb) National Protected Area Expansion Strategy Focus areas;</i></p>	<p>It should be noted that the Western Karoo NPAES Focus Area affects the proposed WEF.</p>		<p>In addition, there are no NPAES Focus Areas which are affected by the proposed WEF.</p>
<p>18 g. ii. (bb) (ee) (ii); i. ii. (aa)</p>	<p><b>GN R. 324 Item 18:</b> <i>The widening of a road by more than 4 meters, or the lengthening of a road by more than 1 kilometer-</i></p> <p><b>g. Northern Cape</b>  <i>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;</i></p> <p><b>i. Western Cape</b>  <i>ii. All areas outside urban areas;</i></p>	<p>Existing roads will be widened by more than 4m in some places to provide access to the WEF site.</p>	<p>18 g. ii. (bb) (ee) (ii); i. ii. (aa)</p> <p><b>GN R. 324 Item 18:</b> <i>The widening of a road by more than 4 meters, or the lengthening of a road by more than 1 kilometer-</i></p> <p><b>g. Northern Cape</b>  <i>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</i></p>	<p>Existing roads will be widened by more than 4m in some places to provide access to the WEF site.</p> <p>The proposed project area falls within ESA areas and partially within a CBA 2 in the Northern Cape Province. The proposed project area falls within ESA 1 areas in the Western Cape Province. The proposed development will also be within 100 metres from the edge of a watercourse or wetland.</p> <p>It should be noted that the Western Karoo NPAES Focus</p>	<p>18 g. ii. (ee) (ii); i. ii. (aa)</p> <p><b>GN R. 324 Item 18:</b> <i>The widening of a road by more than 4 meters, or the lengthening of a road by more than 1 kilometer-</i></p> <p><b>g. Northern Cape</b>  <i>ii. Outside urban 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;</i></p>	<p>Existing roads will be widened by more than 4m in some places to provide access to the WEF site.</p> <p>The proposed project area falls within ESA areas and partially within a CBA 2 in the Northern Cape Province. The proposed project area falls within ESA 1 areas in the Western Cape Province. The proposed development will also be within 100 metres from the edge of a watercourse or wetland.</p> <p>It should be noted that there are no NPAES Focus Areas</p>

<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>		<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>		<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>			
	<u>(aa) Areas containing indigenous vegetation</u>		<u>competent authority or in bioregional plans;</u> <u>(ii) Areas within a watercourse or wetland; or within 100 metres from the edge of a watercourse or wetland;</u>  <b><u>i. Western Cape</u></b> <u>ii. All areas outside urban areas;</u> <u>(aa) Areas containing indigenous vegetation</u>	Area affects the proposed WEF.	<b><u>i. Western Cape</u></b> <u>ii. All areas outside urban areas;</u> <u>(aa) Areas containing indigenous vegetation</u>	which are affected by the proposed WEF.	
<u>23</u>	<b><u>GN R. 324 Item 23: The expansion of –</u></b>  <u>(ii) infrastructure or structures where the physical footprint is expanded by 10 square metres or more;</u>  <u>Where such expansion occurs-</u>	The proposed Kudusberg WEF will entail the expansion of roads and other infrastructure by 10 square metres or more within a watercourse or within 32m from the edge of watercourse.	<u>23</u>	<b><u>GN R. 324 Item 23: The expansion of –</u></b>  <u>(ii) infrastructure or structures where the physical footprint is expanded by 10 square metres or more;</u>  The proposed project area falls within ESA	The proposed Kudusberg WEF will entail the expansion of roads and other infrastructure by 10 square metres or more within a watercourse or within 32m from the edge of watercourse.  The proposed project area falls within ESA	<b><u>GN R. 324 Item 23: The expansion of –</u></b>  <u>(ii) infrastructure or structures where the physical footprint is expanded by 10 square metres or more;</u>	The proposed project area falls within ESA areas and partially within a CBA 2 in the Northern Cape Province. The proposed project area falls within ESA 1 areas in the Western Cape Province.

Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF	Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split	Listed activities to be authorised as part of EA for proposed Oya WEF following project split
<p><u>(a) Within a watercourse;</u> <u>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</u></p> <p><b><u>g. Northern Cape</u></b> <i>ii. Outside urban areas:</i> <u>(bb) National Protected Area Expansion Strategy Focus areas;</u> <u>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans</u></p> <p><b><u>i. Western Cape</u></b> <i>i. Outside urban areas:</i> <u>(bb) National Protected Area Expansion Strategy Focus areas;</u> <u>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans</u></p>	<p><u>metres or more;</u> <u>Where such expansion occurs-</u></p> <p><u>(a) Within a watercourse;</u> <u>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</u></p> <p><b><u>g. Northern Cape</u></b> <i>ii. Outside urban areas:</i> <u>(bb) National Protected Area Expansion Strategy Focus areas;</u> <u>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted</u></p>	<p><u>Where such expansion occurs-</u></p> <p><u>(a) Within a watercourse;</u> <u>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</u></p> <p><b><u>g. Northern Cape</u></b> <i>ii. Outside urban areas:</i> <u>(bb) National Protected Area Expansion Strategy Focus areas;</u> <u>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans</u></p> <p>Despite the fact that the proposed project area falls partially within CBA 1 areas in the Western Cape Province. The proposed project area falls within ESA 1 areas in the Western Cape Province.</p> <p>Despite the fact that the proposed project area falls partially within CBA 1 areas in the Western Cape Province, no systematic biodiversity plans have been adopted by the WC DEA&amp;DP and no bioregional plans exist for the Witzenberg Municipality. The Western Cape Biodiversity Spatial Plan has not been adopted by the Western Cape Government. This was confirmed by the WC DEA&amp;DP when commenting on the EIA process for the proposed Oya Energy Facility (part of separate on-going EIA process with DEFF Ref No.: 14/12/16/3/3/2/2009).</p> <p>IN addition, there are no NPAES Focus Areas which are</p>

<u>Listed activities authorised as part of Original EA (14/12/16/3/3/1/1976) and subsequent Amended EA (14/12/16/3/3/1/1976/AM1) for Kudusberg WEF</u>			<u>Listed activities to be authorised as part of EA for proposed Kudusberg WEF following project split</u>		<u>Listed activities to be authorised as part of EA for proposed Oya WEF following project split</u>		
			<p><i>by the competent authority or in bioregional plans</i></p> <p><b><i>i. Western Cape</i></b></p> <p><i>i. Outside urban areas:</i></p> <p><i>(bb) National Protected Area Expansion Strategy Focus areas:</i></p>	<p>Energy Facility (part of separate on-going EIA process with DEFF Ref No.: 14/12/16/3/3/2/2009).</p> <p>It should be noted that the Western Karoo NPAES Focus Area affects the proposed WEF.</p>			<p>affected by the proposed WEF.</p>



As can be seen from the table above, the proposed WEF projects are very similar in nature and will thus trigger very similar listed activities. Additionally, as mentioned, the proposed amendments do not trigger any new listed activity. **It is requested that the activities provided in the table above be authorised for each respective EA following the split (should the amendment be granted).**

## 2.4 Assessment of Environmental Impacts

As part of the original BA process<sup>23</sup> for the proposed Kudusberg WEF undertaken in 2018/2019, the following specialist studies were undertaken:

- Agricultural Assessment;
- Avifaunal Assessment;
- Bat Assessment;
- Biodiversity (including fauna and flora) Assessment;
- Heritage Assessment (including Archaeology, Palaeontology and Cultural Landscapes);
- Noise Impact Assessment;
- Socio-Economic Impact Assessment;
- Surface Water / Aquatic Impact Assessment;
- Transportation Assessment, and
- Visual Impact Assessment.

The above-mentioned specialist studies were commissioned to assess the impacts of the proposed amendments.

### Key

Significance Rating (+ and -)	Colour Code
Low	
Medium	
High	

Table 8

**Table 8** below provides a summary of the impacts identified during the 2018 BA process.

<sup>23</sup> BA process undertaken for original Kudusberg WEF (**DEFF Ref: 14/12/16/3/3/1/1976/AM1**) as proposed WEF falls entirely within REDZ 2 (namely the Komsberg REDZ), which was formally gazetted on 16 February 2018 by Minister of Environmental Affairs (GN 114)

**Key**

Significance Rating (+ and -)	Colour Code
Low	
Medium	
High	

**Table 8:** Original Rating of Impacts for the proposed WEF and associated infrastructure

Specialist Study	Impact	Pre-Mitigation Rating	Post Mitigation Rating
<b>Agricultural Potential</b>	<b>Construction Phase:</b>		
	Erosion by water and topsoil loss. Changes to the surface that lead to accumulation and channelling of run-off water can cause erosion. Because of the slopes, the aridity and the shallow soils, erosion risk is high	Low (-)	Very Low (-)
	<b>Operational Phase:</b>		
	Erosion by water and topsoil loss. Changes to the surface that lead to accumulation and channelling of run-off water can cause erosion. Because of the slopes, the aridity and the shallow soils, erosion risk is high	Low (-)	Very Low (-)
	Additional land use income will be generated by the farming enterprise through the lease of the land to the energy facility. This will provide the farming enterprise with increased cash flow and rural livelihood, and thereby improve its financial sustainability	Low (+)	N/A
	<b>Decommissioning Phase:</b>		
	Erosion by water and topsoil loss. Changes to the surface that lead to accumulation and channelling of run-off water can cause erosion. Because of the slopes, the aridity and the shallow soils, erosion risk is high	Low (-)	Very Low (-)
	<b>Cumulative Impact:</b>		
Cumulative impacts are likely to occur as a result of the loss of agricultural land on a regional basis because of other developments on agricultural land in the region	Very Low (-)	Very Low (-)	
<b>Avifauna</b>	<b>Construction Phase:</b>		
	Destruction of important habitat areas (natural vegetation & water features etc.) due to the construction of wind turbines and associated infrastructures	Low (-)	Very Low (-)
	Disturbance of the bird community due to the increase of people and vehicles in the area	Low (-)	Very Low (-)
	Displacement of bird community due to increased disturbances in the area	Low (-)	Very Low (-)
	<b>Operational Phase:</b>		

Specialist Study	Impact	Pre-Mitigation Rating	Post Mitigation Rating	
	Fatalities due to collision with wind turbine blades or associated infrastructures	Medium (-)	Low (-)	
	Disturbance of bird community due to noise and movement generated by turbines and people / vehicles operating in the area	Low (-)	Very Low (-)	
	Displacement of bird species due to increased disturbances	Low (-)	Very Low (-)	
	Population decline due to long-term increasing fatality events	Low (-)	Very Low (-)	
	<b>Decommissioning Phase:</b>			
	Disturbance of bird community due to the increase of people and vehicles in the area, when dismantling wind turbines and associated infrastructures	Low (-)	Very Low (-)	
	Displacement of bird community due to the increase in disturbances in the area, while dismantling wind turbines and associated infrastructures	Low (-)	Very Low (-)	
	<b>Cumulative Impacts:</b>			
	Destruction of important habitat areas (natural vegetation & water features etc.) at multiple renewable energy facilities	Medium (-)	Low (-)	
	Disturbance of bird community due to the increase of wind turbine infrastructures, people and vehicles at multiple renewable energy facilities	Medium (-)	Low (-)	
	Displacement of bird communities due to the increase in disturbances at multiple renewable energy facilities	Medium (-)	Low (-)	
	Fatalities as a result of increased collisions with wind turbine blades at multiple renewable energy facilities	Medium (-)	Low (-)	
	Decline in the broader population of avifauna due to long-term fatality events at multiple renewable energy facilities	Medium (-)	Low (-)	
	<b>Bats</b>	<b>Construction Phase:</b>		
Destruction of important habitat areas (natural vegetation, water features, roosts, etc.) due to the construction of wind turbines and associated infrastructures		Medium (-)	Low (-)	
Disturbance of the bat community due to the increase of people and vehicles in the area, high levels of noise and machinery movements		Low (-)	Very Low (-)	
Displacement of bat community due to increased disturbances in the area		Low (-)	Very Low (-)	
<b>Operational Phase:</b>				
Fatalities due to collision with turbine blades or barotrauma		Medium (-)	Low (-)	
Disturbance of bat community due to high levels of noise and movement generated by turbines operation and increase of people and vehicles associated with maintenance activities		Low (-)	Very Low (-)	

Specialist Study	Impact	Pre-Mitigation Rating	Post Mitigation Rating
	<b>Operational Phase:</b>		
	Displacement of bat community due to increased disturbances in the area	Low (-)	Very Low (-)
	Population decline due to long-term increasing fatality events	Low (-)	Very Low (-)
	<b>Decommissioning Phase:</b>		
	Disturbance of bat community due to the increase of people and vehicles in the area, high levels of noise and machinery movements when dismantling wind turbines and associated infrastructures	Low (-)	Very Low (-)
	Displacement of bat community due to increased disturbances in the area	Low (-)	Very Low (-)
	<b>Cumulative Impacts:</b>		
	Destruction of important habitat areas (natural vegetation, water features, roosts, etc.) due to the construction of wind turbines and associated infrastructures	Medium (-)	Low (-)
	Disturbance of the bat community due to the increase of people and vehicles in the area, high levels of noise and machinery movements	Medium (-)	Low (-)
	Displacement of bat community due to increased disturbances in the area	Medium (-)	Low (-)
	Fatalities due to collision with turbine blades or barotrauma	Medium (-)	Low (-)
	Population decline due to long-term increasing fatality events	Medium (-)	Low (-)
<b>Biodiversity</b>	<b>Construction Phase:</b>		
	Clearing of natural vegetation	High – Very High (-)	High (-)
	Loss of Species of Conservation Concern	Low (-)	Low (-)
	Loss of faunal habitat	Medium (-)	Low (-)
	Direct faunal mortalities	Low - Medium (-)	Low (-)
	Loss of animal refugia	Medium (-)	Very Low (-)
	Increased dust deposition	Low (-)	Very Low (-)
	Loss of animal and plant species by illegal collecting	Low (-)	Very Low (-)
	Increased noise and light levels	Medium (-)	Low (-)
	Establishment of alien vegetation	Low (-)	Very Low (-)
	Changes in animal behaviour	Medium (-)	Low (-)
	Changes in community composition of plants	Medium (-)	Low (-)

Specialist Study	Impact	Pre-Mitigation Rating	Post Mitigation Rating
	Increased erosion and water run-off	High (-)	Low (-)
	<b>Operational Phase:</b>		
	Clearing and disturbance of natural vegetation	Low (-)	Very Low (-)
	Direct faunal mortalities	Low (-)	Very Low (-)
	Increased noise levels	Low (-)	Low (-)
	Loss of animal and plant species by illegal collecting	Low (-)	Very Low (-)
	Establishment of alien vegetation	Low (-)	Very Low (-)
	Changes in animal behaviour	Medium (-)	Low (-)
	Increased erosion and water run-off	Medium (-)	Low (-)
	<b>Decommissioning Phase:</b>		
	Clearing and disturbance of natural vegetation	Low (-)	Very Low (-)
	Direct faunal mortalities	Low (-)	Very Low (-)
	Increased dust deposition	Low (-)	Very Low (-)
	Changes in animal behaviour	Medium (-)	Low (-)
	Increased erosion and water run-off	Low (-)	Very Low (-)
	<b>Cumulative Impact:</b>		
	Vegetation loss and habitat destruction	High (-)	Medium (-)
	Loss of Species of Conservation Concern	Medium (-)	Low (-)
	Dissection of mountain crest habitat	Medium (-)	Medium (-)
	Turbine noise	Low (-)	Low (-)
	Compromising integrity of CBA, ESA and NPAES	High (-)	Low (-)
	Increased erosion and water run-off	Medium (-)	Low (-)
<b>Heritage</b>	<b>Construction Phase:</b>		
	Destruction of palaeontological material, archaeological remains, graves and built environment features.	Low (-)	Low (-)
	Loss of significance through erosion of visual qualities and integrity of cultural landscape.	High (-)	Medium (-)
	Destruction of archaeological remains, graves and built environment	High (-)	Medium (-)

Specialist Study	Impact	Pre-Mitigation Rating	Post Mitigation Rating
	<b>Operational Phase:</b>		
	Destruction of archaeological remains, graves and built environment features	Very Low (-)	Very Low (-)
	Loss of significance through erosion of visual qualities and integrity of cultural landscape	High (-)	Medium (-)
	Destruction of archaeological remains, graves and built environment	High (-)	Medium (-)
	<b>Decommissioning Phase:</b>		
	Destruction of archaeological remains, graves and built environment features	Low (-)	Very Low (-)
	Loss of significance through erosion of visual qualities and integrity of cultural landscape	Low (-)	Low (-)
	Destruction of archaeological remains, graves and built environment	Low (-)	Low (-)
	<b>Cumulative Impacts:</b>		
	Destruction of palaeontological material within the Abrahamskraal Formation, archaeological remains, graves and built environment features (from direct and indirect impacts)	High (-)	Medium (-)
Loss of significance through erosion of visual qualities and integrity of cultural landscape	High (-)	Medium (-)	
<b>Palaeontology</b>	<b>Construction Phase:</b>		
	Disturbance, damage or destruction of fossils	Very Low (-)	Very Low (-)
	<b>Cumulative Impact:</b>		
	Disturbance, damage or destruction of significant fraction of fossil heritage within the lower Abrahamskraal Formation (Karoo Supergroup)	Very Low (-)	Very Low (-)
<b>Noise</b>	<b>Construction Phase:</b>		
	Noise impact from the construction of the WEF	Very Low (-)	Very Low (-)
	<b>Operational Phase:</b>		
	Noise impact from the operation of the wind turbines	Very Low (-)	Very Low (-)
	<b>Decommissioning Phase:</b>		
	Noise impact from the decommissioning of the wind turbines	Very Low (-)	Very Low (-)
	<b>Cumulative Impact:</b>		
	Noise impact from the operation of the wind turbines	Very Low (-)	Very Low (-)
<b>Socio-Economic</b>	<b>Construction Phase:</b>		

Specialist Study	Impact	Pre-Mitigation Rating	Post Mitigation Rating
	Economy will be stimulated due to capital investment and resultant increased production	High (+)	High (+)
	Unemployment figures will slightly decrease due to jobs created	Low (+)	Low (+)
	Skills levels in municipalities and for benefitting individuals will improve due to employment created	Low (+)	Medium (+)
	Movement of vehicles and workers may change livestock habits and ranges	Low (-)	Very Low (-)
	Employment due to wind farm construction work will result in household income earnings for benefitting households	Low (+)	Low (+)
	The in-migration of migrant labour and job seekers will place pressure on local government to adequately provide housing, services and social facilities	Low (-)	Very Low (-)
	The increased number of people on site creates potential for theft, particularly livestock theft	Medium (-)	Low (-)
	The rates, payroll taxes and Value Added Tax paid to local government will increase government revenue	Low (+)	Low (+)
	Diseases, substance abuse and other social ills could increase leading to increased community dissatisfaction	Medium (-)	Low (-)
<b>Operational Phase:</b>			
	Expenditure associated with the operation of the wind farm will impact on production in the economy	Medium (+)	Medium (+)
	Operation and maintenance activities will create long term job opportunities	Very Low (+)	Very Low (+)
	Skills levels in municipality and for benefitting individuals will improve due to employment created	Very Low (+)	Very Low (+)
	Upliftment initiative will increase the local communities' access to basic services	Medium (+)	Medium (+)
	Employment in operations and maintenance of the windfarm will result in household income earnings for benefitting households	Very Low (+)	Very Low (+)
	The rates, payroll taxes and Value Added Tax paid to local government will increase government revenue	Very Low (+)	Very Low (+)
<b>Decommissioning Phase:</b>			
	The cost of the removal and disconnection of the wind turbines will stimulate economic activity	Very Low (+)	Very Low (+)
	Unemployment figures will slightly decrease due to jobs created for a short period of time	Very Low (+)	Very Low (+)
<b>Cumulative Impacts:</b>			

Specialist Study	Impact	Pre-Mitigation Rating	Post Mitigation Rating
	The influx into the region will possibly be immense due to the numerous projects in the area attracting migrant job seekers. This will increase the demand for services	Medium (-)	Low (-)
	The numerous projects will create a notable number of jobs	High (+)	High (+)
	Capital and operating expenditure of numerous projects will increase production in the economy	High (+)	High (+)
	Local roads upgraded as a result of numerous WEFs in the area	Low (+)	Low (+)
	Numerous upliftment initiatives will increase the local communities' access to basic services	Medium (+)	Medium (+)
<b>Surface Water<sup>24</sup></b>	<b>Construction Phase:</b>		
	Loss of watercourse vegetation, associated habitat and ecosystem services	Low (-)	N/A
	Transportation of construction materials can result in disturbances to soils, and increased risk of sedimentation/erosion	Low (-)	N/A
	Soil and stormwater contamination from oils and hydrocarbons originating from construction vehicles	Low (-)	N/A
	Earthworks could be potential sources of sediment, which may be transported as runoff into the downstream watercourse areas	Low (-)	N/A
	Exposure of soils, leading to increased runoff, and erosion, and thus increased sedimentation of the watercourses;	Low (-)	N/A
	Increased sedimentation of the watercourses, leading to smothering of vegetation associated in the watercourses; and	Low (-)	N/A
	Proliferation of alien and/or invasive vegetation as a result of disturbances	Low (-)	N/A
	Earthworks and exposure of soils could result in sedimentation of the watercourses, which may be transported as runoff into the downstream watercourse areas and may smother vegetation associated with the watercourses	Low (-)	N/A

<sup>24</sup> New Freshwater Ecological Assessment undertaken in October 2020 as part of Water Use Authorisation Process for proposed 99MW Oya WEF and 226MW Kudusberg WEF (**Appendix D5a**), as previous assessment undertaken in 2018 (Ekotruster, 2018 – **Appendix C8b**) did not meet Department of Water and Sanitation (DWS) requirements for Water Use Authorisations. 2020 Freshwater Assessment replaces original Surface Water Impact Assessment for Kudusberg WEF Project, which was compiled in 2018 (BlueScience, 2018), and results of rating of impacts is presented in this table. In addition, results of rating of impacts undertaken as part of 2020 Freshwater Ecological Assessment (du Preez, 2020) presented in **Table 12**. Should also be noted that separate risk assessment undertaken for assessing road's risk significance on watercourses was subsequently included in Freshwater Ecological Assessment Report (**Appendix D5a**). Where project changes resulted in changes / amendments to rating of impacts, these have been reflected in this table and underlined.



Specialist Study	Impact	Pre-Mitigation Rating	Post Mitigation Rating
	Earthworks and exposure of soils could result in sedimentation of the watercourses, which may be transported as runoff into the downstream watercourse areas and may smother vegetation associated with the watercourses	Medium (-)	Low (-)
	Disturbances of soils leading to increased alien vegetation proliferation within the terrestrial buffer zone surrounding the watercourses, with the potential to affect the watercourse habitat	Low (-)	N/A
	Altered runoff patterns within the local catchment of the watercourses, potentially leading to increased erosion and sedimentation of the watercourses	Low (-)	N/A
	Potential impacts on the water quality of surface water runoff (when present) which may potentially enter the watercourses and contamination of soils due to concrete casting	Low (-)	N/A
	Potential of backfill material entering the watercourses, increasing the sediment loads therein	Low (-)	N/A
	Earthworks could be potential sources of sediment, which may be transported as runoff into the downstream reach of the watercourse	Low (-)	N/A
	Disturbances of soils leading to increased alien vegetation proliferation within the watercourses, thus impacting on the watercourse habitat	Medium (-)	Low (-)
	Altered runoff patterns within the watercourses, potentially leading to increased erosion and sedimentation of the watercourses	Medium (-)	Low (-)
	Potential of imported materials to entering the watercourses, increasing the sediment loads therein	Medium (-)	Low (-)
<b>Operational Phase:</b>			
	Disturbance to soils and ongoing erosion as a result of periodic maintenance activities	Low (-)	N/A
	Altered water quality (if surface water is present) as a result of increased availability of pollutants	Low (-)	N/A
	Concentrated runoff from the road crossings leading to erosion and subsequent sedimentation of the watercourses (increase in the sediment load) and turbulent flows when surface water is present;	Low (-)	N/A
	Higher flood peaks into the watercourses due to reduced surface roughness in the watercourses	Low (-)	N/A
<b>Decommissioning Phase:</b>			
	Disturbance of soil and vegetation that established within the operational area	Low (-)	N/A

Specialist Study	Impact	Pre-Mitigation Rating	Post Mitigation Rating
<b>Transportation</b>	<b>Construction Phase:</b>		
	Traffic congestion	High (-)	Medium (-)
	Noise and dust pollution	High (-)	Medium (-)
	<b>Operational Phase:</b>		
	The traffic generated during this phase will be minimal and will have very little, if any impact on the surrounding road network		
	<b>Decommissioning Phase:</b>		
	Noise and dust pollution	Medium (-)	Medium (-)
	<b>Cumulative Impact:</b>		
Noise and dust pollution with the delivery of equipment, material and staff to site	High (-)	Medium (-)	
<b>Visual</b>	<b>Construction Phase:</b>		
	Visual intrusion and dust emissions	Medium (-)	Low (-)
	<b>Operational Phase:</b>		
	Visual intrusion, dust emissions and light pollution and glare	Medium (-)	Medium (-)
	<b>Decommissioning Phase:</b>		
	Visual intrusion and dust emissions	Medium (-)	Low (-)
	<b>Cumulative Impact:</b>		
	Visual intrusion and dust emissions	Medium (-)	Medium (-)
Visual intrusion, dust emissions and light pollution and glare	Medium (-)	Medium (-)	

In addition, the following specialists have undertaken detailed walk-throughs and micro-siting of the Oya WEF in accordance with the recommendations contained in the approved EMPr and in accordance with condition 29 of the EA<sup>10</sup>:

- Avifauna;
- Bats;
- Surface Water / Aquatic
- Ecology; and
- Heritage (including Archaeology, Palaeontology and Cultural Landscapes).

The above-mentioned walk-throughs were undertaken to identify any additional sensitive / “no-go” areas based on the final layout and/or any other special features which need to be avoided. Furthermore, the necessary specialists were commissioned to compile the requisite management plans detailed in the EMPr<sup>8</sup>. The above-mentioned specialist walk-through reports are provided in **Appendix D**.

### 3 PROPOSED AMENDMENTS

#### 3.1 Changes to Authorised Elements of the Project

As previously mentioned, Kudusberg Wind Farm is proposing to submit a Part 2 EA Amendment Application to split the authorised Kudusberg WEF into two (2) separate smaller WEF projects, namely the Kudusberg WEF and Oya WEF, which will result in a number of technical and administrative changes as detailed in **Table 9** below. The split is being proposed to allow the projects to be suitable for numerous opportunities such as either the REIPPPP, RMIPPPP, other government run procurement programmes that may arise or for sale to private entities, if enabled and/or required in the drive for energy security in South Africa.

Following the split, the northern section of the authorised WEF will become the Oya WEF (**Figure 4**), while the southern section of the authorised WEF will remain known as the Kudusberg WEF (authorised under 14/12/16/3/3/1/1976/AM1) (**Figure 3**) (**Table 9**). In addition to the split, the final layout for the Oya WEF is being submitted which has been informed by detailed specialist walk-throughs and on-site micro-siting as per condition 29 of the Kudusberg EA<sup>10</sup>. Furthermore, the approved EMPr authorised as part of the Kudusberg EA is being amended to each WEF. The Oya WEF EMPr (**Appendix I1**) is being amended to incorporate the final layout for the Oya WEF, management plans<sup>8</sup> and the walk-throughs.

The proposed amendments in themselves are not listed activities according to Government Notice (GN) R326, R327, R325 and R324 of the EIA Regulations (as amended on 07 April 2017), and do not trigger any new listed activity. In addition, the proposed amendments to the Kudusberg WEF are within the original authorised development footprint, while the proposed amendments also do not change the scope of the EA<sup>15</sup>. Although the proposed amendments will result in changes to the authorised project description, the proposed amendments could also potentially change the impacts previously identified.

Accordingly, the specialists were commissioned to assess the impacts associated with the proposed amendments and re-evaluate the findings of the specialist studies undertaken as part of the original 2018 BA process for the Kudusberg WEF. In addition, Ecological, Avifaunal, Bat, Surface Water and Heritage (including Archaeology, Palaeontology and Cultural Landscapes) specialists have undertaken detailed walk-throughs and micro-siting of the Oya WEF in accordance with the recommendations contained in the approved EMPr and in accordance with condition 29 of the EA<sup>10</sup>. These walk-throughs were undertaken to identify any additional sensitive / “no-go” areas based on the final layout and/or any

other special features which need to be avoided. Furthermore, the necessary specialists were commissioned to compile the requisite management plans detailed in the EMPr<sup>8</sup>.

The amendments proposed for each of the two (2) WEFs mentioned above are detailed in **Table 9** below as well as the location of the of the authorised aspects and the proposed amendments in relation to the original EA.

**Table 9:** Details of the authorised WEF and the split of the EA between Oya WEF and Kudusberg WEF

Aspect to be amended	Authorised	Proposed Amendment		EA Reference
		Oya WEF	Kudusberg WEF	
<b>Administrative Aspects</b>				
<b>Amend the holder of the EA's</b>	Kudusberg Wind Farm (Pty) Ltd	Oya Energy (Pty) Ltd	Kudusberg Wind Farm (Pty) Ltd	Pages 1 and 2 of EA dated 25 March 2019 (pages 1, 3 and 4 of full document)
<b>Amend the name of the WEFs</b>	Kudusberg Wind Energy Facility	Oya Wind Energy Facility	Kudusberg Wind Energy Facility	Pages 1, 9 and 10 of EA dated 25 March 2019 (pages 1, 3, 11 and 12 of full document)
<b>Contact Details</b>	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	<a href="mailto:oya@g7energies.com">oya@g7energies.com</a>	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	Page 2 of EA dated 25 March 2019 (pages 1 and 4 of full document)
<b>Extend the validity of the EA</b>	This activity must commence within a period of five (05) years from the date of issue of this environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	Page 11 of EA dated 25 March 2019 (page 13 of full document)
<b>Location of Activity and SG codes</b>	<b>Western Cape</b> 1. Portion 1 of 156 Gats Rivier Farm: C01900000000015600001 2. Portion 3 of 156 Gats Rivier Farm: C01900000000015600002 3. Remainder of 156 Gats Rivier Farm: C01900000000015600000 4. Portion 1 of 157 Riet Fontein Farm: C01900000000015700001 5. Portion 1 of 158 Amandelbloom Farm: C01900000000015800001 6. Remainder of 158 Amandelboom Farm: C01900000000015800000 7. Portion 1 of 159 Oliviers Berg Farm: C01900000000015900001	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C01900000000015600001 2. Portion 2 of the Farm Gats Rivier No 156: C01900000000015600002 3. Remainder of the Farm Gats Rivier No 156: C01900000000015600000 4. Portion 1 of the Farm Riet Fontein No 157: C01900000000015700001 5. Portion 2 of the Farm Riet Fontein No 157: C01900000000015700002 6. Portion 1 of the Farm Amandelbloom No 158: C01900000000015800001 7. Remainder of the Farm Amandelboom No 158: C01900000000015800000	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C01900000000015600001 2. Remainder of the Farm Gats Rivier No 156: C01900000000015600000 3. Portion 1 of the Farm Oliviers Berg No 159; C01900000000015900001 4. Remainder of the Farm Oliviers Berg No 159: C01900000000015900000 5. Klipbanks Fontein No 395: C01900000000039500000 6. Remainder of the Farm Muishond Rivier No 159: C01900000000016100000  <b>Northern Cape</b> 7. Remainder of the Farm Karee Kloof No 196: C07200000000019600000 8. Remainder of the Farm Matjes Fontein No 194: C07200000000019400000  <b>Properties affected by public road:</b>	Page 7 – 8 of EA dated 25 March 2019 (page 9 - 10 of full document)

**KUDUSBERG WIND FARM (PTY) LTD**

Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

prepared by: SiVEST Environmental

	<p>8. Remainder of 159 Oliviers Berg Farm: C0190000000015900000</p> <p>9. Portion 2 of 157 Riet Fontein Farm: C0190000000015700002</p> <p>10. Remainder of 161 Muishond Rivier Farm: C0190000000016100000</p> <p>11. Remainder of 395 Klipbanks Fontein Farm: C0190000000019500000</p> <p><b>Northern Cape</b></p> <p>12. Portion 4 of 193 Urias Gat Farm: C0720000000019300004</p> <p>13. Portion 6 of 193 Urias Gat Farm: C0720000000019300006</p> <p>14. Remainder of 193 Urias Gat Farm: C0720000000019300000</p> <p>15. Remainder of 194 Matjes Fontein Farm: C0720000000019400000</p> <p>16. Remainder of 196 Karree Kloof Farm: C0720000000019600000</p> <p><b>Properties affected by public road:</b></p> <p>17. 169 Zeekoegat Farm: C0720000000016900000</p> <p>18. Portion 1 of 170 Roodeheuveld Farm: C0720000000017000001</p> <p>19. Remainder of 170 Roodeheuveld Farm: C0720000000017000000</p>	<p>8. Portion 1 of the Farm Oliviers Berg No 159: C0190000000015900001</p> <p>9. Remainder of the Farm Oliviers Berg No 159: C0190000000015900000</p> <p><b>Northern Cape</b></p> <p>10. Portion 4 of the Farm Urias Gat No 193: C0720000000019300004</p> <p>11. Portion 6 of the Farm Urias Gat No 193: C0720000000019300006</p> <p>12. Remainder of the Farm Urias Gat No 193: C0720000000019300000</p> <p>13. Remainder of the Farm Matjes Fontein No 194: C0720000000019400000</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p><b>Properties affected by access road:</b></p> <p>15. Zeekoegat Farm No 169: C0720000000016900000</p> <p>16. Portion 1 of the Farm Roodeheuveld No 170: C0720000000017000001</p> <p>17. Remainder of the Farm Roodeheuveld No 170: C0720000000017000000</p> <p>18. Remainder of the Farm Wind Heuveld No 190: C0720000000019000000</p> <p>19. Portion 1 of the Farm Wind Heuveld No 190: C0720000000019000001</p>	<p>9. Zeekoegat Farm No 169: C0720000000016900000</p> <p>10. Portion 1 of the Farm Roodeheuveld No 170: C0720000000017000001</p> <p>11. Remainder of the Farm Roodeheuveld No 170: C0720000000017000000</p> <p>12. Remainder of the Farm Wind Heuveld No 190: C0720000000019000000</p> <p>13. Portion 1 of the Farm Wind Heuveld No 190: C0720000000019000001</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p>15. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p> <p>16. The Farm Alkant No 220: C0720000000022000000</p> <p>17. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p>	
--	---	---	---	--

	<p>20. Remainder of 190 Wind Heuvel Farm: C0720000000019000000</p> <p>21. Portion 1 of 190 Wind Heuvel Farm: C0720000000019000001</p> <p>22. Portion 5 of 193 Urias Gat Farm: C0720000000019300005</p> <p>23. Remainder of 171 Vinke Kuil Farm: C0720000000017100000</p> <p>24. Alkant Re/220 Farm: C0720000000022000000</p> <p>25. Portion 1 of 174 Lange Huis Farm: C0720000000017400001</p>	<p>20. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p>21. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p> <p>22. Alkant Farm No 220: C0720000000022000000</p> <p>23. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p> <p>24. <u>Remainder of the Farm Baakens Rivier No. 155:</u> <u>C0190000000015500000</u></p>		
<p><b>Co-ordinates</b></p>	<p><b>Centre:</b> 32°50' 56.0868"S 20°19' 25.0608"E</p> <p><b>North:</b> 32°40' 29.8812"S 20°24' 57.78"E</p> <p><b>East:</b> 32°43' 53.8212"S 20°29' 32.28"E</p> <p><b>South-East:</b> 32°54' 6.66"S 20°23' 3.7788"E</p> <p><b>South-West:</b> 32°55'32.0412"S 20°16'24.8988"E</p> <p><b>West:</b> 32°52' 12.7812"S 20°14' 20.6988"E</p>	<p><b>APPLICATION SITE:</b> <b>Coordinates at Corner Points (DD MM SS.sss)</b></p> <ol style="list-style-type: none"> <li>S32° 46' 11.757" E20° 21' 39.554"</li> <li>S32° 45' 55.571" E20° 23' 32.919"</li> <li>S32° 47' 3.530" E20° 23' 8.115"</li> <li>S32° 48' 14.853" 20° 23' 15.057"</li> <li>S32° 48' 7.939" 20° 25' 19.086"</li> <li>S32° 49' 44.075" E20° 24' 59.144"</li> <li>S32° 50' 41.159" E20° 24' 13.445"</li> <li>S32° 53' 6.441" E20° 21' 52.752"</li> <li>S32° 53' 8.532" E20° 21' 53.539"</li> <li>S32° 54' 36.732" E20° 21' 50.816"</li> <li>S32° 55' 2.170" E20° 18' 58.064"</li> </ol>	<p><b>APPLICATION SITE:</b> <b>Coordinates at Corner Points (DD MM SS.sss)</b></p> <ol style="list-style-type: none"> <li>S32° 48' 14.853" E20° 23' 15.057"</li> <li>S32° 48' 7.939" E20° 25' 19.086"</li> <li>S32° 49' 44.075" E20° 24' 59.144"</li> <li>S32° 50' 41.159" E20° 24' 13.445"</li> <li>S32° 50' 46.823" E20° 24' 24.286"</li> <li>S32° 54' 9.411" E20° 24' 22.544"</li> <li>S32° 54' 48.192" E20° 23' 53.935"</li> <li>S32° 56' 23.562" E20° 26' 18.389"</li> <li>S32° 57' 26.788" E20° 24' 38.101"</li> <li>S32° 56' 35.721" E20° 22' 48.877"</li> <li>S32° 56' 42.813" E20° 21' 46.490"</li> </ol>	<p>Page 8 – 9 of EA dated 25 March 2019 (page 10 - 11 of full document)</p>

