

DISPATCH OF GOODS

CSIR 261 C FORM

Kindly arrange for dispatch of the following goods:

COURIER: **GLOBEFLIGHT**

WAYBILL NO: 2720615834

1. Name and address of consignee: Ms Francisca Jansen (The Librarian);
Laingsburg Library, Van Riebeeck Street, Laingsburg, 6900
023-5511019

2. Method of dispatch:

Air freight ☐

Sea freight ☐

Courier ☒

3. Is Insurance required?

Yes ☐

No ☐

Value: R _____

4. Value for customs purposes:

R _____

5. Will goods be re-imported?

Yes ☐

No ☐

6. Project to be debited:

Project	OU	Depart	Activity	X-Ref
EEMS0190600000605ERUN				

7. Transport and delivery charges to be paid by:

CSIR ☒

Consignee ☐

8. Describe and number of items per container: Documents

9. No. of cases / boxes / packages: 1 Weight: _____ kg

10. Reason for dispatch: _____

11. Special instructions: _____

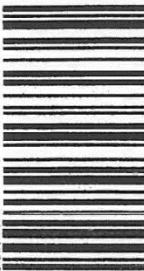
PRINT NAME: M. Levendal
 DATE: 2 Oct 2019

EXTENSION: 2495
 OU: EMS - Smart Places

GlobeFlight
24 HOURS SERVICE

HEAD OFFICE: 011 922 2600
www.globeflight.com
Reg No: 1998/03052/07 / VAT NO: 4650175351

2720615835



DATE	ACCOUNT NUMBER	COST CENTRE	SHIPPER'S REFERENCE	ORIGIN	DESTINATION	NO. OF PIECES
2-10-19	PU1624		ECMS019 121W 06005 0600 SE			1

SHIPPER (YOUR NAME)
M. lewendal

COMPANY NAME
CSR - STELLENBOSCH

STREET ADDRESS
11 JAN CILLIERS STR

CITY
STELLENBOSCH

CAPE TOWN

COUNTRY
RSA

TELEPHONE NUMBER & E-MAIL
021 853 2483

TO (RECIPIENT'S NAME)
Mrs Ronell Coetzee (The Librarian)

COMPANY NAME
Sutherland Library

STREET ADDRESS
Sarel Cilliers Street

CITY
Sutherland

COUNTRY
S.A.

TELEPHONE NUMBER & E-MAIL
023-5711429

POST/ZIP CODE: **7559**

POST/ZIP CODE: **6920**

OVERNIGHT EXPRESS ☒

IN CITY DELIVERY ☐

BUDGET CARGO 21-48 HRS ☐

ROAD FREIGHT 48-96 HRS ☐

HAZARDOUS CARGO? YES ☐ NO ☐

INSURANCE YES ☐ NO ☐

AMOUNT: _____

WE HAVE SEEN AND AGREE TO THE STANDARD CONDITIONS OF CARRIAGE OF GLOBEFLIGHT WORLDWIDE EXPRESS

PRINT NAME: **A Taylor**

SIGNATURE: *A Taylor*

DATE: **2-10-19**

RECEIVED BY GLOBEFLIGHT WORLDWIDE EXPRESS

PRINT NAME: _____

SIGNATURE: _____

DATE: _____

RECEIVED IN GOOD ORDER AND CONDITION

PRINT NAME: _____

SIGNATURE: _____

DATE: _____

GLOBAL DOCUMENT EXPRESS ☐

GLOBAL PARCEL EXPRESS ☐

SPECIALS ☐

AIRFREIGHT ☐

CROSS BORDER ROAD FREIGHT ☐

CUSTOMS VALUE

SAME DAY ☐

DAWN DELIVERY BY 09H00 ☐

SATURDAY DELIVERY AFTER HOURS ☐

PUBLIC HOLIDAY ☐

IMPORT & EXPORT CODE

SPECIAL INSTRUCTIONS

DOCUMENTS

DISPATCH OF GOODS

CSIR 261 C FORM

Kindly arrange for dispatch of the following goods:

COURIER: **GLOBEFLIGHT**

WAYBILL NO: 2720615835

1. Name and address of consignee: Mrs Ronell Cloete (The Librarian);
Sutherland Library; Sarel Celliers Street, Sutherland; 6920
023 - 571 1429

2. Method of dispatch:

Air freight ☐

Sea freight ☐

Courier ☒

3. Is Insurance required?

Yes ☐

No ☐

Value: R _____

4. Value for customs purposes:

R _____

5. Will goods be re-imported?

Yes ☐

No ☐

6. Project to be debited:

Project	OU	Depart	Activity	X-Ref
E E M S O 1 9 0 6 0 0 0 0 6 0 S E R U N				

7. Transport and delivery charges to be paid by:

CSIR ☒

Consignee ☐

8. Describe and number of items per container: Documents

9. No. of cases / boxes / packages: 1

Weight: _____ kg

10. Reason for dispatch: _____

11. Special instructions: _____

PRINT NAME: M. Levendal

EXTENSION: 2495

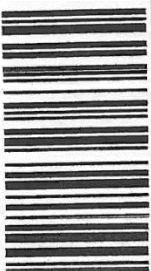
DATE: 2 Oct 2019

OU: EMS - Smart Places

Globeflight
24 service - 365

HEAD OFFICE: 011 922 2000
www.globeflight.com
Reg No. 1598/000052/07 / VAT NO. 4650175351

2720615836



DATE	ACCOUNT NUMBER	COST CENTRE	SHIPPER'S REFERENCE	ORIGIN	DESTINATION	No. OF PIECES
2-10-19	PR1521		66M5019 / RW 06008 / 06056			1

SHIPPER (YOUR NAME)
M. Lerendal

COMPANY NAME
CSIR - STELLENBOSCH

STREET ADDRESS
11 JAN GILLIENS STR

STELLENBOSCH

CITY
CAPE TOWN

COUNTRY
RSA

TELEPHONE NUMBER & E-MAIL
021 855 2400

TO (RECIPIENT'S NAME)
Ms Lizomine Buis (The Librarian)

COMPANY NAME
Merweville Public Library

STREET ADDRESS
29 Voortrekker Street

MERWEVILLE

CITY
S.A.

COUNTRY
6940

POST/ZIP CODE
023 - 501 4057

TELEPHONE NUMBER & E-MAIL
023 - 501 4057

GLOBAL DOCUMENT EXPRESS		OVERNIGHT EXPRESS		BUDGET CARGO 21-48 HRS		ROAD FREIGHT 48-96 HRS	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HAZARDOUS CARGO? YES ☐ NO ☐

INSURANCE YES ☐ NO ☐

AMOUNT: _____

WE HAVE SEEN AND AGREE TO THE STANDARD CONDITIONS OF CARRIAGE OF GLOBEFLIGHT WORLDWIDE EXPRESS

PRINT NAME: **A Taylor**

SIGNATURE: *A Taylor*

DATE: **2-10-19** TIME: _____

RECEIVED BY GLOBEFLIGHT WORLDWIDE EXPRESS

PRINT NAME: _____

SIGNATURE: _____

DATE: _____ TIME: _____

RECEIVED IN GOOD ORDER AND CONDITION

PRINT NAME: _____

SIGNATURE: _____

DATE: _____ TIME: _____

PIECES	WEIGHTS	IMPORT & EXPORT CODE	DESCRIPTION OF CONTENTS
1	X X X		Documents

Please note indemnity clause in Terms & Conditions.

DISPATCH OF GOODS

CSIR 261 C FORM

Kindly arrange for dispatch of the following goods:

COURIER: **GLOBEFLIGHT**

WAYBILL NO: 2720615836

1. Name and address of consignee: Ms Lizomine Buis (The Librarian);
Merweville Public Library, 29 Voortrekker Street, Merweville, 6940
023 - 501 4057

2. Method of dispatch:

Air freight ☐

Sea freight ☐

Courier ☒

3. Is Insurance required?

Yes ☐

No ☐

Value: R _____

4. Value for customs purposes:

R _____

5. Will goods be re-imported?

Yes ☐

No ☐

6. Project to be debited:

Project	OU	Depart	Activity	X-Ref
E E M S O 1 9	0 6 0 0 0	0 6 0 5 E	R U N	

7. Transport and delivery charges to be paid by:

CSIR ☒

Consignee ☐

8. Describe and number of items per container: Documents

9. No. of cases / boxes / packages: 1 Weight: _____ kg

10. Reason for dispatch: _____

11. Special instructions: _____

PRINT NAME: M. Levendal

EXTENSION: 2495

DATE: 2 Oct 2019

OU: GMS - Smart Places

Email notifications

Proof of email notifications sent on 3 October 2019:

From: Minnelise Levendal
To: Minnelise Levendal
CC: "Minnelise Levendal"
BC stephnie.kot@aced.co.za; aditeme@agri.ncape.gov.za; lmanong@agri.ncape.gov.za; Henning; Ontvangs; agrisa@agrisa.co.za; nic@agrisa.co.za; Phillip De Lange; carl@awk.co.za/info@awk.co.za; Andiswa Sam; fsmith@bgcma.co.za; Makhosi Mthimkhulu; mbarnes@biothermenergy.com; advocacy@birdlife.org.za; energy@birdlife.org.za; simon.gear@birdlife.org.za; edwin@bolandbolts.co.za; klipfontein@breedeco.za; coert@breedenet.co.za; isak@breedenet.co.za; Magdalena Kataryna Michalowska; s.harris@buildingenergy.it; BestbierG@caa.co.za; MazheteseC@caa.co.za; strohl@caa.co.za; Alana Duffell-Canham; cfordham@capenature.co.za; bjoubert@cellc.co.za; VKiewitz@cellc.co.za; CPO@daff.gov.za; JacolineMa@daff.gov.za; maryjeang@daff.gov.za; mashuduma@daff.gov.za; ThokoB@daff.gov.za; thys.heyns@debeersgroup.com; Duduzile.Kunene@dmr.gov.za; DikgangJ@dot.gov.za; lucky.legodi@drdlr.gov.za; MeiM@dwa.gov.za; Kgaphola Mashudu(UPN); KhanR@dws.gov.za; Lintnaar-StraussM@dws.gov.za; Ntoi Mosala(UPN); Schwartz Chantel (UPN); odgcorrespondence@economic.gov.za; corvdw@elsenburg.com; PaulH@elsenburg.com; phyllisp@elsenburg.com; Mpho.mabaso@energy.gov.za; Muhammad Essop; msolomons@environment.gov.za; Stanley Tshitwamulomoni; Wilma Lutsch; andre.crous@eskom.co.za; BerghS@eskom.co.za; elroy.saaynan@eskom.co.za; John Geeringh; HectorA@eskom.co.za; Owen Peters; reddylu@eskom.co.za; vGenseAL@eskom.co.za; Justine Wyngaardt; bonnies@ewt.org.za; christyb@ewt.org.za; constanth@ewt.org.za; lourensl@ewt.org.za; wep@ewt.org.za; aflynn@falconoilandgas.com; johan@fleetcall.co.za; eia@g7energies.com; mabule@ghouse.org.za; azknoop@gmail.com; bft148@gmail.com; bulwater67@gmail.com; elsabe.dtec@gmail.com; franskaroo@gmail.com; jeremydavids11@gmail.com; laingsburglv@gmail.com; madaboutbats@gmail.com; mullerhandelaars@gmail.com; ntoerien1@gmail.com; onyndzumo@gmail.com; petrusvanh@gmail.com; spothil@gmail.com; tommiep.potgieter@gmail.com; twessels@grand.ncape.gov.za(...)
Date: 03 Oct 2019 17:17
Subject: JOINT NOTICE OF RELEASE OF DRAFT AMENDMENT REPORTS FOR COMMENTS FOR THE RIETRUG, SUTHERLAND AND SUTHERLAND 2 WIND ENERGY FACILITIES NEAR SUTHERLAND
Attachments: CSIR Letter_Mainstream _General Letter Amendments_V1.pdf; Comment and Response Form_Mainstream_EGI_011019.pdf

Dear Stakeholders and Interested and Affected Parties

joint Notice of THE Release of draft amendment reports for COMMENT:

Rietrug, Sutherland and Sutherland 2 wind energy facilities (WEFS)

(DEA Reference Numbers: 12/12/20/1782/1/AM3; 12/12/20/1782/2/AM3; and 12/12/20/1782/3/AM3 RESPECTIVELY).