		<p>12. <u>S32° 54' 57.184"</u> <u>E20° 17' 28.053"</u></p> <p>13. <u>S32° 55' 48.840"</u> <u>E20° 14' 21.666"</u></p> <p>14. <u>S32° 55' 7.517"</u> <u>E20° 13' 55.356"</u></p> <p>15. <u>S32° 54' 28.981"</u> <u>E20° 13' 34.753"</u></p> <p>16. <u>S32° 54' 34.507"</u> <u>E20° 12' 20.205"</u></p> <p>17. <u>S32° 55' 13.194"</u> <u>E20° 12' 15.385"</u></p> <p>18. <u>S32° 56' 3.895"</u> <u>E20° 12' 26.330"</u></p> <p>19. <u>S32° 56' 12.929"</u> <u>E20° 11' 16.988"</u></p> <p>20. <u>S32° 55' 38.363"</u> <u>E20° 9' 20.611"</u></p> <p>21. <u>S32° 54' 56.533"</u> <u>E20° 9' 15.790"</u></p> <p>22. <u>S32° 54' 45.536"</u> <u>E20° 8' 55.471"</u></p> <p>23. <u>S32° 54' 18.000"</u> <u>E20° 9' 11.192"</u></p> <p>24. <u>S32° 54' 13.557"</u> <u>E20° 9' 23.325"</u></p> <p>25. <u>S32° 53' 59.701"</u> <u>E20° 9' 41.082"</u></p> <p>26. <u>S32° 53' 54.356"</u> <u>E20° 9' 40.992"</u></p> <p>27. <u>S32° 52' 11.464"</u> <u>E20° 12' 21.280"</u></p> <p>28. <u>S32° 52' 9.896"</u> <u>E20° 14' 16.133"</u></p> <p>29. <u>S32° 51' 10.304"</u> <u>E20° 13' 32.215"</u></p> <p>30. <u>S32° 51' 0.223"</u> <u>E20° 12' 19.238"</u></p> <p>31. <u>S32° 50' 51.343"</u> <u>E20° 12' 14.058"</u></p> <p>32. <u>S32° 50' 33.384"</u> <u>E20° 12' 39.312"</u></p>	<p>12. S32° 57' 27.491" E20° 19' 50.038"</p> <p>13. S32° 59' 45.215" E20° 19' 58.513"</p> <p>14. S32° 59' 5.070" E20° 17' 15.888"</p> <p>15. S32° 59' 11.874" E20° 16' 34.719"</p> <p>16. S32° 57' 11.539" E20° 15' 29.007"</p> <p>17. S32° 55' 48.840" E20° 14' 21.666"</p> <p>18. S32° 55' 23.944" E20° 15' 52.693"</p> <p>19. S32° 52' 9.370" E20° 14' 54.031"</p> <p>20. S32° 52' 4.579" E20° 15' 50.647"</p> <p>21. S32° 51' 44.360" E20° 16' 19.552"</p> <p>22. S32° 51' 27.665" E20° 17' 16.598"</p> <p>23. S32° 51' 31.913" E20° 20' 32.550"</p> <p>24. S32° 50' 41.238" E20° 19' 54.404"</p> <p>25. S32° 49' 35.741" E20° 21' 44.517"</p> <p><b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b></p> <p>26. S32° 54' 10.102" 27. E20° 20' 14.737"</p> <p><b>CONSTRUCTION CAMP:</b> <b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b> <b>CENTRE:</b> S32° 51' 46.797" E20° 21' 16.710"</p> <p><b><u>Coordinates at Corner Points:</u></b> <b>CC1_01:</b> S32° 51' 41.254"</p>	
--	--	---	---	--



		<p>33. <u>S32° 50' 21.482"</u> <u>E20° 12' 33.983"</u></p> <p>34. <u>S32° 49' 38.848"</u> <u>E20° 13' 6.405"</u></p> <p>35. <u>S32° 50' 5.733"</u> <u>E20° 15' 50.817"</u></p> <p>36. <u>S32° 47' 57.718"</u> <u>E20° 15' 25.332"</u></p> <p>37. <u>S32° 48' 16.924"</u> <u>E20° 17' 59.136"</u></p> <p>38. <u>S32° 50' 12.452"</u> <u>E20° 19' 31.355"</u></p> <p>39. <u>S32° 47' 54.581"</u> <u>E20° 20' 57.293"</u></p> <p>40. <u>S32° 48' 1.255"</u> <u>E20° 21' 9.303"</u></p> <p>41. <u>S32° 47' 54.387"</u> <u>E20° 21' 10.181"</u></p> <p>42. <u>S32° 47' 24.673"</u> <u>E20° 21' 0.698"</u></p> <p>43. <u>S32° 47' 17.149"</u> <u>E20° 21' 13.982"</u></p> <p>44. <u>S32° 46' 59.938"</u> <u>E20° 21' 22.475"</u></p> <p>45. <u>S32° 46' 56.504"</u> <u>E20° 21' 29.064"</u></p> <p><b><u>Coordinates at Centre Point (DD MM SS,sss)</u></b></p> <p>26. <u>S32° 51' 45.765"</u> <u>E20° 17' 43.464"</u></p> <p><b><u>CONSTRUCTION CAMP: Coordinates at Centre Point (DD MM SS,sss)</u></b></p> <p>CENTRE: S32° 47' 36.876" E20° 21' 23.588"</p> <p><b><u>Coordinates at Corner Points:</u></b></p> <p><b>CC1_01:</b> S32° 47' 28.108" E20° 21' 19.647"</p> <p><b>CC1_02:</b> S32° 47' 28.329" E20° 21' 28.144"</p>	<p>E20° 21' 2.209"</p> <p><b>CC1_02:</b> S32° 51' 40.895" E20° 21' 11.315"</p> <p><b>CC1_03:</b> S32° 51' 46.466" E20° 21' 19.638"</p> <p><b>CC1_04:</b> S32° 51' 45.812" E20° 21' 26.156"</p> <p><b>CC1_05:</b> S32° 51' 47.063" E20° 21' 32.475"</p> <p><b>CC1_06:</b> S32° 51' 50.861" E20° 21' 30.264"</p> <p><b>CC1_07:</b> S32° 51' 51.339" E20° 21' 26.005"</p> <p><b>CC1_08:</b> S32° 51' 53.100" E20° 21' 24.630"</p> <p><b>CC1_09:</b> S32° 51' 43.651" E20° 21' 0.749"</p> <p><b>SUBSTATION: Coordinates at Corner Points (DD MM SS,sss):</b></p> <p><b>SS1_01:</b> S32° 52' 4.061" E20° 21' 48.372"</p> <p><b>SS1_02:</b> S32° 52' 10.456" E20° 21' 53.934"</p> <p><b>SS1_03:</b> S32° 52' 15.215" E20° 21' 45.714"</p> <p><b>SS1_04:</b> S32° 52' 9.014" E20° 21' 40.229"</p> <p><b><u>Coordinates at Centre Point (DD MM SS,sss):</u></b></p> <p><b>CENTRE:</b> S32° 52' 9.655" E20° 21' 47.079"</p>	
--	--	---	--	--

		<p><b>CC1_03:</b> S32° 47' 45.815" E20° 21' 27.943"</p> <p><b>CC1_04:</b> S32° 47' 45.598" E20° 21' 19.332"</p> <p><b>CC1_05:</b> S32° 47' 43.103" E20° 21' 20.053"</p> <p><b>CC1_06:</b> S32° 47' 40.376" E20° 21' 20.085"</p> <p><b>CC1_07:</b> S32° 47' 38.132" E20° 21' 19.168"</p> <p><b>CC1_08:</b> S32° 47' 35.632" E20° 21' 19.015"</p> <p><b>CC1_09:</b> S32° 47' 34.407" E20° 21' 18.760"</p> <p><b>SUBSTATION:</b> <b>Coordinates at Centre Point (DD</b> <b>MM SS.sss):</b> <b>CENTRE:</b> S32° 54' 24.333" E20° 12' 28.366" <b>Coordinates at Corner Points (DD</b> <b>MM SS.sss):</b> <b>SS1_01:</b> S32° 54' 19.886" E20° 12' 26.843" <b>SS1_02:</b> S32° 54' 23.125" E20° 12' 33.613" <b>SS1_03:</b> S32° 54' 28.772" E20° 12' 29.816" <b>SS1_04:</b> S32° 54' 25.569" E20° 12' 23.122"</p>		
Technical Aspects				
Aspect to be amended	Authorised	Proposed Amendment		Motivation
		Oya WEF	Kudusberg WEF	
Overall Capacity	325 MW	<u>99 MW</u>	<u>226 MW</u>	Pages 1, 4 (Row 5 of listed activities table), 9 and 10 of EA dated 25 March 2019 (pages 1, 3, 6, 11 and 12 of full document), Row 4 of technical details table

<b>Number of turbines</b>	56	<u>18</u>	<u>38</u>	Page 10 of EA dated 25 March 2019 (page 12 of full document), Row 11 of technical details table
<b><u>Turbine numbers falling within WEF<sup>14</sup></u></b>	<u>Turbine numbers 1 - 56</u>	<u>Turbine numbers 1 - 20</u>	<u>Turbine numbers 1 - 36</u>	N/A – not part of original EA dated 25 March 2019
<b>Hub height</b>	Up to 140 m	<u>Up to 101 m above the foundation</u>	No Change i.e. up to 140 m	Page 9 of EA (page 11 of full document), Row 1 of technical details table
<b>Rotor diameter</b>	Up to 180 m	<u>Up to 158 m</u>	No Change i.e. up to 180 m	Page 9 of EA (page 11 of full document) dated 25 March 2019, Row 2 of technical details table
<b>Blade length</b>	Up to 90 m	<u>Up to 79 m</u>	No Change i.e. up to 90 m	Page 9 of EA (page 11 of full document) dated 25 March 2019, Row 3 of technical details table
<b>Wind Measuring Lattice Masts</b>	Up to 4 x 140 m high depending the final hub height	<u>2 x height of the hub height</u>	2 x up to 140 m high depending the final hub height	Page 10 of EA (page 12 of full document) dated 25 March 2019, Row 13 of technical details table
<b>Layout</b>	-	Layout submitted for final approval. The layout to be approved are contained in <b>Appendix J4</b> . Associated turbine GPS locations will be provided in the Final EA Amendment Report.	Final layout to be submitted prior to the start of construction	Page 14 and 15 of EA (pages 16 and 17 of full document) dated 25 March 2019
<b>EMPr</b>	The EMPr submitted as part of the Application for EA is hereby approved.	Approve Final EMPr	To be submitted based on final approval of layout.	Page 12 and 13 of EA (page 14 and 15 of full document) dated 25 March 2019

### 3.2 Motivation

Aspect to be amended	Authorised	Proposed Amendment		Motivation
		Oya WEF	Kudusberg WEF	
<b>Administrative Aspects</b>				
<b>Amend the holder of the EA's</b>	Kudusberg Wind Farm (Pty) Ltd	Oya Energy (Pty) Ltd	Kudusberg Wind Farm (Pty) Ltd	The Authorised project is being split into two (2) separate WEFs and as such, the name of the project is changing as well as ownership of the project is changing to be held by 2 separate SPVs. Therefore, the Applicant is requesting to amend the Holders of the EAs and their associated details.  This amendment request is administrative in nature and therefore no disadvantages are foreseen should the amendment be granted.
<b>Amend the name of the WEFs</b>	Kudusberg Wind Energy Facility	Oya Wind Energy Facility	Kudusberg Wind Energy Facility	
<b>Contact Details</b>	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	<a href="mailto:oya@g7energies.com">oya@g7energies.com</a>	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	
<b>Extend the validity of the EA</b>	This activity must commence within a period of five (05) years from the date of issue of this environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	The projects are intended to be suitable for numerous opportunities such as either the REIPPPP, RMIPPPP, other government run procurement programmes or for sale to private entities, if required. The announcement of the REIPPPP Bid 5 window has not yet been officiated. As such the exact date in which the projects will be bid, awarded preferred bidder and start construction is unknown.  The EAP in conjunction with the specialists assessed this amendment and confirmed that the EA can be extended with no disadvantages associated thereto.
<b>Location of Activity and SG codes</b>	<b>Western Cape</b> 1. Portion 1 of 156 Gats Rivier Farm: C019000000001560001 2. Portion 3 of 156 Gats River Farm: C019000000001560002	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C019000000001560001 2. Portion 2 of the Farm Gats Rivier No 156:	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C0190000000015600001 2. Remainder of the Farm Gats Rivier No 156: C0190000000015600000	The motivation for this proposed amendment is to change the location to include only the properties and infrastructure that are relevant to each proposed WEF after the split and remove surplus properties.

**KUDUSBERG WIND FARM (PTY) LTD**

Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

**prepared by: SiVEST Environmental**

	<p>3. Remainder of 156 Gats Rivier Farm: C0190000000015600000</p> <p>4. Portion 1 of 157 Riet Fontein Farm: C0190000000015700001</p> <p>5. Portion 1 of 158 Amandelboom Farm: C0190000000015800001</p> <p>6. Remainder of 158 Amandelboom Farm: C0190000000015800000</p> <p>7. Portion 1 of 159 Oliviers Berg Farm: C0190000000015900001</p> <p>8. Remainder of 159 Oliviers Berg Farm: C0190000000015900000</p> <p>9. Portion 2 of 157 Riet Fontein Farm: C0190000000015700002</p> <p>10. Remainder of 161 Muishond Rivier Farm: C0190000000016100000</p> <p>11. Remainder of 395 Klipbanks Fontein Farm: C0190000000019500000</p> <p><b>Northern Cape</b></p> <p>12. Portion 4 of 193 Urias Gat Farm: C0190000000019300000</p>	<p>C0190000000015600002</p> <p>3. Remainder of the Farm Gats Rivier No 156: C0190000000015600000</p> <p>4. Portion 1 of the Farm Riet Fontein No 157: C0190000000015700001</p> <p>5. Portion 2 of the Farm Riet Fontein No 157: C0190000000015700002</p> <p>6. Portion 1 of the Farm Amandelboom No 158: C0190000000015800001</p> <p>7. Remainder of the Farm Amandelboom No 158: C0190000000015800000</p> <p>8. Portion 1 of the Farm Oliviers Berg No 159: C0190000000015900001</p> <p>9. Remainder of the Farm Oliviers Berg No 159: C0190000000015900000</p> <p><b>Northern Cape</b></p> <p>10. Portion 4 of the Farm Urias Gat No 193: C072000000001930004</p> <p>11. Portion 6 of the Farm Urias Gat No 193: C072000000001930006</p>	<p>3. Portion 1 of the Farm Oliviers Berg No 159: C0190000000015900001</p> <p>4. Remainder of the Farm Oliviers Berg No 159: C0190000000015900000</p> <p>5. Klipbanks Fontein No 395: C0190000000039500000</p> <p>6. Remainder of the Farm Muishond Rivier No 159: C0190000000016100000</p> <p><b>Northern Cape</b></p> <p>7. Remainder of the Farm Karee Kloof No 196: C0720000000019600000</p> <p>8. Remainder of the Farm Matjes Fontein No 194: C0720000000019400000</p> <p><b>Properties affected by public road:</b></p> <p>9. Zeekoegat Farm No 169: C0720000000016900000</p> <p>10. Portion 1 of the Farm Roodeheuvel No 170: C0720000000017000001</p> <p>11. Remainder of the Farm Roodeheuvel No 170: C0720000000017000000</p> <p>12. Remainder of the Farm Wind Heuvel No 190: C0720000000019000000</p> <p>13. Portion 1 of the Farm Wind Heuvel No 190: C0720000000019000001</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p>15. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p>	<p>There is no disadvantage to this proposed amendment as the number of involved properties largely remains the same, they are just being split between the two (2) proposed WEFs. <u>The number of affected properties for the Kudusberg WEF remains the same, while only one (1) additional property has been included for the proposed Oya WEF. All affected properties for the Kudusberg WEF as well as majority of the properties affected by the Oya WEF (apart from 1 additional property) were assessed by the respective specialists as part of the original BA process for the authorised Kudusberg WEF and were authorized as such. The additional property included for the Oya WEF was also assessed by the respective specialists as part of this part 2 EA amendment process, including specialist walk-throughs for the proposed Oya WEF layout, and thus the layout has been informed by identified sensitive / "no-go" areas.</u></p> <p>Once again, the nature of the split can be seen as merely administrative to avoid issues during construction periods. The EAP in conjunction with the specialists assessed this amendment and confirmed that there are no disadvantages associated thereto.</p>
--	--	--	---	--

	<p>C0720000000019300004</p> <p>13. Portion 6 of 193 Urias Gat Farm: C0720000000019300006</p> <p>14. Remainder of 193 Urias Gat Farm: C0720000000019300000</p> <p>15. Remainder of 194 Matjes Fontein Farm: C0720000000019400000</p> <p>16. Remainder of 196 Karree Kloof Farm: C0720000000019600000</p> <p><b>Properties affected by public road:</b></p> <p>17. 169 Zeekoegat Farm: C0720000000016900000</p> <p>18. Portion 1 of 170 Roodeheuvel Farm: C0720000000017000001</p> <p>19. Remainder of 170 Roodeheuvel Farm: C0720000000017000000</p> <p>20. Remainder of 190 Wind Heuvel Farm: C0720000000019000000</p> <p>21. Portion 1 of 190 Wind Heuvel Farm: C0720000000019000001</p> <p>22. Portion 5 of 193 Urias Gat Farm:</p>	<p>12. Remainder of the Farm Urias Gat No 193: C0720000000019300000</p> <p>13. Remainder of the Farm Matjes Fontein No 194: C0720000000019400000</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p><b>Properties affected by access road:</b></p> <p>15. Zeekoegat Farm No 169: 0720000000016900000</p> <p>16. Portion 1 of the Farm Roodeheuvel No 170: C0720000000017000001</p> <p>17. Remainder of the Farm Roodeheuvel No 170: C0720000000017000000</p> <p>18. Remainder of the Farm Wind Heuvel No 190: C0720000000019000000</p> <p>19. Portion 1 of the Farm Wind Heuvel No 190: C0720000000019000001</p> <p>20. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p>	<p>16. The Farm Alkant No 220: C0720000000022000000</p> <p>17. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p>	
--	---	--	--	--

	<p>C0720000000019300005</p> <p>23. Remainder of 171 Vinke Kuil Farm: C0720000000017100000</p> <p>24. Alkant Re/220 Farm: C0720000000022000000</p> <p>25. Portion 1 of 174 Lange Huis Farm: C0720000000017400001</p>	<p>21. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p> <p>22. Alkant Farm No 220: C0720000000022000000</p> <p>23. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p> <p>24. Remainder of the Farm Baakens Rivier No. 155: C0190000000015500000</p>		
<b>Co-ordinates</b>	<p><b>Centre:</b> 32°50' 56.0868"S 20°19' 25.0608"E</p> <p><b>North:</b> 32°40' 29.8812"S 20°24' 57.78"E</p> <p><b>East:</b> 32°43' 53.8212"S 20°29' 32.28"E</p> <p><b>South-East:</b> 32°54' 6.66"S 20°23' 3.7788"E</p> <p><b>South-West:</b> 32°55' 32.0412"S 20°16' 24.8988"E</p> <p><b>West:</b> 32°52' 12.7812"S 20°14' 20.6988"E</p>	<p><b>APPLICATION SITE:</b> <b>Coordinates at Corner Points (DD MM SS.sss)</b></p> <ol style="list-style-type: none"> <li><u>S32° 46' 11.757"</u> <u>E20° 21' 39.554"</u></li> <li><u>S32° 45' 55.571"</u> <u>E20° 23' 32.919"</u></li> <li><u>S32° 47' 3.530"</u> <u>E20° 23' 8.115"</u></li> <li><u>S32° 48' 14.853"</u> <u>20° 23' 15.057"</u></li> <li><u>S32° 48' 7.939"</u> <u>20° 25' 19.086"</u></li> <li><u>S32° 49' 44.075"</u> <u>E20° 24' 59.144"</u></li> <li><u>S32° 50' 41.159"</u> <u>E20° 24' 13.445"</u></li> <li><u>S32° 53' 6.441"</u> <u>E20° 21' 52.752"</u></li> <li><u>S32° 53' 8.532"</u> <u>E20° 21' 53.539"</u></li> <li><u>S32° 54' 36.732"</u> <u>E20° 21' 50.816"</u></li> <li><u>S32° 55' 2.170"</u> <u>E20° 18' 58.064"</u></li> <li><u>S32° 54' 57.184"</u></li> </ol>	<p><b>APPLICATION SITE:</b> <b>Coordinates at Corner Points (DD MM SS.sss)</b></p> <ol style="list-style-type: none"> <li>S32° 48' 14.853" E20° 23' 15.057"</li> <li>S32° 48' 7.939" E20° 25' 19.086"</li> <li>S32° 49' 44.075" E20° 24' 59.144"</li> <li>S32° 50' 41.159" E20° 24' 13.445"</li> <li>S32° 50' 46.823" E20° 24' 24.286"</li> <li>S32° 54' 9.411" E20° 24' 22.544"</li> <li>S32° 54' 48.192" E20° 23' 53.935"</li> <li>S32° 56' 23.562" E20° 26' 18.389"</li> <li>S32° 57' 26.788" E20° 24' 38.101"</li> <li>S32° 56' 35.721" E20° 22' 48.877"</li> <li>S32° 56' 42.813" E20° 21' 46.490"</li> <li>S32° 57' 27.491"</li> </ol>	

		<p><u>E20° 17' 28.053"</u>  13. <u>S32° 55' 48.840"</u>  <u>E20° 14' 21.666"</u>  14. <u>S32° 55' 7.517"</u>  <u>E20° 13' 55.356"</u>  15. <u>S32° 54' 28.981"</u>  <u>E20° 13' 34.753"</u>  16. <u>S32° 54' 34.507"</u>  <u>E20° 12' 20.205"</u>  17. <u>S32° 55' 13.194"</u>  <u>E20° 12' 15.385"</u>  18. <u>S32° 56' 3.895"</u>  <u>E20° 12' 26.330"</u>  19. <u>S32° 56' 12.929"</u>  <u>E20° 11' 16.988"</u>  20. <u>S32° 55' 38.363"</u>  <u>E20° 9' 20.611"</u>  21. <u>S32° 54' 56.533"</u>  <u>E20° 9' 15.790"</u>  22. <u>S32° 54' 45.536"</u>  <u>E20° 8' 55.471"</u>  23. <u>S32° 54' 18.000"</u>  <u>E20° 9' 11.192"</u>  24. <u>S32° 54' 13.557"</u>  <u>E20° 9' 23.325"</u>  25. <u>S32° 53' 59.701"</u>  <u>E20° 9' 41.082"</u>  26. <u>S32° 53' 54.356"</u>  <u>E20° 9' 40.992"</u>  27. <u>S32° 52' 11.464"</u>  <u>E20° 12' 21.280"</u>  28. <u>S32° 52' 9.896"</u>  <u>E20° 14' 16.133"</u>  29. <u>S32° 51' 10.304"</u>  <u>E20° 13' 32.215"</u>  30. <u>S32° 51' 0.223"</u>  <u>E20° 12' 19.238"</u>  31. <u>S32° 50' 51.343"</u>  <u>E20° 12' 14.058"</u>  32. <u>S32° 50' 33.384"</u>  <u>E20° 12' 39.312"</u>  33. <u>S32° 50' 21.482"</u></p>	<p>E20° 19' 50.038"  13. S32° 59' 45.215"  E20° 19' 58.513"  14. S32° 59' 5.070"  E20° 17' 15.888"  15. S32° 59' 11.874"  E20° 16' 34.719"  16. S32° 57' 11.539"  E20° 15' 29.007"  17. S32° 55' 48.840"  E20° 14' 21.666"  18. S32° 55' 23.944"  E20° 15' 52.693"  19. S32° 52' 9.370"  E20° 14' 54.031"  20. S32° 52' 4.579"  E20° 15' 50.647"  21. S32° 51' 44.360"  E20° 16' 19.552"  22. S32° 51' 27.665"  E20° 17' 16.598"  23. S32° 51' 31.913"  E20° 20' 32.550"  24. S32° 50' 41.238"  E20° 19' 54.404"  25. S32° 49' 35.741"  E20° 21' 44.517"</p> <p><b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b>  26. S32° 54' 10.102"  27. E20° 20' 14.737"</p> <p><b>CONSTRUCTION CAMP: Coordinates at Centre Point (DD MM SS.sss) CENTRE:</b>  S32° 51' 46.797"  E20° 21' 16.710"</p> <p><b><u>Coordinates at Corner Points: CC1_01:</u></b></p>	
--	--	--	---	--



		<p><u>E20° 12' 33.983"</u> 34. <u>S32° 49' 38.848"</u> <u>E20° 13' 6.405"</u></p> <p>35. <u>S32° 50' 5.733"</u> <u>E20° 15' 50.817"</u></p> <p>36. <u>S32° 47' 57.718"</u> <u>E20° 15' 25.332"</u></p> <p>37. <u>S32° 48' 16.924"</u> <u>E20° 17' 59.136"</u></p> <p>38. <u>S32° 50' 12.452"</u> <u>E20° 19' 31.355"</u></p> <p>39. <u>S32° 47' 54.581"</u> <u>E20° 20' 57.293"</u></p> <p>40. <u>S32° 48' 1.255"</u> <u>E20° 21' 9.303"</u></p> <p>41. <u>S32° 47' 54.387"</u> <u>E20° 21' 10.181"</u></p> <p>42. <u>S32° 47' 24.673"</u> <u>E20° 21' 0.698"</u></p> <p>43. <u>S32° 47' 17.149"</u> <u>E20° 21' 13.982"</u></p> <p>44. <u>S32° 46' 59.938"</u> <u>E20° 21' 22.475"</u></p> <p>45. <u>S32° 46' 56.504"</u> <u>E20° 21' 29.064"</u></p> <p><b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b> 26. <u>S32° 51' 45.765"</u> <u>E20° 17' 43.464"</u></p> <p><b><u>CONSTRUCTION CAMP: Coordinates at Centre Point (DD MM SS.sss)</u></b> <b>CENTRE:</b> S32° 47' 36.876" E20° 21' 23.588" <b><u>Coordinates at Corner Points:</u></b> <b>CC1_01:</b> S32° 47' 28.108" E20° 21' 19.647" <b>CC1_02:</b> S32° 47' 28.329"</p>	<p>S32° 51' 41.254" E20° 21' 2.209" <b>CC1_02:</b> S32° 51' 40.895" E20° 21' 11.315" <b>CC1_03:</b> S32° 51' 46.466" E20° 21' 19.638" <b>CC1_04:</b> S32° 51' 45.812" E20° 21' 26.156" <b>CC1_05:</b> S32° 51' 47.063" E20° 21' 32.475" <b>CC1_06:</b> S32° 51' 50.861" E20° 21' 30.264" <b>CC1_07:</b> S32° 51' 51.339" E20° 21' 26.005" <b>CC1_08:</b> S32° 51' 53.100" E20° 21' 24.630" <b>CC1_09:</b> S32° 51' 43.651" E20° 21' 0.749"</p> <p><b>SUBSTATION: <u>Coordinates at Corner Points (DD MM SS.sss):</u></b> <b>SS1_01:</b> S32° 52' 4.061" E20° 21' 48.372" <b>SS1_02:</b> S32° 52' 10.456" E20° 21' 53.934" <b>SS1_03:</b> S32° 52' 15.215" E20° 21' 45.714" <b>SS1_04:</b> S32° 52' 9.014" E20° 21' 40.229" <b><u>Coordinates at Centre Point (DD MM SS.sss):</u></b> <b>CENTRE:</b> S32° 52' 9.655" E20° 21' 47.079"</p>	
--	--	---	--	--

		<p>E20° 21' 28.144"  <b>CC1_03:</b> S32° 47' 45.815"  E20° 21' 27.943"  <b>CC1_04:</b> S32° 47' 45.598"  E20° 21' 19.332"  <b>CC1_05:</b> S32° 47' 43.103"  E20° 21' 20.053"  <b>CC1_06:</b> S32° 47' 40.376"  E20° 21' 20.085"  <b>CC1_07:</b> S32° 47' 38.132"  E20° 21' 19.168"  <b>CC1_08:</b> S32° 47' 35.632"  E20° 21' 19.015"  <b>CC1_09:</b> S32° 47' 34.407"  E20° 21' 18.760"</p> <p><b>SUBSTATION:</b>  <u>Coordinates at Centre Point (DD MM SS.sss):</u>  <b>CENTRE:</b>  S32° 54' 24.333"  E20° 12' 28.366"  <u>Coordinates at Corner Points (DD MM SS.sss):</u></p> <p><b>SS1_01:</b>  S32 °54' 9.886"  E20° 12' 26.843"  <b>SS1_02:</b>  S32° 54' 3.125"  E20°12'33.613"  <b>SS1_03:</b>  S32°54' 28.772"  E20° 12' 29.816"  <b>SS1_04:</b>  S32° 54' 25.569"  E20° 12' 23.122"</p>		
--	--	--	--	--

Technical Aspects				
Aspect to be amended	Authorised	Proposed Amendment		Motivation
		Oya WEF	Kudusberg WEF	
Overall Capacity	325 MW	99 MW	226 MW	

<b>Number of turbines</b>	56	<u>18</u>	<u>38</u>	Each WEF project is intended to be suitable for numerous opportunities such as either the REIPPPP, RMIPPPP, other government run procurement programmes or for sale to private entities, if required.  Simultaneously, these amendments are proposed to increase the efficiency of the facility and consequently, the economic competitiveness thereof. The outcome is therefore the optimal use of the natural wind resource in the area to meet the country's energy demand, without expanding the development area.
<b>Turbine numbers falling within WEF<sup>14</sup></b>	<u>Turbine numbers 1 - 56</u>	<u>Turbine numbers 1 - 20</u>	<u>Turbine numbers 1 - 36</u>	
<b>Hub height</b>	Up to 140 m	<u>Up to 101m above the foundation</u>	No Change i.e. up to 140 m	
<b>Rotor diameter</b>	Up to 180 m	<u>Up to 158 m</u>	No Change i.e. up to 180 m	
<b>Blade length</b>	Up to 90 m	<u>Up to 79 m</u>	No Change i.e. up to 90 m	
<b>Layout</b>	-	Layout submitted for final approval. The layout to be approved are contained in <b>Appendix J4</b> . Associated turbine GPS locations will be provided in the Final EA Amendment Report.	Final layout to be submitted prior to the start of construction	The amended layout is more beneficial as wind turbines have been re-positioned outside of very high sensitivity areas. Simultaneously, these amendments are proposed to increase the efficiency of the facility and consequently, the economic competitiveness thereof. The outcome is therefore the optimal use of the natural wind resource in the area to meet the country's energy demand, without expanding the development area.  <b>Kudusberg WEF:</b> The proposed alignment and layout for this WEF is largely unchanged from the 2018 layout authorized as part of the EA. The total number of turbines proposed for this part of the project area increases from 26 to 38, with all new turbines located along ridge lines previously assessed by the specialist in 2018. The addition of the Construction camp has been added into the layout, although this is located in an area previously assessed as part of the original application and EA. All specialist and the EAP found that there were no additional

				<p>issues that arose as result of this layout or the proposed amendments.</p> <p><b>Oya WEF:</b> There is little substantive change in terms of turbine placement, and the number of turbines proposed for the area remains static. The final layout has been informed by optimising the site for inclusion of the WEF in the RMIPPPP specifically as well as finalising the site development plan. The layout was informed by wind monitoring results, specialist walk-throughs<sup>25</sup> and design considerations of the site, as well as economic efficiency considerations. All specialist assessed the final layout and found the layout to be acceptable from an environmental point of view and found no issues the associated amendments.</p>
<b>Wind Measuring Lattice Masts</b>	Up to 4 x 140 m high depending the final hub height	<u>2 x height of the hub height</u>	2 x up to 140 m high depending the final hub height	<p>In order to accurately measure the onsite wind resource during the operational phase, the met masts must be installed up to the same height as the hub height. This is required in order to accurately report on the wind energy generated during the operational phase of the facility. Furthermore, met masts are required for both WEF as such they have been split between the two proposed WEF.</p> <p>No disadvantages were identified for this proposed amendment.</p>
<b>EMPr</b>	The EMPr submitted as part of the Application for EA is hereby approved.	Approve Final EMPr	To be submitted based on final approval of layout.	The EMPr was approved as part of the authorised layout and is being updated to incorporate the required management plans, as well as the final layout for Oya.

<sup>25</sup> Condition 29 of Kudusberg EA (DEFF Ref: 14/12/16/3/3/1/1976/AM1) – Page 15 of EA (page 17 of full document): *the final placement of turbines must follow a micro siting procedure involving a walk-through and identification of any sensitive areas by ecological, avifaunal, bat, surface water and heritage specialists.*

				<p>The EMPr is also being split between each WEF ensuring that sound management procedures remain in place regardless of the split.</p> <p>The Oya EMPr, will include the final layout informed by the specialist walk-throughs and onsite micro-sighting.</p> <p>No disadvantages were identified for this proposed amendment as it contains and identifies all relevant impacts and associated mitigation measures with the proposed developments.</p>
--	--	--	--	--

## 4 IMPACTS RELATED TO PROPOSED AMENDMENTS

In order to ascertain if further input would be required in relation to the above-mentioned proposed amendments, each of the specialist studies conducted during the BA process of the development was investigated in terms of its applicability to the proposed amendments. In addition, several specialists (namely Avifauna, Bats, Surface Water, Ecology and Heritage) have undertaken detailed walk-throughs and micro-siting of the Oya WEF in accordance with the recommendations contained in the approved EMPr and in accordance with condition 29 of the EA<sup>10</sup>. These walk-throughs were undertaken to identify any additional sensitive / “no-go” areas based on the final layout and/or any other special features which need to be avoided. Furthermore, the necessary specialists were commissioned to compile the requisite management plans detailed in the EMPr<sup>8</sup>.

A summary of the Specialist’s findings commissioned as part of this amendment process is provided below.