Competent Authority: National Department of Environment, Forestry and Fisheries (DEFF)

This e-mail correspondence serves to inform you of the release of the Draft Amendment Reports for comment to amend the Environmental Authorisations issued for the above-mentioned projects.

On 25 August 2017, the National Department of Environmental Affairs (DEA) (now operating as the Department of Environment, Forestry and Fisheries (DEFF)) accordingly granted separate and amended Environmental Authorisations (EAs) for the Rietrug, Sutherland and Sutherland 2 WEFs (DEA Reference Numbers: 12/12/20/1782/1/AM2; 12/12/20/1782/2/AM2; and 12/12/20/1782/3/AM2).

The Project Applicant is South Africa Mainstream Renewable Power Developments (PTY) Ltd (hereinafter referred to as Mainstream). As part of this Amendment Application, Mainstream wishes to apply for the following amendments:

1. The amendment to the EA is to change the contact person and contact details of the holder of the Environmental Authorisation for Mainstream.
2. Mainstream is proposing a change in turbine height and rotor diameter from 150 m turbine height and rotor diameter to 200 m turbine height and rotor diameter.

The proposed projects occur within the gazetted Renewable Energy Development Zone (REDZ) 2: Komsberg.

Please note that although a joint notice is hereby released, separate applications and separate Draft Amendment Reports for each project have been submitted to DEFF for comment.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the Draft Amendment Reports for the proposed projects for a 30-day review period, which will extend from 4 October 2019 to 4 November 2019.

Please find attached the following:
Letter to I&APs; and

Comment and Registration Form.

Hard copies of the Draft Amendment Reports are available for public viewing at the Sutherland Library, Merweville Library and the Laingsburg Library. The Draft Amendment Reports can also be downloaded from the following website: <https://www.csir.co.za/environmental-impact-assessment>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 4 November 2019.

Thank you and kind regards,

Minnelise Levendal Pr. Sci. Nat.

CSIR - Smart Places - Environmental Management Services
PO Box 320, Stellenbosch, 7599
Tel: 021 888 2495
Fax: 021 888 2693
Email: mlevendal@csir.co.za

Recipients: 186 Acknowledged: 2, Response Pending: 163, Undelivered: 21	
Undelivered: 21	
Acknowledged: 2	
Minnelise Levendal	Read
Rohaida Abed	Read
Response Pending: 163	
abra@roggeveld.co.za	Transferred
abriedewet@overbergwireless.co.za	Transferred
aditeme@agri.ncape.gov.za	Transferred
Adri La Meyer	Transferred
Adrian Tiplady	Transferred
advocacy@birdlife.org.za	Transferred
aflynn@falconoilandgas.com	Transferred
agrisa@agrisa.co.za	Transferred
Alana Duffell-Canham	Transferred
Andiswa Sam	Transferred
andre.crous@eskom.co.za	Transferred
andrew.september@westerncape.gov.za	Transferred
annelizac@nda.agric.za	Transferred
ao@telkomsa.net	Transferred
azknoop@gmail.com	Transferred
barnesc@vodacom.co.za	Transferred
BerghS@eskom.co.za	Transferred
BestbierG@caa.co.za	Transferred
BFisher	Transferred
bft148@gmail.com	Transferred
bjoubert@cellc.co.za	Transferred
bonnies@ewt.org.za	Transferred
bulwater67@gmail.com	Transferred
cfordham@capenature.co.za	Transferred
charlesm@midkaroo.co.za	Transferred
chris@salt.ac.za	Transferred
chrisf@namakwa-dm.gov.za	Transferred
coert@breedenet.co.za	Transferred
Colene Runkel (WR)	Transferred
Colette.Scheermeyer@westerncape.go...	Transferred
constanth@ewt.org.za	Transferred
corvdw@elsenburg.com	Transferred

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CPO@daff.gov.za	Transferred
creesef@sentech.co.za	Transferred
danie.oosthuizen@vodacom.co.za	Transferred
dedat@ncpg.gov.za	Transferred
devon.govender@transnet.net	Transferred
DikgangJ@dot.gov.za	Transferred
dswanepo@pgwc.gov.za	Transferred
Duduzile.Kunene@dmr.gov.za	Transferred
eia@g7energies.com	Transferred
elbe@mentalhealth.org.za	Transferred
elias@roggeveld.co.za	Transferred
elsabe.dtec@gmail.com	Transferred
energy@birdlife.org.za	Transferred
Eugene Marais	Transferred
fdconradie@roggeveld.co.za	Transferred
ferdie@salt.co.za	Transferred
franskaroo@gmail.com	Transferred
franss@netstar.altech.co.za	Transferred
fsmith@bgcma.co.za	Transferred
Gesie Theron	Transferred
gletimela@ncpg.gov.za	Transferred
gsprok@hantam.co.za	Transferred
gunsfontein@roggeveld.co.za	Transferred
HectorA@eskom.co.za	Transferred
Henning	Transferred
herman.coetzee2@transnet.net	Transferred
info@icasa.org.za	Transferred
info@nc-eda.co.za	Transferred
info@roggecloof.com	Transferred
isak@breedenet.co.za	Transferred
ithatelo@salga.org.za	Transferred
JacolineMa@daff.gov.za	Transferred
Jacqui.gooch@westerncape.gov.za	Transferred
jeremydavids11@gmail.com	Transferred
joh.henschel@saeon.ac.za	Transferred
johan@fleetcall.co.za	Transferred
John Geeringh	Transferred
Justine Wyngaardt	Transferred
karoadmin@telkomsa.net	Transferred
kate@iws-sa.co.za	Transferred

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kebasenos@yahoo.com	Transferred
Kgaphola Mashudu(UPN)	Transferred
KhanR@dws.gov.za	Transferred
koegelenbergJ@sentech.co.za	Transferred
laingsburg@xsinet.co.za	Transferred
laingsburglv@gmail.com	Transferred
Laurel.Robertson@westerncape.gov.za	Transferred
leonardS@openserve.co.za	Transferred
Lintnaar-StraussM@dws.gov.za	Transferred
Imanong@agri.ncape.gov.za	Transferred
lourensl@ewt.org.za	Transferred
loydejager@hotmail.com	Transferred
LSK@mweb.co.za	Transferred
lucky.legodi@drdlr.gov.za	Transferred
lynne.hannay@shell.com	Transferred
mabule@ghouse.org.za	Transferred
madaboutbats@gmail.com	Transferred
Magdalena Kataryna Michalowska	Transferred
Makhosi Mthimkhulu	Transferred
Malcolm.watters@westerncape.gov.za	Transferred
maryjeang@daff.gov.za	Transferred
mashuduma@daff.gov.za	Transferred
MazheteseC@caa.co.za	Transferred
mbarnes@biothermenergy.com	Transferred
mduplessis@wwf.org.za	Transferred
MeiM@dwa.gov.za	Transferred
mercia.grimbeek@mainstreamrp.com	Transferred
mmoni.suza@nersa.org.za	Transferred
MotlhakeS@sentech.co.za	Transferred
Mpho.mabaso@energy.gov.za	Transferred
msolomons@environment.gov.za	Transferred
Muhammad Essop	Transferred
mullerhandelaars@gmail.com	Transferred
muna@iafrica.com	Transferred
munman@karoohoogland.gov.za	Transferred
nico.fourie@vodacom.co.za	Transferred
Nicole Abrahams (WR)	Transferred
ntoerien1@gmail.com	Transferred
Ntoi Mosala(UPN)	Transferred
nvanolmen@ncpg.gov.za	Transferred

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odgcorrespondence@economic.gov.za	Transferred
office@sessa.org.za	Transferred
Ontvangs	Transferred
onyndzumo@gmail.com	Transferred
Owen Peters	Transferred
PaulH@elsenburg.com	Transferred
pawilliams@laingsburg.gov.za	Transferred
petrusvanh@gmail.com	Transferred
Phillip De Lange	Transferred
phyllisp@elsenburg.com	Transferred
pretoriusa@sentech.co.za	Transferred
radiotech@saps.org.za	Transferred
Rafeeqah Kamish	Transferred
Ramotholo Sefako	Transferred
Raudhiyah.Dien@westerncape.gov.za	Transferred
reddylu@eskom.co.za	Transferred
René de Kock (WR)	Transferred
renier.nel@mtn.co.za	Transferred
ria.laynes@hotmail.com	Transferred
roelofse.j@vodamail.co.za	Transferred
salt@salt.ac.za	Transferred
Schwartz Chantel (UPN)	Transferred
sharigobin@salga.org.za	Transferred
sharon@nocci.co.za	Transferred
simon.gear@birdlife.org.za	Transferred
smitjj1@telkom.co.za	Transferred
solly.fourie@westerncape.gov.za	Transferred
spothil@gmail.com	Transferred
Stanley Tshitwamulomoni	Transferred
stefanus@skdm.co.za	Transferred
stephnie.kot@aced.co.za	Transferred
ster@roggeveld.co.za	Transferred
strohl@caa.co.za	Transferred
swjohnston@mweb.co.za	Transferred
ThokoB@daff.gov.za	Transferred
Thurling@telkom.co.za	Transferred
thys.heyns@debeersgroup.com	Transferred
TMakaudi	Transferred
tommiep.potgieter@gmail.com	Transferred
Tshegofatso Monama	Transferred

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vanree_c@mtn.co.za	Transferred
vGenseAL@eskom.co.za	Transferred
VKiewitz@cellc.co.za	Transferred
warren.joubert@weathersa.co.za	Transferred
wep@ewt.org.za	Transferred
wessanc.conservation@yahoo.com	Transferred
wildlifeforall@hotmail.com	Transferred
Wilma Lutsch	Transferred
Zaahir.Toefy@westerncape.gov.za	Transferred
zukile.mali@yahoo.com	Transferred
Zwelibanzi.shiceka@westerncape.gov.za	Transferred

Attachments: User: 2, System: 2

Send Options:

file:///C:/Users/MLEVENDAL/AppData/Local/Temp/XPgrpwise/5D962D0CSTELLB... 14 Nov 2019

Proof of email notifications sent on 25 October 2019:

From: Minnelise Levendal
To: Minnelise Levendal
CC: "Minnelise Levendal"
BC Rohaida Abed; stephnie.kot@aced.co.za; aditeme@agri.ncape.gov.za; Imanong@agri.ncape.gov.za; Henning; Ontvangs; agrisa@agrisa.co.za; nic@agrisa.co.za; Phillip De Lange; carl@awk.co.za/info@awk.co.za; Andiswa Sam; fsmith@bgcma.co.za; Makhosi Mthimkhulu; mbarnes@biothermenergy.com; advocacy@birdlife.org.za; energy@birdlife.org.za; simon.gear@birdlife.org.za; edwin@bolandbolts.co.za; klipfontein@breedeco.co.za; coert@breedenet.co.za; isak@breedenet.co.za; Magdalena Kataryna Michalowska; s.harris@buildingenergy.it; BestbierG@caa.co.za; MazheteseC@caa.co.za; strohl@caa.co.za; Alana Duffell-Canham; cfordham@capenature.co.za; bjoubert@cellc.co.za; VKiewitz@cellc.co.za; CPO@daff.gov.za; JacolineMa@daff.gov.za; maryjeang@daff.gov.za; mashuduma@daff.gov.za; ThokoB@daff.gov.za; thys.heyms@debeersgroup.com; Duduzile.Kunene@dmr.gov.za; DikgangJ@dot.gov.za; lucky.legodi@drdlr.gov.za; MeiM@dwa.gov.za; Kgaphola Mashudu(UPN); KhanR@dws.gov.za; Lintnaar-StraussM@dws.gov.za; Ntoi Mosala(UPN); Schwartz Chantel (UPN); odgcorrespondence@economic.gov.za; corvdw@elsenburg.com; PaulH@elsenburg.com; phyllisp@elsenburg.com; Mpho.mabaso@energy.gov.za; Muhammad Essop; msolomons@environment.gov.za; Stanley Tshitwamulomoni; Wilma Lutsch; andre.crous@eskom.co.za; BerghS@eskom.co.za; elroy.saan@eskom.co.za; John Geeringh; HectorA@eskom.co.za; Owen Peters; reddy@eskom.co.za; vGenseAL@eskom.co.za; Justine Wyngaardt; bonnies@ewt.org.za; christyb@ewt.org.za; constanth@ewt.org.za; lourensl@ewt.org.za; wep@ewt.org.za; aflynn@falconoilandgas.com; johan@fleetcall.co.za; eia@g7energies.com; mabule@ghouse.org.za; Andre Knoop; bft148@gmail.com; bulwater67@gmail.com; elsabe.dtec@gmail.com; franskaroo@gmail.com; jeremydavids11@gmail.com; laingsburglv@gmail.com; madaboutbats@gmail.com; mullerhandelaars@gmail.com; ntoerien1@gmail.com; onyndzumo@gmail.com; petrusvanh@gmail.com; spothil@gmail.com; tommiep.potgieter@gmail.com; twessels@grand.ncape.gov.za(...)
Date: 25 Oct 2019 16:10
Subject: Reminder Re: JOINT NOTICE OF RELEASE OF DRAFT AMENDMENT REPORTS FOR COMMENTS FOR THE RIETRUG, SUTHERLAND AND SUTHERLAND 2 WIND ENERGY FACILITIES NEAR SUTHERLAND
Attachments: CSIR Letter_Mainstream_General Letter Amendments_V1.pdf; Comment and Response Form_Mainstream_EGI_011019.pdf

Dear Stakeholders and Interested and Affected Parties

This email serves as a reminder to submit any comments you may have on the above-mentioned Draft Amendment Reports to me by **4 November 2019** as per the email below.

Best wishes, Minnelise

>>> Minnelise Levendal 03 Oct 2019 17:17 >>>

Dear Stakeholders and Interested and Affected Parties

joint Notice of THE Release of draft amendment reports for COMMENT:

Rietrug, Sutherland and Sutherland 2 wind energy facilities (WEFS)

(DEA Reference Numbers: 12/12/20/1782/1/AM3; 12/12/20/1782/2/AM3; and 12/12/20/1782/3/AM3 RESPECTIVELY).

Competent Authority: National Department of Environment, Forestry and Fisheries (DEFF)

This e-mail correspondence serves to inform you of the release of the Draft Amendment Reports for comment to amend the Environmental Authorisations issued for the above-mentioned projects.

On 25 August 2017, the National Department of Environmental Affairs (DEA) (now operating as the Department of Environment, Forestry and Fisheries (DEFF)) accordingly granted separate and amended Environmental Authorisations (EAs) for the Rietrug, Sutherland and Sutherland 2 WEFs (DEA Reference Numbers: 12/12/20/1782/1/AM2; 12/12/20/1782/2/AM2; and 12/12/20/1782/3/AM2).

The Project Applicant is South Africa Mainstream Renewable Power Developments (PTY) Ltd (hereinafter referred to as Mainstream). As part of this Amendment Application, Mainstream wishes to apply for the following amendments:

1. The amendment to the EA is to change the contact person and contact details of the holder of the Environmental Authorisation for Mainstream.
2. Mainstream is proposing a change in turbine height and rotor diameter from 150 m turbine height and rotor diameter to 200 m turbine height and rotor diameter.

The proposed projects occur within the gazetted Renewable Energy Development Zone (REDZ) 2: Komsberg. Please note that although a joint notice is hereby released, separate applications and separate Draft Amendment Reports for each project have been submitted to DEFF for comment.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the Draft Amendment Reports for the proposed projects for a 30-day review period, which will extend from 4 October 2019 to 4 November 2019.

Please find attached the following:
Letter to I&APs; and
Comment and Registration Form.

Hard copies of the Draft Amendment Reports are available for public viewing at the Sutherland Library, Merweville Library and the Laingsburg Library. The Draft Amendment Reports can also be downloaded from the following website: <https://www.csir.co.za/environmental-impact-assessment>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 4 November 2019.

Thank you and kind regards,

Minnelise Levendal Pr. Sci. Nat.

CSIR - Smart Places - Environmental Management Services
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Recipients: 186 Acknowledged: 2, Response Pending: 162, Undelivered: 22	
Undelivered: 22	
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Rohaida Abed	Read
Response Pending: 162	
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corvdw@elsenburg.com	Transferred
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Zwelibanzi.shiceka@westerncape.gov...	Transferred

Attachments: User: 2, System: 2

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Proof of email notifications sent on 1 November 2019:

From: Minnelise Levendal
To: Minnelise Levendal
CC: "Minnelise Levendal"
BC Rohaida Abed; stephnie.kot@aced.co.za; aditeme@agri.ncape.gov.za; Imanong@agri.ncape.gov.za; Henning; Ontvangs; agrisa@agrisa.co.za; nic@agrisa.co.za; Phillip De Lange; carl@awk.co.za/info@awk.co.za; Andiswa Sam; fsmith@bgcma.co.za; Makhosi Mthimkhulu; mbarnes@biothermenergy.com; advocacy@birdlife.org.za; energy@birdlife.org.za; simon.gear@birdlife.org.za; edwin@bolandbolts.co.za; klipfontein@breedeco.co.za; coert@breedenet.co.za; isak@breedenet.co.za; Magdalena Kataryna Michalowska; s.harris@buildingnergy.it; BestbierG@caa.co.za; MazheteseC@caa.co.za; strohl@caa.co.za; Alana Duffell-Canham; cfordham@capenature.co.za; bjoubert@cellc.co.za; VKiewitz@cellc.co.za; CPO@daff.gov.za; JacolineMa@daff.gov.za; maryjeang@daff.gov.za; mashuduma@daff.gov.za; ThokoB@daff.gov.za; thys.heyms@debeersgroup.com; Duduzile.Kunene@dmr.gov.za; DikgangJ@dot.gov.za; lucky.legodi@drdlr.gov.za; MeiM@dwa.gov.za; Kgaphola Mashudu(UPN); KhanR@dws.gov.za; Lintnaar-StraussM@dws.gov.za; Ntoi Mosala(UPN); Schwartz Chantel (UPN); odgcorrespondence@economic.gov.za; corvdw@elsenburg.com; PaulH@elsenburg.com; phyllisp@elsenburg.com; Mpho.mabaso@energy.gov.za; Muhammad Essop; msolomons@environment.gov.za; Stanley Tshitwamulomoni; Wilma Lutsch; andre.crous@eskom.co.za; BerghS@eskom.co.za; elroy.saaaynan@eskom.co.za; John Geeringh; HectorA@eskom.co.za; Owen Peters; reddylyu@eskom.co.za; vGenseAL@eskom.co.za; Justine Wyngaardt; bonnies@ewt.org.za; christyb@ewt.org.za; constanth@ewt.org.za; lourensl@ewt.org.za; wep@ewt.org.za; aflynn@falconoilandgas.com; johan@fleetcall.co.za; eia@g7energies.com; mabule@ghouse.org.za; Andre Knoop; bft148@gmail.com; bulwater67@gmail.com; elsabe.dtec@gmail.com; franskaroo@gmail.com; jeremydavids11@gmail.com; laingsburglv@gmail.com; madaboutbats@gmail.com; mullerhandelaars@gmail.com; ntoerien1@gmail.com; onyndzumo@gmail.com; petrusvanh@gmail.com; spothil@gmail.com; tommiep.potgieter@gmail.com; twessels@grand.ncape.gov.za(...)
Date: 01 Nov 2019 15:28
Subject: Reminder Re: JOINT NOTICE OF RELEASE OF DRAFT AMENDMENT REPORTS FOR COMMENTS FOR THE RIETRUG, SUTHERLAND AND SUTHERLAND 2 WIND ENERGY FACILITIES NEAR SUTHERLAND
Attachments: CSIR Letter_Mainstream _General Letter Amendments_V1.pdf; Comment and Response Form_Mainstream_EGI_011019.pdf

Dear Stakeholders and Interested and Affected Parties

This email serves as a reminder to submit any comments you may have on the above-mentioned Draft Amendment Reports to me by **Monday, 4 November 2019** as per the emails below.

Best wishes, Minnelise

>>> Minnelise Levendal 25 Oct 2019 16:10 >>>

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Best wishes, Minnelise

>>> Minnelise Levendal 03 Oct 2019 17:17 >>>

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Rietrug, Sutherland and Sutherland 2 wind energy facilities (WEFS)

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Competent Authority: National Department of Environment, Forestry and Fisheries (DEFF)

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referred to as Mainstream). As part of this Amendment Application, Mainstream wishes to apply for the following amendments:

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Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 4 November 2019.

Thank you and kind regards,

Minnelise Levendal Pr. Sci. Nat.