**\*All specialists found that the project changes made after the submission of the Draft EA Amendment Assessment Report (as presented in Table 1) have no material impact on their findings. Furthermore, all specialists confirmed that the inclusion of the section of the existing road to the layout for the proposed Oya WEF was acceptable (i.e. would have no material impact on their findings). However, where the project changes resulted in updates and/or amendments to the specialist letters and/or walk-through reports (albeit minor), these have been reflected below and underlined. Additionally, where a letter was provided in order to address the project changes made after the submission of the Draft EA Amendment Assessment Report, this has also been provided below and underlined. The updated specialist reports and letters are provided in Appendix C and Appendix D respectively, with the respective specialist amendment letters and walk-through reports.**

**Table 10: Summary of Specialist Findings (amendment letters and walk-throughs)**

Environ. Parameter	Summary of findings	Additional Impact management measures
<p><b><u>Agriculture</u></b></p> <p><b>Johann Lanz</b> <b>Report dated <u>5 January 2021</u></b></p> <p>This document is an amendment to, and should be read together with, the original Agricultural Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in October 2018 (Lanz, 2018)</p>	<p style="text-align: center;"><b>Amendment Letter</b></p> <p>There are no additional agricultural impacts related to any of the proposed amendments listed in <b>Table 8</b>. All impacts identified in the original Agricultural report (2018) are still valid for the proposed amendments. The amendments and final layout will not change the nature or significance of any of the impacts assessed in the original study. There are no agricultural advantages or disadvantages related to the amendments. The agricultural impacts of the amended projects will therefore be identical to the impact for the authorised development, that was assessed in the original specialist assessment report.</p> <p>Conclusion of assessment is that the proposed amendments will have no agricultural impacts. No additional No-Go areas were identified as a result of this amendment. Therefore, from an agricultural impact point of view, the amendments and final layout should be authorised.</p>	<p>The amendment does not require any changes or additions to the mitigation measures for agricultural impacts that were recommended for the authorised development, and there are therefore no required changes to the EMP(s).</p>
<p><b><u>Avifauna</u></b></p> <p><b>BioInsight</b> <b>Letter dated <u>12 January 2021</u></b></p> <p>This document is an amendment to, and should be read together with, the original Avifauna Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in December 2018 (BioInsight, 2018)</p>	<p style="text-align: center;"><b>Amendment Letter</b></p> <p>Bioinsight finds that this split is merely administrative and should hold no significant impact on the bird community on site. It is also not envisaged that the conclusions of the final specialist impact assessment report (Bioinsight, 2018) will change, as a result of this split. This being said, however, it is noted that minor disadvantages may occur as a result of the split. As an example, the proposed split may potentially result in additional infrastructures being built (in comparison to what would exist in a single facility). This may potentially include (but not limited to) additional construction camps (estimated that two are to be built), batching plants, offices / control centres etc. In addition to this, it can also be noted that two separate smaller facilities will be assessed separately for real impacts during the operational phase. This could potentially result in a perception that few birds are potentially being impacted. Although challenging and potentially not possible (due to different bidding and construction times), it would be idea if the two facilities</p>	<p>No changes or additions to mitigation measures are proposed at this stage. It will however be important for all relevant management / mitigation measures, as described in Bioinsight (2018) to be strictly adhered to for each wind farm, independently. Wherever possible, it will also be useful for a relevant site walk-through to be conducted at both wind farms (Oya WEF walk-through already completed), prior to construction, in order to assess any relevant sensitivities against proposed infrastructures – for further approval of final site layouts.</p> <p>Given that the authorised project is to be split into two separate smaller ones, Bioinsight emphasises the importance that each individual wind farm must have its own unique monitoring plan with sampling design, going forward (to assess real impacts in the construction and/or post-construction phases).</p>

Environ. Parameter	Summary of findings	Additional Impact management measures
	<p>could be evaluated jointly (once both are in operation) in order to understand the real impact of all turbines in the area, collectively. Careful consideration should be taken with this, and both wind farms should ideally work closely together during the operational phase so that the relevant avifauna specialist(s) can have access to fatality data from both facilities, wherever possible. No specific advantages (as a result of the proposed split) for the bird community were identified at this stage.</p> <p>Bioinsight finds the split acceptable for the bird community on site. Additionally, we find our previous impact assessment (Bioinsight, 2018) for the authorised Kudusberg WEF to still be valid in present day conditions.</p>	
<p><b>BioInsight Walk-through Report dated January 2021</b></p> <p>This document is an amendment to, and should be read together with, the original Avifauna Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in December 2018 (BioInsight, 2018)</p>	<p style="text-align: center;"><b>Walk-through Report</b></p> <p>The pre-construction avifauna site walk-through at Oya WEF aimed to analyse the study area and proposed final layout against any old and potentially new sensitivities that may affect the bird community on site. This analysis was required to determine the acceptability of the final layout being proposed.</p> <p>After careful comparisons between the layout and on-site conditions observed today, it was determined that no new updates to the initial sensitivity analysis would be required, and that no fatal flaws to the project were identified. All habitats in the area remain the same as before, with the majority of the site being very homogenous and mostly dominated by large stretches of typical Karoo Scrub vegetation. No new species nests were found, and existing nests showed no signs of occupancy.</p> <p>No new areas to be avoided were identified, and all previously-identified no-go areas are still applicable under present day conditions. All turbine locations avoid the previously identified no-go areas, and the overlap of certain associated infrastructures are deemed acceptable for the project, given the nature and extent of these activities &amp; features – provided that all previously proposed mitigation/management measures are</p>	<p>As all present day conditions on site have been described as being the same as during the initial monitoring campaign, and as the proposed final layout is deemed acceptable against the pre-defined environmental sensitivities, no new specific management / monitoring plans have been identified to be included in the EMPr going forward, other than those already identified in the initial avifauna specialist assessment report – which are to be strictly adhered to.</p>



Environ. Parameter	Summary of findings	Additional Impact management measures
	<p>strictly adhered to. It is not expected for this project to cause an irreplaceable loss to biodiversity.</p> <p>In light of the above, it is our professional opinion that the proposed final layout for Oya WEF is considered to be acceptable and allowable for implementation, provided that all previously identified management / mitigation measures are strictly adhered to during all phases of the project. It is therefore considered allowable for the project and final layout to undergo approval for EA.</p>	
<p><b><u>Bats</u></b></p> <p><b>BioInsight Letter dated <u>12 January 2021</u></b></p> <p>This document is an amendment to, and should be read together with, the original Avifauna Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in December 2018 (BioInsight, 2018)</p>	<p style="text-align: center;"><b>Amendment Letter</b></p> <p>Bioinsight finds that this split is merely administrative and should hold no significant impact on the bat community on site. It is also not envisaged that the conclusions of the final specialist impact assessment report (Bioinsight, 2018) will change, as a result of this split. This being said, however, it is noted that minor disadvantages may occur as a result of the split. As an example, the proposed split may potentially result in additional infrastructures being built (in comparison to what would exist in a single facility). This may potentially include (but not limited to) additional construction camps (estimated that two are to be built), batching plants, offices / control centres etc. In addition to this, it can also be noted that two separate smaller facilities will be assessed separately for real impacts during the operational phase. This could potentially result in a perception that few bats are potentially being impacted. Although challenging and potentially not possible (due to different bidding and construction times), it would be ideal if the two facilities could be evaluated jointly (once both are in operation) in order to understand the real impact of all turbines in the area, collectively. Careful consideration should be taken with this, and both wind farms should ideally work closely together during the operational phase so that the relevant bat specialist(s) can have access to fatality data from both facilities, wherever possible. No specific advantages (as a result of the proposed split) for the bat community were identified at this stage.</p>	<p>No changes or additions to mitigation measures are proposed at this stage. It will however be important for all relevant management / mitigation measures (as described in Bioinsight [2018]) to be strictly adhered to for each wind farm, independently. Wherever possible, it will also be useful for a relevant site walk-through to be conducted at both wind farms (Oya WEF walk-through already completed), prior to construction, in order to assess any relevant sensitivities against proposed infrastructures – for further approval of final site layouts. Given that the authorised project is to be split into two separate smaller ones, Bioinsight emphasises the importance that each individual wind farm must have its own unique monitoring plan with sampling design, going forward (to assess real impacts in the construction and/or post-construction phases).</p>

Environ. Parameter	Summary of findings	Additional Impact management measures
	Based on the above, Bioinsight finds the split acceptable for the bat community on site. Additionally, we find our previous impact assessment (Bioinsight, 2018) for the authorised Kudusberg WEF to still be valid in present day conditions.	
<p><b><u>Bioinsight</u></b>  <b><u>Walk-through Report dated January 2021</u></b></p> <p>This document is an amendment to, and should be read together with, the original Avifauna Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in October 2018 (BioInsight, 2018)</p>	<p style="text-align: center;"><b>Walk-through Report</b></p> <p>After careful comparisons between the layout and on-site conditions observed today, it was determined that no new updates to the initial sensitivity analysis would be required, and that no fatal flaws to the project were identified. All habitats in the area remain the same as before, with the majority of the site being very homogenous and mostly dominated by large stretches of typical Karoo Scrub vegetation. No new significant roosting structures were found, and existing roosts were still intact.</p> <p>No new significant areas to be avoided were identified, and all previously-identified no-go areas are still applicable under present day conditions. All turbine locations avoid the previously identified no-go areas, and the overlap of certain associated infrastructures are deemed acceptable for the project, given the nature and extent of these activities &amp; features – provided that all previously proposed mitigation/management measures are considered. It is not expected for this project to cause an irreplaceable loss to biodiversity.</p> <p>In light of the above, it is our professional opinion that the proposed final layout for Oya WEF is considered to be acceptable and allowable for implementation, provided that all previously identified management/mitigation measures are considered during all phases of the project. It is therefore considered allowable for the project and final layout to undergo approval for Environmental Authorisation.</p>	<p>As all present day conditions on site have been described as being the same as during the initial monitoring campaign, and as the proposed final layout is deemed acceptable against the pre-defined environmental sensitivities, no new specific management / monitoring plans have been identified to be included in the EMPr going forward, other than those already identified in the initial bat specialist assessment report – which are to be considered.</p>
<p><b><u>Terrestrial Ecology (Fauna &amp; Flora)</u></b></p> <p><b><u>David Hoare</u></b>  <b><u>Letter dated 22 January 2021</u></b></p>	<p style="text-align: center;"><b>Amendment Letter</b></p> <p>Cumulative impacts are unchanged in terms of the proposed amendment, and no additional cumulative impacts will occur.</p>	<p>The EMPr recommendations in the original report and Oya walk down remain valid and no additional mitigation is required. The recommendations should be included in the EMPr and the EA.</p>

Environ. Parameter	Summary of findings	Additional Impact management measures
<p>This document is an amendment to, and should be read together with, the original Terrestrial Ecology Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in October 2018 (Ekotrust, 2018)</p>	<p>When the original project plan for the integrated project is compared to that of the project once split into the two components, it can be concluded that the split, from a terrestrial ecological perspective, has no significant change in the risk profile from that of the original integrated project.</p> <p>it is therefore recommended that the amendment be granted, subject to implementation of the recommendations.</p>	
<p><b><u>David Hoare</u></b> <b><u>Walk-through Report dated 22 January 2021</u></b></p> <p>This document is an amendment to, and should be read together with, the original Terrestrial Ecology Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in October 2018 (Ekotrust, 2018)</p>	<p style="text-align: center;"><b>Walk-through Report</b></p> <p>On the basis of the walk down, no sensitivities have been identified within the footprint of proposed infrastructure, except for a possible occurrence of a Red List species near to Turbine 1, the identity of which needs to be confirmed before any final recommendations are made. If the identity is confirmed as a Red List species, then a shift of the Turbine 1 location 100 m to the east is recommended. No other changes are required to the proposed layout.</p> <p>Of the remaining Red List plant species that were considered to have a probability of occurring on site (see list in Appendix 1 of Terrestrial Ecology Walk-through Report – <b>Appendix D3</b>), none similar to those in the Appendix were observed on site, except for four observations of <i>Lotononis</i> that have not yet been identified to species level - there is a small risk that they could be <i>Lotononis venosa</i>, listed as Vulnerable, but it is more likely that they are observations of more common species from the genus since none closely match the published description for the listed species (Van Wyk 1990).</p> <p>From an ecological point of view, on the basis that few sensitivities occur within the proposed footprint, it is recommended that the final layout is approved.</p>	<p>If the identity a possible occurrence of a Red List species is confirmed as a Red List species, then a shift of the Turbine 1 location 100 m to the east is recommended. No other changes are required to the proposed layout.</p> <p>A permit is required for the destruction of all protected species (marked in bold in the lists for each turbine position).</p>
<p><b><u>Heritage</u></b></p>	<p style="text-align: center;"><b>Amendment Letter</b></p> <p>The proposed development area for the split facilities occupies the same area as that surveyed and assessed in 2018, with only</p>	<p>Due to the fact that the recommended walk-downs are being undertaken (part of separate standalone report, the findings of</p>

Environ. Parameter	Summary of findings	Additional Impact management measures
<p><b>Letter dated 11 January 2021 prepared by Katie Smuts, Rennie Scurr Adendorff</b></p> <p>This letter is an amendment to, and should be read in conjunction with the original Heritage Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in October 2018 (Smuts, 2018b).</p>	<p>slight deviations in proposed layouts of roads, turbines and associated infrastructure.</p> <p>Due to the fact that the recommended walk-downs are being undertaken (part of separate standalone report), and appropriate mitigatory measures pertaining to heritage resources identified during the assessments have been recommended and provided in the EMPr for implementation accordingly, it is not anticipated that the proposed changes will result in any further, different or greater impacts to heritage resources than those already identified in the 2018 HIA. All buffers previously imposed are respected and, in the case of the northern site clusters on Urias Gat, the new proposal increases the buffer between sites and infrastructure; no turbines are proposed for this area and these buffers pertain to road and construction infrastructure.</p> <p>In light of the above, it is not anticipated that the proposed amended developments will have significant impacts to heritage resources, beyond those to the cultural landscape, given that they are generally of low heritage significance. Cumulative impacts are unchanged in terms of the proposed amendment, and no additional cumulative impacts will be effected.</p> <p>It is therefore recommended that the amendment be granted, subject to implementation of the above recommendations.</p>	<p>which have been detailed below), and appropriate mitigatory measures pertaining to heritage resources identified during the assessments have been recommended and provided in the EMPr for implementation accordingly, it is not anticipated that the proposed changes will result in any further, different or greater impacts to heritage resources than those already identified in the 2018 HIA.</p> <p>The recommendations should be included in the EMPr and the EA.</p>
<p><b><u>Archaeological and Palaeontological Walk-through</u></b></p> <p><b><u>CTS Heritage Walk-through Report dated November 2020</u></b></p> <p>This walk-through report is an amendment to, and should be read in conjunction with the</p>	<p style="text-align: center;"><b>Walk-through Report</b></p> <p>Based on the outcomes of the required walk down, it is not anticipated that the proposed development of turbines, cables and roads associated with the proposed WEF will negatively impact on significant archaeological or palaeontological heritage and as such, there is no heritage objection to the final alignment proposed for the WEF development. The identified built environment and graves do not fall within the development footprint and will not be directly impacted.</p>	<p>The conditions and recommendations from HWC and SAHRA in response to the initial HIA submission remain applicable. The Chance Fossil Finds Procedure attached as Appendix 1 of the Heritage Walk-through Report (<b>Appendix D4</b>) must be implemented during the construction phase of the development.</p> <p>All recommended mitigation measures from the approved Kudusberg WEF HIA (Smuts <i>et al.</i>, 2018) will be applied</p>

Environ. Parameter	Summary of findings	Additional Impact management measures
original Heritage Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in October 2018 (Smuts, 2018b).	The findings of this walk-down assessment align with the conclusions of the HIA conducted for the Kudusberg WEF (Smuts <i>et al.</i> , 2018) in that “ <b><i>The study area is largely devoid of heritage resources at elevation, and entirely devoid of significant heritage resources above 1200m asl. As such, it is not anticipated that turbines located on ridges will negatively impact on heritage resources.”</i></b> ”	including buffer areas and no-go areas ensuring that no impact occurs.
<p><b><u>Letter dated January 2021</u></b></p> <p>This letter should be read in conjunction with the original <u>Heritage Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in October 2018 (Smuts, 2018b), as well as Archaeological and Palaeontological Walk-through Report dated November 2020 (Lavin, 2020)</u></p>	<p><b><u>Letter addressing project changes made after the submission of the Draft EA Amendment Assessment Report<sup>26</sup></u></b></p> <p><u>This letter thereby serves to confirm that the refined layout related to the Oya WEF (dated January 2021) has no material change on the assessment, findings, impacts (including nature, significance and mitigation measures) and recommendations of the specialist reports including the completed and approved Final Walk Down Report and Heritage Management Plan. From a heritage perspective, the results are identical and the change in location has no material effect on the specialist assessment conducted for the project. The recommendations and findings of the reports therefore apply without modification to the refined layout.</u></p> <p><u>Copies of the letter will be provided to both HWC and SAHRA for inclusion in the relevant case files for this project.</u></p>	<p><u>Refined layout related to the Oya WEF (dated January 2021) has no material change on the assessment, findings, impacts (including nature, significance and mitigation measures) and recommendations of the specialist reports including the completed and approved Final Walk Down Report and Heritage Management Plan. The recommendations and findings of the reports therefore apply without modification to the refined layout.</u></p>
<p><b><u>Palaeontology</u></b></p> <p><b><u>Letter dated 5 January 2021 prepared by Elize Butler, Banzai Environmental (Pty) Ltd</u></b></p> <p>This letter is an amendment to, and should be read in conjunction with the original</p>	<p style="text-align: center;"><b>Amendment Letter</b></p> <p>As the geology of the Authorized and New Kudusberg WEF is the same, there will be no differences on the Impacts affecting these two WEFs. However, the New Proposed Oya WEF is underlain by the Waterford Formation (Ecca Group) additionally to the Abrahamskraal Formation (Lower Beaufort Group, Adelaide Subgroup, Karoo Supergroup). The Impact on palaeontological heritage will thus be higher for the Oya WEF.</p>	<p>No further mitigation measures are needed other than those already contained in the original study.</p>

<sup>26</sup> Specialist compiled letter addressing project changes made after the submission of the Draft EA Amendment Assessment Report as walk-through report and Heritage Management Plan (HMP compiled in 2020 and submitted as part of Draft EA Amendment Assessment Report was approved by SAHRA and HWC. A copy of this letter has been provided in **Appendix D4**, along with walk-through report and HMP.

Environ. Parameter	Summary of findings	Additional Impact management measures
<p>PIA report for Kudusberg Wind Energy Facility Project, which was compiled in October 2018 (Almond, 2018).</p>	<p>A Palaeontological and Archaeological walk-down has recently been conducted assessing the heritage of the Oya WEF (Lavin, 2020). No fossiliferous outcrops were identified during the walk-down and thus a low overall Palaeontological significance was allocated to the site.</p> <p><b>From a Palaeontological perspective there will be no advantages or disadvantages of the proposed split.</b></p> <p>The overall impact rating reflected in the Palaeontological Impact Assessment report for the authorised Kudusberg WEF will not change as:</p> <ul style="list-style-type: none"> <li>▪ the geology of the authorised Kudusberg WEF and proposed new Kudusberg WEF is the same; and</li> <li>▪ A recent palaeontological walk-down of the Oya WEF allocated a low overall Palaeontological significance to the site as no fossils were recovered</li> </ul>	
<p><b><u>Noise</u></b></p> <p><b><u>Letter dated 21 December 2021</u></b></p> <p>This letter is an amendment to, and should be read in conjunction with the original noise impact assessment as the noise impact assessment methodologies, impact results and recommendations remain the same (Safetech Report Number 26/8377 of 16 October 2018).</p>	<p style="text-align: center;"><b>Amendment Letter</b></p> <ul style="list-style-type: none"> <li>▪ The noise impacts identified as part of the original Kudusberg WEF will remain the same for the proposed Oya and Kudusberg WEF as the number of turbines has not increased.</li> <li>▪ The turbines have not been placed any closer to any of the noise sensitive areas.</li> <li>▪ There are no disadvantages to splitting the wind farm into smaller components from a noise impact perspective as the only implication will be administrative in nature i.e. allocating turbines to separate legal entities.</li> </ul> <p>The noise impact has not changed based on the above comments and information. The proposed turbine layouts of the Oya and Kudusberg WEFs is acceptable. Due to the potential low impacts associated with the construction and operational phases of the proposed Oya and Kudusberg WEFs, it is</p>	<p>No further mitigation measures are needed other than those already contained in the original study</p>

Environ. Parameter	Summary of findings	Additional Impact management measures
	recommended that both proposed WEFs receive EAs from a noise perspective.	
<p><b><u>Socio-Economic</u></b></p> <p><b><u>Letter dated 5 January 2021</u></b></p> <p>This document is an amendment to, and should be read together with, the original Socio-economic Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in 2018 (Urban-Econ, 2018)</p>	<p>The proposed changes to the authorised 325MW Kudusberg WEF would not change the scope, nature or level of the impacts and therefore no change to the initial assessment conducted (<u>Urban-Econ, 2018</u>) should occur.</p> <p>Furthermore, the split of the authorised 325 MW Kudusberg WEF would result in a phased period of the identified positive impacts which in turn would be advantageous to both local / regional economies.</p> <p>The disadvantage of the split of the authorised 325MW Kudusberg WEF, lies in the prolonged period of identified negative impacts (i.e. criminal activity, social ills, impacts on farms, etc.), however, the identified disadvantage could be reduced through the implementation of the environmental management programme.</p> <p>Thus, from a socio-economic perspective, there is no reason why the proposed amendment should not be authorised and the final proposed layout approved as part of the Amended EA (should this be granted by the DEFF).</p>	Mitigation measures previously identified would not change between the initial and the amended layout.
<p><b><u>Surface Water</u></b></p> <p><b><u>Letter dated 21 January 2021</u></b></p> <p>This letter is an amendment to, and should be read in conjunction with the original Surface Water Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in 2018 (BlueScience, 2018)</p>	<p style="text-align: center;"><b>Amendment Letter</b></p> <p>All freshwater ecological assessment methodologies applied to the original freshwater ecological study undertaken by FEN Consulting (2020), is still relevant to irrespective of the proposed project split. The Freshwater Ecological assessment undertaken by FEN Consulting in October 2020 reports on the freshwater environment as a whole (including reference to the Kudusberg WEF project components). The outcome of that report is still relevant, and no additional assessments are required. The site walk-down assessment as reported upon by FEN Consulting in November 2020, was a follow up detailed assessment reporting on any potential sensitivities of the proposed Oya WEF. The outcome of the site walk- down</p>	The outcome of the original freshwater ecological study undertaken is still relevant, and thus no additional mitigation measures or assessments are required.

Environ. Parameter	Summary of findings	Additional Impact management measures
	<p>assessment reiterated the outcome of the freshwater ecological assessment and did not note any additional sensitivities as covered in the freshwater ecological assessment. Specialist Impact statement</p> <p>Based on the proposed amendment including the Kudusberg and Oya WEF when compared to the original Kudusberg WEF project (as reported upon in FEN Consulting, 2020), the proposed project split is not considered to pose any change in impact / risk significance to the identified and assessed watercourses. As such, no advantages or disadvantages (when considering the authorised specifications, versus the proposed specifications) can be identified from a freshwater ecological perspective. When the original project plan for the integrated project is compared to that of the project once split into the two components, it can be concluded that the split, from a freshwater ecological perspective, has no significant change in the risk profile from that of the original integrated project. It is noted that the proposed project split will entail application for authorisation for each WEF development separately, however the specialist freshwater ecological assessment of FEN Consulting (2020) is considered sufficient to inform this process, and no additional studies is considered to be required. The cumulative impacts of the combined project development versus splitting of the project into two separate projects is considered unchanged, and no additional cumulative impacts are expected.</p> <p>It is therefore recommended that the amendment be granted, subject to implementation of the above recommendations. These recommendations should be included in the EMPr and the Environmental Authorisation EA.</p>	
<b><u>Surface Water</u></b>	<p style="text-align: center;"><b>New Freshwater Ecological Assessment</b></p> <p>No surface infrastructure components are located within any of the delineated watercourses, with the exception of road crossings. However, the proposed Kudusberg WEF construction camp is located approximately 11m an episodic</p>	<p>The mitigation measures proposed as part of the 2020 Freshwater Assessment (du Preez, ,2020) still hold true. These have been presented in <b>Table 12</b>. In addition, the mitigation</p>



Environ. Parameter	Summary of findings	Additional Impact management measures
<p><b>Freshwater Ecological Assessment dated October 2020<sup>27</sup></b></p> <p>This report is a new report which was compiled in 2020 and subsequently updated in 2021 in light of the project changes<sup>27</sup> (du Preez, 2020) in order to meet DWS requirements for Water Use Authorisations.</p> <p>It replaces the original Surface Water Impact Assessment for Kudusberg Wind Energy Facility Project, which was compiled in 2018 (BlueScience, 2018)</p>	<p>drainage line (EDL), the Kudusberg substation is located approximately 26m from an EDL and Kudusberg WEF Turbine 23 crane pad is located approximately 26 m from an EDL. As such it is recommended these infrastructure components be relocated at least 32m from the delineated extent of the watercourse. The Oya WEF overhead collector power line will also traverse several watercourses, however the pylons will be constructed outside the 32m NEMA ZoR. The DWS Risk Assessment was applied to ascertain the significance of perceived impacts on the key drivers and receptors (hydrology, water quality, geomorphology, habitat and biota) of the assessed watercourses and assuming that the above mentioned surface infrastructure components will be relocated as recommended.</p> <p>No fatal flaws in terms of freshwater ecological aspects were identified. Should the construction of the road crossings in the watercourses be undertaken in the driest period of the year when no surface flow is present and the recommended mitigation measures are applied, the risk significance of the proposed WEF development can be reduced and Water Use Authorisation by means of General Authorisation in terms of Section 21(c) and (i) water uses may potentially be obtained in consultation with the DWS. However, the DWS, the custodian of water resources in South Africa, must be consulted with regards to the outcome of this assessment. <u>Once road watercourse crossing designs become available, with specific mention of the R356 road watercourse crossings, they should be reviewed by a freshwater ecological specialist and of the DWS Risk assessment be revised. It must be noted that the outcome of the DWS Risk assessment may thus change pending the outcome of the watercourse road crossing designs.</u></p>	<p>measures have been incorporated into the respective EMPs (Appendix I).</p>

<sup>27</sup> 2020 Freshwater Ecological Assessment updated to include separate risk assessment for assessing risk significance on watercourses for additional section of existing road which was not presented in previous layout for Oya WEF since road is an existing road and entails existing large watercourse crossings via culvert and bridge crossings (refer to **Table 12 in section 4.1**)

Environ. Parameter	Summary of findings	Additional Impact management measures
	<p>Based on the findings of the freshwater ecological assessment and the results of the risk assessment, it is the opinion of the ecologist that the proposed WEF development poses a negative low risk to the integrity of the identified watercourses provided that adherence to cogent, well-conceived and ecologically sensitive construction plans are implemented and the mitigation measures provided in this report as well as general good construction practice are adhered to, the proposed WEF development is considered acceptable.</p>	
<p><b>Walk-through Report dated January 2021</b></p> <p><b>This walk-through report should be read in conjunction with the Freshwater Assessment which was compiled in 2018 (du Preez, 2020)</b></p>	<p style="text-align: center;"><b>Walk-through Report</b></p> <p>Based on the findings site walk-down undertaken in October 2020 which focused on identifying any watercourses that may be directly traversed by the proposed infrastructure of the proposed Oya WEF, twenty-five (25) direct watercourse crossings were identified. Eight (8) of these crossings is attributed to access road crossings and the remainder to overhead power line crossings. Provided the recommended mitigation measure be applied, the proposed Oya WEF layout is considered acceptable from a freshwater ecological perspective and should be granted EA. It is noted that the proposed project split will entail application for authorisation for each WEF development separately, however, the specialist freshwater ecological assessment of FEN Consulting (2020) is considered sufficient to inform this process, and no additional studies is considered to be required.</p>	<p>No additional studies are considered to be required.</p> <p>The mitigation measures as provided by FEN Consulting (2020) for the proposed Oya WEF layout (see <b>Table 12</b>) are considered sufficient to mitigate any potential impacts that may arise from the proposed WEF development. These mitigation measure must be included in the EMPr as part of the Part 2 EA Amendment Application to DEFF</p>
<p><b><u>Transportation</u></b></p> <p><b>Letter dated 8 January 2021</b></p> <p>This letter is and an amendment to, and should be read in conjunction with for the Kudusberg Wind Energy Facility which was compiled in</p>	<p style="text-align: center;"><b>Amendment Letter</b></p> <p>The splitting of the Kudusberg WEF into two (2) smaller WEF projects, namely Oya WEF (99MW) and Kudusberg WEF (226MW), will result in the same traffic impacts during the construction and decommissioning phases. The advantage of splitting the Kudusberg WEF, from a transport perspective, is that the individual WEFs will generate less traffic during the construction and decommissioning phases as the overall capacity of 325MW (i.e. number of turbines) of the original Kudusberg WEF will be distributed between the two (2) smaller</p>	<p>The proposed Oya WEF and Kudusberg WEF will not require any additional recommendations or mitigation measures and all the proposed mitigation measures stated in the original Kudusberg report remain valid.</p>

Environ. Parameter	Summary of findings	Additional Impact management measures
<p>October 2018 (JG Afrika, 2018).</p>	<p>WEF projects. The impacts assessed in the original Kudusberg WEF report can therefore be viewed as the worst-case scenario as construction of the two (2) smaller WEF projects will likely not commence at the same time or construction will be slightly staggered.</p> <p>The splitting of the Kudusberg WEF, from a transport perspective, will not lead to any disadvantages.</p> <p>The specifications for the proposed Oya WEF and Kudusberg WEF do not exceed the specifications of the authorised Kudusberg WEF i.e. the turbines proposed for the Oya WEF and Kudusberg WEF do not exceed the turbine specifications of the original Kudusberg WEF report (candidate turbine with a maximum hub height of up to 140m and a blade length of approximately 90m and rotor diameter up to 180m).</p> <p>The impact ratings during the construction and decommissioning phases will remain at low significance for the two (2) smaller WEF projects.</p> <p>In light of the above, the impacts identified in the original Kudusberg Transport Study dated October 2018 remain relevant to the proposed Oya WEF and Kudusberg WEF.</p> <p>The impacts associated with the project split are acceptable, from a transport perspective, with the implementation of the recommended mitigation measures and it is therefore recommended that the proposed amendments and the final layout be authorised.</p>	
<p><b>Visual</b></p> <p><b>Letter dated 5 January 2021</b></p> <p>This letter must be read in conjunction with the final VIA</p>	<p style="text-align: right;"><b>Amendment Letter</b></p> <p><b>Visual Character:</b> The amendments to the Kudusberg WEF as proposed will not result in any additional impacts on the visual character of the broader study area.</p> <p><b>Cultural Landscapes:</b></p>	<p>No additional recommendations or mitigation measures will be required and all of the proposed mitigation measures identified in the original VIA are still valid for the two new WEF projects.</p>

Environ. Parameter	Summary of findings	Additional Impact management measures
<p>report for Kudusberg WEF dated 16 September 2018.</p>	<p>The amendments to the Kudusberg WEF as proposed will not result in any additional impacts on the cultural landscape in the study broader area.</p> <p><b><u>Visual Sensitivity:</u></b> The amended layouts for the Kudusberg WEF and the Oya WEF have taken cognisance of the areas of visual sensitivity identified in the original VIA. Furthermore, the smaller turbines proposed for the Oya WEF will be less visible from the surrounding area, thus reducing the visual sensitivity of the Oya WEF site. As such, the proposed amendments will not result in any changes in the findings of the visual sensitivity analysis.</p> <p><b><u>Potentially Sensitive Receptors:</u></b> The amended turbine layouts will only affect one potentially sensitive receptor, this being VR13. The proximity of the nearest turbine to this receptor increases the impact rating for this receptor from Moderate to High. As this receptor is located on the Kudusberg WEF development site however, it is assumed that the owner of this receptor has a vested interest in the development and as such would not perceive the WEF in a negative light.</p> <p><b><u>Cumulative Impacts:</u></b> The amendments to the Kudusberg WEF as proposed will not result in any additional cumulative impacts in the surrounding area.</p> <p><b><u>Overall Visual Impact Rating:</u></b> <u>The amendments to the Kudusberg WEF as proposed will not give rise to any additional impacts nor will it change the impact ratings.</u></p> <p><b><u>Assessment of Alternatives:</u></b> The proposed changes to the authorised road and turbine layouts, the position of the authorised construction camp and the provision of a new construction camp site to serve the</p>	

Environ. Parameter	Summary of findings	Additional Impact management measures
	<p>smaller Kudusberg WEF are all considered acceptable from a visual perspective.</p> <p>In addition, the proposed Oya WEF layout, including the turbine positions and construction camp site, is considered acceptable from a visual impact perspective and should be authorised as final.</p> <p><b>Conclusion:</b> It is SiVEST's opinion that the proposed amendments to the authorised Kudusberg WEF (14/12/16/3/3/1/1976/AM1) to split the WEF into two (2) separate smaller WEF projects, namely the Kudusberg WEF and Oya WEF, do not give rise to additional visual impacts or exacerbate the impacts previously identified in the VIA for this development. Given the low level of human habitation and the relative absence of sensitive receptors in the area, the proposed changes to the road and turbine layouts, <u>the reduction in the turbine dimensions for eighteen (18) of the fifty-six (56) wind turbines</u>, the shift in the position of the authorised construction camp and the provision of a new construction camp site to serve the smaller Kudusberg WEF are deemed acceptable from a visual perspective and the EA should be amended. SiVEST is of the opinion that the impacts associated with the construction, operation and decommissioning phases can be mitigated to acceptable levels provided the recommended mitigation measures are implemented.</p>	

Maps showing the proposed layouts for the Kudusberg WEF (southern section of authorised Kudusberg WEF) and Oya WEF (northern section of authorised Kudusberg WEF) in relation to environmental sensitivities (following the changes made to the respective proposed layouts) are provided in **Figure 6** and **Figure 7** below.

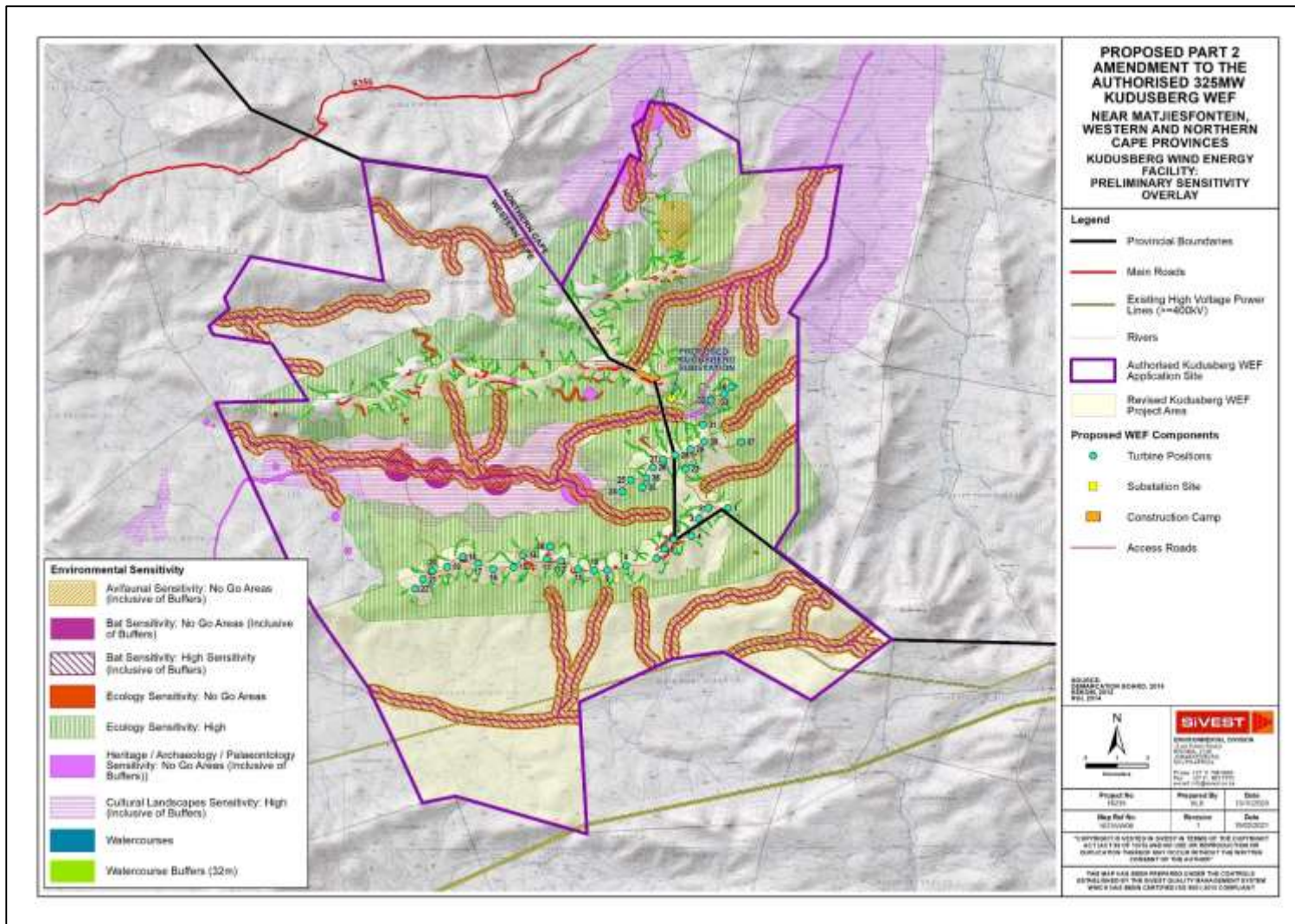


Figure 6: Layout map for proposed Kudusberg WEF (southern section of authorised Kudusberg WEF) in relation to environmental sensitivities<sup>28</sup>

<sup>28</sup> Please note that at the scale of this map some of the turbine locations may appear to be in high sensitivity areas. However, all turbines avoid high sensitivities.

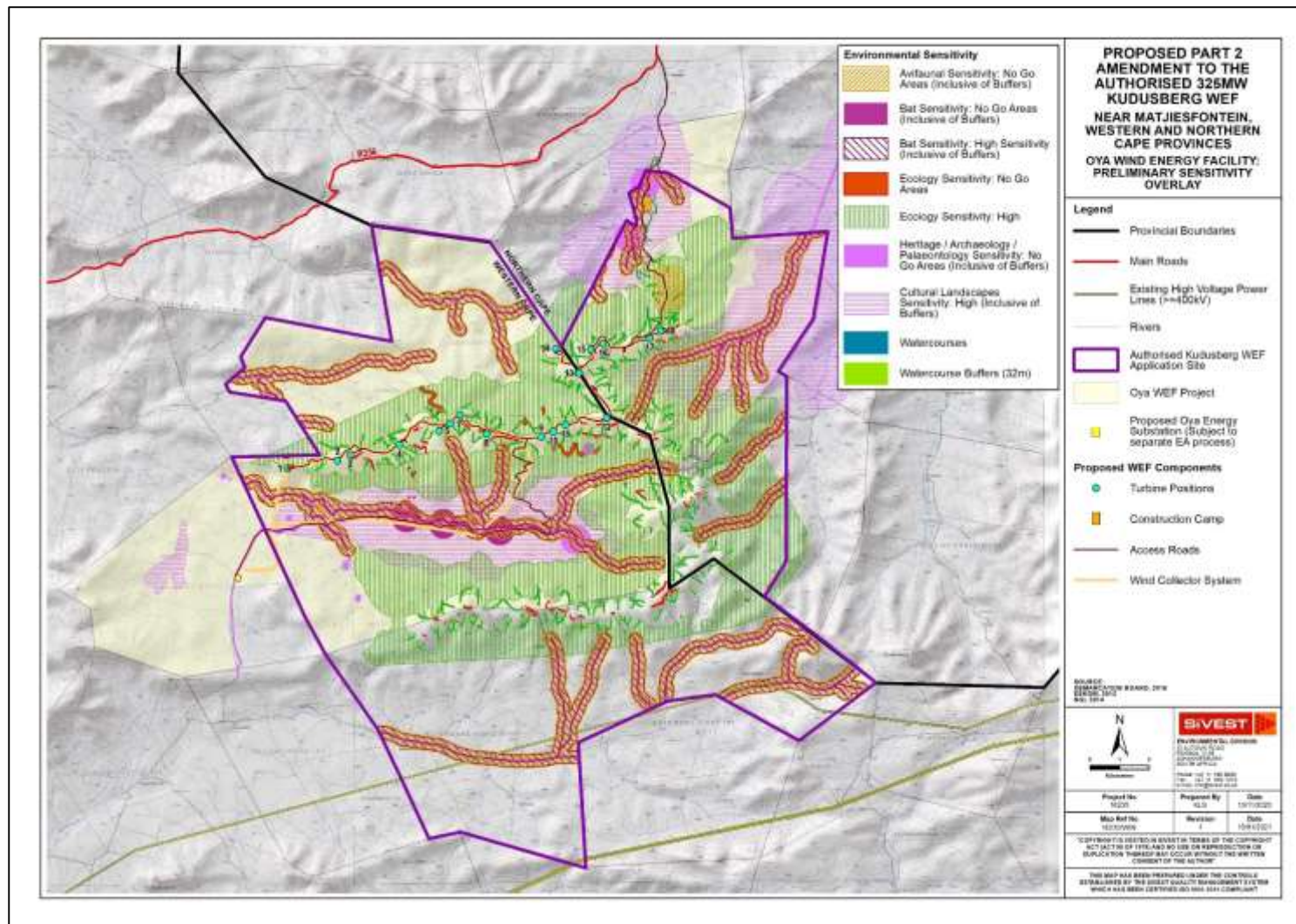


Figure 7: Layout map for proposed Oya WEF (northern section of authorised Kudusberg WEF) in relation to environmental sensitivities<sup>29</sup>

<sup>29</sup> Please note that at the scale of this map some of the turbine locations may appear to be in high sensitivity areas. However, all turbines avoid high sensitivities.