CSIR - Smart Places - Environmental Management Services
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Response Pending: 161

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Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province

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Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province

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Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province

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**Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued
for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province**

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Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province

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Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province

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Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province

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Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province

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Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province

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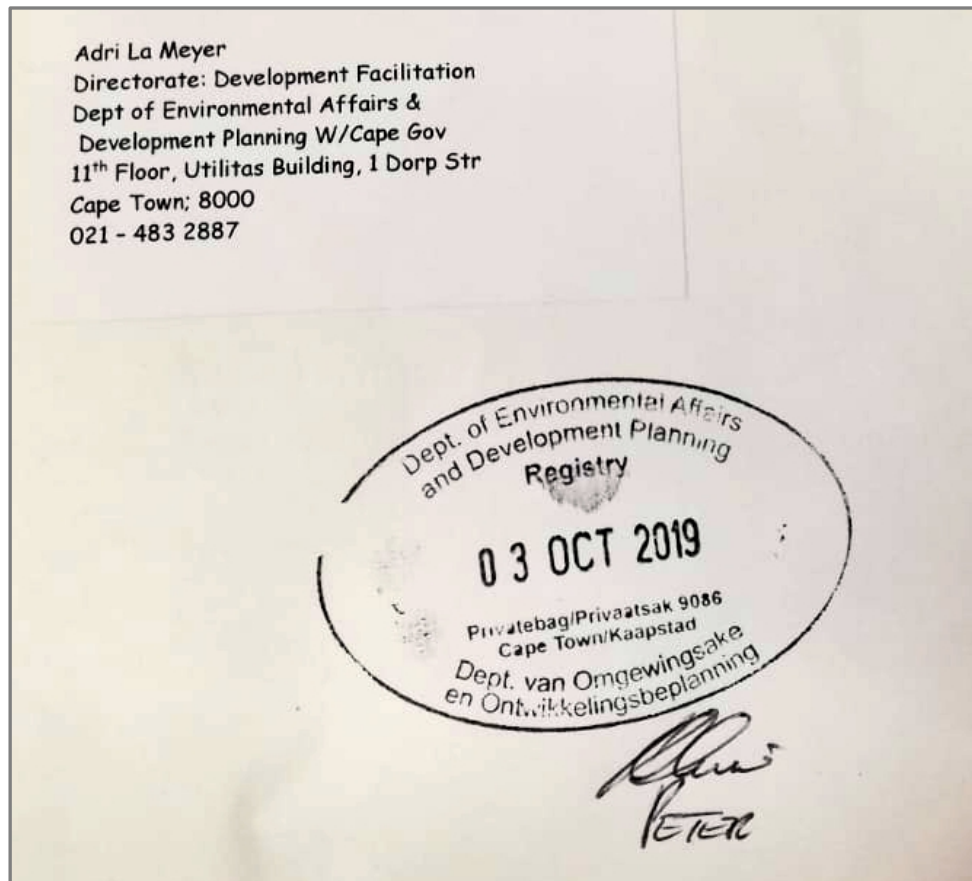
Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province

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**Amendment Report for the Application of a Substantive Amendment to the Environmental Authorisation issued
for the development of the 140 MW Rietrug Wind Energy Facility, Sutherland, Northern Cape Province**

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Zwelibanzi.shiceka@westerncape.gov.za		Transferred

*Proof of hand delivery to Western Cape Department of
Environmental Affairs and Development Planning*



Letter of notification



CSIR Environmental Management Services

PO Box 320, Stellenbosch, 7599
Tel: 021 888 2495
Fax: 021 888 2693
Email: MLevendal@csir.co.za

04 October 2019

Dear Stakeholder

RE: RELEASE OF DRAFT AMENDMENT REPORTS FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATIONS ISSUED FOR THE RIETRUG, SUTHERLAND AND SUTHERLAND 2 WIND ENERGY FACILITIES (WEFS) IN THE NORTHERN AND WESTERN CAPE PROVINCES

DEA REFERENCE NUMBERS: Rietrug, Sutherland and Sutherland 2 WEFs (DEA Reference Numbers: 12/12/20/1782/1/AM3; 12/12/20/1782/2/AM3; and 12/12/20/1782/3/AM3).

South Africa Mainstream Renewable Power Developments (Pty) Ltd (hereinafter referred to as Mainstream) appointed the Council for Scientific and Industrial Research (CSIR) to undertake three separate Amendment Processes in terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations promulgated on 8 December 2014 and as amended on 7 April 2017 in Government Notice (GN) R326, R327, R325 and R324, to amend the Environmental Authorisations for the above-mentioned WEFs.

On 25 August 2017, the National Department of Environmental Affairs (DEA) (now operating as the Department of Environment, Forestry and Fisheries (DEFF)) accordingly granted separate and amended Environmental Authorisations (EAs) for the Rietrug, Sutherland and Sutherland 2 WEFs (DEA Reference Numbers: 12/12/20/1782/2/AM2; 12/12/20/1782/3/AM2; and 12/12/20/1782/1/AM2).

In terms of Regulation 31 and 32 of the 2014 National Environmental Management Act (NEMA) Environmental Impact Assessment (EIA) Regulations, as amended by 2018, Mainstream wishes to apply for a substantive amendment to the Environmental Authorisations issued for the above-mentioned projects. Separate applications and separate Draft Amendment Reports have been submitted to DEFF for the projects listed above.

The amendments currently being applied for are listed below:

AMENDMENT 1:

The amendment to the EA is to change the contact person of the holder of the Environmental Authorisation for Mainstream from Mike Mangnall to **Eugene Marais** and to change the relevant contact details as indicated in the attached Amendment Application Form.

AMENDMENT 2:

Mainstream is proposing a change in turbine height and rotor diameter from 150 m turbine height and rotor diameter to **200 m** turbine height and rotor diameter. Due to the separation distances required between these turbines (if authorised), a change in layout will also be required to ensure that these distances are adhered to.

The proposed Rietrug and Sutherland 2 WEFs occur in the Northern Cape Province, approximately 23 km south of Sutherland and 50 km north of Laingsburg, under the jurisdiction of the Karoo Hoogland Local Municipality (forming part of the Namakwa District Municipality). The proposed Sutherland WEF extends into the Western Cape which falls under the jurisdiction of the Laingsburg Local Municipality (forming part of the Central Karoo District Municipality). The proposed projects also occur within the gazetted Renewable Energy Development Zone (REDZ) 2: Komsberg.

Board members: Prof. T. Majozi (Chairperson), Ms P. Baleni, Dr A. Childs, Dr R. Masango, Mr S. Massie, Ms T. Mokhabuki, Dr V. Mthethwa, Mr J. Netshitenzhe, Dr C. Render, Mr C. Shariff, Dr T. Dlamini (CEO)

www.csir.co.za

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the Draft Amendment Reports for the proposed projects for a 30-day review period, which will extend from **4 October 2019 to 4 November 2019**.

Please find attached the following:

- Letter to I&APs; and
- Comment and Registration Form.

Please submit any comments or concerns you may have to the CSIR Project Manager at the contact details provided below by **4 November 2019**.

- Attention: Minnelise Levendal
- PO Box 320, Stellenbosch, 7599
- Tel: 021 888 2495
- Fax: 021 888 2693
- Email: MLevendal@csir.co.za

Hard copies of the Draft Amendment Reports are available for public viewing at the Sutherland Library, Merweville Library and the Laingsburg Library. The Draft Amendment Reports can also be downloaded from the following website: <https://www.csir.co.za/environmental-impact-assessment>

In terms of the way forward, the Draft Amendment Reports will be finalised subsequent to the 30-day comment period, and submitted to the National DEFF for decision-making. All comments raised through the review of the Draft Amendment Reports will be captured in an Issues and Responses Trail. As a key stakeholder on the project database, you will be notified of the submission of the Final Amendment Reports to the National DEFF for decision-making.

Please do not hesitate to contact me should you have any queries relating to the above.

Sincerely,



Minnelise Levendal
Project Leader and EAP
CSIR Environmental Management Services

APPENDIX B.6: COMMENTS RECEIVED FOLLOWING THE RELEASE OF THE DRAFT AMENDMENT REPORT FOR COMMENT



environmental affairs

Department
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

DEA Reference: 12/12/20/1782/1/AM3

Enquiries: Makhosazane Yeni

Telephone: (012) 399 9400 E-mail: MYeni@environment.gov.za

Ms Minnelise Levendal
CSIR
PO Box 320
STELLENBOSCH
7599

Telephone Number: (021) 888 2495
Email Address: mlevendal@csir.co.za

PER EMAIL / MAIL

Dear Ms Levendal

COMMENTS ON THE APPLICATION FOR AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 10 NOVEMBER 2016 FOR THE DEVELOPMENT OF THE RIETRUG WIND ENERGY FACILITY FOR SOUTH AFRICA MAINSTREAM RENEWABLE POWER DEVELOPMENTS (PTY) LTD NEAR SUTHERLAND WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY IN NORTHERN CAPE PROVINCE

The application for amendment to the Environmental Authorisation (EA) received by this Department on 19 August 2019, the acknowledgement letter dated 29 August 2019 and the draft Amendment to the Environmental Authorisation (EA) received by this Department on 04 October 2019 refer.

Following the review of your draft motivation report for amendment of the EA, this Department has the following comments:

Land owner's consent

- The Department has noted that the land owner's consent is not attached in the draft report, therefore; it is requested that you include it in the final amendment report as per requirements of Regulation 39 (1) of EIA Regulations 2014, as amended.

Layout plans

- The approved site layout plan showing the location of the turbines and other associated infrastructure must be overlaid to the proposed amendment and must also show all the sensitive features as well as associated buffers. The amended layout plan must be submitted with the final amendment report.
- All preferred turbine positions must be clearly numbered. The turbine position numbers must be consistently used in all maps to be included in the final report.

Environmental Authorisation and any EA conditions that need to be addressed

- Certified copies of the EA as well as the first amendment to the EA must be submitted with the final amendment report.

Chief Directorate: Integrated Environmental Authorisations

- The Department advice that prior submission of the final amendment report, you go through the EA conditions and verify if there is no conditions that needs to be responded to which can be incorporated in this amendment process.
- The report must clearly indicate the conditions/part of the EA that needs to be amended, should there be any; the motivation and reasons for such amendments must be detailed in the final report.

Public participation Process (PPP)

- Please ensure that comments from all relevant stakeholders are submitted to the Department with the final report. This includes but is not limited to the Northern Cape Department of Environment and Nature Conservation, The Western Cape Department of Environmental Affairs and Development Planning; the provincial Department of Agriculture, the South African Civil Aviation Authority (SACAA), the Department of Transport, the Karoo Hoogland Local Municipality, the Laingsburg Local Municipality, the Department of Water and Sanitation (DWS), the South African National Roads Agency Limited (SANRAL), the South African Heritage Resources Agency (SAHRA), the Endangered Wildlife Trust (EWT), BirdLife SA, the South African Bat Assessment Association, the Department of Mineral Resources, the Department of Rural Development and Land Reform, and the Department of Environmental Affairs: Directorate Biodiversity and Conservation.
- A Comments and Response Report (C&R) must be submitted with the final report. The C&R report must be a separate document from the main report.
- Further, ensure that you refrain from summarizing comments made by I&APs and ensure you include original copy of comments into the final report. All comments from I&APs must be copied verbatim and responded to clearly.
- Furthermore, note that a response such as "noted" is not regarded as an adequate response to I&AP's comments.
- Ensure that all issues raised and comments received during the circulation of the application for amendment from registered I&APs and organs of state which have jurisdiction (including this Department's Biodiversity Section) in respect of the proposed activity are adequately addressed in the application for amendment.
- Proof of correspondence with the various stakeholders must be included in the application for amendment. Should you be unable to obtain comments, ensure that proof of the attempts that were made to obtain comments is submitted to the Department.
- The Public Participation Process must be conducted in terms of Regulations 39, 40 41, 42, 43 & 44 of the EIA Regulations 2014, as amended.

EMPr

- The draft EMPr to be submitted with the final amendment report must be updated to include the revised layout and incorporate all mitigation measures recommended by the specialists as per the content of this comments letter.

General

Further note that in terms of Regulation 45 of the EIA Regulations 2014,as amended this application will lapse if the applicant fails to meet any of the timeframes prescribed in terms of the these Regulations, unless an extension has been granted in terms of Regulation 3(7).

Please note that in terms of Regulation 32 of EIA regulation 2014 as amended, the applicant is required within a specified timeframe to submit a report to this Department in light of the proposed amendments.