#### 4.1 Summary of Changes in Impact Ratings

##### Key

Significance Rating (+ and -)	Colour Code
Low	
Medium	
High	

**\*All specialists found that the project changes made after the submission of the Draft EA Amendment Assessment Report (as presented in Table 1) have no material impact on their findings. Furthermore, all specialists confirmed that the inclusion of the section of the existing road to the layout for the proposed Oya WEF was acceptable (i.e. would have no material impact on their findings). However, where the project changes resulted in changes / amendments to the specialist letters and/or walk-through reports (more specifically changes to impact ratings), if any, these have been reflected below and underlined. The updated specialist reports and letters are provided in Appendix C and Appendix D respectively, with the respective specialist amendment letters and walk-through reports.**

**Table 11:** Summary of changes in overall impact ratings

Specialist Study	Impact	Original Rating		Revised Rating	
		Pre-Mitigation Rating	Post Mitigation Rating	Pre-Mitigation Rating	Post-Mitigation Rating
<b>Agriculture</b>	Erosion by water and topsoil loss. Changes to the surface that lead to accumulation and channelling of run-off water can cause erosion. Because of the slopes, the aridity and the shallow soils, erosion risk is high	Low (-)	Very Low (-)	No change	No change
	Erosion by water and topsoil loss. Changes to the surface that lead to accumulation and channelling of run-off water can cause erosion. Because of the slopes, the aridity and the shallow soils, erosion risk is high	Low (-)	Very Low (-)	No change	No change
	Additional land use income will be generated by the farming enterprise through the lease of the land to the energy facility. This will provide the farming enterprise with increased cash flow and rural livelihood, and thereby improve its financial sustainability	Low (+)	N/A	No change	No change
	Erosion by water and topsoil loss. Changes to the surface that lead to accumulation and channelling of run-off	Low (-)	Very Low (-)	No change	No change



Specialist Study	Impact	Original Rating		Revised Rating	
		Pre-Mitigation Rating	Post Mitigation Rating	Pre-Mitigation Rating	Post-Mitigation Rating
	water can cause erosion. Because of the slopes, the aridity and the shallow soils, erosion risk is high				
	Cumulative impacts are likely to occur as a result of the loss of agricultural land on a regional basis because of other developments on agricultural land in the region	Very Low (-)	Very Low (-)	No change	No change
Avifauna	Destruction of important habitat areas (natural vegetation & water features etc.) due to the construction of wind turbines and associated infrastructures	Low (-)	Very Low (-)	No change	No change
	Disturbance of the bird community due to the increase of people and vehicles in the area	Low (-)	Very Low (-)	No change	No change
	Displacement of bird community due to increased disturbances in the area.	Low (-)	Very Low (-)	No change	No change
	Fatalities due to collision with wind turbine blades or associated infrastructures	Medium (-)	Low (-)	No change	No change
	Disturbance of bird community due to noise and movement generated by turbines and people / vehicles operating in the area	Low (-)	Very Low (-)	No change	No change
	Displacement of bird species due to increased disturbances	Low (-)	Very Low (-)	No change	No change
	Population decline due to long-term increasing fatality events	Low (-)	Very Low (-)	No change	No change
	Disturbance of bird community due to the increase of people and vehicles in the area, when dismantling wind turbines and associated infrastructures	Low (-)	Very Low (-)	No change	No change
	Displacement of bird community due to the increase in disturbances in the area, while dismantling wind turbines and associated infrastructures	Low (-)	Very Low (-)	No change	No change
	Destruction of important habitat areas (natural vegetation & water features	Medium (-)	Low (-)	No change	No change

Specialist Study	Impact	Original Rating		Revised Rating	
		Pre-Mitigation Rating	Post Mitigation Rating	Pre-Mitigation Rating	Post-Mitigation Rating
	etc.) at multiple renewable energy facilities				
	Disturbance of bird community due to the increase of wind turbine infrastructures, people and vehicles at multiple renewable energy facilities	Medium (-)	Low (-)	No change	No change
	Displacement of bird communities due to the increase in disturbances at multiple renewable energy facilities	Medium (-)	Low (-)	No change	No change
	Fatalities as a result of increased collisions with wind turbine blades at multiple renewable energy facilities	Medium (-)	Low (-)	No change	No change
	Decline in the broader population of avifauna due to long-term fatality events at multiple renewable energy facilities	Medium (-)	Low (-)	No change	No change
<b>Bats</b>	Destruction of important habitat areas (natural vegetation, water features, roosts, etc.) due to the construction of wind turbines and associated infrastructures	Medium (-)	Low (-)	No change	No change
	Disturbance of the bat community due to the increase of people and vehicles in the area, high levels of noise and machinery movements	Low (-)	Very Low (-)	No change	No change
	Displacement of bat community due to increased disturbances in the area	Low (-)	Very Low (-)	No change	No change
	Fatalities due to collision with turbine blades or barotrauma	Medium (-)	Low (-)	No change	No change
	Disturbance of bat community due to high levels of noise and movement generated by turbines operation and increase of people and vehicles associated with maintenance activities	Low (-)	Very Low (-)	No change	No change
	Displacement of bat community due to increased disturbances in the area	Low (-)	Very Low (-)	No change	No change
	Population decline due to long-term increasing fatality events	Low (-)	Very Low (-)	No change	No change
	Disturbance of bat community due to the increase of people and vehicles in	Low (-)	Very Low (-)	No change	No change

Specialist Study	Impact	Original Rating		Revised Rating	
		Pre-Mitigation Rating	Post Mitigation Rating	Pre-Mitigation Rating	Post-Mitigation Rating
	the area, high levels of noise and machinery movements when dismantling wind turbines and associated infrastructures				
	Displacement of bat community due to increased disturbances in the area	Low (-)	Very Low (-)	No change	No change
	Destruction of important habitat areas (natural vegetation, water features, roosts, etc.) due to the construction of wind turbines and associated infrastructures	Medium (-)	Low (-)	No change	No change
	Disturbance of the bat community due to the increase of people and vehicles in the area, high levels of noise and machinery movements	Medium (-)	Low (-)	No change	No change
	Displacement of bat community due to increased disturbances in the area	Medium (-)	Low (-)	No change	No change
	Fatalities due to collision with turbine blades or barotrauma	Medium (-)	Low (-)	No change	No change
	Population decline due to long-term increasing fatality events	Medium (-)	Low (-)	No change	No change
<b>Biodiversity</b>	Clearing of natural vegetation	High – Very High (-)	High (-)	No change	No change
	Loss of Species of Conservation Concern	Low (-)	Low (-)	No change	No change
	Loss of faunal habitat	Medium (-)	Low (-)	No change	No change
	Direct faunal mortalities	Low - Medium (-)	Low (-)	No change	No change
	Loss of animal refugia	Medium (-)	Very Low (-)	No change	No change
	Increased dust deposition	Low (-)	Very Low (-)	No change	No change
	Loss of animal and plant species by illegal collecting	Low (-)	Very Low (-)	No change	No change
	Increased noise and light levels	Medium (-)	Low (-)	No change	No change
	Establishment of alien vegetation	Low (-)	Very Low (-)	No change	No change
	Changes in animal behaviour	Medium (-)	Low (-)	No change	No change
	Changes in community composition of plants	Medium (-)	Low (-)	No change	No change
	Increased erosion and water run-off	High (-)	Low (-)	No change	No change
	Clearing and disturbance of natural vegetation	Low (-)	Very Low (-)	No change	No change
Direct faunal mortalities	Low (-)	Very Low (-)	No change	No change	

Specialist Study	Impact	Original Rating		Revised Rating	
		Pre-Mitigation Rating	Post Mitigation Rating	Pre-Mitigation Rating	Post-Mitigation Rating
	Increased noise levels	Low (-)	Low (-)	No change	No change
	Loss of animal and plant species by illegal collecting	Low (-)	Very Low (-)	No change	No change
	Establishment of alien vegetation	Low (-)	Very Low (-)	No change	No change
	Changes in animal behaviour	Medium (-)	Low (-)	No change	No change
	Increased erosion and water run-off	Medium (-)	Low (-)	No change	No change
	Clearing and disturbance of natural vegetation	Low (-)	Very Low (-)	No change	No change
	Direct faunal mortalities	Low (-)	Very Low (-)	No change	No change
	Increased dust deposition	Low (-)	Very Low (-)	No change	No change
	Changes in animal behaviour	Medium (-)	Low (-)	No change	No change
	Increased erosion and water run-off	Low (-)	Very Low (-)	No change	No change
	Vegetation loss and habitat destruction	High (-)	Medium (-)	No change	No change
	Loss of Species of Conservation Concern	Medium (-)	Low (-)	No change	No change
	Dissection of mountain crest habitat	Medium (-)	Medium (-)	No change	No change
	Turbine noise	Low (-)	Low (-)	No change	No change
	Compromising integrity of CBA, ESA and NPAES	High (-)	Low (-)	No change	No change
	Increased erosion and water run-off	Medium (-)	Low (-)	No change	No change
<b>Noise</b>	Noise impact from the construction of the WEF	Very Low (-)	Very Low (-)	No change	No change
	Noise impact from the operation of the wind turbines	Very Low (-)	Very Low (-)	No change	No change
	Noise impact from the decommissioning of the wind turbines	Very Low (-)	Very Low (-)	No change	No change
	Noise impact from the operation of the wind turbines	Very Low (-)	Very Low (-)	No change	No change
<b>Socio-Economic</b>	Economy will be stimulated due to capital investment and resultant increased production	High (+)	High (+)	No change	No change
	Unemployment figures will slightly decrease due to jobs created	Low (+)	Low (+)	No change	No change
	Skills levels in municipalities and for benefitting individuals will improve due to employment created	Low (+)	Medium (+)	No change	No change
	Movement of vehicles and workers may change livestock habits and ranges	Low (-)	Very Low (-)	No change	No change

Specialist Study	Impact	Original Rating		Revised Rating	
		Pre-Mitigation Rating	Post Mitigation Rating	Pre-Mitigation Rating	Post-Mitigation Rating
	Employment due to wind farm construction work will result in household income earnings for benefitting households	Low (+)	Low (+)	No change	No change
	The in-migration of migrant labour and job seekers will place pressure on local government to adequately provide housing, services and social facilities	Low (-)	Very Low (-)	No change	No change
	The increased number of people on site creates potential for theft, particularly livestock theft	Medium (-)	Low (-)	No change	No change
	The rates, payroll taxes and Value Added Tax paid to local government will increase government revenue	Low (+)	Low (+)	No change	No change
	Diseases, substance abuse and other social ills could increase leading to increased community dissatisfaction	Medium (-)	Low (-)	No change	No change
	Expenditure associated with the operation of the wind farm will impact on production in the economy	Medium (+)	Medium (+)	No change	No change
	Operation and maintenance activities will create long term job opportunities	Very Low (+)	Very Low (+)	No change	No change
	Skills levels in municipality and for benefitting individuals will improve due to employment created	Very Low (+)	Very Low (+)	No change	No change
	Upliftment initiative will increase the local communities' access to basic services	Medium (+)	Medium (+)	No change	No change
	Employment in operations and maintenance of the windfarm will result in household income earnings for benefitting households	Very Low (+)	Very Low (+)	No change	No change
	The rates, payroll taxes and Value Added Tax paid to local government will increase government revenue	Very Low (+)	Very Low (+)	No change	No change
	The cost of the removal and disconnection of the wind turbines will stimulate economic activity	Very Low (+)	Very Low (+)	No change	No change

Specialist Study	Impact	Original Rating		Revised Rating	
		Pre-Mitigation Rating	Post Mitigation Rating	Pre-Mitigation Rating	Post-Mitigation Rating
	Unemployment figures will slightly decrease due to jobs created for a short period of time	Very Low (+)	Very Low (+)	No change	No change
	The influx into the region will possibly be immense due to the numerous projects in the area attracting migrant job seekers. This will increase the demand for services	Medium (-)	Low (-)	No change	No change
	The numerous projects will create a notable number of jobs	High (+)	High (+)	No change	No change
	Capital and operating expenditure of numerous projects will increase production in the economy	High (+)	High (+)	No change	No change
	Local roads upgraded as a result of numerous WEFs in the area	Low (+)	Low (+)	No change	No change
	Numerous upliftment initiatives will increase the local communities' access to basic services	Medium (+)	Medium (+)	No change	No change
<b>Transportation</b>	Traffic congestion	High (-)	Medium (-)	No change	No change
	Noise and dust pollution	High (-)	Medium (-)	No change	No change
	The traffic generated during the operational phase will be minimal and will have very little, if any impact on the surrounding road network				
	Noise and dust pollution	Medium (-)	Medium (-)	No change	No change
	Noise and dust pollution with the delivery of equipment, material and staff to site	High (-)	Medium (-)	No change	No change
<b>Visual</b>	Visual intrusion and dust emissions	Medium (-)	Low (-)	No change	No change
	Visual intrusion, dust emissions and light pollution and glare	Medium (-)	Medium (-)	No change	No change
	Visual intrusion and dust emissions	Medium (-)	Low (-)	No change	No change
	Visual intrusion and dust emissions	Medium (-)	Medium (-)	No change	No change
	Visual intrusion, dust emissions and light pollution and glare	Medium (-)	Medium (-)	N/A	N/A

It should be noted that a new Freshwater Ecological Assessment was undertaken in October 2020 as part of the Water Use Authorisation Process for the proposed 99MW Oya WEF and 226MW Kudusberg WEF (**Appendix D5a**), as the previous assessment undertaken in 2018 (Ekotrust, 2018 – **Appendix C8b**) did not meet the Department of Water and Sanitation (DWS) requirements for Water Use Authorisations. In addition, the Freshwater Ecological Assessment

was updated in 2021<sup>13</sup> to include a separate risk assessment for assessing the risk significance on watercourses of the additional section of the existing road<sup>30</sup> which was not presented in the previous layout for the Oya WEF (since the road is an existing road and entails existing large watercourse crossings via culvert and bridge crossings). This updated Freshwater Ecological Assessment Report (Du Preez, 2020) is provided in **Appendix D5a**. The updated 2020 Freshwater Assessment replaces the original Surface Water Impact Assessment for the Kudusberg WEF Project, which was compiled in 2018 (BlueScience, 2018). The results of the DWS risk assessment applied to the proposed WEF development activities undertaken as part of the 2020 Freshwater Ecological Assessment (du Preez, 2020) are presented in **Table 12** below.

**Table 12:** Summary of the results of the DWS risk assessment applied to the proposed WEF development activities

	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
1	Construction Phase	Site preparation prior to construction activities of surface infrastructure components located outside the watercourses and at least 32 m from the delineated extent of a watercourse,	Vehicular movement (transportation of construction materials)	<ul style="list-style-type: none"> <li>Loss of watercourse vegetation, associated habitat and ecosystem services;</li> <li>Transportation of construction materials can result in disturbances to soils, and increased risk of sedimentation/erosion; and</li> <li>Soil and stormwater contamination from oils and hydrocarbons originating from construction vehicles.</li> </ul>	1	3	12	36	L	As this activity was assessed based on the recommendation that the proposed Kudusberg WEF construction camp, Kudusberg substation an Kudusberg WEF Turbine 23 crane pad and all pylons associated with the Oya WEF overhead collector system power line would be located at least 32m from the delineated extent of a watercourse (thus outside the 32m NEMA ZoR), this in itself is considered a mitigation measure which complies with the mitigation hierarchy as advocated by the DEFF et al. (2013). The presence of various other Kudusberg WEF crane pads (as listed in Table 9) within the 100m GN509 ZoR but at least 42m from the delineated extent of a watercourse is not considered to pose a direct negative impact to the watercourses. Since no site preparation activities associated with the construction of the surface	NA

<sup>30</sup> Road was not reflected in previous layouts presented in Draft EA Amendment Assessment Report, however, it falls within the area assessed by the specialists as part of the Part 2 EA Amendment process. Road will be maintained (re-gravelled) during construction and operation.

	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
2		but still within the 100 m GN509 ZoR, which includes the Oya WEF overhead collector system, Oya WEF construction camp, Kudusberg WEF construction camp, Kudusberg Substation and the identified crane pads within the 100m GN509 ZoR.	Removal of vegetation and associated disturbances to soils.	<ul style="list-style-type: none"> <li>• Earthworks could be potential sources of sediment, which may be transported as runoff into the downstream watercourse areas;</li> <li>• Exposure of soils, leading to increased runoff, and erosion, and thus increased sedimentation of the watercourses;</li> <li>• Increased sedimentation of the watercourses, leading to smothering of vegetation associated in the watercourses; and</li> <li>• Proliferation of alien and/or invasive vegetation as a result of disturbances.</li> </ul>	1	3	12	36	L	<p>infrastructure will be within the 32 m of these watercourses, the risk significance thereof will be "Low".</p> <p>The following mitigation measures should be implemented to retain a "Low" risk significance:</p> <ul style="list-style-type: none"> <li>• All development footprint areas to remain as small as possible and vegetation clearing to be limited to what is essential;</li> <li>• Retain as much indigenous vegetation as possible;</li> <li>• All vegetation removed as part of the site clearing activities (specifically where large areas need to be cleared) should be transported from the construction site (may not be stockpiled) and disposed of at a registered waste disposal facility;</li> <li>• During construction of the surface infrastructure within close proximity to a watercourse, regular spraying of non-potable water or the use of chemical dust suppressants must be implemented to reduce dust and to ensure no smothering of vegetation within the watercourses occurs from excessive dust settling. It must be noted that specifics as to what type of dust suppressant (grey water vs. chemical dust suppressant) that will be utilised as part of the proposed WEF development was not available at the time of assessment. Should this detail become available, it is recommended that the freshwater ecologist provide a statement on the suitability of the use of the proposed dust suppressant;</li> <li>• The watercourses outside the construction footprint not having authorised road crossings must be considered as no-go areas. No construction vehicles, nor construction personnel or vehicles may traverse through these watercourses (except on approved road crossings);</li> </ul>	NA



	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
										<ul style="list-style-type: none"> <li>As far as possible, existing roads must be utilised to gain access to sites;</li> <li>Contractor laydown areas, and material storage facilities to remain outside of the 32 m ZoR;</li> <li>All vehicle re-fuelling is to take place outside of the 32 m ZoR; and</li> <li>No vegetation may be removed from the 32 m ZoR surrounding the watercourse where no infrastructure is planned, as this provides a natural buffer zone around the watercourses which disperse surface runoff into the watercourses, and thus prevents sedimentation and erosion thereof.</li> </ul>	
3		Site preparation prior to construction activities relating to the upgrading of existing roads and installation of underground cables traversing through watercourses.	Removal of vegetation and associated disturbances to soils.	<ul style="list-style-type: none"> <li>Earthworks and exposure of soils could result in sedimentation of the watercourses, which may be transported as runoff into the downstream watercourse areas and may smother vegetation associated with the watercourses; and</li> <li>Proliferation of alien and/or invasive vegetation as a result of disturbances.</li> </ul>	1,75	3,75	14	52,5	L	<ul style="list-style-type: none"> <li>It is imperative that all construction works be undertaken during the driest period of the year when there is no flow within the watercourses, and thus no diversion of flow would be necessary;</li> <li>The reaches of the watercourses where no activities are planned to occur must be considered no-go areas. These no-go areas can be marked at a maximum distance of 5 m upstream and downstream of the proposed road upgrade crossing. This 5 m buffer area would allow for construction personal, vehicles (if applicable) to enter the watercourse crossing where the road is proposed to be upgraded;</li> <li>For trenching of the cables, the topsoil has to be stored separately and may not be contaminated. Furthermore, the soil layers should be replaced in the same order and the topsoil returned last;</li> <li>Contractor laydown areas, vehicle re-fuelling areas and material storage facilities are to remain outside of</li> </ul>	NA

	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
										<p>the watercourses and at least 32m from the delineated extent; and</p> <ul style="list-style-type: none"> <li>The removed vegetation must be stockpiled outside of the delineated boundary of the watercourse. The footprint areas of these stockpiles should be kept to a minimum, and may not exceed a height of 2 m. Should the vegetation not be suitable for reinstatement after the construction phase or be alien/invasive vegetation species, all material must be disposed of at a registered garden refuse site and may not be burned or mulched on site.</li> </ul>	
4		Site preparation prior to the construction of new roads and installation of underground cables (along new roads) traversing through watercourses.	Removal of vegetation and associated disturbances to soils.	<ul style="list-style-type: none"> <li>Earthworks and exposure of soils could result in sedimentation of the watercourses, which may be transported as runoff into the downstream watercourse areas and may smother vegetation associated with the watercourses; and</li> <li>Proliferation of alien and/or invasive vegetation as a result of disturbances.</li> </ul>	2,5	4,5	15	67,5	M	<p>It is considered imperative that road watercourse construction works be undertaken during the driest periods of the year to limit surface water contamination and the need for any surface water diversion during the construction works (diverting the flow of water through a pipe or an excavated channel was not included as part of this risk assessment). In so doing, the severity scoring (specifically pertaining to the flow regime) will be significantly reduced as would the frequency of an impact. Should this specific mitigation measure be implemented and with implementation of the mitigation measures as per <b>Activity 3 above</b>, it is the opinion of the freshwater ecologist that the risk of the proposed road crossing construction in the watercourses be deemed 'low'.</p>	L (-7)

	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
5		Construction of surface infrastructure outside of the watercourses and at least 32 m from the delineated extent of a watercourse (as all proposed infrastructure will be located outside the 32m NEMA ZoR), but still within the 100 m GN509 ZoR, which includes the Oya WEF overhead collector system, Oya WEF construction camp, Kudusberg WEF construction camp, Kudusberg Substation and the	<ul style="list-style-type: none"> <li>• Removal of vegetation and topsoil and associated stockpiling;</li> <li>• Ground-breaking and earthworks relating to foundations and trenches;</li> <li>• Mixing and casting of concrete for construction purposes;</li> <li>• Backfilling of excavated and disturbed areas; and</li> <li>• Miscellaneous activities by construction personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Disturbances of soils leading to increased alien vegetation proliferation within the terrestrial buffer zone surrounding the watercourses, with the potential to affect the watercourse habitat;</li> <li>• Altered runoff patterns within the local catchment of the watercourses, potentially leading to increased erosion and sedimentation of the watercourses;</li> <li>• Potential impacts on the water quality of surface water runoff (when present) which may potentially enter the watercourses and contamination of soils due to concrete casting; and</li> <li>• Potential of backfill material entering the watercourses, increasing the sediment loads therein.</li> </ul>	1	3	12	36	L	<p>As this activity was assessed based on the recommendation that the proposed Kudusberg WEF construction camp, Kudusberg substation an Kudusberg WEF Turbine 23 crane pad and all pylons associated with the Oya WEF overhead collector system power line would be located at least 32m from the delineated extent of a watercourse (thus outside the 32m NEMA ZoR), this in itself is considered a mitigation measure which complies with the mitigation hierarchy as advocated by the DEFF et al. (2013). The presence of various other Kudusberg WEF crane pads (as listen in Table 9) within the 100m GN509 ZoR but at least 42m from the delineated extent of a watercourse is not considered to pose a direct negative impact to the watercourses. Since no site preparation activities associated with the construction of the surface infrastructure will be within the 32 m of these watercourses, the risk significance thereof will be "Low". If the following mitigation measures are adhered to, the risk significance of the construction of surface infrastructure would be of Low risk significance:</p> <p>With regards to ground-breaking activities at least 32 m from the delineated extent of a watercourse, but within the 100 m GN509 ZoR:</p> <ul style="list-style-type: none"> <li>• During excavation activities, the topsoil and vegetation should be stockpiled separately from other material outside of the 32 m NEMA ZoR;</li> <li>• Excavated materials should not be contaminated, and it should be ensured that the minimum surface area is taken up by any stockpiled materials. The mixture of the lower and upper layers of the excavated soil should be kept to a minimum, so as for later use as backfill material after construction has commenced;</li> <li>• All exposed soils must be protected from wind using tarpaulins for the duration of the construction phase to</li> </ul>	NA

Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
	identified crane pads within the 100m GN509 ZoR.								<p>prevent potential erosion and sedimentation of the watercourses;</p> <ul style="list-style-type: none"> <li>• Suitable drainage should be insured along the crane pads, in order to ensure that water does not pond on the crane pad or drain in a concentrated manner into the watercourses. This must be considered as part of the stormwater management plan and be overseen by a freshwater ecologist;</li> <li>• Construction of the proposed surface infrastructure may result in disturbance to the natural buffer zone surrounding the watercourses which may result in the reduction of surface roughness. This can be mitigated by ensuring that no concentrated runoff from the surface infrastructure construction areas enter the watercourses by installing silt traps or placing haybales down gradient of the construction footprint (until suitable basal vegetation cover has been restored) to ensure no sediment laden or concentrated runoff generates from the construction footprint; and</li> <li>• It is highly recommended that an alien vegetation management plan be compiled during the planning phase and implemented concurrently with the commencement of construction.</li> </ul> <p>With regards to concrete mixing on site:</p> <ul style="list-style-type: none"> <li>• No mixed concrete may be deposited outside of the designated construction footprint;</li> <li>• Protective equipment should be provided, onto which any mixed concrete can be deposited while it awaits placing; and</li> <li>• Concrete spilt outside of the demarcated area must be promptly removed and taken to a suitably licensed waste disposal site.</li> </ul> <p>With regards to backfilling of excavated areas:</p>	

	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
										<ul style="list-style-type: none"> <li>• Stockpiled material should be used as backfill material;</li> <li>• All excavated areas should be backfilled to the natural ground level with excavated material; and</li> <li>• Soil must be suitably compacted, and all construction material must be removed from the site upon the completion of construction or used in the rehabilitation process.</li> </ul> <p>Rehabilitation of the construction footprint areas:</p> <ul style="list-style-type: none"> <li>• All footprint areas which have been compacted should be ripped and revegetated within indigenous vegetation as soon as the construction activities have been completed. This will prevent soil erosion and the creation of gullies within the operational area; and</li> <li>• The operational area should regularly be inspected for alien and invasive vegetation species which might have established due to the construction activity related disturbances.</li> </ul>	

	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
6		Upgrading of existing road crossings and trenching through the watercourses.	<ul style="list-style-type: none"> <li>• Compaction of soil in the existing road crossing footprint to increase the width of the roads; and</li> <li>• Importation of materials to construct the roads.</li> </ul>	<ul style="list-style-type: none"> <li>• Earthworks could be potential sources of sediment, which may be transported as runoff into the downstream reach of the watercourse; and</li> <li>• Proliferation of alien and/or invasive vegetation as a result of disturbances.</li> </ul>	1,75	3,75	14	52,5	L	<ul style="list-style-type: none"> <li>• During the upgrading of existing internal roads and associate cable installation that may potentially traverse watercourses, a buffer of no more than 5 m on either side of the road crossing footprint through the watercourses may be impacted. This area must be cordoned off, and no vehicles or personnel are permitted outside of the authorised construction area;</li> <li>• Material to be used (gravel – if applicable) as part of the upgrading of the existing roads must be stockpiled outside the 32 m NEMA ZoR of the watercourses to prevent sedimentation thereof and to avoid any other vegetation being impacted by the construction activities. These stockpiles may not exceed a height of 2 m and should be protected from wind using tarpaulins;</li> <li>• Any remaining soils following the completion of backfilling of the trenches are to be spread out thinly in an area within the watercourses to aid in the natural reclamation process;</li> <li>• After upgrading of roads traversing watercourses, the area surrounding the road must be revegetated with suitable indigenous vegetation to prevent the establishment of alien vegetation species and to prevent erosion from occurring;</li> <li>• It is highly recommended that an alien vegetation management plan be compiled during the planning phase and implemented concurrently with the commencement of construction; and</li> <li>• All existing alien and invasive vegetation should be removed. All material must be disposed of at a registered garden refuse site and may not be burned or mulched on site.</li> </ul>	NA

	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
7	CONSTRUCTION PHASE	Construction of new road crossings and trenches through watercourses	<ul style="list-style-type: none"> <li>• Removal of vegetation and topsoil and associated stockpiling;</li> <li>• Ground-breaking and earthworks relating to foundations and trenches;</li> <li>• Compaction of soil in the road crossing footprint area;</li> <li>• Importation of materials to construct the roads;</li> <li>• Backfilling of excavated and disturbed areas; and</li> <li>• Miscellaneous activities by construction personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Disturbances of soils leading to increased alien vegetation proliferation within the watercourses, thus impacting on the watercourse habitat;</li> <li>• Altered runoff patterns within the watercourses, potentially leading to increased erosion and sedimentation of the watercourses; and</li> <li>• Potential of imported materials to entering the watercourses, increasing the sediment loads therein.</li> </ul>	2,25	4,25	15	63,75	M	<p>It is considered imperative that watercourse road construction works be undertaken during the dry period to limit surface water contamination and the need for any surface water diversion during the construction works (diverting the flow of water through a pipe or an excavated channel was not included as part of this risk assessment). In so doing, the severity scoring (specifically pertaining to the flow regime) will be significantly reduced as would the frequency of an impact. Should this specific mitigation measure be implemented and with implementation of the below mitigation measures it is the opinion of the freshwater ecologist that the risk of the proposed road crossing construction in the watercourses be deemed 'low':</p> <ul style="list-style-type: none"> <li>• The design of the new road crossings should ensure that no erosion occurs, specifically along the embankments of the watercourse. As such, vegetation must be established in the construction footprint immediately after the construction of the road/ installation of cables is complete;</li> <li>• New road crossings must intersect the watercourse at a right angle (perpendicular) to minimise disturbance to the watercourse;</li> <li>• No road crossing designs were available at the time of this assessment. However, it is strongly advised that suitably sized culverts be installed within all road crossings and vehicles should not be allowed to cross within the riverbed. This will ensure hydrological connectivity is maintained and no hydrocarbons are not washed into the downstream watercourses from potential vehicle spills. Should road crossing designs become available, it is advised that it be revised by a freshwater ecologist;</li> <li>• During the construction of roads and associate cable installation that may potentially traverse</li> </ul>	L (-7)

	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
										<p>watercourses, a buffer of no more than 5 m on either side of the proposed road crossing footprint through the watercourses may be impacted. This area must be cordoned off, and no vehicles or personnel are permitted outside of the authorised construction area;</p> <ul style="list-style-type: none"> <li>• Soils excavated from the cable trench must be stockpiled immediately upstream of the trench. Once the cable is installed the trench must be infilled with the removed material and suitably compacted to avoid any erosion and preferential flow paths from forming; and</li> <li>• Any remaining soils following the completion of backfilling of the trenches are to be spread out thinly in an area within the watercourses to aid in the natural reclamation process.</li> </ul>	
6	OPERATIONAL PHASE	Operation and maintenance of the surface infrastructure outside the watercourses and at least 32 m from the delineated extent of a watercourse, but still within the 100 m GN509 ZoR.	<ul style="list-style-type: none"> <li>• Potential indiscriminate movement of maintenance vehicles within the watercourses or within close proximity to the watercourses; and</li> <li>• Increased risk of sedimentation and/or hydrocarbons entering the watercourses via stormwater</li> </ul>	<ul style="list-style-type: none"> <li>• Disturbance to soils and ongoing erosion as a result of periodic maintenance activities; and</li> <li>• Altered water quality (if surface water is present) as a result of increased availability of pollutants.</li> </ul>	1,5	3,5	12	42	L	<ul style="list-style-type: none"> <li>• No indiscriminate movement of construction equipment through the watercourses may be permitted during standard operational activities or maintenance activities. Use must be made of the existing watercourse crossings only;</li> <li>• Unnecessary disturbances surrounding the perimeter of the surface infrastructure must be avoided;</li> <li>• Vehicles used in the development site must be regularly washed (on a non-permeable surface or off-site) to avoid the dispersal of seeds on any alien or invasive species into the watercourses;</li> <li>• Ensure that routine inspections and monitoring of any instream infrastructure are undertaken to monitor any build-up of debris that will impact on structure integrity or lead to erosion and sedimentation. Furthermore, monitoring to determine the establishment of indigenous vegetation and the presence of any alien or invasive plant species;</li> <li>• Should erosion be noted at the base of the pylon that may potentially impact on a watercourse in the surrounding area, the area must be rehabilitated by</li> </ul>	NA



	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
			runoff from the surface infrastructure (such as from crane pads and the construction camp)							<p>infilling the erosion gully and revegetation thereof with suitable indigenous vegetation;</p> <ul style="list-style-type: none"> <li>The surface infrastructure areas must be inspected to ensure that no concentrated runoff from these areas form erosion gullies leading to erosion and sedimentation of receiving watercourses. Should these impacts be noted, these gullies/preferential flow paths must be infilled with <i>in situ</i> material and appropriately stabilised and/or revegetated; and</li> <li>Monitoring for the establishment for alien and invasive vegetation species must be undertaken, specifically at the road crossings and surface infrastructures. Should alien and invasive plant species be identified, they must be removed and disposed of as per an alien and invasive species control plan and the area must be revegetated with suitable indigenous vegetation.</li> </ul>	
7		Operation and maintenance of roads (new and existing) traversing watercourses.	<ul style="list-style-type: none"> <li>Concentrated runoff entering the watercourses; and</li> <li>Disturbance to the vegetation within and surrounding the watercourses.</li> </ul>	<ul style="list-style-type: none"> <li>Concentrated runoff from the road crossings leading to erosion and subsequent sedimentation of the watercourses (increase in the sediment load) and turbulent flows when surface water is present;</li> <li>Higher flood peaks into the watercourses due to reduced surface roughness in the watercourses.</li> </ul>	1,75	3,75	12	45	L	<ul style="list-style-type: none"> <li>Routine maintenance of the roads must be undertaken to ensure that no concentration of flow and subsequent erosion occurs due to the road crossings/instream infrastructure. Such maintenance activities must specifically be undertaken after high rainfall events;</li> <li>Stormwater runoff from the road crossings should be monitored (by the Operation and Maintenance (O&amp;M) Manager), to ensure it does not result in erosion of the watercourses. Stormwater should be allowed to diffusely spread across the landscape, by ensuring adequate surface roughness in the watercourse (through vegetation and rocky areas);</li> <li>Maintenance vehicles must make use of dedicated access roads and no indiscriminate movement in the watercourses may be permitted;</li> <li>During periodic maintenance activities of the roads/surface infrastructure, monitoring for erosion should be undertaken; and</li> </ul>	NA

	Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
										<ul style="list-style-type: none"> <li>Should erosion be observed, caused by the road crossings/instream infrastructure, the area must be rehabilitated by infilling the erosion gully and revegetation thereof with suitable indigenous vegetation. Use can also be made of rocks collected from the surrounding area to infill any area prone to erosion, as a natural dispersal mechanism.</li> </ul>	
8	DECOMMISSIONING PHASE	Removal of all surface infrastructure from the project area.	<ul style="list-style-type: none"> <li>Movement of construction vehicles and personnel; and</li> <li>Disturbance to the buffer zone surrounding the watercourses.</li> </ul>	<ul style="list-style-type: none"> <li>Disturbance of soil and vegetation that established within the operational area.</li> </ul>	1,75	3,75	13	48,75	L	<ul style="list-style-type: none"> <li>No indiscriminate movement of construction equipment in the watercourses and buffer zones surrounding the watercourses may be permitted. Use must be made of the existing roads during the decommissioning phase;</li> <li>All surface infrastructure must be decommissioned. All materials must be removed from the watercourses (where applicable) and may temporarily be stockpiled outside the 32 m NEMA ZoR, where after is must be removed from site and disposed of at a registered disposal facility;</li> <li>High flood peaks from the decommissioning footprint areas can be mitigated by ensuring that no concentrated runoff from the surface infrastructure area and subsequent cleared area enters the watercourses. The velocity of surface water flow from these areas must be reduced by ensuring that the vegetation in the buffer area surrounding the watercourses are intact or by the strategic placement of silt traps of haybales as a means to obstruct flow but still allow flow to percolate at a reduced velocity and encourages a diffuse flow pattern. In this regard it is recommended at an alien and invasive plant species management plan be implemented during the construction and operational phases to specifically prevent the spread of any such species into the sensitive ecological areas;</li> </ul>	NA

Phases	Activity	Aspect	Impact	Severity	Consequence	Likelihood	Significance	Risk Rating	Control Measures	Borderline LOW MODERATE Rating Classes
									<ul style="list-style-type: none"> <li>• Areas where surface infrastructure have been decommissioned and removed must be suitably compacted/ripped and revegetated to ensure that no erosion occurs which may contribute to the sediment load of the watercourses;</li> <li>• Should erosion gullies be noted, these areas must be rehabilitated by infilling them with suitable soil and ensuring the area is vegetated. The increased surface roughness will discourage concentrated flow paths to develop and ensure diffuse flow patterns;</li> <li>• Should road crossings be decommissioned, road footprint areas within the watercourse must be levelled to the same level and shape as that of the upstream and downstream reaches. This will ensure a continuous bed level and prevent any concentration of surface flow from occurring;</li> <li>• Watercourse embankments must be suitably rehabilitated (shaped end revegetated) to prevent any erosion from occurring;</li> <li>• All bare areas in the project area, specifically where vegetation was initially cleared for surface infrastructure components) must be ripped and be revegetated within suitable indigenous vegetation species;</li> <li>• Follow up revegetation should take place in areas where initial revegetation is not successful;</li> <li>• It is recommended that a Watercourse Rehabilitation and Management Plan must be compiled and implemented. Implementation must be overseen by a suitably qualified Environmental Site Officer (ESO) and the ESO must sign off the rehabilitation before the relevant contractors leave site; and</li> <li>• Post-closure monitoring of the watercourses (for a period of 3 years), with specific mention of the invasion of alien vegetation species) is recommended to be undertaken.</li> </ul>	

In light of the above, no new environmental risks or impacts were identified and it was concluded that the impacts identified as part of the BA process for the original Kudusberg WEF in 2018 would remain unchanged. The updated 2020 Freshwater Assessment which replaces the original Surface Water Impact Assessment (BlueScience, 2018) also identified impacts which can be mitigation to acceptably low levels after the implementation of the recommended mitigation measures. In addition, none of the specialists found that the proposed amendments and subsequent addition of the proposed Oya WEF (northern section of authorised WEF) would change the original cumulative impact ratings or result in fatal flaws from a cumulative impact perspective. This is mainly due to the fact that the overall number of turbines will still remain the same and the two (2) proposed WEFs will be clustered in a REDZ (namely REDZ – Komsberg REDZ), in line with the REDZ intention.