Yours Faithfully



Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Signed by: Ms. Letlalo Olivia

Designation: Control Environmental Officer: Prioritised Infrastructure Projects

Date: 24/10/2019

Eugene Marais	South Africa Mainstream Renewable Power Developments (Pty) Ltd	Tel: 021 657 4073	Email: Eugene.marais@mainstreamrp.com
Onwabile Ndzumo	Northern Cape Department of Environment and Nature Conservation	Tel: 027 7188800	Email: onyndzumo@gmail.com
Gustav Von Mollendorf	Karoo Hoogland Local Municipality	Tel: 053 3913003	Email: munman@karoohoogland.gov.za



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447· PRETORIA · 0001· Environment House · 473 Steve Biko Road, Arcadia, PRETORIA
Tel (+ 27 12) 399 9372

Reference: 12/12/20/1782/1/AM3

Enquiries: Ms Portia Makitla/ Thobekile Zungu

Telephone: 012 399 9411 E-mail: pmakitla@environment.gov.za

Ms Minnelise Levendal
CSIR
P O Box 320
STELLENBOSCH
7599

Telephone Number: +27 (21) 888 2495
Email Address: mlevendal@csir.co.za

PER E-MAIL

Dear Ms Levendal

COMMENTS ON THE DRAFT AMENDMENT REPORT FOR THE DEVELOPMENT OF THE 140 MW RIETRUG WIND ENERGY FACILITY, SUTHERLAND, NORTHERN CAPE PROVINCE

The Directorate: Biodiversity Conservation confirms having received the aforementioned draft Environmental Authorisation (EA) amendment Report for comments and does not have any objections to the proposed amendment.

The final report must comply with all the requirements as outlined in the EIA guideline for renewable energy projects and the Revised Best Practice Guideline for Birds & Wind Energy for assessing and monitoring the impact of wind energy facilities on birds in Southern Africa.

Yours faithfully

Mr Seoka Lekota

Control Biodiversity Officer Gr B: Biodiversity Conservation

Department of Environmental Affairs

Date: 28/10/2019

>>> John Geeringh <GeerinJH@eskom.co.za> 08 Oct 2019 12:01 >>>

Please find attached Eskom requirements for infrastructure development near Eskom servitudes and infrastructure. Find also attached an updated setbacks document that the applicant must take into consideration due to the changes in turbine heights and size.

Kind regards

John Geeringh (Pr Sci Nat)

Senior Consultant Environmental Management

Eskom Transmission Division: Land & Rights

Megawatt Park, D1Y42, Maxwell Drive, Sunninghill, Sandton.

P O Box 1091, Johannesburg, 2000.


Tel: 011 516 7233

Cell: 083 632 7663

Fax: 086 661 4064

E-mail: john.geeringh@eskom.co.za



 Eskom	SCOT	Technology
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Title: **Renewable Energy Generation Plant Setbacks to Eskom Infrastructure** Unique Identifier: **240-65559775**

Alternative Reference Number: **N/A**

Area of Applicability: **Power Line Engineering**



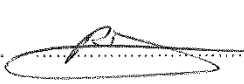
Documentation Type: **Guideline**

Revision: **1**

Total Pages: **9**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED DISCLOSURE**

Compiled by	Approved by	Authorised by
		
J W Chetty Mechanical Engineer	B Ntshuntsha Chief Engineer (Lines)	R A Vajeth Snr Manager (Lines) and SCOT/SC/ Chairperson
Date: <u>23/11/2018</u>	Date: <u>24/11/2018</u>	Date: <u>16/11/2018</u>

PCM Reference: 240-65132732 **LINE ENGINEERING SERVICES**
SCOT Study Committee Number/Name : **OVERHEAD LINES**

Wind Turbine Eskom Setbacks

Unique Identifier: 240-65559775

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Wind Turbine Eskom Setbacks

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EXECUTIVE SUMMARY

In recent decades, the use of wind turbines, concentrated solar plants and photovoltaic plants have been on the increase as it serves as an abundant source of energy. This document specifies setbacks for wind turbines and the reasons for these setbacks from infrastructure as well as setbacks for concentrated solar plants and photovoltaic plants. Setbacks for wind turbines employed in other countries were compared and a general setback to be used by Eskom was suggested for use with wind turbines and other renewable energy generation plants.

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1. INTRODUCTION

During the last few decades, a large amount of wind turbines have been installed in wind farms to accommodate for the large demand of energy and depleting fossil fuels. Wind is one of the most abundant sources of renewable energy. Wind turbines harness the energy of this renewable resource for integration in electricity networks. The extraction of wind energy is its primary function and thus the aerodynamics of the wind turbine is important. There are many different types of wind turbines which will all exhibit different wind flow characteristics. The most common wind turbine used commercially is the Horizontal Axis Wind Turbine. Wind flow characteristics of this turbine are important to analyse as it may have an effect on surrounding infrastructure.

Wind turbines also cause large turbulence downwind that may affect existing infrastructure. Debris or parts of the turbine blade, in the case of a failure, may be tossed behind the turbine and may lead to damage of infrastructure in the wake path.

This document outlines the minimum distances that need to be introduced between a wind turbine and Eskom infrastructure to ensure that debris and / or turbulence would not negatively impact on the infrastructure.

Safety distances of wind turbines from other structures as implemented by other countries were also considered and the reasons for their selection were noted.

Concentrated solar plants and photovoltaic plants setbacks away from substations were also to be considered to prevent restricting possible power line access routes to the substation.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document provides guidance on the safe distance that a wind turbine should be located from any Eskom power line or substation. The document specifies setback distances for transmission lines (220 kV to 765 kV), distribution lines (6.6 kV to 132 kV) and all Eskom substations. Setbacks for concentrated solar plants and photovoltaic plants are also specified away from substations.

2.1.1 Purpose

Setbacks for wind turbines and power lines / substations are required for various reasons. These include possible catastrophic failure of the turbine blade that may release fragments and which may be thrown onto nearby power lines that may result in damage with associated unplanned outages. Turbulence behind the turbine may affect helicopter flight during routine Eskom live line maintenance and

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inspections that may lead to safety risk of the aircraft / personnel. Concentrated solar plants and photovoltaic plants setback away from substations were required to prevent substations from being boxed in by these renewable generation plants limiting line route access to the substations.

2.1.2 Applicability

This document is applicable to the siting of all new and existing wind turbines, concentrated solar plants and photovoltaic plants near power lines and substations.

2.2 NORMATIVE/INFORMATIVE REFERENCES

2.2.1 Normative

1. <http://www.envir.ee/orb.aw/class=file/action=preview/id=1170403/Hiiumaa+turbulence+impact+EMD.pdf>.
2. <http://www.energy.ca.gov/2005publications/CEC-500-2005-184/CEC-500-2005-184.PDF>
3. <http://www.adamscountywind.com/Revised%20Site/Windmills/Adams%20County%20Ordinance/Adams%20County%20Wind%20Ord.htm>
4. http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=PA11R&RE=1&EE=1
5. <http://www.wind-watch.org/documents/european-setbacks-minimum-distance-between-wind-turbines-and-habitations/>
6. <http://www.publications.parliament.uk/pa/ld201011/ldbills/017/11017.1-i.html>
7. http://www.caw.ca/assets/pdf/Turbine_Safety_Report.pdf
8. Rogers J, Slegers N, Costello M. (2011) A method for defining wind turbine setback standards. Wind energy 10.1002/we.468

2.2.2 Informative

None

2.3 DEFINITIONS

Definition	Description
Setback	The minimum distance between a wind turbine and boundary line/dwelling/road/infrastructure/servitude etc.
Flicker	Effect caused when rotating wind turbine blades periodically cast shadows
Tip Height	The total height of the wind turbine ie. Hub height plus half rotor diameter (see Figure1)

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2.3.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
None	

2.5 ROLES AND RESPONSIBILITIES

All personnel involved in the positioning wind turbines, concentrated solar plants and photovoltaic plants near power lines/substations must follow the setbacks outlined in this guideline.

2.6 PROCESS FOR MONITORING

Approval by Eskom in writing.

2.7 RELATED/SUPPORTING DOCUMENTS

None

3. DOCUMENT CONTENT

3.1 INTERNATIONAL SETBACK COMPARISON

Wind Turbine setbacks employed by various countries were considered. It was found that setbacks were determined for various reasons that include noise, flicker, turbine blade failure and wind effects. The distances (setbacks) varied based on these factors and were influenced by the type of infrastructure

Wind turbine setbacks varied for roads, power lines, dwellings, buildings and property and it was noted that the largest setbacks were employed for reasons of noise and flicker related issues [1-7]. Very few countries specified setbacks for power lines.

The literature survey [1-7], yielded information about studies and experiments were conducted to determine the distance that a broken fragment from a wind turbine might be thrown. Even though of low probability of hitting a power line [5.0×10^{-5}]^[8], the distances recorded were significant [750m]^[8]

Setbacks were thus introduced to prevent any damage to Eskom infrastructure.

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Wind Turbine Eskom Setbacks

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Wind turbines may also cause changes in wind patterns with turbulent effects behind the hub. These factors dictate the wind turbine setbacks specified in this document.

Concentrated solar plants and photovoltaic plants also can limit access into the substation for power lines of all voltages. A setback distance must therefore be employed to prevent the substation from being boxed in by these generation plants. These setback distances are specified in this document.

3.2 ESKOM REQUIRED SETBACKS

A formal application must be sent to and accepted by Eskom if any of the below mentioned setback distances are infringed upon:

- Eskom requires a setback distance of 3 times the tip height of the wind turbine from the edge of the closest Eskom servitude (including vacant servitudes) for transmission lines (220kV to 765kV) and Substations.
- Eskom requires a setback distance of 1 times the tip height of the wind turbine from the edge of the closest Eskom servitude (including vacant servitudes) for distribution lines (66 kV to 132 kV) and Substations.
- An application must be sent to Eskom regarding any proposed wind turbine, concentrated solar plants and photovoltaic activity within a 5 km radius of a substation for Eskom to comment on the application.
- Where concentrated solar plants and photovoltaic structures fall within a 2 km radius of the closest point of a transmission or distribution substation (66kV to 765kV), Eskom should be applied to for approval in writing during the planning phase of such plant or structures.
- Applicants must not position any wind turbine in the line of site between and two Eskom Radio Telecommunication masts. It must be proven that Eskom radio telecommunication systems (mainly microwave systems) will not be affected in any way by wind turbines.
- If the position or size of any turbine changes and subsequently infringes on any of the above stated setbacks, an application must be sent through to Eskom as per the point mentioned above.

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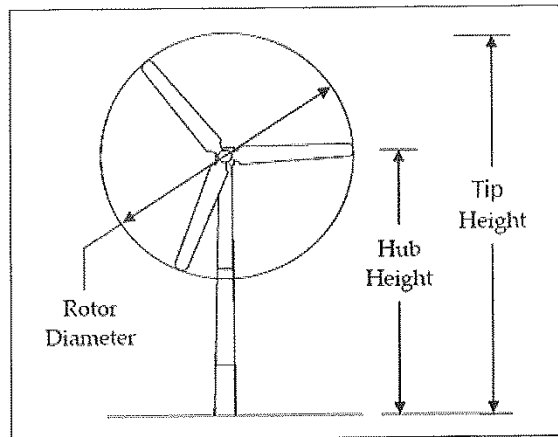


Figure 1: Horizontal Axis Wind Turbine ^[2]

4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
V Naidoo	Chief Engineer
Dr P H Pretorius	Electrical Specialist
J Geeringh	Snr Consultant Environ Mngt
B Haridass	Snr Consultant Engineer
R A Vajeth	Acting Snr Manager (Lines)

5. REVISIONS

Date	Rev.	Compiler	Remarks
November 2013	0	J W Chetty	First Publication - No renewable energy generation plant setback specification in existence
October 2018	1	JW Chetty	Modification to sub-section 3.2 to provide more clarity for application procedure

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6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

Jonathan W Chetty (Mechanical Engineer)

Vivendhra Naidoo (Chief Engineer)

Dr Pieter H Pretorius (Electrical Specialist)

John Geeringh (Snr Consultant Environ Mngt)

Bharat Haridass (Snr Consultant Engineer)

Riaz A Vajeth (Acting Snr Manager (Lines))

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Eskom requirements for work at or near Eskom infrastructure.