It should be noted that the risk assessment which was undertaken for the inclusion of the existing road did not change the findings of the 2020 Freshwater Assessment (i.e. the impact of the proposed development, including the impact of roads and road upgrades, can be reduced to an acceptably low level after the implementation of the recommendations and/or mitigation measures). It was however recommended that the outcome of the risk assessment be revised when detailed designs for watercourse road crossings become available as the outcome of the DWS Risk assessment may change pending the outcome of the watercourse road crossing designs. The inclusion of the section of the existing road to the layout for the proposed Oya WEF will therefore not result in any fatal flaws and is deemed acceptable.

## 5 NEW / REVISED MITIGATION MEASURES

In addition to assessing the impact of the proposed amendments, specialists were requested to provide measures to ensure avoidance, management and mitigation of any impacts associated with such proposed change and identify any changes required to the EMP. New and/or revised mitigation measures provided by the specialists are outlined in **Table 13** below.

**\*As previously mentioned, all specialists found that the project changes made after the submission of the Draft EA Amendment Assessment Report (as presented in Table 1) have no material impact on their findings. Furthermore, all specialists confirmed that the inclusion of the section of the existing road to the layout for the proposed Oya WEF was acceptable (i.e. would have no material impact on their findings). However, where the project changes resulted in updates and/or amendments to the specialist letters and/or walk-through reports, these have been reflected below and underlined. The updated specialist reports and letters are provided in Appendix C and Appendix D respectively, with the respective specialist amendment letters and walk-through reports.**

**Table 13:** New / Revised mitigation measures identified in respect of the proposed amendments

Specialist Study	Mitigation Measures
<b>Agriculture</b>	The amendment does not require any changes or additions to the mitigation measures for agricultural impacts that were recommended for the authorised development, and there are therefore no required changes to the EMP(s).
<b>Avifauna</b>	No further mitigation measures are needed other than those already contained in the original study.
<b>Bats</b>	No further mitigation measures are needed other than those already contained in the original study.
<b>Biodiversity</b>	No further mitigation measures are needed other than those already contained in the original study.
<b>Surface Water</b>	The mitigation measures provided in the <u>2020</u> Freshwater Assessment (du Preez, 2020) ( <b>Table 12</b> ) still hold true and must be included in the

Specialist Study	Mitigation Measures
	<p>EMPr as part of the Part 2 EA Amendment Application to DEFF and must be implemented as part of the construction and operational phases.</p> <p>It should be noted that these mitigation measures have been incorporated into the EMPs (<b>Appendix I</b>) and will be adhered to.</p>
<b>Heritage</b>	<p>A walk-down was recommended, however, a detailed walk-down of the proposed layout has been undertaken by a suitably experienced archaeologist accordingly, and the findings are presented in a separate standalone walk-down report (<b>Appendix D4</b>). In addition, a Heritage Management Plan (HMP) has been compiled and forms part of the EMPr which is to be submitted to the DEFF for approval. It should however be noted that a walk-down for the proposed Kudusberg WEF area still needs to be undertaken prior to construction commencing.</p>
<b>Archaeological and Palaeontological Walk-down Report</b>	<p>The conditions and recommendations from HWC and SAHRA in response to the initial HIA submission remain applicable. The Chance Fossil Finds Procedure attached as Appendix 1 of the Heritage Walk-through Report (<b>Appendix D4</b>) must be implemented during the construction phase of the development.</p> <p>It should be noted that a number of conditions and/or recommendations from HWC and SAHRA in response to the initial HIA have been addressed in the Oya WEF EMPr (<b>Appendix I1</b>). All required conditions and/or recommendations will be addressed in the Final EMPr which will be submitted to the DEFF for approval with the final report. In addition, a Chance Fossil Finds Procedure has been developed by the specialist and has been incorporated into both the Kudusberg WEF EMPr (<b>Appendix I2</b>) and Oya WEF EMPr (<b>Appendix I1</b>) and will be implemented accordingly.</p>
<b><u>Letter addressing project changes made after the submission of the Draft EA Amendment Assessment Report<sup>26</sup></u></b>	<p><u>This letter thereby serves to confirm that the refined layout related to the Oya WEF (dated January 2021) has no material change on the assessment, findings, impacts (including nature, significance and mitigation measures) and recommendations of the specialist reports including the completed and approved Final Walk Down Report and Heritage Management Plan. From a heritage perspective, the results are identical and the change in location has no material effect on the specialist assessment conducted for the project. The recommendations and findings of the reports therefore apply without modification to the refined layout.</u></p>
<b>Noise</b>	<p>No further mitigation measures are needed other than those already contained in the original study.</p>
<b>Socio-Economic</b>	<p>No further mitigation measures are needed other than those already contained in the original study.</p>
<b>Transportation</b>	<p>The proposed Oya WEF and Kudusberg WEF will not require any additional recommendations or mitigation measures and all the proposed mitigation measures stated in the original Kudusberg report remain valid.</p>
<b>Visual</b>	<p>No additional recommendations or mitigation measures will be required and all of the proposed mitigation measures identified in the original VIA are still valid for the two new WEF projects.</p>

## 6 ADVANTAGES / DISADVANTAGES OF THE PROPOSED AMENDMENTS

As required in terms of Section 32(1)(a)(ii) of the 2014 EIA Regulations (as amended), the advantages and disadvantages of the proposed amendments are outlined in **Table 14** below.

*\*As previously mentioned, all specialists found that the project changes made after the submission of the Draft EA Amendment Assessment Report (as presented in Table 1) have no material impact on their findings. Furthermore, all specialists confirmed that the inclusion of the section of the existing road to the layout for the proposed Oya WEF was acceptable (i.e. would have no material impact on their findings). However, where the project changes resulted in updates and/or amendments to the specialist letters and/or walk-through reports (if any), these have been reflected below and underlined. The updated specialist reports and letters are provided in Appendix C and Appendix D respectively, with the respective specialist amendment letters and walk-through reports.*

**Table 14:** Advantages / Disadvantages of the Proposed Amendments

Aspect to be amended	Authorised	Proposed Amendment		Motivation
		Oya WEF	Kudusberg WEF	
<b>Administrative Aspects</b>				
<b>Amend the holder of the EA's</b>	Kudusberg Wind Farm (Pty) Ltd	Oya Energy (Pty) Ltd	Kudusberg Wind Farm (Pty) Ltd	The Authorised project is being split into two (2) separate WEFs and as such, the name of the project is changing as well as ownership of the project is changing to be held by 2 separate SPVs. Therefore, the Applicant is requesting to amend the Holders of the EAs and their associated details.  This amendment request is administrative in nature and therefore no disadvantages are foreseen should the amendment be granted.
<b>Amend the name of the WEFs</b>	Kudusberg Wind Energy Facility	Oya Wind Energy Facility	Kudusberg Wind Energy Facility	
<b>Contact Details</b>	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	<a href="mailto:oya@g7energies.com">oya@g7energies.com</a>	<a href="mailto:kudusberg@g7energies.com">kudusberg@g7energies.com</a>	
<b>Extend the validity of the EA</b>	This activity must commence within a period of five (05) years from the date of issue of this environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	This activity must commence within a period of five (05) years from the date of issue of this amended environmental authorisation	The projects are intended to be suitable for numerous opportunities such as either the REIPPPP, RMIPPPP, other government run procurement programmes or for sale to private entities, if required. The announcement of the REIPPPP Bid 5 window has not yet been officiated. As such the exact date in which the projects will be bid, awarded preferred bidder and start construction is unknown.  The EAP in conjunction with the specialists assessed this amendment and confirmed that the EA can be extended with no disadvantages associated thereto.
<b>Location of Activity and SG codes</b>	<b>Western Cape</b> 1. Portion 1 of 156 Gats Rivier Farm: C0190000000015600001 2. Portion 3 of 156 Gats Rivier Farm: C0190000000015600002 3. Remainder of 156 Gats Rivier Farm: C0190000000015600000 4. Portion 1 of 157 Riet Fontein Farm: C0190000000015700001	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C0190000000015600001 2. Portion 2 of the Farm Gats Rivier No 156: C0190000000015600002 3. Remainder of the Farm Gats Rivier No 156: C0190000000015600000	<b>Western Cape</b> 1. Portion 1 of the Farm Gats Rivier No 156: C0190000000015600001 2. Remainder of the Farm Gats Rivier No 156: C0190000000015600000 3. Portion 1 of the Farm Oliviers Berg No 159: C0190000000015900001 4. Remainder of the Farm Oliviers Berg No 159: C0190000000015900000	The motivation for this proposed amendment is to change the location to include only the properties and infrastructure that are relevant to each proposed WEF after the split and remove surplus properties.  There is no disadvantage to this proposed amendment as the number of involved properties <u>largely</u> remains the same, they are just being split between the two (2) proposed WEFs. <u>The number of affected properties for the Kudusberg WEF remains the same, while only one (1) additional property has been included for the</u>

**KUDUSBERG WIND FARM (PTY) LTD**

Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

**prepared by: SiVEST Environmental**

	<p>5. Portion 1 of 158 Amandelbloom Farm: C0190000000015800001</p> <p>6. Remainder of 158 Amandelboom Farm: C0190000000015800000</p> <p>7. Portion 1 of 159 Oliviers Berg Farm: C0190000000015900001</p> <p>8. Remainder of 159 Oliviers Berg Farm: C0190000000015900000</p> <p>9. Portion 2 of 157 Riet Fontein Farm: C0190000000015700002</p> <p>10. Remainder of 161 Muishond Rivier Farm: C0190000000016100000</p> <p>11. Remainder of 395 Klipbanks Fontein Farm: C0190000000019500000</p> <p><b>Northern Cape</b></p> <p>12. Portion 4 of 193 Urias Gat Farm: C0720000000019300004</p> <p>13. Portion 6 of 193 Urias Gat Farm: C0720000000019300006</p> <p>14. Remainder of 193 Urias Gat Farm: C0720000000019300000</p> <p>15. Remainder of 194 Matjes Fontein Farm: C0720000000019400000</p> <p>16. Remainder of 196 Karree Kloof Farm: C0720000000019600000</p> <p><b>Properties affected by public road:</b></p>	<p>4. Portion 1 of the Farm Riet Fontein No 157: C0190000000015700001</p> <p>5. Portion 2 of the Farm Riet Fontein No 157: C0190000000015700002</p> <p>6. Portion 1 of the Farm Amandelbloom No 158: C0190000000015800001</p> <p>7. Remainder of the Farm Amandelboom No 158: C0190000000015800000</p> <p>8. Portion 1 of the Farm Oliviers Berg No 159: C0190000000015900001</p> <p>9. Remainder of the Farm Oliviers Berg No 159: C0190000000015900000</p> <p><b>Northern Cape</b></p> <p>10. Portion 4 of the Farm Urias Gat No 193: C0720000000019300004</p> <p>11. Portion 6 of the Farm Urias Gat No 193: C0720000000019300006</p> <p>12. Remainder of the Farm Urias Gat No 193: C0720000000019300000</p> <p>13. Remainder of the Farm Matjes Fontein No 194: C0720000000019400000</p>	<p>5. Klipbanks Fontein No 395: C0190000000039500000</p> <p>6. Remainder of the Farm Muishond Rivier No 159: C0190000000016100000</p> <p><b>Northern Cape</b></p> <p>7. Remainder of the Farm Karree Kloof No 196: C0720000000019600000</p> <p>8. Remainder of the Farm Matjes Fontein No 194: C0720000000019400000</p> <p><b>Properties affected by public road:</b></p> <p>9. Zeekoegat Farm No 169: C0720000000016900000</p> <p>10. Portion 1 of the Farm Roodeheuveld No 170: C0720000000017000001</p> <p>11. Remainder of the Farm Roodeheuveld No 170: C0720000000017000000</p> <p>12. Remainder of the Farm Wind Heuveld No 190: C0720000000019000000</p> <p>13. Portion 1 of the Farm Wind Heuveld No 190: C0720000000019000001</p> <p>14. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p>15. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p> <p>16. The Farm Alkant No 220: C0720000000022000000</p> <p>17. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p>	<p><u>proposed Oya WEF. All affected properties for the Kudusberg WEF as well as majority of the properties affected by the Oya WEF (apart from 1 additional property) were assessed by the respective specialists as part of the original BA process for the authorised Kudusberg WEF and were authorized as such. The additional property included for the Oya WEF was also assessed by the respective specialists as part of this part 2 EA amendment process, including specialist walk-throughs for the proposed Oya WEF layout, and thus the layout has been informed by identified sensitive / "no-go" areas.</u></p> <p>Once again, the nature of the split can be seen as merely administrative to avoid issues during construction periods. The EAP in conjunction with the specialists assessed this amendment and confirmed that there are no disadvantages associated thereto.</p>
--	--	---	---	---



	<p>17. 169 Zeekoegat Farm: C0720000000016900000</p> <p>18. Portion 1 of 170 Roodeheuvel Farm: C0720000000017000001</p> <p>19. Remainder of 170 Roodeheuvel Farm: C0720000000017000000</p> <p>20. Remainder of 190 Wind Heuvel Farm: C0720000000019000000</p> <p>21. Portion 1 of 190 Wind Heuvel Farm: C0720000000019000001</p> <p>22. Portion 5 of 193 Urias Gat Farm: C0720000000019300005</p> <p>23. Remainder of 171 Vinke Kuil Farm: C0720000000017100000</p> <p>24. Alkant Re/220 Farm: C0720000000022000000</p> <p>25. Portion 1 of 174 Lange Huis Farm: C0720000000017400001</p>	<p>14. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p><b>Properties affected by access road:</b></p> <p>15. Zeekoegat Farm No 169: C0720000000016900000</p> <p>16. Portion 1 of the Farm Roodeheuvel No 170: C0720000000017000001</p> <p>17. Remainder of the Farm Roodeheuvel No 170: C0720000000017000000</p> <p>18. Remainder of the Farm Wind Heuvel No 190: C0720000000019000000</p> <p>19. Portion 1 of the Farm Wind Heuvel No 190: C0720000000019000001</p> <p>20. Portion 5 of the Farm Urias Gat No 193: C0720000000019300005</p> <p>21. Remainder of the Farm Vinke Kuil No 171: C0720000000017100000</p> <p>22. Alkant Farm No 220: C0720000000022000000</p> <p>23. Portion 1 of the Farm Lange Huis No 174: C0720000000017400001</p>		
--	--	--	--	--

		24. <u>Remainder of the Farm Baakens Rivier No. 155: C019000000000155000</u>	
<b>Co-ordinates</b>	<p><b>Centre:</b> 32°50' 56.0868"S 20°19' 25.0608"E</p> <p><b>North:</b> 32°40' 29.8812"S 20°24' 57.78"E</p> <p><b>East:</b> 32°43' 53.8212"S 20°29' 32.28"E</p> <p><b>South-East:</b> 32°54' 6.66"S 20°23' 3.7788"E</p> <p><b>South-West:</b> 32°55' 32.0412"S 20°16' 24.8988"E</p> <p><b>West:</b> 32°52' 12.7812"S 20°14' 20.6988"E</p>	<p><b>APPLICATION SITE:</b> <b><u>Coordinates at Corner Points (DD MM SS.sss)</u></b></p> <ol style="list-style-type: none"> <li>1. <u>S32° 46' 11.757"</u> <u>E20° 21' 39.554"</u></li> <li>2. <u>S32° 45' 55.571"</u> <u>E20° 23' 32.919"</u></li> <li>3. <u>S32° 47' 3.530"</u> <u>E20° 23' 8.115"</u></li> <li>4. <u>S32° 48' 14.853"</u> <u>E20° 23' 15.057"</u></li> <li>5. <u>S32° 48' 7.939"</u> <u>E20° 25' 19.086"</u></li> <li>6. <u>S32° 49' 44.075"</u> <u>E20° 24' 59.144"</u></li> <li>7. <u>S32° 50' 41.159"</u> <u>E20° 24' 13.445"</u></li> <li>8. <u>S32° 53' 6.441"</u> <u>E20° 21' 52.752"</u></li> <li>9. <u>S32° 53' 8.532"</u> <u>E20° 21' 53.539"</u></li> <li>10. <u>S32° 54' 36.732"</u> <u>E20° 21' 50.816"</u></li> <li>11. <u>S32° 55' 2.170"</u> <u>E20° 18' 58.064"</u></li> <li>12. <u>S32° 54' 57.184"</u> <u>E20° 17' 28.053"</u></li> <li>13. <u>S32° 55' 48.840"</u> <u>E20° 14' 21.666"</u></li> <li>14. <u>S32° 55' 7.517"</u> <u>E20° 13' 55.356"</u></li> <li>15. <u>S32° 54' 28.981"</u> <u>E20° 13' 34.753"</u></li> <li>16. <u>S32° 54' 34.507"</u> <u>E20° 12' 20.205"</u></li> <li>17. <u>S32° 55' 13.194"</u> <u>E20° 12' 15.385"</u></li> <li>18. <u>S32° 56' 3.895"</u></li> </ol>	<p><b>APPLICATION SITE:</b> <b><u>Coordinates at Corner Points (DD MM SS.sss)</u></b></p> <ol style="list-style-type: none"> <li>1. S32° 48' 14.853" E20° 23' 15.057"</li> <li>2. S32° 48' 7.939" E20° 25' 19.086"</li> <li>3. S32° 49' 44.075" E20° 24' 59.144"</li> <li>4. S32° 50' 41.159" E20° 24' 13.445"</li> <li>5. S32° 50' 46.823" E20° 24' 24.286"</li> <li>6. S32° 54' 9.411" E20° 24' 22.544"</li> <li>7. S32° 54' 48.192" E20° 23' 53.935"</li> <li>8. S32° 56' 23.562" E20° 26' 18.389"</li> <li>9. S32° 57' 26.788" E20° 24' 38.101"</li> <li>10. S32° 56' 35.721" E20° 22' 48.877"</li> <li>11. S32° 56' 42.813" E20° 21' 46.490"</li> <li>12. S32° 57' 27.491" E20° 19' 50.038"</li> <li>13. S32° 59' 45.215" E20° 19' 58.513"</li> <li>14. S32° 59' 5.070" E20° 17' 15.888"</li> <li>15. S32° 59' 11.874" E20° 16' 34.719"</li> <li>16. S32° 57' 11.539" E20° 15' 29.007"</li> <li>17. S32° 55' 48.840" E20° 14' 21.666"</li> <li>18. S32° 55' 23.944"</li> </ol>

		<p><u>E20° 12' 26.330"</u> 19. <u>S32° 56' 12.929"</u> <u>E20° 11' 16.988"</u> 20. <u>S32° 55' 38.363"</u> <u>E20° 9' 20.611"</u> 21. <u>S32° 54' 56.533"</u> <u>E20° 9' 15.790"</u> 22. <u>S32° 54' 45.536"</u> <u>E20° 8' 55.471"</u> 23. <u>S32° 54' 18.000"</u> <u>E20° 9' 11.192"</u> 24. <u>S32° 54' 13.557"</u> <u>E20° 9' 23.325"</u> 25. <u>S32° 53' 59.701"</u> <u>E20° 9' 41.082"</u> 26. <u>S32° 53' 54.356"</u> <u>E20° 9' 40.992"</u> 27. <u>S32° 52' 11.464"</u> <u>E20° 12' 21.280"</u> 28. <u>S32° 52' 9.896"</u> <u>E20° 14' 16.133"</u> 29. <u>S32° 51' 10.304"</u> <u>E20° 13' 32.215"</u> 30. <u>S32° 51' 0.223"</u> <u>E20° 12' 19.238"</u> 31. <u>S32° 50' 51.343"</u> <u>E20° 12' 14.058"</u> 32. <u>S32° 50' 33.384"</u> <u>E20° 12' 39.312"</u> 33. <u>S32° 50' 21.482"</u> <u>E20° 12' 33.983"</u> 34. <u>S32° 49' 38.848"</u> <u>E20° 13' 6.405"</u> 35. <u>S32° 50' 5.733"</u> <u>E20° 15' 50.817"</u> 36. <u>S32° 47' 57.718"</u> <u>E20° 15' 25.332"</u> 37. <u>S32° 48' 16.924"</u> <u>E20° 17' 59.136"</u> 38. <u>S32° 50' 12.452"</u> <u>E20° 19' 31.355"</u> 39. <u>S32° 47' 54.581"</u></p>	<p>E20° 15' 52.693" 19. S32° 52' 9.370" E20° 14' 54.031" 20. S32° 52' 4.579" E20° 15' 50.647" 21. S32° 51' 44.360" E20° 16' 19.552" 22. S32° 51' 27.665" E20° 17' 16.598" 23. S32° 51' 31.913" E20° 20' 32.550" 24. S32° 50' 41.238" E20° 19' 54.404" 25. S32° 49' 35.741" E20° 21' 44.517"</p> <p><b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b> 26. S32° 54' 10.102" E20° 20' 14.737"</p> <p><b>CONSTRUCTION CAMP:</b> <b><u>Coordinates at Centre Point (DD MM SS.sss)</u></b> <b>CENTRE:</b> S32° 51' 46.797" E20° 21' 16.710"</p> <p><b><u>Coordinates at Corner Points:</u></b> <b>CC1_01:</b> S32° 51' 41.254" E20° 21' 2.209" <b>CC1_02:</b> S32° 51' 40.895" E20° 21' 11.315" <b>CC1_03:</b> S32° 51' 46.466" E20° 21' 19.638" <b>CC1_04:</b> S32° 51' 45.812" E20° 21' 26.156" <b>CC1_05:</b> S32° 51' 47.063" E20° 21' 32.475" <b>CC1_06:</b> S32° 51' 50.861" E20° 21' 30.264" <b>CC1_07:</b> S32° 51' 51.339" E20° 21' 26.005"</p>	
--	--	---	---	--

		<p><u>E20° 20' 57.293"</u>  40. <u>S32° 48' 1.255"</u>  <u>E20° 21' 9.303"</u>  41. <u>S32° 47' 54.387"</u>  <u>E20° 21' 10.181"</u>  42. <u>S32° 47' 24.673"</u>  <u>E20° 21' 0.698"</u>  43. <u>S32° 47' 17.149"</u>  <u>E20° 21' 13.982"</u>  44. <u>S32° 46' 59.938"</u>  <u>E20° 21' 22.475"</u>  45. <u>S32° 46' 56.504"</u>  <u>E20° 21' 29.064"</u>  <u><b>Coordinates at Centre Point (DD MM SS.sss)</b></u>  26. <u>S32° 51' 45.765"</u>  <u>E20° 17' 43.464"</u></p> <p><b>CONSTRUCTION CAMP:</b>  <u><b>Coordinates at Centre Point (DD MM SS.sss)</b></u>  <b>CENTRE:</b>  S32° 47' 36.876"  E20° 21' 23.588"  <u><b>Coordinates at Corner Points:</b></u>  <b>CC1_01:</b> S32° 47' 28.108"  E20° 21' 19.647"  <b>CC1_02:</b> S32° 47' 28.329"  E20° 21' 28.144"  <b>CC1_03:</b> S32° 47' 45.815"  E20° 21' 27.943"  <b>CC1_04:</b> S32° 47' 45.598"  E20° 21' 19.332"  <b>CC1_05:</b> S32° 47' 43.103"  E20° 21' 20.053"  <b>CC1_06:</b> S32° 47' 40.376"  E20° 21' 20.085"  <b>CC1_07:</b> S32° 47' 38.132"  E20° 21' 19.168"  <b>CC1_08:</b> S32° 47' 35.632"  E20° 21' 19.015"</p>	<p><b>CC1_08:</b> S32° 51' 53.100"  E20° 21' 24.630"  <b>CC1_09:</b> S32° 51' 43.651"  E20° 21' 0.749"</p> <p><b>SUBSTATION:</b>  <u><b>Coordinates at Corner Points (DD MM SS.sss):</b></u>  <b>SS1_01:</b> S32° 52' 4.061"  E20° 21' 48.372"  <b>SS1_02:</b> S32° 52' 10.456"  E20° 21' 53.934"  <b>SS1_03:</b> S32° 52' 15.215"  E20° 21' 45.714"  <b>SS1_04:</b> S32° 52' 9.014"  E20° 21' 40.229"  <u><b>Coordinates at Centre Point (DD MM SS.sss):</b></u>  <b>CENTRE:</b> S32° 52' 9.655"  E20° 21' 47.079"</p>	
--	--	---	---	--

		<b>CC1_09:</b> S32° 47' 34.407" E20° 21' 18.760"  <b>SUBSTATION:</b> <b>Coordinates at Centre Point (DD MM SS.sss):</b> <b>CENTRE:</b> S32° 54' 24.333" E20° 12' 28.366" <b>Coordinates at Corner Points (DD MM SS.sss):</b> <b>SS1_01:</b> S32° 54' 19.886" E20° 12' 26.843" <b>SS1_02:</b> S32° 54' 23.125" E20° 12' 33.613" <b>SS1_03:</b> S32° 54' 28.772" E20° 12' 29.816" <b>SS1_04:</b> S32° 54' 25.569" E20° 12' 23.122"		
Technical Aspects				
Aspect to be amended	Authorised	Proposed Amendment		Motivation
		Oya WEF	Kudusberg WEF	
Overall Capacity	325 MW	<u>99 MW</u>	<u>226 MW</u>	Each WEF project is intended to be suitable for numerous opportunities such as either the REIPPPP, RMIPPPP, other government run procurement programmes or for sale to private entities, if required.  Simultaneously, these amendments are proposed to increase the efficiency of the facility and consequently, the economic competitiveness thereof. The outcome is therefore the optimal use of the natural wind resource in the area to meet the country's energy demand, without expanding the development area.  The amended layout is more beneficial as wind turbines have been re-positioned outside of very high sensitivity areas. Simultaneously, these amendments are proposed to increase the efficiency of the facility and consequently, the economic competitiveness thereof. The outcome is therefore the optimal use of the natural wind resource in
Number of turbines	56	18	38	
<u>Turbine numbers falling within WEF<sup>14</sup></u>	<u>Turbine numbers 1 - 56</u>	<u>Turbine numbers 1 - 18</u>	<u>Turbine numbers 1 - 38</u>	
Hub height	Up to 140 m	<u>Up to 101 m above the foundation</u>	No Change i.e. up to 140 m	
Rotor diameter	Up to 180 m	<u>Up to 158 m</u>	No Change i.e. up to 180 m	
Blade length	Up to 90 m	<u>Up to 79 m</u>	No Change i.e. up to 90 m	
Layout	-	Layout submitted for final approval. The layout to be approved are contained in <b>Appendix J4</b> . Associated turbine GPS locations will be	Final layout to be submitted prior to the start of construction	

		provided in the Final EA Amendment Report.		<p>the area to meet the country's energy demand, without expanding the development area.</p> <p><b>Kudusberg WEF:</b> The proposed alignment and layout for this WEF is largely unchanged from the 2018 layout authorized as part of the EA. The total number of turbines proposed for this part of the project area increases from 26 to 38, with all new turbines located along ridge lines previously assessed by the specialist in 2018. The addition of the Construction camp has been added into the layout, although this is located in an area previously assessed as part of the original application and EA. All specialist and the EAP found that there were no additional issues that arose as result of this layout or the proposed amendments.</p> <p><b>Oya WEF:</b> There is little substantive change in terms of turbine placement, and the number of turbines proposed for the area remains static. The final layout has been informed by optimising the site for inclusion of the WEF in the RMIPPPP specifically as well as finalising the site development plan. The layout was informed by wind monitoring results, specialist walk-throughs<sup>31</sup> and design considerations of the site, as well as economic efficiency considerations. All specialist assessed the final layout and found the layout to be acceptable from an environmental point of view and found no issues the associated amendments.</p>
<b>Wind Measuring Lattice Masts</b>	Up to 4 x 140 m high depending the final hub height	<u>2 x height of the hub height</u>	2 x up to 140 m high depending the final hub height	In order to accurately measure the onsite wind resource during the operational phase, the met masts must be installed up to the same height as the hub height. This is required in order to accurately report on the wind energy generated during the operational phase of the facility. Furthermore, met masts are required for both WEF as

<sup>31</sup> Condition 29 of Kudusberg EA (DEFF Ref: 14/12/16/3/3/1/1976/AM1) – Page 15 of EA (page 17 of full document): *the final placement of turbines must follow a micro siting procedure involving a walk-through and identification of any sensitive areas by ecological, avifaunal, bat, surface water and heritage specialists.*

				<p>such they have been split between the two proposed WEF.</p> <p>No disadvantages were identified for this proposed amendment.</p>
<b>EMPr</b>	The EMPr submitted as part of the Application for EA is hereby approved.	Approve Final EMPr	To be submitted based on final approval of layout.	<p>The EMPr was approved as part of the authorised layout and is being updated to incorporate the required management plans, as well as the final layout for Oya.</p> <p>The EMPr is also being split between each WEF ensuring that sound management procedures remain in place regardless of the split.</p> <p>The Oya EMPr, will include the final layout informed by the specialist walk-throughs and onsite micro-sighting.</p> <p>No disadvantages were identified for this proposed amendment as it contains and identifies all relevant impacts and associated mitigation measures with the proposed developments.</p>

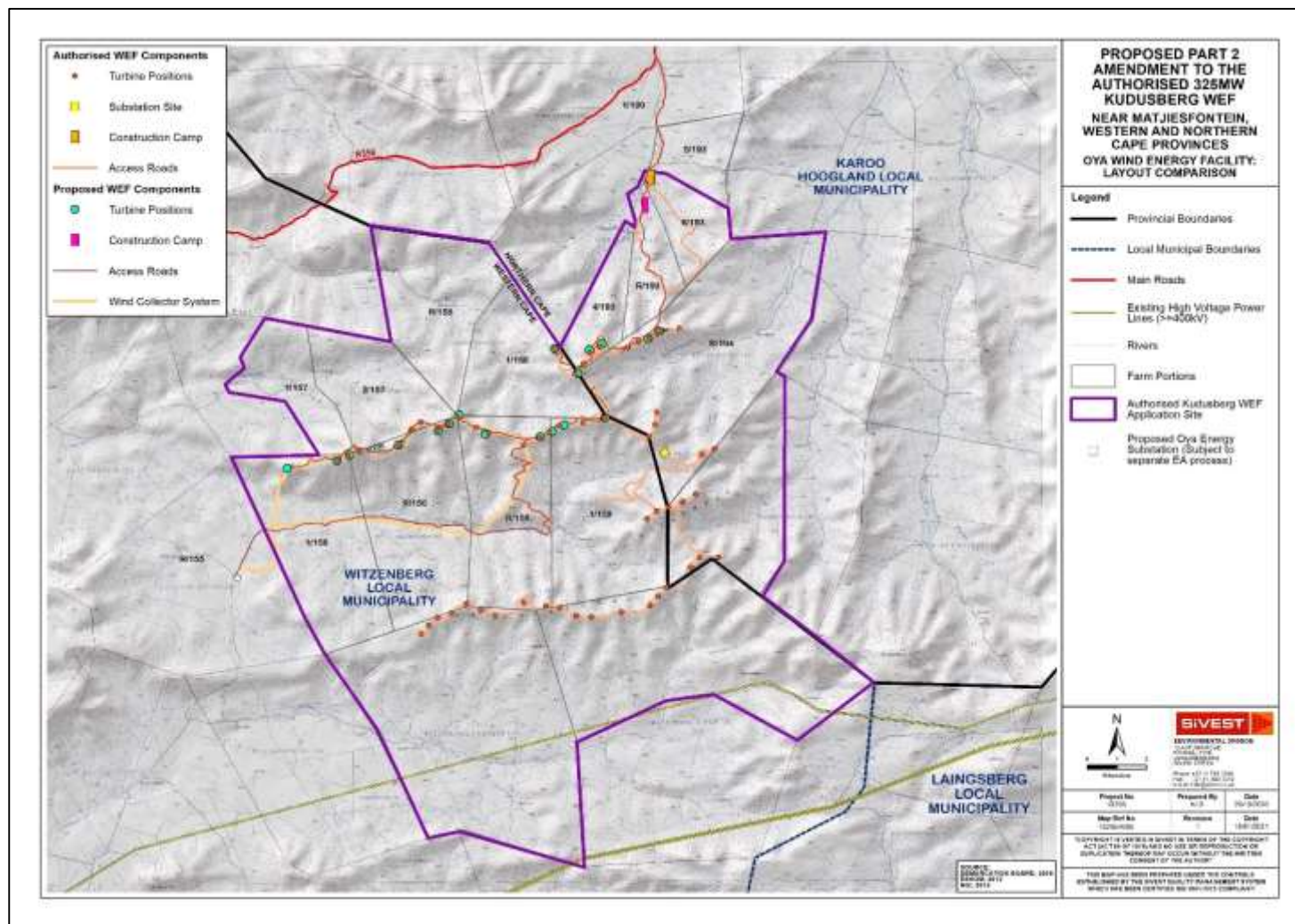
**Specialist Assessments / Walk-throughs**

	<b>Advantages</b>	<b>Disadvantages</b>
<b>Agriculture</b>	There are no agricultural advantages or disadvantages related to the amendments.	
<b>Avifauna</b>	There are no avifaunal related advantages or disadvantages related to the amendments.	
<b>Bats</b>	There are no bat related advantages or disadvantages related to the amendments.	
<b>Biodiversity</b>	There are no ecological advantages or disadvantages related to the amendments.	
<b>Surface Water</b>	Based on the proposed Oya WEF when compared to the original Kudusberg WEF project (as reported upon in FEN Consulting, 2020), the proposed project split is not considered to pose any change in impact / risk significance to the identified and assessed watercourses. As such, no advantages or disadvantages (when considering the authorised specifications, versus the proposed specifications).	
<b>Heritage</b>	There are no heritage related advantages or disadvantages related to the amendments.	
<b>Archaeological and Palaeontological Walk-through</b>	There are no heritage related advantages or disadvantages related to the amendments. Based on the assessment completed, the area proposed for development has an overall low archaeological sensitivity and no new additional significant heritage resources were identified that were not already identified in the original HIA. It is unlikely that the proposed development of the turbines, cables and roads associated with the WEF will negatively impact on significant archaeological or palaeontological heritage. The identified built environment resources and graves do not fall within the development footprint and will not be directly impacted. The sites mapped are all the known sites, both previously recorded and record during the walk-down, located in proximity to the final proposed layout.	
<b>Palaeontology</b>	From a Palaeontological perspective there will be no advantages or disadvantages of the proposed split.	