1. Eskom's rights and services must be acknowledged and respected at all times.
2. Eskom shall at all times retain unobstructed access to and egress from its servitudes.
3. Eskom's consent does not relieve the developer from obtaining the necessary statutory, land owner or municipal approvals.
4. Any cost incurred by Eskom as a result of non-compliance to any relevant environmental legislation will be charged to the developer.
5. If Eskom has to incur any expenditure in order to comply with statutory clearances or other regulations as a result of the developer's activities or because of the presence of his equipment or installation within the servitude restriction area, the developer shall pay such costs to Eskom on demand.
6. The use of explosives of any type within 500 metres of Eskom's services shall only occur with Eskom's previous written permission. If such permission is granted the developer must give at least fourteen working days prior notice of the commencement of blasting. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued in terms of the blasting process. It is advisable to make application separately in this regard.
7. Changes in ground level may not infringe statutory ground to conductor clearances or statutory visibility clearances. After any changes in ground level, the surface shall be rehabilitated and stabilised so as to prevent erosion. The measures taken shall be to Eskom's satisfaction.
8. Eskom shall not be liable for the death of or injury to any person or for the loss of or damage to any property whether as a result of the encroachment or of the use of the servitude area by the developer, his/her agent, contractors, employees, successors in title, and assignees. The developer indemnifies Eskom against loss, claims or damages including claims pertaining to consequential damages by third parties and whether as a result of damage to or interruption of or interference with Eskom's services or apparatus or otherwise. Eskom will not be held responsible for damage to the developer's equipment.
9. No mechanical equipment, including mechanical excavators or high lifting machinery, shall be used in the vicinity of Eskom's apparatus and/or services, without prior written permission having been granted by Eskom. If such permission is granted the developer must give at least seven working days' notice prior to the commencement of work. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued by the relevant Eskom Manager

Note: Where and electrical outage is required, at least fourteen work days are required to arrange it.

10. Eskom's rights and duties in the servitude shall be accepted as having prior right at all times and shall not be obstructed or interfered with.
11. Under no circumstances shall rubble, earth or other material be dumped within the servitude restriction area. The developer shall maintain the area concerned to Eskom's satisfaction. The developer shall be liable to Eskom for the cost of any remedial action which has to be carried out by Eskom.
12. The clearances between Eskom's live electrical equipment and the proposed construction work shall be observed as stipulated by *Regulation 15* of the *Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993)*.
13. Equipment shall be regarded electrically live and therefore dangerous at all times.
14. In spite of the restrictions stipulated by Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), as an additional safety precaution, Eskom will not approve the erection of houses, or structures occupied or frequented by human beings, under the power lines or within the servitude restriction area.
15. Eskom may stipulate any additional requirements to highlight any possible exposure to Customers or Public to coming into contact or be exposed to any dangers of Eskom plant.
16. It is required of the developer to familiarise himself with all safety hazards related to Electrical plant.
17. Any third party servitudes encroaching on Eskom servitudes shall be registered against Eskom's title deed at the developer's own cost. If such a servitude is brought into being, its existence should be endorsed on the Eskom servitude deed concerned, while the third party's servitude deed must also include the rights of the affected Eskom servitude.

John Geeringh (Pr Sci Nat)

Senior Consultant Environmental Management
Eskom GC: Land Development

>>> Lizell Stroh <Strohl@caa.co.za> 07 Oct 2019 09:11 >>>

Good day Minnelise, this office would require Mainstream to make a payment to the outstanding assessment fees to the Rietrug Windfarm, prior release of approval to the proposed site.

Please find information on the Procedure and assessment done by this Authority to Wind Farm Development for your information.

Kind regards



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

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**CIVIL AVIATION
AUTHORITY**

Information Document

Wind Farms and Obstacle Assessments

1. Introduction

- 1.1 The effective use of an aerodrome may be considerably affected by natural features and by manmade constructions both inside and outside the boundaries of the aerodrome.
- 1.2 This may result in restrictions to the optimal use of the aerodrome
- 1.3 It is therefore necessary to consider the local airspace as an integral part of the aerodrome environment
- 1.4 The control of obstacles, and here I include the prevention or removal of obstacles, is clearly related to the safe and efficient use of the aerodrome.
- 1.5 What is an Obstacle?

International Civil Aviation Organization (ICAO) Annex 14 definition:-

All fixed or mobile objects or parts thereof, whether temporary or permanent, that:

- a) are located on an area intended for the surface movement of aircraft; or
 - b) Extend above a defined surface intended to protect aircraft in flight; or
 - c) Stand outside those defined surfaces and that have been assessed as being a hazard to air navigation.
- 1.6 It is a legal requirement to obtain prior approval for an obstacle in terms of the Aviation Act with parts 139.01.30, the dominant regulation. The standards for Markings of obstacles can be found in the technical standards to this regulation and is essentially that of annex 14 and some differences in character exist to accommodate local practices and conditions.
 - 1.7 Part 171 and its associated CATS-ESO technical standards are also applicable in as far the protection of Communication; Navigation and Surveillance systems are concerned.
 - 1.8 Part 91.01.10 also has reference.

Note:- The above reference refers to the regulations the new Civil Aviation Act (Act 13 of 2009) as promulgated

2. Discussion

- 2.1 The significance of any proposed or existing obstacle on or in the vicinity of an aerodrome is assessed by two separate sets of criteria defining airspace.

- 2.2 The first and the one that will be concentrated on, is the obstacle limitation surfaces as defined in Annex 14 chapter 4, the second being the PANS-OPS surfaces defined in Doc8168 Vol II (Construction of Visual and Instrument Flight Procedures)
- 2.3 Annex 14 define surfaces such as the strip width of the runway, approach and departure surfaces, transition surfaces, the inner horizontal, the conical and the outer horizontal surfaces. The dimensions of these surfaces vary with runway classification and the dimensions of the runway. Runway classification ranges from code 1 to code 4 and a numerical sub classification (A to G) and the runways could be non instrument, instrument non-precision and precision.
- 2.4 Obstacle assessments inside the boundaries of the aerodrome are not discussed in this document due to the amount of variables and complexity thereof.

Obstacle assessments outside the aerodrome would look at obstacles differently depending on utilization of the aerodrome and considers runways to be used for both departure and approach purposes:-

a) Small aerodromes utilized by small slow flying aircraft and featuring short runways would be evaluated against the criteria for code 2 instrument non precision approach surfaces with a slope of 3.3 % and a diversion of 15%. The inner horizontal would be regarded as a simple horizontal disk and diameter of 3500m above the published reference point of the aerodrome.

b) Large aerodromes utilized by large(r) and fast aircraft and featuring longer runways are evaluated against the criteria applicable for precision approaches with an ideal slope of 1.6% but to a slope of not exceeding 2% as may be dictated by existing structures or terrain. The inner horizontal now becomes a composite shape with circular arcs centered on the runway thresholds, and 45m above the runway threshold, and joined tangentially by straight lines. The same principle would apply to aerodromes featuring multiple runways. In practice this means that an obstacle is evaluated against the threshold elevation of the closest threshold.

This two tier approach to obstacle assessment is aimed at offering aerodromes more protection to facilitate future expansion.

- 2.5 In some cases obstacles in the vicinity of aerodromes are subject to more stringent requirements dictated by possible interference to Radar and/or ILS systems as is the case at ORTIA where Radar absorbing cladding may be required on structures exceeding 1730m AMSL – a figure 6m below the inner horizontal surface.
- 2.6 All obstacles exceeding 45m AGL are marked by default in South Africa in terms of and to the standards of Part 139 while, structures exceeding 30mAGL and also 150m above aerodrome elevation is regarded as significant within 15 Km from the aerodrome and is also marked. The latter which relates to Doc 9137 Vol 6 is however adapted and applies to any structure exceeding 150m above the mean ground level.
- 2.7 Wind turbine generators or collectively called Wind farms, are obstacles with unique properties as not only are they of variable geometry; they also have the ability to interfere on avionic systems.
- a) Most notable interference is false targets produced on **primary radar** when in **line of sight** but could also interfere when in close proximity of secondary radar. It is generally accepted that it would not interfere on **secondary radar** beyond 15 Km in distance.
- b) Wind turbines also cause disturbance in the air that shows up on meteorological radar systems as storm cells. This disturbance also holds a potential danger to small aircraft if allowed in close proximity of small aerodromes or areas of recreational flying.

- 2.8 By Part 139, no wind farm SHOULD be built within 35 km from an aerodrome. This 35 km is not a forbidden zone but rather a caution zone where extended investigation will be done if required and will involve all role players. This 35 km zone is based on the Annex 10 protection criteria for ILS plus a buffer zone.
- a) If an investigation indicates a possibility of interference, mitigation measures will be investigated and may involve repositioning or relocation of turbines. Options such as fill in radar may be considered if required or an application may be rejected outright if an acceptable level of mitigation cannot be reached.
- b) Wind farms are subjected to unique marking methods differentiating it from any other obstacle. Any telecommunications structure or other structure within a wind farm will be regarded as part of the wind farm and will be marked accordingly.
- c) Night markings of wind farms consist of dual flashing red lights of 2000 candela intensity. Not all turbines are marked but rather aimed at defining the outline of a wind farm and the most significant points. The flashing lights are synchronized.
- 2.9 It should be noted that the Northern Cape Province has proven to be a popular location for wind farms. While this location may have limited impact on aviation, the high intensity night markings of wind farms may bring it in conflict with the AGA Act, which saw the light as an effort to protect the Northern Cape for purposes of astronomy. This may lead to a re-consideration of marking methods.

3. Conclusion

- 3.1 While South Africa has got legislation in place to protect aviation from obstacles, including wind farms in Part 139.01.30 and also protection of Communication, Navigation and Surveillance systems including aeronautical meteorological systems in Part 171, this is a slow and cost intensive process.

----- Original message -----

From: Wildlife For All <wildlifeforall@hotmail.com>

Date: 2019/10/30 18:39 (GMT+02:00)

To: Thulani Dlamini <THDlamini@csir.co.za>

Subject: Wind Energy Facilities

>>> "Wildlife For All" 10/30/2019 18:39 >>>

The Wildlife For All Trust

British Registered Charity No. 1006174

Dear Dr Dlamini

We are a large nature reserve stuck in the middle of the Sutherland, Sutherland 2 and Rietrug Wind Energy Facilities. The so called "Environmental Impact Assessment" was a joke. With the exception of a biologist looking at our birds of prey, who did a good job, no other biologist or expert bothered to gain access to our reserve to speak to us as owners/managers. It was little more than a rubber stamping exercise.

When work begins, if there is any significant disruption for Komsberg Wilderness Nature Reserve, including any of the wildlife, we will seek a legal injunction to halt any work. Likewise, if the wind turbines once functioning, cause any disruption to our wildlife, we will not hesitate to take legal action to have them moved further back from our boundary fence.

We are experienced international biologists/conservationists. Our strong advice to you would be to make sure that any wind turbines are sufficiently distant from our boundary fence so as to minimise any risks of disruption. This will surely be best for yourselves (as any legal injunction will lead to delay and extra costs), as well as ourselves.

Please acknowledge receipt of this email.

Sincerely

Becky Scott

Director and Trustee

wildlifeforall.org

>>> Minnelise Levendal 04 Nov 2019 16:39 >>>

Dear Ms Scott

I hereby acknowledge receipt of your comments/email, included below, which I received via Dr Dlamini.

Please note that your comments will be incorporated in the Comments and Responses Trails of the Final Amendment Reports for the Sutherland, Sutherland 2 and Rietrug Wind Energy Facilities.

The Final Amendment Reports will be submitted to the national Department of Environment, Forestry and Fisheries (DEFF) [previously operating as the national Department of Environmental Affairs (DEA)] for decision-making.

Please submit future correspondence regarding these amendment applications to me as I am the project manager and Environmental Assessment Practitioner of these projects.

Many thanks and best wishes, Minnelise

Minnelise Levendal
CSIR, SMART PLACES (Environmental Management Services)
PO Box 320
Stellenbosch 7599

Tel: + 27-21 888-2495

Cell: 083 309 8159

Fax: 021-888 2693

Email: mlevendal@csir.co.za

 **GO Green - Please consider the environment before printing this email**

>>> Rudzani Makahane <RMakahane@bgcma.co.za> 09 Oct 2019 19:00 >>>

Dear Minnelise

I have noted that the two amendment regarding the subject matters above does not trigger any water use. If that is the case, our comments dated 14/08/2017 are still relevant.

However, you may still advice if I have missed something which may warrant a different comments or input from BGCMA.

Best Regards,

Rudzani MAKAHANE (Mr.)

Breede-Gouritz Catchment Management Agency

101 York St, George

Cell: 079 2141 396 / 023 346 8031



BREED-GOURITZ

Catchment Management Agency
Opvanggebied Bestuursagentskap
I-Arhente yoLawulo lomMandla nokungqongileyo

P.O Box 1205 / 101 York Street
George, 6530

✉: Mr.M Mthimkhulu
✉: mmthimkhulu@bgcma.co.za

☎: 023-346 8000

📁: 4/10/2/J11A/Rietrug Wind Energy Facility

Sustainable Futures ZA
PO Box 749
Rondebosch
7701

Attention: S Johnston

Dear Sir,

COMMENTS ON BASIC ASSESSMENT REPORT FOR THE PROPOSED CONSTRUCTION OF ELECTRICAL GRID INFRASTRUCTURE TO SUPPORT THE RIETRUG WIND ENERGY FACILITY, NORTHERN & WESTERN CAPE PROVINCES.

The above mentioned report, DEA reference number: 12/12/20/1782/AM1 for the above mentioned activity has reference.

The Breede-Gouritz Catchment Management Agency (BGCMA) has the following comments:

1. No operation is allowed within 100m of a water resource or 1:100 year flood line whichever is the greatest. If the proposed activity falls within these criteria, you need to apply for water use license to ensure that the riparian ecological status of the water resource will not be negatively impacted. It is advisable to consider an alternative site.
2. Please note that any development within 500m from the boundary of any wetland requires a water use licence according to National Water Act (NWA) 1998 (Act No. 36 of 1998).
3. No water maybe abstracted from any surface water body and groundwater unless authorized by this Agency.
4. Where solid waste disposal is to take place on site, ensure that only non-toxic materials which have no risk of polluting the groundwater, are buried in designated approved areas at acceptable depths below ground level.
5. No surface, ground or storm water may be polluted as a result of any activities on the site.
6. The rehabilitation of the site must ensure that the final conditions of the site is environmentally acceptable and that there will be no adverse long term effects on the surrounding environment especially the water resources.

7. Please note that all requirements as stipulated in the National Water Act (NWA) 1998(Act No. 36 of 1998) must be adhered to.
8. Please note that this Agency reserves the right to amend and / or add to the comments made above in the light of subsequent information received.

If you have any questions please don't hesitate to contact the official at the above mentioned details.

Kind Regards

PHAKAMANI BUTHELEZI



CHIEF EXECUTIVE OFFICER

DATE: 14/08/2017

27 October 2015,

Mr Eugene Marais
South Africa Mainstream Renewable Power Developments (Pty) Ltd
4th Floor Mariendahl House
Newlands on Main
Claremont
Cape Town
7708

Assessment of Impact on the Komsberg Wilderness Nature Reserve as part of the Environmental Impact Assessment for the Sutherland Renewable Energy Facility

NEAS reference: DEA/EIA/12247/2011
DEA Reference: 12/12/20/1782/AM1

Dear Mr. Marais,

As requested, the letter below details the extent to which the Komsberg Wilderness Nature Reserve (*Komsberg Reserve*) was assessed during the Environmental Impact Assessment (*EIA*) for the Sutherland Renewable Energy Facility (*REF*).

Background

Environmental Resources Management (Pty) Ltd (*ERM*) was appointed by South Africa Mainstream Renewable Power Developments (Pty) Ltd (*Mainstream*) to undertake an EIA for the Sutherland REF. The EIA commenced in 2009 and was undertaken in accordance and in full compliance with the National Environmental Management Act (Act No. 107 of 1998), as amended, and the NEMA EIA Regulations, 2006 (GNR 385, 386 and 387). As required by the regulations, a selection of specialists was appointed to assess the impact of the proposed development on the site and surrounds, and included vegetation, ecological, avian, bat, heritage, socio-economic, visual and noise specialists. While the focus of the vegetation, ecological, avian, bat and heritage studies were on the properties within the project footprint (*Annex A*), the socio-economic, visual and noise specialists focussed on impact of the development on the surrounding area (including the Komsberg Reserve). In addition, a comprehensive public participation process was undertaken as per the 2006 Regulations (*Annex B*).

Based on the findings of the scoping and draft EIA phases, the impacts associated with the proposed development were mitigated to acceptable levels of significance and Site Layout Alternative 2 was granted Environmental Authorisation (EA) on 22 February 2012. A subsequent amendment to extend the validity period of the EA issued on 06 October 2015.

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Company Registration Number
2003/001404/07

Directors
Ian Bailey (UK) (Chairman)
Urmilla Bob (Non-Executive)
Jeremy Sobol (Managing)
Tania Swanepoel
Bruce Walker

**A member of the Environmental
Resources Management Group**

Environmental
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During the EIA, a number of comments were received from *The Wildlife for All Trust (The Trust)*, which owns and manages the Komsberg Reserve. The Komsberg Reserve, located adjacent to the proposed REF, is a private nature reserve covering approximately 125 square km. The comments raised by The Trust were primarily related to concerns around the noise and visual impact associated with the proposed development. These impacts were however assessed in detail by the noise and visual specialists, who developed detailed modelling and photomontages respectively to assess the respective impacts on the properties within the site boundary, and the surrounding area (including the Komsberg Reserve). The following sections provide further detail regarding the pre- and post-mitigation significance of the noise and visual components assessed in the aforementioned EIA, as well as the stakeholder engagement process.

Noise Impact

The environmental noise impact assessment of the REF was conducted in accordance with Section 8 of SANS 10328. This procedure included amongst others, determining the existing ambient levels of noise within the study area through a site visit, as well as calculating the expected rating level of noise due to the wind turbines on the identified noise sensitive land. Due to the potential negative impact of turbine noise on the dwellings at the Komsberg Reserve, the following mitigation measures were recommended, which reduced the post-mitigation significance of the impact to low:

- Create a buffer between the wind turbines and site boundaries in order to ensure that the daytime residual sound level beyond the boundaries is not exceeded by 7dB or more.
- Remove or relocate turbines to at least 700 m from dwellings in order not to exceed the 33dBA daytime residual sound level at dwellings by 7dB or more.

These measures were integrated into the Site Layout Alternative 2 which was approved under the Environmental Authorisation of 2012.

Visual Impact

The visual impact will be largely limited to the operational phase of the project, although aspects of the REF will become visible during the construction phase and large machinery will be visible on site as soon as site preparation begins. Due to the proximity of the Komsberg Reserve to the proposed REF (see *Figure 2*), the pre- and post-mitigation visual impact is rated as high.

Figure 2: Photomontage of REF from the Vicinity of Komsberg Wilderness Nature Reserve



The visual specialist has however included the following suite of mitigation measures to reduce the visual impacts on surrounding properties, including the Komsberg Reserve. These measures, and most notably the visual buffer, have been included in Site Layout Alternative 2:

- A visual buffer zone of 700m for the wind turbines from farmsteads and other rural dwellings;
- A visual buffer of 500m for the wind turbines from the local district roads and external farm boundaries;
- The PV arrays, substation and O&M buildings to ideally be grouped in the same location to avoid the scatter of facilities in the open landscape.
- Cables to be located underground as far as possible;
- The design of the buildings to be compatible in scale and form with buildings of the surrounding rural area, and with the regional architecture;
- The internal access roads will not be located in drainage courses. The roads will generally follow the grain of the land, and their alignments fine-tuned to fit the topography; and
- Signage related to the enterprise to be discrete and confined to the entrance gates. No other corporate or advertising signage, particularly billboards, to be permitted.

Stakeholder Engagement

A comprehensive stakeholder engagement process was undertaken in full compliance with the NEMA EIA Regulations of 2006, and included various rounds of notifications, requests for comment, and public meetings. It should however be noted that comments from The Trust and other stakeholders (*Annex B*) were considered in informing the Department of Environmental Affairs (DEA) when making the decision to grant EA, and no appeals were received against the decision.

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Conclusion

The implementation of the mitigation measures outlined in the EIA and included in the Environmental Management Plan provide a basis for ensuring that the potentially negative impacts associated with the establishment of the Sutherland REF are mitigated to acceptable levels, and that the positive impacts associated with the REF outweigh the potential negative impacts on the surrounding area.

Please let me know if you have any further queries.

Kind regards,



Nadia Mol (Pr Sci Nat)
Principal Consultant



Stefan Milandri
Consultant

ERM Southern Africa (Pty) Ltd

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Annex 1: Original list of properties located within the boundaries of the REF

Landowner	Parcel Number	Postal Address
GVA Boerdery	Remaining Extent of the farm Beeren Valley no. 150	c/o Abrie de Wet PO Box 363, Caledon, 7230
	Remaining Extent of the farm Botmans Hoek no. 10	
	Portion 1 of the farm BOSCHMANS KLOOF no. 9	
Welgemoed Trust	Portion 1 of the farm Botmans Hoek no. 10	c/o David Muller PO Box 108, Sutherland, 6920
	Portion 1 (REMAINING EXTENT) of the farm TONTELDOOSFONTEIN no. 152	
	Portion 6 of the farm TONTELDOOSFONTEIN no. 152	
	Portion 1 (REMAINING EXTENT) of the farm VAN WYKS KRAAL no. 178	
	Portion 2 of the farm VAN WYKS KRAAL no. 178	
	Portion 1 of the farm SCHIETFONTEIN no. 179	
	Portion 2 of the farm SCHIETFONTEIN no. 179	
	Portion 1 (Remaining Extent) of the farm DRIE ROODE HEUELS no. 180	
	Portion 2 of the farm DRIE ROODE HEUELS no. 180	
Gielie Hanekom Family Trust*	Remaining Extent of the farm Welgemoed no. 268	C/o Gielie Hanekom Soverby Farm, Annandale Road, Stellenbosch, 7613
	Farm ANNEX DRIE ROODE HEUELS no. 181	
	Portion 1 of the farm WOLVEN HOEK no. 182	
	Portion 2 of the farm WOLVEN HOEK no. 182	
	Remaining Extent of the farm SCHALKWYKSKRAAL no. 204	
	Remaining Extent of the Farm DRIE ROODE HEUELS no. 180	
Maria Magdalena Laynes & David Schalk Laynes	Portion 1 of the farm BEEREN VALLEY no. 150	Dawid Laynes PO Box 87, Tosca, 8616
Burger Family Trust	Remaining Extent of the farm NOOITGEDAGT no. 148	c/o Hannelie Burger PO Box 32, Sutherland, 6920

* Please note that the Gielie Hanekom Family Trust was removed during the amendment submitted in August 2015.