<b>Socio-Economic</b>	The split of the authorised 325 MW Kudusberg WEF would result in a phased period of the identified positive impacts which in turn would be advantageous to both local/ regional economies.	The disadvantage of the split of the authorised 325 MW Kudusberg WEF, lies in the prolonged period of identified negative impacts (i.e. criminal activity, social ills, impacts on farms, etc.), however, the identified disadvantage could be reduced through the implementation of the environmental management programme
<b>Noise</b>	There are no noise related advantages related to the amendments.	There is no disadvantages to splitting the wind farm into smaller components from a noise impact perspective as the only implication will be administrative in nature i.e. allocating turbines to a separate legal entities
<b>Transport</b>	The individual WEFs will generate less traffic during the construction and decommissioning phases as the overall capacity of 325MW (i.e. number of turbines) of the original Kudusberg WEF will be distributed between the two (2) smaller WEF projects.	None
<b>Visual</b>	The smaller turbines proposed for the Oya WEF will be less visible from the surrounding area, thus reducing the visual sensitivity of the Oya WEF site.  Another benefit would be clustering the two (2) wind farms in line with the REDZ intention.	The amended turbine layouts will only affect one potentially sensitive receptor, this being VR13. The proximity of the nearest turbine to this receptor increases the impact rating for this receptor from Moderate to High. As this receptor is located on the Kudusberg WEF development site however, it is assumed that the owner of this receptor has a vested interest in the development and as such would not perceive the WEF in a negative light.



A comparison of the authorised Kudusberg WEF layout and the proposed Oya WEF layout following specialist comments and detailed walk-throughs, as well the changes made to the specifications presented in Draft EA Amendment Assessment Report, is represented in **Figure 8** below.



**Figure 8:** Layout comparison for authorised Kudusberg WEF and proposed Oya WEF

**KUDUSBERG WIND FARM (PTY) LTD**

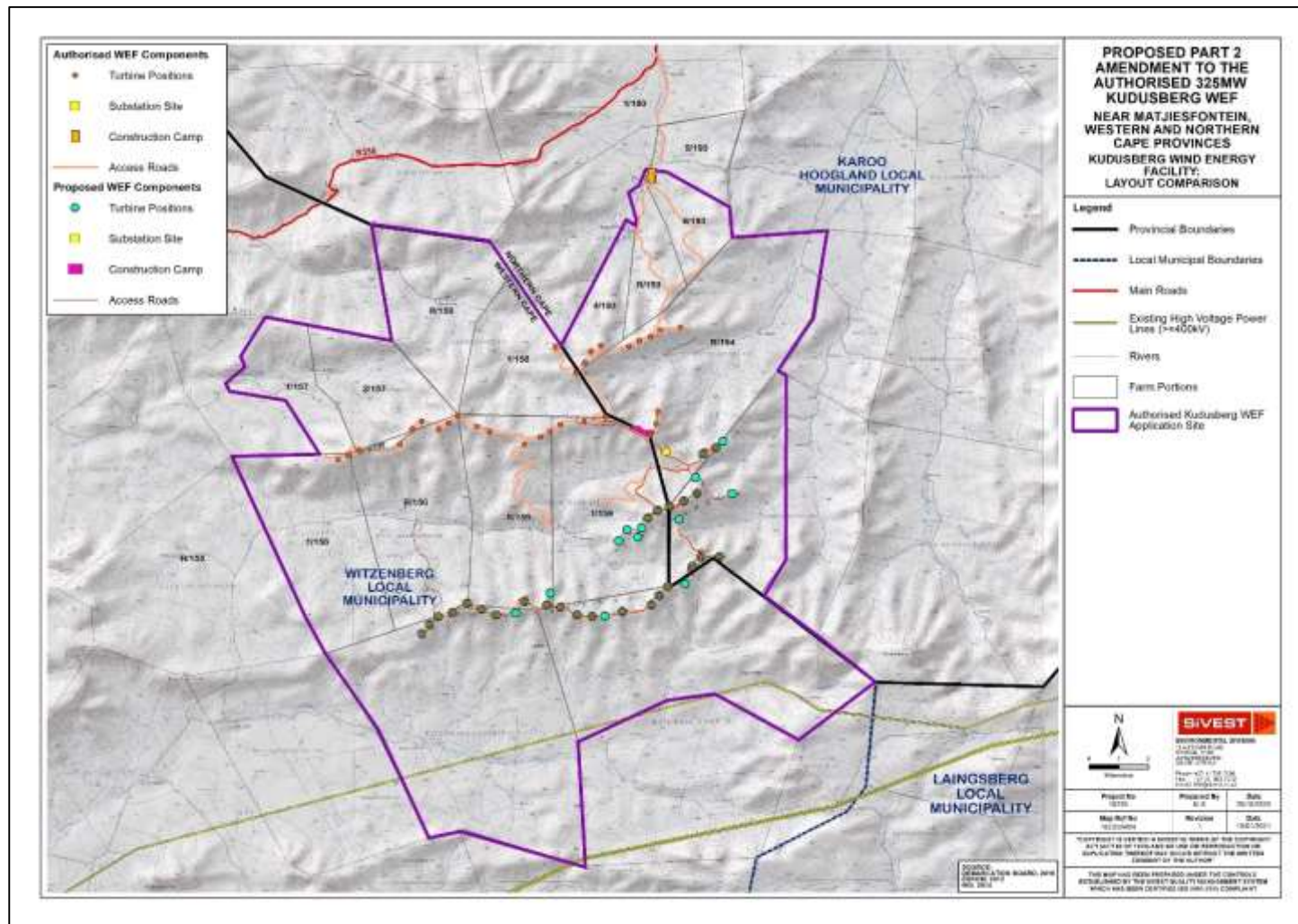
Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

prepared by: **SIVEST Environmental**

A comparison of the authorised Kudusberg WEF layout and the new proposed Kudusberg WEF layout following specialist comments and detailed walk-throughs, as well the changes made to the specifications presented in Draft EA Amendment Assessment Report, is represented in **Figure 9** below.



**Figure 9:** Layout comparison for authorised Kudusberg WEF and new proposed Kudusberg WEF

**KUDUSBERG WIND FARM (PTY) LTD**

Part 2 EA Amendment for Proposed Development of 325MW Kudusberg Wind Energy Facility – Revised Draft EA Amendment Assessment Report

Version No: 1.0

25 January 2021

prepared by: SiVEST Environmental

## 7 PUBLIC PARTICIPATION

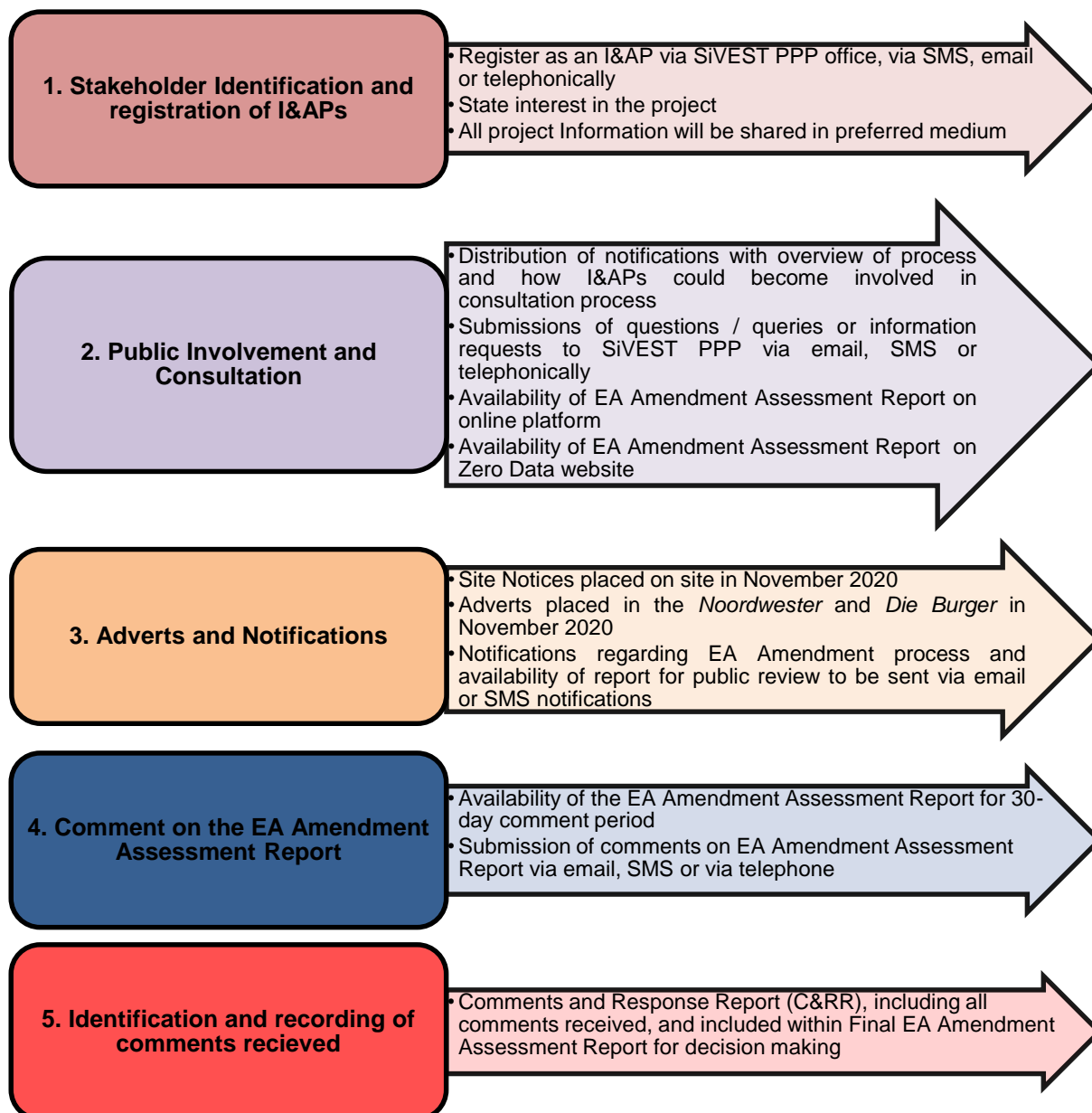
In terms of Chapter 6 of the EIA Regulations, 2014 (as amended), a Part 2 EA Amendment application requires a 30-day Public Participation Process (PPP).

In light of the country wide restriction enforced in terms of Government Gazette 43096 which has resulted in the entire country being placed in a national state of disaster and limits on the movement and gatherings of people in an effort to curb the spread CoVID-19, the public participation process has been amended and adjusted in light of these restrictions. In response, SiVEST has formulated a unique Public Participation process which is as closely related to the requirements of Regulations 39 to 44 of the EIA Regulations, 2014, as amended, (GNR 326) as possible.

It should be noted that General Notice issued by the DEFF on 24 March 2020, as well as Government Notice No. 650 issued by the DEFF on 05 June 2020, were being adhered to during Level 3 of the national lockdown period. However, during a meeting held with the SAWEA on 25 August 2020, the DEFF indicated that the Directive issued by the Department on 05 June 2020 (Government Gazette 43412) related to level 3 lockdown, has been repealed, based on the current lockdown level. Therefore, as it stands, there is no indication that a new directive will be issued, and the “normal” EIA Regulations are currently in force. DEFF however highlighted that Applicants must continue to adhere to the applicable provisions of the Disaster Management Act and associated Regulations (e.g. restrictions on gatherings for public meetings) and hence some elements included in the lockdown directive (05 June 2020 - Government Gazette 43412), mainly as it pertains to PPP, are still relevant and that this directive can be used as a consultation guide for all new applications. The Applicant will thus continue to adhere to applicable provisions of Disaster Management Act and associated Regulations.

As a result, **alternative means** of undertaking the required stakeholder engagement have been designed and implemented by SiVEST to ensure that all I&APs are afforded reasonable opportunity to engage meaningfully. As such, SiVEST proposed amendments to the public participation process, described in more detail below. This Public Participation Plan was submitted to DEFF on 03 November 2020, and was subsequently approved on 16 November 2020. The Public Participation plan, along with proof of approval, can be found in **Appendix E9**.

**Figure 10** below provides an overview of the tools that are available to I&APs and stakeholders to access project information and interact with the public participation team to obtain project information and resolve any queries that may arise, and to meet the requirements for public participation. **Table 15** below shows how the amended PPP has been implemented in accordance to Regulations 39 to 44 of the EIA Regulations, 2014, as amended, (GNR 326), as well as adherence to the applicable provisions of the Disaster Management Act and associated Regulations (e.g. restrictions on gatherings for public meetings) and hence some elements included in the lockdown directive (05 June 2020 - Government Gazette 43412), mainly as it pertains to PPP.



**Figure 10:** Schematic illustration of PPP tools

**Table 15:** Public Participation Plan: Discussion of approach and methodology to meet the requirements of the Regulations (Please see **Appendix E9** for full approved plan)

Regulation / circular	Approach & Methodology to meet requirements
<p>Regulation 40(1), Regulation 40(3) &amp; Regulation 43 – provide all potential or registered interested and affected parties, including the competent authority, <b>access to project related information</b>, access to the EA Amendment Assessment Report which will be made available for a period of at least 30 days to <b>submit comments on the draft report</b> prior to submission of the Final Report for decision-making.</p>	<p>It is the intention to release all relevant project information to all interested and affected parties for a 30-day period</p> <p><b>Notification of EA Amendment process to be distributed using the following means:</b></p> <ul style="list-style-type: none"> <li>• Issuing of the notifications and initial landowner consultation (circulated to all I&amp;APs on 13 November 2020) (proof included in <u>Revised Draft</u> EA Amendment Assessment Report – <b>Appendix E7</b>).</li> <li>• Placement of site notices in English and Afrikaans (as per regulations) on one (1) of the boundaries of the affected properties, namely Portion 1 of the Farm Gats Rivier No 156 (32°53'31.56"S; 20°13'4.74"E). Placed on 05 November 2020 (proof included in EA Amendment Assessment Report – <b>Appendix E1</b>).</li> <li>• Notification letter sent via E-mail or sms (if cellphone number / email is available, it is assuming the I&amp;AP have an email or cellphone) (<b>Appendix E2, Appendix E7 and Appendix E8</b>).</li> <li>• <b>ALL identified I&amp;APs has access to at least email or cellphone (Appendix 1 and Appendix 2)</b></li> <li>• Public notification of the EA Amendment process advertised in a local newspaper (namely <i>the Noordwester</i>) and provincial newspaper (<i>Die Burger</i>) as required according to Regulation 41(2) (c) of the EIA Regulations (2014), as amended (<b>Appendix E3</b>).</li> </ul> <p><b>Availability of report for review:</b></p> <ul style="list-style-type: none"> <li>• Report available on the Kudusberg website for free download.</li> <li>• Dedicated data free portal for online stakeholder engagement platform.</li> <li>• Digital Tablet uploaded with the EA Amendment Assessment Report at the Sutherland Police Station, Witzenberg Local Municipality offices and Laingsburg Local Library**.</li> <li>• An electronic copy can be made available to parties via a secure digital link that will be emailed upon request for the documentation.</li> <li>• CDs / Flash drive to be posted, only if requested<sup>32</sup>.</li> <li>• Digital Tablet uploaded with the Draft EA Amendment Assessment Report at the Sutherland Police Station, Witzenberg Local Municipality offices and Laingsburg Local Library.</li> </ul>

<sup>32</sup> The use of postage will only be required should and I&AP request that the documents be sent to them via CD or flash drive. All I&APs and OoS have either email / sms and will be sent an electronic link to the website where the reports can be reviewed or downloaded, as well as a data free portal where the report can be reviewed. Should any I&APs / stakeholders / Oos request documents via post or courier, this will be indicated and proof will be provided in the final report.

Regulation / circular	Approach & Methodology to meet requirements			
	The tablet will be located at the following locations and will be available for review at the below designated times:			
	<b>Locations</b>	<b>Address</b>	<b>Open Hours</b>	<b>Contact**</b>
	Laingsburg Local Library	Van Riebeeck Street Laingsburg 6900	Mondays - Fridays 9am – 1pm 1:30pm – 3pm	023-5511019
	Sutherland Police Station	21 Piet Retief Street Sutherland	8am-5pm for viewing	023-5718040
	Witzenberg Local Municipality	53 Voortrekker Street Ceres	8am-4pm for viewing	023-3168554
	<p><b>** In light of the requirements enforced by the Government Gazette 43096 and the limits on the movement and gatherings of people in an effort to curb the spread CoVID-19, Constable Koopman (<a href="mailto:PSmTis@saps.gov.za">PSmTis@saps.gov.za</a>) has confirmed that the report will be sanitized after every viewing. There will also be a bottle of hand sanitizer next to the tablet where the user can sanitize themselves and the report as well to prevent the spread of CoVID-19. A site notice will also be placed next to the report detailing the project details and encouraging the public to practice social distance (i.e. one at a time), ensure the wearing of masks and the use of hand sanitizer while viewing the report.</b></p>			
	<p><b>** Mr. Hennie Taljaard of the Witzenberg Local Municipality confirmed that he will meet any I&amp;APs wishing to view the digital Tablet in order to explain how the digital Tablet works and to provide assistance (if possible).</b></p>			
	<p><b><u>Availability to comment:</u></b> Comments can be submitted in various mediums detailed in the row below, and will be captured and responded to by the SiVEST PPP Office.</p>			
	<p><b>***Where I&amp;APs do not have the applicable facilities i.e. access to internet, mobile phones, or computers, provision will be made for the use of an electronic tablet which will contain the full report where all members of the communities can view the report.</b></p>			
<p>Regulation 40(2) - Provide access to all project information that has the potential to influence any decision regarding the application, unless protected by law, and must include <b>consultation</b> with Competent Authority, Organs of State &amp; registered I&amp;APs.</p>	<ul style="list-style-type: none"> <li>• Report will be submitted to the DEFF using the DEFF online portal.</li> <li>• Report will be submitted to Organs of State and commenting authorities via an agreed electronic platform (via a secure digital link).</li> </ul> <p><b><u>Availability of report via means described above.</u></b></p> <p><b><u>Submission of comments to EAP:</u></b></p>			

Regulation / circular	Approach & Methodology to meet requirements
<p>Regulation 41(6) – Relevant information available and accessible</p>	<ul style="list-style-type: none"> <li>• Comments will be able to be submitted directly to the EAP using the SiVEST <a href="mailto:sivest_ppp@sivest.co.za">sivest_ppp@sivest.co.za</a> email address or cell phone via call, SMS or WhatsApp.</li> <li>• Written comments can also be submitted via email or fax.</li> <li>• This is deemed to be sufficient as all I&amp;APs have either access to email or cellphone.</li> </ul> <p>Any comments provided telephonically or via instant message will be transcribed and recorded as formal comments.</p> <p>Provision of project information and consultation via various means including:</p> <ul style="list-style-type: none"> <li>▪ Telephonic consultation.</li> <li>▪ Email correspondence.</li> <li>▪ SMS and/or WhatsApp.</li> <li>▪ The Dedicated data free portal platform will ensure that I&amp;APs are afforded sufficient opportunity to participate in the project and raise comments on the project with interest in the EA Amendment Assessment process for the project. This online stakeholder engagement platform will include the following: <ul style="list-style-type: none"> <li>○ Project maps (including locality map, layout map, sensitivity map, landowner map, etc.)</li> <li>○ Photos of the project site and surrounds</li> <li>○ Presentation providing a summary of the project details and the findings of the EA Amendment process</li> <li>○ Posters providing a summary of the findings of the EA Amendment process</li> <li>○ A means of submitting written comment or queries.</li> </ul> </li> <li>▪ Virtual meetings, if required, will be conducted using an appropriate platform agreeable to all parties (such as Zoom, Skype or Microsoft Teams). The meetings will be recorded, and the attendees' details captured in an attendance register. Confirmation of their attendance will also be requested by e-mail and the correspondence will be included in the report.</li> </ul> <p><i>It should be noted that the use of postage will only be required should and I&amp;AP request that the documents be sent to them via CD or flash drive. All I&amp;APs and OoS have either email / sms and will be sent an electronic link to the website where the reports can be reviewed or downloaded, as well as a data free portal where the reports can be reviewed. Should any I&amp;APs / stakeholders / OoS request documents via post or courier, this will be indicated and proof of postage will be provided in the final report. In addition, the project database in the final report will reflect whether any I&amp;AP / stakeholder / OoS / Authority received the documents via post or courier.</i></p>
<p>Regulation 41(2)(a) – Site notice</p>	<ul style="list-style-type: none"> <li>• Placement of site notices in English and Afrikaans (as per regulations) were placed on one (1) of the boundaries of the affected properties, namely Portion 1 of the Farm Gats Rivier No 156 (32°53'31.56"S; 20°13'4.74"E). Placed on 05 November 2020 (<b>Appendix E1</b>).</li> </ul>

Regulation / circular	Approach & Methodology to meet requirements
	<ul style="list-style-type: none"> <li>• Size and content is in accordance with Regulation 41(3) &amp; 41(4).</li> <li>• Proof incorporated into the EA Amendment Assessment Report (<b>Appendix E1</b>)</li> </ul>
Regulation 41(2)(b) – <b>Written notification</b> to affected and neighbouring landowners and occupiers; municipality; ward councilors; Organs of State & other parties required by the CA	<ul style="list-style-type: none"> <li>• Notification letters to all I&amp;APs (Appendix 1 of PP Plan – <b>Appendix E9</b>) and OoS (Appendix 2 of PP Plan – <b>Appendix E9</b>) sent via email and SMS (<b>Appendix E2, Appendix E7 and Appendix E8</b>).</li> <li>• Proof of <u>additional</u> notifications will also be incorporated into the Final EA Amendment Assessment Report</li> </ul>
Regulation 41(2)(c) – (e) – <b>Advertisements</b>	<ul style="list-style-type: none"> <li>• Public notification of the EA Amendment Assessment process advertised in a local newspaper (namely the Noordwester) and provincial newspaper (namely Die Burger) as required according to Regulation 41 (2) (c) of the EIA Regulations (2014), as amended (<b>Appendix E3</b>).</li> <li>• Process notices (A4 size) with site notice details placed at the Sutherland Police Station, Witzenberg Local Municipality offices and Laingsburg Local Library.</li> </ul>
Regulation 42 – <b>Project database</b>	<ul style="list-style-type: none"> <li>• I&amp;APs have been identified through a process of networking and referral, obtaining information from the SiVEST existing stakeholder database, the existing stakeholder database for the authorised Kudusberg WEF (14/12/16/3/3/1/1976/AM1), proposed Oya Energy Facility (14/12/16/3/3/2/2009) database, neighbouring projects and liaison with potentially affected parties in the greater surrounding area.</li> <li>• Organs of State, key stakeholders and affected and surrounding landowners have been identified and registered on the project database.</li> <li>• Other stakeholders will be required to formally register their interest in the project through either directly contacting the SiVEST Public Participation team via phone, email or fax or use of the SiVEST or Kudusberg website.</li> <li>• In order to access the Kudusberg Data Free Portal platform for a specific project, I&amp;APs will be required to provide their details such that they are automatically registered on the project database.</li> <li>• The register of I&amp;APs will contain the names of:</li> <li>• all persons who requested to be registered on the database through the use of the Kudusberg website, or in writing and disclosed their interest in the project;</li> <li>• all Organs of State which hold jurisdiction in respect of the activity to which the application relates; and all persons who submitted written comments or attended virtual meetings and viewed virtual presentations on the Kudusberg website during the public participation process.</li> </ul>



Regulation / circular	Approach & Methodology to meet requirements
	<ul style="list-style-type: none"> <li>The information captured on the project database will contain the names, organisation and contact details, as required.</li> </ul> <p><b>All I&amp;APs have access to either email or a cellphone.</b></p>
Regulation 44 – <b>Comments</b> to be recorded	<ul style="list-style-type: none"> <li>Comments will be able to be submitted directly to the EAP using the SiVEST <a href="mailto:sivest_ppp@sivest.co.za">sivest_ppp@sivest.co.za</a> email address or cell phone via call, SMS or WhatsApp.</li> <li>Written comments can also be submitted via calls, SMS, WhatsApp, email or fax.</li> <li>Any comments provided telephonically or via instant message will be transcribed and recorded as formal comments.</li> <li>I&amp;APs without the applicable electronic facilities to access the Kudusberg website will be provided with the opportunity to submit their comments and communicate with the public participation team via SMS, WhatsApp or by sending a Please-call-me notification. These comments will be transcribed and recorded as formal comments.</li> <li>All comments received throughout the EA Amendment process will be acknowledged and captured in the C&amp;RR with a relevant response.</li> <li>The C&amp;RR will be included in the final report submitted to the CA.</li> </ul> <p><i>It should be noted that I&amp;APs / stakeholders / OoS will be notified throughout the EA Amendment process to provide comments via the methods mentioned in this PPP. They will also be advised to contact SiVEST directly, if required, in which case other arrangements can be made (if required). SiVEST's public participation email address is monitored on a daily basis to confirm whether any comments or queries have been received. Once a comment is received the project team will save a copy, respond accordingly (using an appropriate method) and the comment / query will also be added to the C&amp;RR (along with an appropriate response), which will be attached to the final report for consideration. SiVEST will also include all proof of correspondence with I&amp;APs, stakeholder and OoS as part of the EA Amendment Assessment Report, while the project database in the report will reflect whether any I&amp;AP / stakeholder / OoS / Authority received the documents via post or courier.</i></p>
Regulation 4(2) – Notification of <b>decision</b> on application	<p><b>Notification of Amendment of EA</b> using the following means:</p> <ul style="list-style-type: none"> <li>Notification letter with details as outlined in the Amended EA issued sent via email and SMS (same method used during public consultation described above) (<b>Appendix E2, Appendix E7 and Appendix E8</b>).</li> <li>Notification will be available on the project website, as well as the Data Free Portal.</li> </ul>

## 7.1 Notification of Affected Landowners and Provincial Authorities

All affected landowners, as well as the relevant provincial authorities, namely the Northern Cape Department of Environment and Nature Conservation (NC DENC) and Western Cape Department of Environmental Affairs and Development Planning (WC DEA&DP), as well as CapeNature, were notified about the EA Amendment Application via email prior to submission of the application to the DEFF on 13 November 2020. Proof of these notifications is provided in **Appendix E7**.

## 7.2 Notification of Potential Interested and Affected Parties (I&APs)

The advertising process was followed in compliance with Regulation 41 of the EIA Regulations, 2014 (as amended).

Advertisements (in English and Afrikaans) were placed in the “*Noordwester*” local newspaper as well as “*Die Burger*” provincial newspaper, on 06<sup>th</sup> and 13<sup>th</sup> of November 2020 respectively. Proof that the above-mentioned advertisements were placed is provided in **Appendix E2**.

In addition, site notices (in English and Afrikaans) were erected on one (1) of the boundaries of the affected properties on 05 November 2020. A copy of the site notices is provided in **Appendix E1**. Proof of the site notices (including GPS coordinates) which were erected is also included in **Appendix E1**.

I&APs and stakeholders who responded to these advertisements were registered on the project database and sent all relevant information as the amendment process progressed.

## 7.3 Comment and Review of Draft EA Amendment Assessment Report and Revised Draft EA Amendment Assessment Report

The EA Amendment Assessment Report was circulated for public participation for a period of 30 days<sup>33</sup> (excluding public holidays) from **18 November 2020 until 11 January 2021**. In light of the countrywide restriction enforced in terms of Government Gazette 43096, which has resulted in the entire country being placed in a national state of disaster, which limits the movement and gathering of people in an effort to curb the spread CoVID-19, the public participation process has been amended and adjusted in light of these restrictions. In response, SiVEST has formulated a unique Public Participation process which is as closely related to the requirements of Regulations 39 to 44 of the EIA Regulations, 2014, as amended, (GNR 326) as possible (**Appendix E9**).

As a result, SiVEST have implemented a virtual and electronic public participation process, in which electronic Tablets are located at public venues (namely the Sutherland Police Station, Witzenberg Local Municipality Office and Laingsburg Local Library) in conjunction with a ‘data free’ website which has been set up in a way where the Draft Report can be either viewed and/or downloaded free of charge. Furthermore, electronic copies of the Draft EA Amendment Assessment Report were made available on a website which is a DFP (<http://ppp.g7energies.com/K7khasco90m>), whereby all registered I&APs could download the documents at no data cost to themselves. The Revised Draft EA Amendment Assessment Report will also be made available on the same DFP website (<http://ppp.g7energies.com/K7khasco90m>). This will ensure that all project related information associated with the amendment process is readily available and accessible to any person with interest

---

<sup>33</sup> DEFF have approved a 30-day Public Participation Process (Refer to **Appendix I1** – Additional information)

in the project, enabling the public participation process to be undertaken in line with Regulations 41 to 44 of the EIA Regulations, 2014, as amended. Written notice via email and SMS was given to all I&APs, key stakeholders and OoS / Authorities registered on the database that the Draft EA Amendment Assessment Report was available for comment and review (**Appendix E2**). Electronic copies (CDs / Flash Disk) of the report were also be distributed on written request, otherwise a link to the report was shared with all OoS and I&APs (see **Appendix E5** for all correspondence undertaken as part of the amendment process to date, including any requests for electronic copies of the report).

The inputs received from authorities and I&APs following the 30-day review and comment period of the Draft EA Amendment Assessment Report have been recorded and addressed. All comments received to date have been responded to in the Comments and Response Report (C&RR), which is included as **Appendix E6**. The C&RR provides a summary of the issues and concerns raised, as well as responses provided to I&APs and key stakeholders.

It should be noted that due to the project changes made by the Applicant after the submission of the Draft EA Amendment Assessment Report, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period. The Revised Draft EA Amendment Assessment Report (this report) was sent out for review and comment on 25 January 2021. The Revised Draft EA Amendment Assessment Report (this report) will therefore be available for review and comment for a period of 30-days (excluding public holidays) from **25 January 2021 to 24 February 2021**. As mentioned, SiVEST formulated a unique Public Participation process which is as closely related to the requirements of Regulations 39 to 44 of the EIA Regulations, 2014, as amended, (GNR 326) as possible (**Appendix 4** and **Appendix E9**). As a result, electronic Tablets are located at public venues (namely the Sutherland Police Station, Witzenberg Local Municipality office and Laingsburg Local Library) in conjunction with a 'data free' website which has been set up in a way where the Revised Draft EA Amendment Assessment Report can be either viewed and/or downloaded free of charge. Furthermore, electronic copies of the Draft Reports (Draft EA Amendment Assessment Report and Revised Draft EA Amendment Assessment Report) have also been made available on a website (<http://ppp.g7energies.com/K7khasco90m>), whereby all registered I&APs can download the documents. Written notice via email and SMS will be given to all I&APs, key stakeholders and OoS / Authorities registered on the database that the Revised Draft EA Amendment Assessment Report (this report) is available for comment and review (**Appendix E2**). Electronic copies (CDs / Flash Disk) of the report will also be distributed on written request, otherwise a link to the report will be shared with all OoS and I&APs.

All comments received following the review and comment period for the Revised Draft EA Amendment Assessment Report will be responded to in the C&RR, which forms part of this report (**Appendix E6**) and will also be included prior to submission of the Final EA Amendment Assessment Report and EMPr to the decision-making authority, namely the DEFF. All comments received throughout the EA Amendment process (including comments received during the Draft and Revised Draft EA Amendment Assessment Report's commenting periods) will also be incorporated into the Final EA Amendment Assessment Report, which will then be submitted to the competent authority for decision-making.

It should be noted that A Public Participation Plan (**Appendix E9**) was compiled by the EAP and was subsequently approved by the DEFF (**Appendix 4** and **Appendix E9**).

## 7.4 Stakeholders and I&APs

I&APs, key stakeholder and/or OoS / Authorities were identified using:

- Email and/or sms notifications<sup>34</sup> to all I&APs key stakeholder and OoS / Authorities on the project database (Proofs included in **Appendix E2**).
- Referrals.

A full database list of registered I&APs, key stakeholder and OoS / Authorities was compiled and is included in **Appendix E4**.

## 7.5 Announcing the Opportunity to Participate

The opportunity for I&APs, key stakeholder and OoS / Authorities to participate in the EA amendment process was communicated in the following manner:

- All affected landowners, as well as the relevant provincial authorities (NC DENC and WC DEA&DP), as well as, CapeNature, were notified about the EA Amendment Application via email prior to the application being submitted to the DEFF on 13 November 2020 (**Appendix E7**);
- Notification letters, advising of the EA amendment process and comment period will be distributed (via email and sms) the week of 16 - 20 November 2020 (**Appendix E2, Appendix E7 and Appendix E8**);
- The Draft EA Amendment Assessment was made available to the public for review on a website which is a DFP (<http://ppp.g7energies.com/K7khasco90m>), whereby all registered I&APs could download the document at no data cost to themselves, for a period of 30 days **from Wednesday 18 November 2020 to Monday 11 January 2021**, excluding public holidays and the DEFF's December closure period (**Appendix E2 and Appendix E10**);
- Written notice via email and SMS was given to all I&APs, key stakeholders and OoS / Authorities registered on the database that the Draft EA Amendment Assessment Report was available for comment and review (Appendix E2). Electronic copies (CDs / Flash Disk) of the report were also be distributed on written request, otherwise a link to the report was shared with all OoS and I&APs (see Appendix E5 for all correspondence undertaken as part of the amendment process to date, including any requests for electronic copies of the report);
- All I&APs, key stakeholders and OoS / Authorities were reminded about the closure of the 30-day review and comment period as well as reminded to provide comments (if required) (Appendix E2);
- The Revised Draft EA Amendment Assessment is being made available to the public for review on a website which is a DFP (<http://ppp.g7energies.com/K7khasco90m>), whereby all registered I&APs can download the document at no data cost to themselves, for a period of 30 days **from Monday 25 January 2021 to Wednesday 24 February 2021**, excluding public holidays (Proof to be included in Final EA Amendment Assessment Report); and
- Written notice via email and SMS will be given to all I&APs, key stakeholders and OoS / Authorities registered on the database that the Revised Draft EA Amendment Assessment Report was available for comment and review (Proof to be included in Final EA Amendment Assessment Report). Electronic copies (CDs / Flash Disk) of the report will also be distributed on written request, otherwise a link to the report will be shared with all OoS and I&APs (Proof to be included in Final EA Amendment Assessment Report); and

<sup>34</sup> It should be noted that the use of postage will only be required should and I&AP request that the documents be sent to them via CD or flash drive. All I&APs and OoS have either email / sms and will be sent an electronic link to the website where the reports can be reviewed or downloaded, as well as a data free portal where the reports can be reviewed. Should any I&APs / stakeholders / OoS request documents via post or courier, this will be indicated and proof of postage will be provided in the BA Report. In addition, the project database in the report will reflect whether any I&AP / stakeholder / OoS / Authority received the documents via post or courier.

- All I&APs, key stakeholders and OoS / Authorities will be reminded about the closure of the 30-day review and comment period as well as reminded to provide comments (if required) (Proof to be included in Final EA Amendment Assessment Report).

## 7.6 Proof of Notification

Proof of notification of the I&APs is included in **Appendix E2**. More specifically, the types of proofs include the following:

- Proof of notification of affected landowners and relevant provincial authorities (namely NC DENC and WC DEA&DP), as well as CapeNature, about the EA Amendment Application (**Appendix E7**);
- Site notice text (**Appendix E1**);
- Photographs and Global Positioning System (GPS) Coordinates of site notices (**Appendix E1**);
- Proof of advertisements (namely tear-sheets) in the “Noordwester” local newspaper and “Die Burger” provincial newspaper (**Appendix E3**);
- Proof of written notice (via email and SMS) given to all I&APs, key stakeholders and OoS / Authorities registered on the database that reports are available for comment and review (**Appendix E2**);
- Proof of reminder notifications (via email and SMS) to all I&APs, key stakeholders and OoS / Authorities registered on the project database about the closure of the 30-day review and comment period as well as reminder about providing comments (if required) (**Appendix E2**);  
and
- Correspondence to and from registered I&APs and key stakeholders, where received (**Appendix E5**).

## 7.7 Comments and Response Report (C&RR)

Issues, comments and concerns raised throughout the EA Amendment process to date (including comments received during the commenting period for the Draft EA Amendment Assessment Report) have been captured in the Comments and Response Report (C&RR) (**Appendix E6**). The C&RR provides a summary of the issues raised, as well as the responses provided to I&APs, key stakeholders and OoS / Authorities. This information has been used to feed into the evaluation of environmental and social impacts and will also be taken into consideration when finalising the EA Amendment Assessment Report. All comments received through the amendment process (including comments received during the commenting periods for the Draft and Revised Draft EA Amendment Assessment Reports) will be included in the C&RR, which will be submitted as part of the final report. All comments received to date have been included in the C&RR (**Appendix E6**).

## 7.8 Distribution to Organs of State (OoS) / Authorities

**Table 16** below includes all the key stakeholders / OoS / authorities who were emailed electronic copies of the Draft EA Amendment Assessment Report (including all appendices) at the start of the 30-day comment and review period. Proof of this is also included in **Appendix E8**. These key stakeholders / OoS / authorities will also be emailed electronic copies of the Revised Draft EA Amendment Assessment Report (this report), including all appendices, at the start of the 30-day comment and review period (Proof to be included in Final EA Amendment Assessment Report). The remaining proofs of distribution (i.e. email notification) will be included in the Final EA Amendment Assessment Report.

It should be noted that all key stakeholders / OoS / authorities were reminded near the end of the 30-day comment and review period for the Draft EA Amendment Assessment Report to submit comments before this period closed. Comments received from key stakeholders / OoS / authorities during the 30-day comment and review period for the Draft EA Amendment Assessment Report have been incorporated into the Revised Draft EA Amendment Assessment Report (this report), which has been submitted to the competent authority (namely the DEFF). All key stakeholders / OoS / authorities will also be contacted near the end of the 30-day comment and review period for the Revised Draft EA Amendment Assessment Report (this report) and will be reminded to submit comments before this period closes. Comments received from key stakeholders / OoS / authorities during the 30-day comment and review period of this report will be incorporated into the Final EA Amendment Assessment Report, which will then be submitted to the competent authority (namely the DEFF) for decision-making.

**Table 16:** Distribution of Draft EA Amendment Assessment Report to OoS

PART 2 ENVIRONMENTAL AUTHORISATION (EA) AMENDMENT PROCESS FOR THE KUDUSBERG WIND ENERGY FACILITY (WEF), BETWEEN MATJIESFONTEIN AND SUTHERLAND IN THE WESTERN AND NORTHERN CAPE PROVINCES							
DISTRIBUTION OF THE EA AMENDMENT ASSESSMENT REPORT TO ORGANS OF STATE FOR COMMENT							
TITLE	SURNAME	NAME	POSITION	EMAIL ADDRESS	FORMAT DOCUMENT IS SHARED	METHOD OF COMMUNICATION	
						EMAIL	SMS
<b>CAPE WINELANDS DISTRICT MUNICIPALITY</b>							
Mr	Mgajo	M	Municipal Manager	<a href="mailto:mm@capewinelands.gov.za">mm@capewinelands.gov.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments.</u></p>	√	
Mr	Du Plessis	Kobus	LED and Land Use Planning	<a href="mailto:kobusdp@capewinelands.gov.za">kobusdp@capewinelands.gov.za</a>		√	
<b>WITZENBERG LOCAL MUNICIPALITY</b>							

Mr	Nasson	David	Municipal Manager	<a href="mailto:david@witzenberg.gov.za">david@witzenberg.gov.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</p> <p>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</p>	√	
Mr	Taljaard	Hennie	Senior Town Planner	<a href="mailto:htaljaard@witzenberg.gov.za">htaljaard@witzenberg.gov.za</a>	<p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</p> <p>Department will be reminded of closure of comment period and to provide comments.</p>	√	
<b>NAMAKWA DISTRICT MUNICIPALITY</b>							
Mr	Fortuin	Chris	Municipal Manager	<a href="mailto:chrisf@namakwa-dm.gov.za">chrisf@namakwa-dm.gov.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</p> <p>Department reminded of closure of comment period</p>	√	



					<p><u>and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>KAROO HOOGLAND LOCAL MUNICIPALITY</b>							
Mr	Fortuin	Jannie	Municipal Manager	<a href="mailto:munman@karoohoogland.gov.za">munman@karoohoogland.gov.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of</u></p>	√	
Mr	Gibbons	Allistar	Community Service Manager	<a href="mailto:a.gibbons@karoohoogland.gov.za">a.gibbons@karoohoogland.gov.za</a>	<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of</u></p>	√	

					<p><u>revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>ATNS</b>							
Ms	Smit	Ferdi	System Specialist Radar   Technical Services CT International Airport	<a href="mailto:ferdis@atns.co.za">ferdis@atns.co.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p>	√	
Mr	Mondzinger	Graham	Obstacle Evaluator	<a href="mailto:GrahamM@atns.co.za">GrahamM@atns.co.za</a>	<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p>	√	
Mr	De Lange	Phillip	Manager: Manager of Western and Northern Cape	<a href="mailto:phillipd@atns.co.za">phillipd@atns.co.za</a>	<p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p>	√	

					Department will be reminded of closure of comment period and to provide comments		
<b>DEPARTMENT OF AGRICULTURE</b>							
Mr	van der Walt	Cor		<a href="mailto:CorvdW@elsenburg.com">CorvdW@elsenburg.com</a>	<b>Draft EA Amendment Assessment Report:</b> Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.	√	
Mr	Layman	Brandon		<a href="mailto:landuse.elsenburg@elsenburg.com">landuse.elsenburg@elsenburg.com</a> <a href="mailto:BrandonL@elsenburg.com">BrandonL@elsenburg.com</a>		√	
Mr	Opperman	Carl		<a href="mailto:carl@awk.co.za">carl@awk.co.za</a> <a href="mailto:info@awk.co.za">info@awk.co.za</a>	Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.  <b>Revised Draft EA Amendment Assessment Report:</b> Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.  Department will be reminded of closure of comment period and to provide comments	√	
<b>BIRDLIFE SOUTH AFRICA</b>							
Mr	Booth	Jonathan	Policy Manager	<a href="mailto:advocacy@birdlife.org.za">advocacy@birdlife.org.za</a>	<b>Draft EA Amendment Assessment Report:</b> Email sent to explain the project between 16 November 2020 to 20	√	
Ms	Ralston	Samantha		<a href="mailto:energy@birdlife.org.za">energy@birdlife.org.za</a>	November 2020 to 20	√	

					<p><u>November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>BREDE GOURITZ CATCHMENT MANAGEMENT AGENCY</b>							
Ms	Mthimkhulu	Makhosi		<a href="mailto:MMthimkhulu@bgcma.co.za">MMthimkhulu@bgcma.co.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p>	√	
Ms	Sam	Andiswa		<a href="mailto:ASam@bgcma.co.za">ASam@bgcma.co.za</a>	<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p>	√	

					<p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>CAPE NATURE</b>							
Ms	Simons	Megan	Land Use Advice	<a href="mailto:msimons@capenature.co.za">msimons@capenature.co.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report</u></p>	√	
Mr	Fordham	Colin	Scientist: Land Use Advice	<a href="mailto:cfordham@capenature.co.za">cfordham@capenature.co.za</a>	<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report</u></p>	√	

					<p><u>will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>ENDANGERED WILDLIFE TRUST</b>							
Mr	Little	Ian	Senior Manager	<a href="mailto:ianl@ewt.org.za">ianl@ewt.org.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p>	√	
Mr	Leeuwner	Lourens	Renewable Energy Project Manager	<a href="mailto:lourensl@ewt.org.za">lourensl@ewt.org.za</a>	<p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>	√	
<b>ESKOM</b>							
Mr	Crous	Andre	Eskom Telecommunications	<a href="mailto:andre.crous@eskom.co.za">andre.crous@eskom.co.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b></p>	√	

Mr	Nala	Bheki	Manager Telecommunications	<a href="mailto:nalamb@eskom.co.za">nalamb@eskom.co.za</a>	<u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u>	√	
Mr	Geeringh	John	Chief Planner	<a href="mailto:GeerinJH@eskom.co.za">GeerinJH@eskom.co.za</a>		√	
Ms	Hector	Ambrose		<a href="mailto:HectorA@eskom.co.za">HectorA@eskom.co.za</a>	<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>	√	
<b>DEPARTMENT OF ENVIRONMENT, FORESTRY AND FISHERIES - BIODIVERSITY</b>							
Mr	Lekota	Seoka		<a href="mailto:slekota@environment.gov.za">slekota@environment.gov.za</a>	<b><u>Draft EA Amendment Assessment Report:</u></b>	√	
Mr	Rabothata	Mmatlala		<a href="mailto:slekotamrabothata@environment.gov.za">slekotamrabothata@environment.gov.za</a>	<p><u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on</u></p>	√	

					<p>06 and 11 January 2021 respectively.</p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>DEPARTMENT OF WATER AND SANITATION</b>							
Mr	Roberts	John		<a href="mailto:RobertsJ@dwa.gov.za">RobertsJ@dwa.gov.za</a>	<b><u>Draft EA Amendment Assessment Report:</u></b>	√	
Ms	Schwartz	Chantel	Director: Institutional Establishment	<a href="mailto:MahunonyaneM@dws.gov.za">MahunonyaneM@dws.gov.za</a>	<u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u>	√	
Mr	Khan	Rashid		<a href="mailto:KhanR@dws.gov.za">KhanR@dws.gov.za</a>	<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25</u></p>	√	



					<p><u>January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>DEPARTMENT OF MINERAL RESOURCES (DMR)</b>							
Ms	Kunene	Duduzile	Regional Manager	<u>Duduzile.Kunene@dmr.gov.za</u>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>	v	

DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES							
Provincial Department - Western Cape Department							
Mr	van Rhyn	Petro	Head of Communication	<a href="mailto:petrov@elsenburg.com">petrov@elsenburg.com</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p>		
					<p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>	v	
National Department							
Ms	Buthelezi	Thoko	AgriLand Liaison Office	<a href="mailto:ThokoB@daff.gov.za">ThokoB@daff.gov.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p>	v	
Ms	Gabriel	Mary Jean		<a href="mailto:maryjeang@daff.gov.za">maryjeang@daff.gov.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p>	v	

					<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>DEPARTMENT OF CULTURAL AFFAIRS &amp; SPORT</b>							
Ms	Heli	Vuyokazi	Heritage Resource Management	<a href="mailto:Vuyokazi.Heli@westerncape.gov.za">Vuyokazi.Heli@westerncape.gov.za</a> <a href="mailto:HWC.HWC@westerncape.gov.za">HWC.HWC@westerncape.gov.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b></p>	√	

					<p><u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>DEPARTMENT OF AGRICULTURE, LAND REFORM &amp; RURAL DEVELOPMENT</b>							
Mr	Legodi	Lucky		<a href="mailto:lucky.legodi@drdlr.gov.za">lucky.legodi@drdlr.gov.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p>	v	

					Department will be reminded of closure of comment period and to provide comments		
<b>DEPARTMENT OF ENVIRONMENTAL AFFAIRS &amp; DEVELOPMENT PLANNING</b>							
Mr	Toefy	Zaahir	Director: Development Facilitation	<a href="mailto:Zaahir.toefy@westerncape.gov.za">Zaahir.toefy@westerncape.gov.za</a>	<b>Draft EA Amendment Assessment Report:</b> Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.	√	
Mrs	La Meyer	Adri	Directorate: Development Facilitation	<a href="mailto:Adri.Lameyer@westerncape.gov.za">Adri.Lameyer@westerncape.gov.za</a>	<p>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</p> <p><b>Revised Draft EA Amendment Assessment Report:</b> Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</p> <p>Department will be reminded of closure of comment period and to provide comments</p>	√	
<b>DEPARTMENT OF TRANSPORT AND PUBLIC WORKS</b>							
<i>Provincial Department - Western Cape Department</i>							
Mr	Carstens	Schalk	Chief Engineer	<a href="mailto:Schalk.Carstens@westerncape.gov.za">Schalk.Carstens@westerncape.gov.za</a>	<b>Draft EA Amendment Assessment Report:</b>	√	
Ms	Swanepoel	Grace		<a href="mailto:Grace.Swanepoel@westerncape.gov.za">Grace.Swanepoel@westerncape.gov.za</a>		√	

<b>National Department</b>						
Mr	Welman	Ben		<a href="mailto:bigben@mweb.co.za">bigben@mweb.co.za</a>	<u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u>	√
Mr	Manyathi	T		<a href="mailto:Transport.Publicworks@westerncape.gov.za">Transport.Publicworks@westerncape.gov.za</a>	<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>	√
<b>HERITAGE WESTERN CAPE</b>						
Ms	Peters	Ameerah	PA to CEO	<a href="mailto:ceoheritage@westerncape.gov.za">ceoheritage@westerncape.gov.za</a>	<b><u>Draft EA Amendment Assessment Report:</u></b> <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u>	√
Ms	Scheermeyer	Colette	Heritage Officer	<a href="mailto:Colette.Scheermeyer@westerncape.gov.za">Colette.Scheermeyer@westerncape.gov.za</a>	<p><u>Department reminded of closure of comment period and to provide comments on</u></p>	√

					<p>06 and 11 January 2021 respectively.</p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>SANRAL - WESTERN REGION</b>							
Ms	Abrahams	Nicole	Environmental Coordinator	<a href="mailto:abrahamsn@nra.co.za">abrahamsn@nra.co.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25</u></p>	√	

					<p><u>January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>SQUARE KILOMETRE ARRAY</b>							
Dr	Tiplady	Adriaan	Manager: Site Categorisation	<a href="mailto:atiplady@ska.ac.za">atiplady@ska.ac.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>	v	



SA CIVIL AVIATION AUTHORITY (SA CAA)							
Ms	Stoh	Lizell	Obstacle Specialist	<a href="mailto:strohl@caa.co.za">strohl@caa.co.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>	√	
SOUTH AFRICAN ASTRONOMICAL OBSERVATORY							
Prof	Ted	Williams	Director	<a href="mailto:williams@sao.ac.za">williams@sao.ac.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p>	√	
Dr	Sefako	Ramotholo	Telescope Operations (TOPS)	<a href="mailto:rrs@sao.ac.za">rrs@sao.ac.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p>	√	

					<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>SOUTHERN AFRICAN LARGE TELESCOPE</b>							
Mr	Chris	Coetzee	Technical Operations Manager Southernland Site	<a href="mailto:chris@salt.ac.za">chris@salt.ac.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b></p>	√	
Ms	Hlazo	Mavela		<a href="mailto:salt@salt.ac.za">salt@salt.ac.za</a>	<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b></p>	√	

					<p><u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>SOUTH AFRICAN WEATHER SERVICE</b>							
Ms	Nelly	Boshielo	South African Weather Service	<a href="mailto:Nelly.Boshielo@weathersa.co.za">Nelly.Boshielo@weathersa.co.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p>	v	

					Department will be reminded of closure of comment period and to provide comments		
<b>SENTECH</b>							
Mr	Koegelenberg	Johan	Broadcast Coverage Planner: RF Networks	<a href="mailto:koegelenbergj@sentech.co.za">koegelenbergj@sentech.co.za</a>	<p><b>Draft EA Amendment Assessment Report:</b> Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</p> <p>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</p> <p><b>Revised Draft EA Amendment Assessment Report:</b> Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</p> <p>Department will be reminded of closure of comment period and to provide comments</p>	√	
Mr	Motlhake	Serame	Network Planning Manager	<a href="mailto:motlhakes@sentech.co.za">motlhakes@sentech.co.za</a>		√	
Mr	Creese	Frank	Senior TCC Manager: Operations and Maintenance (Western Region)	<a href="mailto:creesef@sentech.co.za">creesef@sentech.co.za</a>		√	
Ms	Pretorius	Alisha		<a href="mailto:pretoriusa@sentech.co.za">pretoriusa@sentech.co.za</a>		√	
<b>SOUTH AFRICAN LOCAL GOVERNMENT ASSOCIATION</b>							

Ms	Harigobin	Chantal		<a href="mailto:sharigobin@salga.org.za">sharigobin@salga.org.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>	√	
<b>TELKOM</b>							
Mr	Shaw	Leonard		<a href="mailto:leonardS@openseve.co.za">leonardS@openseve.co.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period</u></p>	√	
Mr	Thurling	Keverne		<a href="mailto:Thurling@telkom.co.za">Thurling@telkom.co.za</a>		√	
Mrs	Hartman	Loretta	Wayleave Officer	<a href="mailto:LorettaH@openseve.co.za">LorettaH@openseve.co.za</a>		√	

					<p><u>and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>TRANSNET FREIGHT RAIL</b>							
Mr	Coetzee	Herman	Radio Communication Department	<a href="mailto:herman.coetzee2@transnet.net">herman.coetzee2@transnet.net</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of</u></p>	√	
Mr	Govender	Devon		<a href="mailto:devon.govender@transnet.net">devon.govender@transnet.net</a>	<p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of</u></p>	√	

					<p><u>revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p> <p><u>Department will be reminded of closure of comment period and to provide comments</u></p>		
<b>WESSA</b>							
Mr	Griffiths	Morgan	Environmental Governance Programme Manager	<a href="mailto:morgan.griffiths@wessa.co.za">morgan.griffiths@wessa.co.za</a>	<p><b><u>Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to explain the project between 16 November 2020 to 20 November 2020. A link to the website was also shared.</u></p> <p><u>Department reminded of closure of comment period and to provide comments on 06 and 11 January 2021 respectively.</u></p> <p><b><u>Revised Draft EA Amendment Assessment Report:</u></b>  <u>Email sent to notify Department of project changes and availability of revised report week of 25 January 2021 to 29 January 2021. A link to the website will also be shared. The report will also be sent via We Transfer, should this be requested by the Department.</u></p>	√	

					<u>Department will be reminded of closure of comment period and to provide comments</u>		
--	--	--	--	--	---	--	--



## 8 CONCLUSION AND RECOMMENDATIONS

The aforementioned and associated specialist comment letters and site walk-through reports provide an assessment of the potential impacts, advantages and disadvantages associated with the proposed amendments. In light of the fact that the proposed turbines would still be within the development footprint already assessed for the authorised Kudusberg WEF and the total number of turbines will remain unchanged, it was determined that the proposed amendments would not result in any additional environmental risks or impacts and it was concluded that the impacts identified and mitigation measures and/or recommendations proposed as part of the BA process for the original Kudusberg WEF in 2018 would remain unchanged. The updated 2020 Freshwater Assessment (du Preez, 2020) which replaces the original Surface Water Impact Assessment (BlueScience, 2018) also concluded that impacts can be mitigated to acceptably low levels after the implementation of the recommended mitigation measures<sup>35</sup>. As such, no further assessment would be required.

In addition, based on the feedback received from the specialists, it is evident that the advantages outweigh the disadvantages, mainly due to the fact that the amended layout is more beneficial as wind turbines have been removed and re-positioned outside of very high sensitivity areas and are located in optimal positions. Majority of the specialists also found that the layout did not differ too significantly from the original findings as the overall number of turbines has remained unchanged. It should also be noted that none of the specialists found that the proposed amendments and subsequent addition of the proposed Oya WEF (northern section of authorised WEF) would change the original cumulative impact ratings or result in fatal flaws from a cumulative impact perspective. This is mainly due to the fact that the overall number of turbines will still remain the same and the two (2) proposed WEFs will be clustered in a REDZ (namely REDZ – Komsberg REDZ), in line with the REDZ intention.

Several specialists (namely Avifauna, Bat, Surface Water, Terrestrial Ecology and Heritage<sup>36</sup>) also undertook detailed walk-throughs and micro-siting of the Oya WEF to identify any additional sensitive / “no-go” areas based on the final layout and/or any other special features which need to be avoided. Furthermore, the necessary specialists were commissioned to compile the requisite management plans detailed in the EMP<sup>8</sup>. Based on the specialist walk-throughs which were undertaken, no fatal flaws or additional environmental sensitivities were identified and all specialists found the proposed layout for the Oya WEF to be acceptable. Additionally, all specialists recommended that the layout should be approved. Very few new (previously unknown) heritage resources were identified during the Heritage walk-through, however, it was confirmed by the specialist that they do not fall within the development footprint and will not be directly impacted.

It should be noted that the Ecologist recommended (not critical) shifting Turbine 1 a minimum of 90m eastwards and locating the crane pad to the east of the new position if a possible Vulnerable plant species (tentatively identified as *Octopoma quadrisepalum*) is identified within 40m of Turbine 1. Alternatively, he recommended submitted an application for a permit to relocate the plant or destroy it. No additional layout changes were however recommended from a Terrestrial Ecology perspective.

From a Surface Water perspective, it was found that the proposed Oya WEF overhead collector power line will traverse several watercourses, however, the pylons will be constructed outside the 32m NEMA zone of regulation. It was however determined that should the above infrastructure components be moved to be located at least 32m from a watercourse and the watercourse road crossings only be

---

<sup>35</sup> Freshwater Ecological Assessment compiled in October 2020. Was however updated in January 2021 to include separate risk assessment for additional section of existing road which was not presented in previous layout for Oya WEF (refer to Table 12 in section 4.1)

<sup>36</sup> Includes Archaeology, Palaeontology and Cultural Landscapes

constructed during the driest period of the year, the impacts significance for the construction and operation for these components can be considered low with mitigation. In addition, no fatal flaws in terms of freshwater ecological aspects were identified. In terms of the walk-down, recommended amendments to the Oya WEF layout were made, in order to limit the infrastructure components within the watercourses and the 32m NEMA and 100m GN 509 zones of regulation. These amendments are however **not considered critical** for the protection of watercourses (as the risk assessment determined a Low Risk significance for linear infrastructure within the watercourses), but are suggested as best practice and to further reduce impacts on the receiving natural environment as a whole. The proposed Oya WEF layout respects the required buffers and is however considered acceptable from a freshwater ecological perspective, provided the recommended mitigation measure be applied, and should be granted EA.

It should however be noted that none of the specialists identified any fatal flaws and all specialists (including the Ecologist and Surface Water Specialist) subsequently recommended that the layout should be approved. Various management plans<sup>8</sup> have also been compiled by some of the specialists for incorporation into the EMPr and subsequent implementation.

As mentioned, the Applicant made minor project changes after the submission of the Draft EA Amendment Assessment Report. The proposed project changes were disseminated to all specialists for review, and each specialist was asked to amend their respective reports and/or comment letters in order to reflect these changes, or to compile a letter addressing these changes. In addition, they were also asked to provide confirmation (in the form of email confirmation) regarding the acceptability of the inclusion of the section of the existing road which was not presented in the previous layout for the Oya WEF<sup>37</sup> (i.e. whether it would have any bearing on their findings). All specialists subsequently found that the proposed changes have no material impact on their findings. Furthermore, all specialists confirmed that the inclusion of the section of the existing road to the layout for the proposed Oya WEF was acceptable (i.e. would have no material impact on their findings). This is due to the fact that the road is already present and being used, thus the disturbance / impact is already existing. The road is also not proposed to undergo any changes.

It should be noted that a separate risk assessment was undertaken for assessing the additional section of the existing road's risk significance on watercourses, since this road is an existing road and entails existing large watercourse crossings via culvert and bridge crossings. The results of this risk assessment have been included in the Freshwater Assessment Report<sup>35</sup> (**Appendix C8**). The results of the Freshwater Assessment remain unchanged and the inclusion of this road would not change the findings of the Freshwater Assessment (i.e. the impact of the proposed development, including the impact of roads and road upgrades, can be reduced to an acceptably low level after the implementation of the recommendations and/or mitigation measures). It was however recommended that the outcome of the risk assessment be revised when detailed designs for watercourse road crossings become available as the outcome of the DWS Risk assessment may change pending the outcome of the watercourse road crossing designs. The inclusion of the section of the existing road to the layout for the proposed Oya WEF will therefore not result in any fatal flaws and is deemed acceptable.

In light of the information above, the proposed amendments would not result in any fatal flaws, are acceptable from an overall environmental perspective and should therefore be authorised. This includes the subsequent project changes made following the submission of the Draft EA Amendment Assessment Report.

---

<sup>37</sup> Road was not reflected in previous layouts presented in Draft EA Amendment Assessment Report, however, it falls within area assessed by specialists as part of Part 2 EA Amendment process. Road will be maintained (re-gravelled) during construction and operation but will not be widened.

It is therefore the EAP's reasoned opinion, based on the specialist assessments and detailed specialist walk-throughs which were undertaken, that:

1. The EA should be split into two (2) EA's and amended in line with the proposed specifications listed in Table 1,
2. The impacts identified can be mitigated to acceptable levels, provided the recommended mitigation measures are implemented.
3. the layout being proposed as part of the Oya WEF and the Final EMPr (Appendix I1) be approved by the DEFF as part of the Amended EA (should this be granted).
4. Furthermore, it is requested that the Kudusberg EMPr should **not** be approved and should be submitted along with the final layout before construction and should be included as such as part of the Amended EA (should this be granted).

A public participation process is being undertaken to obtain any comments received by I&APs on the proposed amendments for the 325MW Kudusberg WEF. The public review and comment period for the Draft EA Amendment Assessment Report was undertaken from **Wednesday 18 November 2020 to Monday 11 January 2021**, over a 30-day<sup>33</sup> period (excluding public holidays and the DEFF's December closure period). Any comments raised and responses to these comments and concerns were integrated into the Revised Draft EA Amendment Assessment Report (as well as forming part of the C&RR).

It should be noted that the Applicant made minor amendments to the respective layouts being proposed for authorisation following the submission of the Draft EA Amendment Assessment Report. A notification in terms of Regulation 32(1)(b) of the NEMA EIA Regulations, 2014 (as amended), that the final report will be submitted within 140 days of receipt of the application by the competent authority, was therefore subsequently submitted to the DEFF on 20 January 2021 (Appendix B). The DEFF provided a response on 25 January 2021 and subsequently granted the EAP permission to submit the final report within 140 days of receipt of the application (Appendix B). In light of this, a Revised Draft EA Amendment Assessment Report (this report) which contains the new information / changes is being made available for another 30-day review and comment period. The public review and comment period for the Revised Draft EA Amendment Assessment Report will be undertaken from Monday 25 January 2021 to Wednesday 24 February 2021, over a 30-day<sup>33</sup> period (excluding public holidays). Any comments raised and responses to these comments and concerns will be integrated into the Final Amendment Assessment Report (as well as forming part of the C&RR), which will be submitted to the DEFF for decision-making.

Based on the findings of the specialists, the EAP recommends that DEFF amends the EA as follows:

## 8.1 Details of Amendments Being Applied For

It is the EAP's opinion in conjunction with the respective specialists that the Kudusberg EA (**DEFF Ref No.: 14/12/16/3/3/1/1976/AM1**) be amended into two (2) separate EAs for the Oya WEF and the Kudusberg WEF respectively and that the amendment be authorised as outlined in **Table 1** in **section 1** of this report.

In addition, in response to comments received by the DEFF (refer to **Table 2** in **section 1.1** as well as **Appendix B**), it is requested that the activities provided in **Table 7** in **section 2.3** be authorised for each respective EA following the split (should the amendment be granted).

## 8.2 Environmental Impact Statement

SiVEST Environmental Division, as the EAP, is therefore of the opinion that:

- The magnitude and rating of all environmental impacts of the proposed amendments are expected to remain the same as those already identified in the original BA Report.
- The proposed amendments are not expected to result in increased negative impacts for any of the environmental aspects and no additional impacts were identified.
- The impacts identified can be mitigated to acceptable levels, provided the recommended mitigation measures are implemented.
- none of the specialists found that the proposed amendments and subsequent addition of the proposed Oya WEF (northern section of authorised WEF) would change the original cumulative impact ratings or result in fatal flaws from a cumulative impact perspective.
- All identified sensitive / “no-go” areas have been avoided for both proposed WEF developments (i.e. Kudusberg WEF and Oya WEF) and the recommended buffer zones for both WEF developments have been implemented accordingly (where required).
- **It is requested that the layout being proposed as part of the Oya WEF and the Final EMPr be approved by the DEFF as part of the Amended EA.**
- **The Kudusberg EMPr and layout must NOT be approved.**
- The EA should be split into two (2) EAs and amended in line with the amendments as proposed.

It is trusted that this Revised Draft EA Amendment Assessment Report provides the reviewing authority with sufficient information to make an informed decision regarding the requested amendments.

## 9 REFERENCES

### Agriculture

- Lanz, J. 2018. Agricultural Impact Assessment for Kudusberg Wind Energy Facility project between Matjiesfontein and Sutherland in the Northern and Western Cape Provinces

### Terrestrial Ecology

- EKOTRUST CC. 2018. REPORT ON THE TERRESTRIAL ECOLOGY (FLORA AND FAUNA): Basic Assessment report for the proposed development of the 325 MW Kudusberg Wind Energy Facility located west of the R354 Between Matjiesfontein and Sutherland in the Northern and Western Cape.
- POWELL, R.F., BOATWRIGHT, J.S., KLAK, C. & MAGEE, A.R. 2016. Phylogenetic placement and generic re-circumscriptions of the multilocular genera *Arenifera*, *Octopoma* and *Schlechteranthus* (Aizoaceae: Ruschieae): Evidence from anatomical, morphological and plastid DNA data. *Taxon* 65 (2): 249-261.
- VAN WYK, B-E. 1990. Studies in the genus *Lotononis* (Crotalarieae, Fabaceae). 13. Two new species and notes on the occurrence of cleistogamy in the section *Leptis*. *Bothalia* 20,1: 17-22.

### Surface Water

- **BlueScience. 2018.** Freshwater Specialist Study: Basic Assessment for the proposed development of the 325 MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces.
- **Bromilow, C.** 2001. Revised Edition, First Impression. *Problem Plants of South Africa*. Briza Publications, Pretoria, RSA.
- **Dada R., Kotze D., Ellery W. and Uys M.** 2007. *WET-RoadMap: A Guide to the Wetland Management Series*. WRC Report No. TT 321/07. Water Research Commission, Pretoria.
- **Department of Water Affairs and Forestry** 2008 *Updated Manual for the Identification and Delineation of Wetlands and Riparian Areas*. Report no. X. Stream Flow Reduction Activities, Department of Water Affairs and Forestry, Pretoria, South Africa.
- **Department of Water Affairs**, 1999. South Africa Version 1.0 of Resource Directed Measures for Protection of Water Resources [Appendix W3].
- **De Villiers, C., Driver, A., Clark, B., Euston-Brown, D., Day, L., Job, N., Helme, N., Van Ginkel, CE., Glen, RP., Gordon-Gray, KD., Cilliers, CJ., Muasya, M and van Deventer, PP.** 2011. *Easy identification of some South African Wetland Plants*. WRC Report No TT 479/10.
- **Ekotrust CC. 2018.** Report On The Terrestrial Ecology (Flora And Fauna) Basic Assessment report for the proposed development of the 325 MW Kudusberg Wind Energy Facility located west of the R354 Between Matjiesfontein and Sutherland in the Northern and Western Cape
- **Henderson, L.** 2001. *Alien Weeds and Invasive Plants*. Agricultural Research Council, RSA.
- **Job, N.** 2009. Application of the Department of Water Affairs and Forestry (DWAF) wetland delineation method to wetland soils of the Western Cape.
- **Kotze D.C., Marneweck G.C., Batchelor A.L., Lindley D.S. and Collins N.B.** 2009. *WET-EcoServices: A technique for rapidly assessing ecosystem services supplied by wetlands*. WRC Report No. TT 339/09. Water Research Commission, Pretoria.
- **Malan, H.L., and Day, J.A.** 2012. *Water Quality and Wetlands: Defining Ecological Categories and Links with Land-Use*. Water Research Commission. Report No 1921/1/12.
- **Mucina, L. & Rutherford, M.C.** (eds) 2010. (CD set). *The vegetation of South Africa, Lesotho and Swaziland*. *Strelitzia* 19. South African National Biodiversity Institute, Pretoria.
- **NatureStamp.** 2020. Hydrological Assessment, Stormwater management & erosion control plan. for the proposed development of the 325 Mw Oya Wind Energy Facility and associated infrastructure, Witzenberg & Karoo Hoogland local municipality Cape winelands & Namakwa district municipality Western Cape & Northern Cape.

- **Nel, JL, Driver, A.,** Strydom W.F., Maherry, A., Petersen, C., Hill, L., Roux, D.J, Nienaber, S., Van Deventer, H., Swartz, E. & Smith-Adao, L.B. 2011a. *Atlas of Freshwater Ecosystem Priority Areas in South Africa: Maps to support sustainable development of water resources*. Water Research Commission Report No. TT 500/11, Water Research Commission, Pretoria.
- **Ollis, DJ; Snaddon, CD; Job, NM & Mbona, N.** 2013. *Classification System for Wetlands and other Aquatic Ecosystems in South Africa. User Manual: Inland Systems*. SANBI Biodiversity Series 22. South African Biodiversity Institute, Pretoria.
- **Snaddon, K and Day, L.** 2009. *Prioritisation of City Wetlands*. City of Cape Town Department of Environmental Resource Management, Cape Town.
- **The South African National Biodiversity Institute** - Biodiversity GIS (BGIS) [online]. Retrieved 2015/04/10 URL: <http://bgis.sanbi.org>
- **Van Oudtshoorn, F.** 2004. Second Edition, Third Print. *Guide to Grasses of South Africa*. Briza Publications, Pretoria, RSA.

### **Avifauna**

- Enviro Dinamik Western Cape Environmental Consultants (Pty) Ltd. (2007). *Spatial Development Framework*. Durbanville: Cape Winelands .
- Bergquist, P., Konisky, D., & Kotcher, J. (2020). *Energy policy and public opinion: patterns, trends, and future directions*. IOP Publishing Ltd.
- Bioinsight. (2018a). *Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces: BA Report*.
- Bioinsight. (2018a). *Bat Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces: BA Report*.
- Bioinsight. (2018b). *Kudusberg Wind Energy Facility - Bat pre-construction monitoring - Final Report*.
- Bioinsight. (2018b). *Kudusberg Wind Energy Facility - Bird Pre-Construction Monitoring 2015/2016*.
- Bowen, P., Dorrington, R., Distiller, G., Lake, H., & Besesar, S. (2008). HIV/AIDS in the South African construction industry: an empirical study. *Construction Management and Economics*, 26(8) , 827-839.
- Bowen, P., Govender, G., Edwards, P., & Cattell, K. (2016). An explanatory model of attitudinal fear of HIV/AIDS testing in the construction industry. *Engineering, Construction and Architectural Management*, 23(1) , 92-112.
- Bowen, P., Govender, R., Edwards, P., & Lake, A. (2018). HIV infection in the South African construction industry. *Psychology, Health & Medicine: 23(5)*, 612-618.
- Cape Winelands District Municipality. (2017). *Cape Winelands Climate Change Adaption Summary Report (Draft Version)*. Worcester: Cape Winelands District Municipality.
- Cape Winelands District Municipality. (2019). *Cape Winelands Regional Socio-Economic Development Strategy*. Worcester: Cape Winelands District Municipality.
- Cape Winelands District Municipality. (2020). *Cape Winelands District Spatial Development Framework 2019/2020*. Stellenbosch: Cape Winelands District Municipality.
- Cape Winelands District Municipality. (2020). *Integrated Development Plan 2020-2021*. Worcester: Cape Winelands District Municipality.
- Carley, S., Konisky, D., Atiq, Z., & Land, N. (2020). *Energy infrastructure, NIMBYism, and public opinion: a systematic literature review of three decades of empirical survey literature*. Published by IOP Publishing: Environmental Research Letters .

- Carlisle, J. E., Kane, S. L., Solan, D., & Joe, J. C. (2014). Support for solar energy: Examining sense of place and utility-scale development in California. *Energy Research & Social Science* 3 (2014), 124-130.
- Central Karoo District Municipality. (2016). *Central Karoo District 3rd 2012-2017 IDP Review For Implementation 2016 – 2017*. Beaufort West: Central Karoo District Municipality.
- CSIR, Natural Resources and the Environment . (2006). *Stratigic Environmental Assessment for the management of Ecosystem Services within the Cape Winelands District Municipal Area*. Stellenbosch: CSIR, Natural Resources and the Environment .
- CTS Heritage. (2020a). *Archaeological Specialist Study In terms of Section 38(8) of the NHRA for a Proposed development of an overhead powerline for the approved Oya PV Facility, Western and Northern Cape*. Cape Town: CTS Heritage.
- CTS Heritage. (2020b). *Heritage Impact Assessment In terms of Section 38(8) of the NHRA for the Proposed development of an overhead powerline for the approved Oya PV Facility, Western and Northern Cape*. Cape Town: CTS Heritage.
- CTS Heritage. (2020c). *Palaeontological Specialists Study In terms of Section 38(8) of the NHRA Proposed development of an overhead powerline for the approved Oya PV Facility, Western and Northern Cape*. Cape Town: CTS Heritage.
- Dennis Moss Partnership. (2012). *Northern Cape Provincial Spatial Development Framework: First Consultative Draft, March 2012*.
- Department of Energy Republic of South Africa. (2018). *Draft Integrated Resource Plan, 2018 for public comments*. Pretoria: Department of Energy Republic of South Africa.
- Department of Energy Republic of South Africa. (2019). *Draft Integrated Resource Plan*. Pretoria: Department of Energy Republic of South Africa.
- Department of Environmental Affairs and Tourism. (2004). *South African National Climate Change Response Strategy, September 2004*. Pretoria: Department of Environmental Affairs and Tourism.
- Department of Transport. (2013). *The National Household Travel Survey in South Africa*. Department of Transport.
- Electromagnetic fields (EMF)*. (2020). Retrieved June 14, 2020, from World Health Organisation: <https://www.who.int/peh-emf/about/WhatisEMF/en/index1.html>
- Elias Motsoaledi Local Municipality. (2013). *Elias Motsoaledi Integrated Development Plan*
- Environmental Resources Management (ERM). (2012). *Proposed Renewable Energy Facility at the Perdekraal Site 2, Western Cape DEA Ref: 12/12/20/1783*. Environmental Resources Management (ERM).
- Farhar, B. C., Hunter, L. M., Kirkland, T. m., & Tierney, K. J. (2010). *Concentrating Solar Power in the San Luis Valley*. Golden, Colorado: National Renewable Energy Laboratory. U.S. Department of Energy.
- Fernandez, P. R., Ng, K.-H., & Kaur, S. (2019). Risk Communication Strategies for Possible Health Risks From Radio-Frequency Electromagnetic Fields (RF-EMF) Emission by Telecommunication Structures. *Health Physics: June 2019 - Volume 116 - Issue 6*, 835-839.
- Firestone, J., Bidwell, D., Gardner, M., & Knapp, L. (2018). Wind in the sails or choppy seas?: People-place relations, aesthetics and public support for the United States' first offshore wind project. *Energy Research & Social Science. Volume 40, June 2018,*, 232-234.

- Fourie, D., Kritzinger-van Niekerk, L., & Nel, M. (2015). *An overview of the renewable energy independent power producers procurement programme (REIPPPP)*. Centurion: Department of Energy IPP Office.
- Gallastegi, M., Jiménez-Zabala, A., Molinuevo, A., Aurrekoetxea, J. J., Santa-Marina, L., Vozmediano, L., & Ibarluzea, J. (2019). Exposure and health risks perception of extremely low frequency and radiofrequency electromagnetic fields and the effect of providing information. *Environmental Research, Volume 169, February*, 501-509.
- Government Gazette No. 41445. (2018). *Notice 114, page 92-96*. Pretoria: Government Printing Works.
- Government Gazette No. 43734 Notice No. 1015 Department of Mineral Resources and Energy. (2020, September 25). Determination Under Section 34(1) of the Electricity Regulation Act, 2006 (Act No. 4 of 2006). Pretoria: Government Printers.
- Hantam IDP. (2015). *Hantam Integrated Development Plan*.
- Independent Power Producer Office. (2020a). *Independent Power Producers Procurement Programme. An Overview as at 31 December 2019*. Centurion: Independent Power Producers Office.
- Independent Power Producers Procurement Office. (2020b). *Provincial Report Volume 3: Western Cape Overview*. Centurion: Power Producers Procurement Office.
- Intergovernmental Panel on Climate Change (Approved SPM – copyedit pending). (6 October 2018). *Global Warming of 1.5 °C an IPCC special report on the impacts of global warming of 1.5 °C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change*. Intergovernmental Panel on Climate Change.
- Jenkins, A., van Rooyen, C., Smallie, J., Harrison, J., Diamond, M., Smit-Robinson, H., & Ralston, S. (2015). *Best Practice Guidelines for assessing and monitoring the impact of wind energy facilities on birds in Southern Africa*.
- Kikwasi, G. J., & Lukwale, S. R. (2017). HIV/AIDS and Construction Workers: Knowledge, Risk Sexual Behaviours and Attitude. *Global Journal of Health Science 10(1):37*.
- Laingsburg Local Municipality. (2017). *Laingsburg Municipality Integrated Development Plan: Draft 2017/18 Review*. Laingsburg: Laingsburg Local Municipality.
- Meintjes, I., Bowen, P., & Root, D. (2007). HIV/AIDS in the South African construction industry: Understanding the HIV/AIDS discourse for a sector-specific response. *Construction Management and Economics, 25(3)*, 255-266.
- Naledi Local Municipality. (2013). *Integrated Development Plan 2012 - 2017*.
- Namakwa District Municipality. (2018). *Namakwa District Municipality, Integrated Development Plan, Revision 2018/2019*. Springbok: Namakwa District Municipality.
- Namakwa DM. (2014). *Namakwa Integrated Development Plan*.
- National Department of Health. (2015). *The 2013 National Antenatal Sentinel HIV Prevalence Survey South Africa*. Pretoria: National Department of Health.
- Nkangala District Municipality. (2014). Retrieved from <http://www.nkangaladm.gov.za/index.php/2014-02-25-17-36-25/ndm-background>
- Northern Cape Province. (2014). *Northern Cape Province Twenty Year Review 2014*. Kimberly: Northern Cape Province.
- Northern Cape Province. Department of Economic Development & Tourism. (2017). *Annual Report for the year ended 31 March 2017*. Kimberly: Northern Cape Province.
- PGS Heritage (Pty) Ltd. (2019). *Proposed Umsobomvu Solar PV Energy Facilities Heritage Scoping Report*. Pretoria: PGS Heritage (Pty) Ltd.
- Pixley ka Seme District Municipality. (2011). *Pixley ka Seme District Municipality Integrated Development Plan for 2011-2016*.



- Pixley ka Seme District Municipality. (2014/15). *Pixley ka Seme District Municipality Integrated Development Plan for 2011-2016*.
- Quantec. (2014). Standard Regionalised Data Series.
- Quantec. (2016). *Quantec data*.
- Ramjee, G., & Gouws, E. (2002). Prevalence of HIV Among Truck Drivers Visiting Sex Workers in KwaZulu-Natal, South Africa. *Sexually Transmitted Diseases: Volume 29 - Issue 1*, 44-49.
- Research Chair in the Sociology of Land, Environment and Sustainable Development. Department of Sociology and Social Anthropology, Stellenbosch University. (2016, January). *Cosmopolitan Karoo Sustainable Development*. Retrieved from Why the Karoo: <https://cosmopolitankaroo.co.za/about/why-the-karoo/>
- Roddisa, P., Carvera, S., Dallimerb, M., Normana, P., & Ziva, G. (2018). The Role of Community Acceptance in Planning Outcomes for Onshore Wind and Solar Farms: An energy justice analysis. *Applied Energy* 226 (2018), 353–364.
- SABC News. (2014, July). Retrieved from <http://www.sabc.co.za/news/a/fc9dc88044b73e21884cf93bfe17c0b1/Transport-Ministry-still-working-on-Moloto-Rail-Corridor-study>
- Sager, M. (2014). *Renewable Energy Vision 2030– South Africa*. World Wide Fund for Nature (formerly World Wildlife Fund), South Africa.
- Schneider, J., Mudra, P., & Kozumplíková, A. (2018). Public Participation in the Process of EIA Intentions of Wind Power Plants in the Czech Republic. *Acta Univ. Agric. Silvic. Mendelianae Brun. Acta Univ.* 2018, 66., 171-182.
- Sekhukhune District Municipality. (2014). *Sekhukhune Integrated Development Plan*.
- Simbayi, L., Zuma, K., Zungu, N., Moyo, S., Marinda, E., Jooste, S., . . . (2019), a. t. (2019). *South African National HIV Prevalence, Incidence, Behaviour and Communication Survey, 2017*. Cape Town: HSRC Press.
- Singh, Y. N., & Malaviya, A. N. (1994). Long distance truck drivers in India: HIV infection and their possible role in disseminating HIV into rural areas. *International Journal of STD & AIDS* 5(2/), 137-138.
- SiVEST SA (Pty) Ltd. (2019b). *Proposed Construction of Three Solar Photovoltaic Energy Facilities near Noupoort, Northern and Eastern Cape Provinces Visual Impact Assessment Report – Scoping Phase*. Johannesburg: SiVEST SA (Pty) Ltd.
- SiVEST SA (Pty) Ltd. (2020). *Proposed Construction of the Oya 132kV Power Line near Matjiesfontein, Western and Northern Cape Provinces Visual Impact Assessment*. Umhlanga Rocks: SiVEST SA (Pty) Ltd.
- Siyathemba LM. (2014). *Siyathemba Municipality Integrated Development Plan 2014/15*.
- Siyathemba Local Municipality. (2012). *Siyathemba Local Municipality Local Economic Development Strategy*.
- Siyathemba Local Municipality. (2014). *Integrated Development Plan 2014/15*.
- Siyathemba Local Municipality. (2014). *Siyathemba Municipality Integrated Development Plan 2014/15*.
- Smit, D. (2011). *Alternative sources of energy for South Africa in various shades of green*. Retrieved from University of Pretoria Features Innovation: <https://www.up.ac.za/media/shared/legacy/sitefiles/file/44/1026/2163/8121/alternativesourcesofenergyforsouthafricanvariousshadesofgreen.pdf>
- South African Government. (2003). *White Paper on Renewable Energy*. Pretoria: Government Printing Works.
- South African Government. (2008). *National Energy Act. No 34 of 2008*. Pretoria: Government Printing Works.

- South African Government. (2010a). *Integrated Resource Plan 2010-2030*. Pretoria: Government Printing Works.
- South African Government. (2010b). *New Growth Path Framework*. Pretoria: Government Printing Works.
- South African Government. (2012). *National Infrastructure Plan*. Pretoria: Government Printing Works.
- Sowler, S., & Stoffberg, S. (2014). *South African Good Practice Guidelines for Surveying Bats at Wind Energy Facility Developments - Pre-construction*.
- Statistics South Africa. (2011). *Census 2011 Municipal Fact Sheet*. Pretoria: Statistics South Africa.
- Statistics South Africa. (2020a). *Mid-year population estimates 2020*. Pretoria: Statistics South Africa.
- Statistics South Africa. (2020a). *Mid-year population estimates 2020*. Pretoria: Statistics South Africa.
- Statistics South Africa. (2020b). *Quarterly Labour Force Survey: Quarter 4: 2019*. Pretoria: Statistics South Africa.
- Stats SA. (2001). 2001 Census.
- Stats SA. (2011). *Census*. Stats SA.
- Stats SA. (2014). *Census 2011*.
- Stats SA. (2015). *Census 2011*.
- Stats SA. (2015). *Census 2011*.
- Stats SA. (n.d.). National Census 2011.
- Strauss, M., George, G., Lansdell, E., Mantell, J. E., Govender, K., Romo, M., . . . Kelvin, E. A. (2018). HIV testing preferences among long distance truck drivers in Kenya: a discrete choice experiment. *AIDS Care*. 30(1), 72-80.
- The World Bank. (2009). *Gender in Agriculture Sourcebook*. Washington: The World Bank.
- Thembisile Hani Local Municipality. (2013). *Thembisile Hani Integrated Development Plan*.
- Umsebe Development Planners. (2010). *Hantam LM Rural Spatial Development Framework*.
- Umsebe Development Planners. (2010). *Khai-Ma LM Rural Spatial Development Framework*.
- Urban-Econ Development Economists. (2011). *Hantam Municipality Local Economic Development Strategy*.
- Vanclay, F. (2002). Conceptualising social impacts. *Environmental Impact Assessment Review*, 22, 183-211.
- Vanclay, F., Esteves, A. M., Aucamp, I., & Franks, D. (2015). *Social Impact Assessment: Guidance document*. Fargo ND: International Association for Impact Assessment.
- Warren, C. R., & McFadyen, M. (2010). Does community ownership affect public attitudes to wind energy? A case study from south-west Scotland. *Land Use Policy*. Volume 27, Issue 2, 204-213.
- Wasie, B., Tiruneh, K., Gebeyehu, W., Desalegn, E., Tadesse, F., & Kiros, K. (2015). HIV prevalence, risk perception, and correlates of risky sexual practice among migrant workers in Northwest Ethiopia. *Ethiopian Journal of Health Development Vol.29 No.2*, 90-98.
- Western Cape Government. (2014). *Provincial Strategic Plan 2014 – 2019*. Cape Town: Western Cape Government.
- Witzenberg Local Municipality. (2005). *Towards an LED Strategy for Witzenberg Report on Phases 1 & 2 Organisation & Technical Assessment Executive Summary and Strategic Conclusion*. Ceres: Witzenberg Local Municipality.

- Witzenberg Local Municipality. (2012). *Witzenberg Spatial Development Framework*. Ceres: Witzenberg Local Municipality.
- Witzenberg Local Municipality. (2020a). *Witzenberg Municipality Integrated Development Plan 2017 – 2022*. Ceres: Witzenberg Local Municipality.
- Witzenberg Municipality Local Municipality. (2020b). *Witzenberg Municipality Spatial Development Framework Final Report*. Ceres: Witzenberg Municipality Local Municipality.
- Woldesenbet, S. A., Kufa, T., Lombard, C., Manda, S., Ayalew, K., Cheyip, M., & Puren, A. (2019). *The 2017 National Antenatal Sentinel HIV Survey, South Africa, National Department of Health*. Pretoria: National Department of Health South Africa.
- Wong, B. (2013). Social Impact Assessment: The principles of the US and International Version, Criticisms and Social Impact Variables. *Proceeding of the Global Conference on Business, Economics and Social Sciences 2013 (e-ISBN 978-967-12022-0-3) 25-26 June 2013* (pp. 137-147). Kuala Lumpur: Organized by: WorldResearchConference.com.
- World Bank Group. (2016). *Climate Change Action Plan 2016-2020*. Washington: International Bank for Reconstruction and Development / The World Bank.
- Zelege, B. M., Bhatt, C. R., Brzozekab, C., Abramson, M. J., Freudensteine, F., Crofte, R. J., . . . Benke, G. (2019). Radiofrequency electromagnetic field exposure and risk perception: A pilot experimental study. *Environmental Research, Volume 170, March*, 493-499.

### **Bats**

- Enviro Dinamik Western Cape Environmental Consultants (Pty) Ltd. (2007). *Spatial Development Framework*. Durbanville: Cape Winelands .
- Bergquist, P., Konisky, D., & Kotcher, J. (2020). *Energy policy and public opinion: patterns, trends, and future directions*. IOP Publishing Ltd.
- Bioinsight. (2018a). *Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces: BA Report*.
- Bioinsight. (2018a). *Bat Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces: BA Report*.
- Bioinsight. (2018b). *Kudusberg Wind Energy Facility - Bat pre-construction monitoring - Final Report*.
- Bioinsight. (2018b). *Kudusberg Wind Energy Facility - Bird Pre-Construction Monitoring 2015/2016*.
- Bowen, P., Dorrington, R., Distiller, G., Lake, H., & Besesar, S. (2008). HIV/AIDS in the South African construction industry: an empirical study. *Construction Management and Economics*, 26(8) , 827-839.
- Bowen, P., Govender, G., Edwards, P., & Cattell, K. (2016). An explanatory model of attitudinal fear of HIV/AIDS testing in the construction industry. *Engineering, Construction and Architectural Management*, 23(1) , 92-112.
- Bowen, P., Govender, R., Edwards, P., & Lake, A. (2018). HIV infection in the South African construction industry. *Psychology, Health & Medicine: 23(5)*, 612-618.
- Cape Winelands District Municipality. (2017). *Cape Winelands Climate Change Adaption Summary Report (Draft Version)*. Worcester: Cape Winelands District Municipality.

- Cape Winelands District Municipality. (2019). *Cape Winelands Regional Socio-Economic Development Strategy*. Worcester: Cape Winelands District Municipality.
- Cape Winelands District Municipality. (2020). *Cape Winelands District Spatial Development Framework 2019/2020*. Stellenbosch: Cape Winelands District Municipality.
- Cape Winelands District Municipality. (2020). *Integrated Development Plan 2020-2021*. Worcester: Cape Winelands District Municipality.
- Carley, S., Konisky, D., Atiq, Z., & Land, N. (2020). *Energy infrastructure, NIMBYism, and public opinion: a systematic literature review of three decades of empirical survey literature*. Published by IOP Publishing: Environmental Research Letters .
- Carlisle, J. E., Kane, S. L., Solan, D., & Joe, J. C. (2014). Support for solar energy: Examining sense of place and utility-scale development in California. *Energy Research & Social Science* 3 (2014), 124-130.
- Central Karoo District Municipality. (2016). *Central Karoo District 3rd 2012-2017 IDP Review For Implementation 2016 – 2017*. Beaufort West: Central Karoo District Municipality.
- CSIR, Natural Resources and the Environment . (2006). *Stratigic Environmental Assessment for the management of Ecosystem Services within the Cape Winelands District Municipal Area*. Stellenbosch: CSIR, Natural Resources and the Environment .
- CTS Heritage. (2020a). *Archaeological Specialist Study In terms of Section 38(8) of the NHRA for a Proposed development of an overhead powerline for the approved Oya PV Facility, Western and Northern Cape*. Cape Town: CTS Heritage.
- CTS Heritage. (2020b). *Heritage Impact Assessment In terms of Section 38(8) of the NHRA for the Proposed development of an overhead powerline for the approved Oya PV Facility, Western and Northern Cape*. Cape Town: CTS Heritage.
- CTS Heritage. (2020c). *Palaeontological Specialists Study In terms of Section 38(8) of the NHRA Proposed development of an overhead powerline for the approved Oya PV Facility, Western and Northern Cape*. Cape Town: CTS Heritage.
- Dennis Moss Partnership. (2012). *Northern Cape Provincial Spatial Development Framework: First Consultative Draft, March 2012*.
- Department of Energy Republic of South Africa. (2018). *Draft Integrated Resource Plan, 2018 for public comments*. Pretoria: Department of Energy Republic of South Africa.
- Department of Energy Republic of South Africa. (2019). *Draft Integrated Resource Plan*. Pretoria: Department of Energy Republic of South Africa.
- Department of Environmental Affairs and Tourism. (2004). *South African National Climate Change Response Strategy, September 2004*. Pretoria: Department of Environmental Affairs and Tourism.
- Department of Transport. (2013). *The National Household Travel Survey in South Africa*. Department of Transport.
- Electromagnetic fields (EMF)*. (2020). Retrieved June 14, 2020, from World Health Organisation: <https://www.who.int/peh-emf/about/WhatisEMF/en/index1.html>
- Elias Motsoaledi Local Municipality. (2013). *Elias Motsoaledi Integrated Development Plan* .
- Environmental Resources Management (ERM). (2012). *Proposed Renewable Energy Facility at the Perdekraal Site 2, Western Cape DEA Ref: 12/12/20/1783*. Environmental Resources Management (ERM).
- Farhar, B. C., Hunter, L. M., Kirkland, T. m., & Tierney, K. J. (2010). *Concentrating Solar Power in the San Luis Valley*. Golden, Colorado: National Renewable Energy Laboratory. U.S. Department of Energy.

- Fernandez, P. R., Ng, K.-H., & Kaur, S. (2019). Risk Communication Strategies for Possible Health Risks From Radio-Frequency Electromagnetic Fields (RF-EMF) Emission by Telecommunication Structures. *Health Physics: June 2019 - Volume 116 - Issue 6*, 835-839.
- Firestone, J., Bidwell, D., Gardner, M., & Knapp, L. (2018). Wind in the sails or choppy seas?: People-place relations, aesthetics and public support for the United States' first offshore wind project. *Energy Research & Social Science. Volume 40, June 2018*, 232-234.
- Fourie, D., Kritzinger-van Niekerk, L., & Nel, M. (2015). *An overview of the renewable energy independent power producers procurement programme (REIPPPP)*. Centurion: Department of Energy IPP Office .
- Gallastegi, M., Jiménez-Zabala, A., Molinuevo, A., Aurrekoetxea, J. J., Santa-Marina, L., Vozmediano, L., & Ibarluzea, J. (2019). Exposure and health risks perception of extremely low frequency and radiofrequency electromagnetic fields and the effect of providing information. *Environmental Research, Volume 169, February*, 501-509.
- Government Gazette No. 41445. (2018). *Notice 114, page 92-96*. Pretoria: Government Printing Works.
- Government Gazette No. 43734 Notice No. 1015 Department of Mineral Resources and Energy. (2020, September 25). Determination Under Section 34(1) of the Electricity Regulation Act, 2006 (Act No. 4 of 2006 . Pretoria: Government Printers.
- Hantam IDP. (2015). *Hantam Integrated Development Plan*.
- Independent Power Producer Office. (2020a). *Independent Power Producers Procurement Programme. An Overview as at 31 December 2019*. Centurion: Independent Power Producers Office.
- Independent Power Producers Procurement Office. (2020b). *Provincial Report Volume 3: Western Cape Overview*. Centurion: Power Producers Procurement Office.
- Intergovernmental Panel on Climate Change (Approved SPM – copyedit pending). (6 October 2018). *Global Warming of 1.5 °C an IPCC special report on the impacts of global warming of 1.5 °C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change*. Intergovernmental Panel on Climate Change.
- Jenkins, A., van Rooyen, C., Smallie, J., Harrison, J., Diamond, M., Smit-Robinson, H., & Ralston, S. (2015). *Best Practice Guidelines for assessing and monitoring the impact of wind energy facilities on birds in Southern Africa*.
- Kikwasi, G. J., & Lukwale, S. R. (2017). HIV/AIDS and Construction Workers: Knowledge, Risk Sexual Behaviours and Attitude. *Global Journal of Health Science 10(1):37*.
- Laingsburg Local Municipality. (2017). *Laingsburg Municipality Integrated Development Plan: Draft 2017/18 Review*. Laingsburg: Laingsburg Local Municipality.
- Meintjes, I., Bowen, P., & Root, D. (2007). HIV/AIDS in the South African construction industry: Understanding the HIV/AIDS discourse for a sector-specific response. *Construction Management and Economics, 25(3)*, 255-266.
- Naledi Local Municipality. (2013). *Integrated Development Plan 2012 - 2017*.
- Namakwa District Municipality. (2018). *Namakwa District Municipality, Integrated Development Plan, Revision 2018/2019*. Springbok: Namakwa District Municipality.
- Namakwa DM. (2014). *Namakwa Integrated Development Plan*.
- National Department of Health. (2015). *The 2013 National Antenatal Sentinel HIV Prevalence Survey South Africa*. Pretoria: National Department of Health.
- Nkangala District Municipality. (2014). Retrieved from <http://www.nkangaladm.gov.za/index.php/2014-02-25-17-36-25/ndm-background>

- Northern Cape Province. (2014). *Northern Cape Province Twenty Year Review 2014*. Kimberly: Northern Cape Province.
- Northern Cape Province. Department of Economic Development & Tourism. (2017). *Annual Report for the year ended 31 March 2017*. Kimberly: Northern Cape Province.
- PGS Heritage (Pty) Ltd. (2019). *Proposed Umsobomvu Solar PV Energy Facilities Heritage Scoping Report*. Pretoria: PGS Heritage (Pty) Ltd.
- Pixley ka Seme District Municipality. (2011). *Pixley ka Seme District Municipality Integrated Development Plan for 2011-2016*.
- Pixley ka Seme District Municipality. (2014/15). *Pixley ka Seme District Municipality Integrated Development Plan for 2011-2016*.
- Quantec. (2014). Standard Regionalised Data Series.
- Quantec. (2016). *Quantec data*.
- Ramjee, G., & Gouws, E. (2002). Prevalence of HIV Among Truck Drivers Visiting Sex Workers in KwaZulu-Natal, South Africa. *Sexually Transmitted Diseases: Volume 29 - Issue 1*, 44-49.
- Research Chair in the Sociology of Land, Environment and Sustainable Development. Department of Sociology and Social Anthropology, Stellenbosch University. (2016, January). *Cosmopolitan Karoo Sustainable Development*. Retrieved from Why the Karoo: <https://cosmopolitankaroo.co.za/about/why-the-karoo/>
- Roddisa, P., Carvera, S., Dallimerb, M., Normana, P., & Ziva, G. (2018). The Role of Community Acceptance in Planning Outcomes for Onshore Wind and Solar Farms: An energy justice analysis. *Applied Energy* 226 (2018), 353–364.
- SABC News. (2014, July). Retrieved from <http://www.sabc.co.za/news/a/fc9dc88044b73e21884cf93bfe17c0b1/Transport-Ministry-still-working-on-Moloto-Rail-Corridor-study>
- Sager, M. (2014). *Renewable Energy Vision 2030– South Africa*. World Wide Fund for Nature (formerly World Wildlife Fund), South Africa.
- Schneider, J., Mudra, P., & Kozumplíková, A. (2018). Public Participation in the Process of EIA Intentions of Wind Power Plants in the Czech Republic. *Acta Univ. Agric. Silvic. Mendelianae Brun. Acta Univ. 2018, 66,* 171-182.
- Sekhukhune District Municipality. (2014). *Sekhukhune Integrated Development Plan*.
- Simbayi, L., Zuma, K., Zungu, N., Moyo, S., Marinda, E., Jooste, S., . . . (2019), a. t. (2019). *South African National HIV Prevalence, Incidence, Behaviour and Communication Survey, 2017*. Cape Town: HSRC Press.
- Singh, Y. N., & Malaviya, A. N. (1994). Long distance truck drivers in India: HIV infection and their possible role in disseminating HIV into rural areas. *International Journal of STD & AIDS* 5(2/), 137-138.
- SiVEST SA (Pty) Ltd. (2019b). *Proposed Construction of Three Solar Photovoltaic Energy Facilities near Noupoort, Northern and Eastern Cape Provinces Visual Impact Assessment Report – Scoping Phase*. Johannesburg: SiVEST SA (Pty) Ltd.
- SiVEST SA (Pty) Ltd. (2020). *Proposed Construction of the Oya 132kV Power Line near Matjiesfontein, Western and Northern Cape Provinces Visual Impact Assessment*. Umhlanga Rocks: SiVEST SA (Pty) Ltd.
- Siyathemba LM. (2014). *Siyathemba Municipality Integrated Development Plan 2014/15*.
- Siyathemba Local Municipality. (2012). *Siyathemba Local Municipality Local Economic Development Strategy*.
- Siyathemba Local Municipality. (2014). *Integrated Development Plan 2014/15*.
- Siyathemba Local Municipality. (2014). *Siyathemba Municipality Integrated Development Plan 2014/15*.

- Smit, D. (2011). *Alternative sources of energy for South Africa in various shades of green*. Retrieved from University of Pretoria Features Innovation: <https://www.up.ac.za/media/shared/Legacy/sitefiles/file/44/1026/2163/8121/alternativesourcesofenergyforsouthafricainvariousshadesofgreen.pdf>
- South African Government. (2003). *White Paper on Renewable Energy*. Pretoria: Government Printing Works.
- South African Government. (2008). *National Energy Act. No 34 of 2008*. Pretoria: Government Printing Works.
- South African Government. (2010a). *Integrated Resource Plan 2010-2030*. Pretoria: Government Printing Works.
- South African Government. (2010b). *New Growth Path Framework*. Pretoria: Government Printing Works.
- South African Government. (2012). *National Infrastructure Plan*. Pretoria: Government Printing Works.
- Sowler, S., & Stoffberg, S. (2014). *South African Good Practice Guidelines for Surveying Bats at Wind Energy Facility Developments - Pre-construction*.
- Statistics South Africa. (2011). *Census 2011 Municipal Fact Sheet*. Pretoria: Statistics South Africa.
- Statistics South Africa. (2020a). *Mid-year population estimates 2020*. Pretoria: Statistics South Africa.
- Statistics South Africa. (2020a). *Mid-year population estimates 2020*. Pretoria: Statistics South Africa.
- Statistics South Africa. (2020b). *Quarterly Labour Force Survey: Quarter 4: 2019*. Pretoria: Statistics South Africa.
- Stats SA. (2001). 2001 Census.
- Stats SA. (2011). *Census*. Stats SA.
- Stats SA. (2014). *Census 2011*.
- Stats SA. (2015). *Census 2011*.
- Stats SA. (2015). *Census 2011*.
- Stats SA. (n.d.). National Census 2011.
- Strauss, M., George, G., Lansdell, E., Mantell, J. E., Govender, K., Romo, M., . . . Kelvin, E. A. (2018). HIV testing preferences among long distance truck drivers in Kenya: a discrete choice experiment. *AIDS Care*, 30(1), 72-80.
- The World Bank. (2009). *Gender in Agriculture Sourcebook*. Washington: The World Bank.
- Thembisile Hani Local Municipality. (2013). *Thembisile Hani Integrated Development Plan*.
- Umsebe Development Planners. (2010). *Hantam LM Rural Spatial Development Framework*.
- Umsebe Development Planners. (2010). *Khai-Ma LM Rural Spatial Development Framework*.
- Urban-Econ Development Economists. (2011). *Hantam Municipality Local Economic Development Strategy*.
- Vanclay, F. (2002). Conceptualising social impacts. *Environmental Impact Assessment Review*, 22, 183-211.
- Vanclay, F., Esteves, A. M., Aucamp, I., & Franks, D. (2015). *Social Impact Assessment: Guidance document*. Fargo ND: International Association for Impact Assessment.
- Warren, C. R., & McFadyen, M. (2010). Does community ownership affect public attitudes to wind energy? A case study from south-west Scotland. *Land Use Policy*, Volume 27, Issue 2, 204-213.
- Wasie, B., Tiruneh, K., Gebeyehu, W., Desalegn, E., Tadesse, F., & Kiros, K. (2015). HIV prevalence, risk perception, and correlates of risky sexual practice among migrant

- workers in Northwest Ethiopia. *Ethiopian Journal of Health Development Vol.29 No.2* , 90-98.
- Western Cape Government. (2014). *Provincial Strategic Plan 2014 – 2019*. Cape Town: Western Cape Government.
- Witzenberg Local Municipality. (2005). *Towards an LED Strategy for Witzenberg Report on Phases 1 & 2 Organisation & Technical Assessment Executive Summary and Strategic Conclusion*. Ceres: Witzenberg Local Municipality.
- Witzenberg Local Municipality. (2012). *Witzenberg Spatial Development Framework*. Ceres: Witzenberg Local Municipality.
- Witzenberg Local Municipality. (2020a). *Witzenberg Municipality Integrated Development Plan 2017 – 2022*. Ceres: Witzenberg Local Municipality.
- Witzenberg Municipality Local Municipality. (2020b). *Witzenberg Municipality Spatial Development Framework Final Report*. Ceres: Witzenberg Municipality Local Municipality.
- Woldesenbet, S. A., Kufa, T., Lombard, C., Manda, S., Ayalew, K., Cheyip, M., & Puren, A. (2019). *The 2017 National Antenatal Sentinel HIV Survey, South Africa, National Department of Health*. Pretoria: National Department of Health South Africa.
- Wong, B. (2013). Social Impact Assessment: The principles of the US and International Version, Criticisms and Social Impact Variables. *Proceeding of the Global Conference on Business, Economics and Social Sciences 2013 (e-ISBN 978-967-12022-0-3) 25-26 June 2013* (pp. 137-147). Kuala Lumpur: Organized by: WorldResearchConference.com.
- World Bank Group. (2016). *Climate Change Action Plan 2016-2020*. Washington: International Bank for Reconstruction and Development / The World Bank.
- Zelege, B. M., Bhatt, C. R., Brzozekab, C., Abramson, M. J., Freudensteine, F., Crofte, R. J., . . . Benke, G. (2019). Radiofrequency electromagnetic field exposure and risk perception: A pilot experimental study. *Environmental Research, Volume 170, March*, 493-499.

**Heritage (including Archaeology, Palaeontology and Cultural Landscapes) – Amendment Letter**

- Almond, J. 2018. Palaeontological Heritage: Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces: BA Report. Cape Town: Natura Viva.
- Rabe Bailey, E. 2018. Cultural Landscapes Assessment Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces: BA Report. Cape Town: Hearth Heritage.
- Smuts, K. 2018. Archaeological Impact Assessment Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces: BA Report. Prepared for G7. Cape Town: Katie Smuts.
- Smuts, K. 2018. Heritage Impact Assessment Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces: BA Report. Prepared for G7. Cape Town: Katie Smuts.



**Heritage (including Archaeology, Palaeontology and Cultural Landscapes) – Walk-through Report**

Heritage Impact Assessments				
Nid	Report Type	Author/s	Date	Title
8180	AIA Phase 1	Jayson Orton	01/02/2006	ARCHAEOLOGICAL IMPACT ASSESSMENT FOR THE CONSTRUCTION OF A DAM ON THE VERLORENVLEI FARM (VERLORENVALLEY 344) NEAR TOUWSRIVIER
8181	AIA Phase 1	Jayson Orton	29/09/2009	HERITAGE STATEMENT FOR THE PROPOSED VERLORENVLEI DIVERSION CANAL, CERES MAGISTERIAL DISTRICT, WESTERN CAPE
6644	AIA Phase 1	Jonathan Kaplan	29/09/2009	ARCHAEOLOGICAL IMPACT ASSESSMENT PROPOSED DEVELOPMENT ERF 660 DE DOORNS, WESTERN CAPE PROVINCE
186697	Desktop AIA	Foreman Bandama, Shadrack Chirikure	01/08/2014	An Archaeological Scoping and Assessment report for the proposed Gamma (Victoria West, Northern Cape) - Kappa (Ceres – Western Cape) 765Kv (2) Eskom power transmission line
329647	HIA Phase 1	Dave Halkett	15/06/2012	HERITAGE IMPACT ASSESSMENT OF THE IMPACTS RESULTING FROM THE RAISING OF THE EXISTING KEEROM DAM, SITUATED BETWEEN MONTAGU AND TOUWS RIVER, WESTERN CAPE
359488	Heritage Screener	Mariagrazia Galimberti, Kyla Bluff, Nicholas Wiltshire	09/03/2016	Brandvalley Wind Energy Facility
53187	HIA Phase 1	Timothy Hart, Lita Webley	01/03/2011	HERITAGE IMPACT ASSESSMENT PROPOSED WIND ENERGY FACILITY
337370	PIA Phase 1	Duncan Miller	01/03/2011	Palaeontological Impact Assessment Proposed Roggeveld Wind Energy Facility
356316	Heritage Screener	Mariagrazia Galimberti, Kyla Bluff, Nicholas Wiltshire	02/02/2016	Heritage Screener CTS15_015b EOH Brandvalley Wind Energy Facility
356318	Heritage Screener	Mariagrazia Galimberti, Kyla Bluff, Nicholas Wiltshire	01/02/2016	Heritage Screener CTS15_015a EOH Rietkloof Wind Energy Facility
364162	PIA Phase 1	John E Almond	01/04/2016	PALAEONTOLOGICAL HERITAGE ASSESSMENT: COMBINED DESKTOP & FIELD-BASED STUDY - PROPOSED BRANDVALLEY WIND ENERGY FACILITY LAINGSBURG, WESTERN & NORTHERN CAPE PROVINCES
364163	AIA Phase 1	Celeste Booth	01/04/2016	A PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENT (AIA) FOR THE PROPOSED BRANDVALLEY WIND ENERGY FACILITY (WEF) SITUATED IN THE KAROO HOOGLAND LOCAL

				MUNICIPALITY (NAMAKWA DISTRICT MUNICIPALITY), THE WITZENBURG LOCAL MUNICIPALITY (CAPE WINELANDS DISTRICT MUNICIPALITY) AND LAINGSBURG LOCAL MUNICIPALITY (CENTRAL KAROO DISTRICT MUNICIPALITY).
4843	AIA Phase 1	Hilary Deacon	28/03/2008	Archaeological Impact Assessment: Proposed Breede Valley De Doorns Housing Project
514990	HIA Phase 1	Katie Smuts, Emmylou Bailey, Madelon Tusenius, John Almond	29/10/2018	HERITAGE IMPACT ASSESSMENT Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces: BA REPORT
375379	AIA Phase 1	Hugo Pinto, Katie Smuts	24/10/2011	Preliminary Archaeological Survey of Karoopoort Farm

#### **Additional References for Heritage Walk-through Report:**

- Hart, T. et al. (2016). HERITAGE IMPACT ASSESSMENT (SCOPING) FOR THE PROPOSED KOLKIES WIND ENERGY FACILITY AND ASSOCIATED GRID CONNECTION TO BE SITUATED IN THE SOUTHERN TANKWA KAROO. (Assessment conducted under Section 38 (8) of the National Heritage Resources Act (No. 25 of 1999) as part of an EIA). For Arcus Consulting. Unpublished and not submitted.
- Hart, T. et al. (2016). HERITAGE IMPACT ASSESSMENT (SCOPING) FOR THE PROPOSED KAREE WIND ENERGY FACILITY AND ASSOCIATED GRID CONNECTION TO BE SITUATED IN THE SOUTHERN TANKWA KAROO. (Assessment conducted under Section 38 (8) of the National Heritage Resources Act (No. 25 of 1999) as part of an EIA). For Arcus Consulting. Unpublished and not submitted.
- Shaw, Matthew & Ames, Christopher & Phillips, Natasha & Chambers, Sherrie & Dosseto, Anthony & Douglas, Matthew & Goble, Ron & Jacobs, Zenobia & Jones, Brian & Lin, Sam & Low, Marika & Mcneil, Jessica-Louise & Nasoordeen, Shezani & O'driscoll, Corey & Saktura, Rosaria & Sumner, T. & Watson, Sara & Will, Manual & Mackay, Alex. (2020). The Doring River Archaeology Project: Approaching the Evolution of Human Land Use Patterns in the Western Cape, South Africa.
- Smith, Andrew B., and Michael R. Ripp. "An Archaeological Reconnaissance of the Doorn/Tanqua Karoo." The South African Archaeological Bulletin, vol. 33, no. 128, 1978, pp. 118–133

#### **Palaeontology – Amendment Letter**

- ALMOND, J.E., 2018. Basic Assessment for the Proposed Development of the 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces.
- Lavin, J., 2020. Archaeological and Palaeontological Walkdown Report for the Part 2 Environmental Authorisation (EA) Amendment Process for the proposed 325MW Kudusberg Wind Energy Facility and associated infrastructure, between Matjiesfontein and Sutherland in the Western and Northern Cape Provinces

#### **Noise**

- Safetech, 2018. Environmental Noise Impact Assessment for the proposed construction of the Kudusberg Wind Energy Facility (WEF) between Matjiesfontein and Sutherland in the Northern and Western Cape Province. Report Number 26/8377 of 16th October 2018

## **Transport**

- JG Afrika (Pty) Ltd, 2018. Basic Assessment for the proposed development of the 325MW Kudusberg Wind Energy Facility located west of the R354 between Matjiesfontein and Sutherland in the Northern and Western Cape.

**SiVEST Environmental Division**

VCC Estate, Northview building, 170 Peter Brown Drive,  
Bush Shrike Close, Montrose, Pietermaritzburg, 3201. South Africa  
P.O. BOX 707, Msunduzi, 3231. South Africa

Tel: + 27 33 347 1600

Fax: +27 33 347 5762

Email: [info@sivest.co.za](mailto:info@sivest.co.za)

[www.sivest.co.za](http://www.sivest.co.za)

Contact Person: Liandra Scott-Shaw

Cell Number: 073 658 7955

Email: [liandras@sivest.co.za](mailto:liandras@sivest.co.za)