>>> Natasha Higgitt <nhiggitt@sahra.org.za> 12 Nov 2019 16:26 >>>

[The e-mail server of the sender failed SPF checks and maybe malicious (SPF Record)]

Good afternoon,

We are currently experiencing some technical problems with SAHRIS. As such, we are unable to review any cases or issue any comments. Our technical team is working on the problem and all stakeholders will be informed once the issue is resolved.

Kind regards,

From: Minnelise Levendal <MLevendal@csir.co.za>

Sent: Tuesday, November 12, 2019 3:19 PM

To: Natasha Higgitt <nhiggitt@sahra.org.za>

Subject: Comments on the proposed Rietrug, Sutherland and Sutherland 2 Amendment Applications for Mainstream

Dear Natasha

I hope you are well.

I am currently undertaking the substantive amendment processes (third amendments) for amendments to the EAs for the proposed Rietrug, Sutherland and Sutherland 2 Wind Energy Facilities near Sutherland for Mainstream.

Mainstream wishes to increase the turbine hub height and rotor diameter from 150 m to 200 m each. Mainstream also wishes to change the contact details of the holder of the EA.

I attach the previous comments from SAHRA on the previous amendment applications.

I would like to follow up on comments from SAHRA for the latest amendments (amendments 3). The Draft Amendment Reports have been released for public comment.

Can you please advise on this matter. Please let me know if you require any additional information.

Your response will be highly appreciated.

Many thanks and kind regards,
Minnelise

Minnelise Levendal (Pri Sci Nat)
CSIR, Implementation Unit (Environmental Management Services)
PO Box 320
Stellenbosch 7599

Tel: + 27-21 888-2495
Cell: 083 309 8159
Fax: 021-888 2693
Email: mlevendal@csir.co.za

Natasha Higgitt

Heritage Officer: Archaeology, Palaeontology and Meteorites Unit
South African Heritage Resources Agency

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APPENDIX B.7: COMMENTS AND RESPONSES REPORT (RIETRUG)

No.	Raised by	Comments	Response
<u>COMMENTS FROM DEPARTMENT OF ENVIRONMENTAL AFFAIRS: INTEGRATED ENVIRONMENTAL AUTHORISATIONS (ACKNOWLEDGEMENT OF APPLICATION)</u>			
1.	<p>Department of Environmental Affairs</p> <p>Mr Sabelo Malaza</p> <p>Chief Director: Integrated Environmental Authorisations</p> <p>Enquiries:</p> <p>Ms Makhosazane Yeni</p> <p>Letter received via email</p> <p>Date: 29/08/2019</p>	<p>Dear Ms Levendal</p> <p>ACKNOWLEDGEMENT OF RECEIPT OF AMENDMENT APPLICATION OF ENVIRONMENTAL AUTHORISATION ISSUED ON 10 NOVEMBER 2019 FOR THE DEVELOPMENT OF THE RIETRUG WIND ENERGY FACILITY FOR SOUTH AFRICA MAINSTREAM RENEWABLE POWER DEVELOPMENTS (PTY) LTD NEAR SUTHERLAND WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE</p> <p>The Department confirms having received the application for amendment of environmental authorisation for the abovementioned project on 19 August 2019. You have submitted these documents to comply with the Environmental Impact Assessment Regulations, 2014 as amended.</p> <p>Please note that your application for amendment of environmental authorisation falls within the ambit of amendments to be applied for in terms of Part 2 of Chapter 5 of the Environmental Impact Assessment Regulations (2014) as amended. You are therefore referred to regulation 32.</p> <p>You are also advised that the Public Participation Process must be conducted as outlined In Chapter 6 of the EIA Regulations, 2014, as amended.</p> <p>Regulation 31 (Part 2 Amendments) of the EIA regulations, 2014 as amended states that "<i>An environmental authorisation may be amended by following the process prescribed in this Part if the amendment will result in a change to the scope of a valid environmental authorisation where such change will result in an increased level or nature of impact where such level or nature of</i></p>	<p>CSIR:</p> <p>Thank you for the letter of acknowledgement of receipt of the amendment application. The requirements in terms of Regulation 32 of the 2014 NEMA EIA Regulations, as amended, were adhered to. The Public Participation Process (PPP) was conducted as outlined in Chapter 6 of the 2014 NEMA EIA Regulations, as amended. Please refer to section 2.2 of this report and Appendix B for a description of the PPP that was undertaken to date and which will still be undertaken as part of this amendment application.</p> <p>Please note the Environmental Authorisation for the development of the Rietrug Wind Energy Facility (WEF) was issued on 10 November 2016, and not 10 November 2019, as indicated in the subject heading of your letter.</p> <p>CSIR:</p> <p>An application for substantive amendment was submitted to the Department of Environmental Affairs, Forestry and Fisheries (DEFF), previously operating as the Department of Environmental Affairs (DEA) in terms of regulation 32 of GN. R.982. The Final Amendment Report is hereby submitted to the Department of Environmental</p>

No.	Raised by	Comments	Response
		<p><i>impact was not-</i></p> <p><i>(a) assessed and included in the initial application for environmental authorisation; or</i></p> <p><i>(b) taken into consideration in the initial environmental authorisation;"</i></p> <p>As such, you are referred to regulation 32 of GN R. 982. You are requested to submit the following documents within 90 days of the receipt of this application by the competent authority, as per regulation 32(1) (a) of GNR 982 of the amended EIA regulation of 2014:</p> <p>A report, reflecting:</p> <ol style="list-style-type: none"> an assessment of all impacts related to the proposed change; advantages and disadvantages associated with the proposed change; and measures to ensure avoidance, management and mitigation off impacts associated with such proposed change; and any changes to the EMPr. 	<p>Affairs on 15 November 2019 (i.e. within 90 days from the receipt of this application by DEFF on 19 August 2019).</p> <p>The report contains:</p> <ol style="list-style-type: none"> an assessment of all impacts related to the proposed change - Please refer to section 4 of this report and the specialist inputs in Appendix C; advantages and disadvantages associated with the proposed change – Please refer to section 7 of this report; measures to ensure avoidance, management and mitigation off impacts associated with such proposed change – Please refer to section 4 of this report, the specialist inputs in Appendix C and the EMPr in Appendix D; and any changes to the EMPr – Please refer to Appendix D of this report.
		<p>All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Office Hours which is visible on the Departmental gate. EIA related documents (includes application forms, reports or any EIA related submissions} that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted.</p> <p>Yours sincerely Mr Sabelo Malaza</p>	<p>CSIR:</p> <p>All the documentation has been and will be delivered during the official office hours of the Department.</p>
<p><u>COMMENTS FROM DEPARTMENT OF ENVIRONMENTAL AFFAIRS: INTEGRATED ENVIRONMENTAL AUTHORISATIONS (COMMENTS ON THE DRAFT AMENDMENT REPORT)</u></p>			
2.	Department of	Dear Ms Levendal	CSIR:

No.	Raised by	Comments	Response
	<p>Environmental Affairs Chief Directorate: Integrated Environmental Authorisations Mr Sabelo Malaza: Chief Director Enquiries: Ms Makhosazane Yeni Letter sent via email Date: 24/10/2019 10/2019</p>	<p>COMMENTS ON THE APPLICATION FOR AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 10 NOVEMBER 2016 FOR THE DEVELOPMENT OF THE RIETRUG WIND ENERGY FACILITY FOR SOUTH AFRICA MAINSTREAM RENEWABLE POWER DEVELOPMENTS (PTY) LTD NEAR SUTHERLAND WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY IN NORTHERN CAPE PROVINCE</p> <p>The application for amendment to the Environmental Authorisation (EA) received by this Department on 19 August 2019, the acknowledgement letter dated 29 August 2019 and the draft Amendment to the Environmental Authorisation (EA) received by this Department on 04 October 2019 refer.</p> <p><u>Following the review of your draft motivation report for amendment of the EA. this Department has the following comments:</u></p> <p><u>Land owner's consent</u></p> <ul style="list-style-type: none"> The Department has noted that the land owner's consent is not attached in the draft report, therefore; it is requested that you include it in the final amendment report as per requirements of Regulation 39 (1) of EIA Regulations 2014, as amended. <p><u>Layout plans</u></p> <ul style="list-style-type: none"> The approved site layout plan showing the location of the turbines and other associated infrastructure must be overlaid to the proposed amendment and must also show all the sensitive features as well as associated buffers. The amended layout plan must be submitted with the final amendment report. <p>All preferred turbine positions must be clearly numbered. The turbine position numbers must be consistently used in</p>	<p>Landowners signed a Special Power of Attorney document to authorise Mainstream to sign EIA related documents on their behalf. This includes consent to the amendment application. These signed documents are included in Appendix F (Additional information) of the Final Amendment Report.</p> <p>CSIR:</p> <ul style="list-style-type: none"> The approved site layout has been overlaid to the proposed amendment and shows the sensitive features and buffers (see Figure 14). The layout plan is included in Figures 1 and Figure 14. All the preferred turbine positions are clearly numbered in the maps included in the Final Amendment Report i.e. this report – refer to Figure 1, 3, 6, 11 and 13 and 14. The turbine position numbers are consistently used in all maps.

No.	Raised by	Comments	Response
		all maps to be included in the final report.	
		<p><u>Environmental Authorisation and any EA conditions that need to be addressed</u></p> <ul style="list-style-type: none"> • Certified copies of the EA as well as the first amendment to the EA must be submitted with the final amendment report. • The Department advice that prior submission of the final amendment report, you go through the EA conditions and verify if there is no conditions that needs to be responded to which can be incorporated in this amendment process. • The report must clearly indicate the conditions/part of the EA that needs to be amended, should there be any; the motivation and reasons for such amendments must be detailed in the final report. 	<p><u>CSIR:</u></p> <ul style="list-style-type: none"> • A certified copy of the amendment decision for Amendment 2 of the Rietrug WEF is included in Appendix F of this Final Amendment Report. An original commissioned Affidavit under oath undertaken by Mr Eugene Marais is included in Appendix F for the original EA and the Amendment 1 Decision as the original documents are not available. The Affidavit is included in Appendix F of this report. These documents were also submitted with the application form which was received by DEFF on 19 August 2019. • The conditions in the original EA for the Rietrug WEF dated 10 November 2016 have been reviewed. Section 5 of the Final Amendment Report indicates conditions in the said EA that need to be revised or conditions which must be added based on the inputs from the specialists on the amendment application. • Section 5 of the Final Amendment Report indicates conditions and parts of the EA that need to be amended. Motivation and reasons for the amendments are included in sections 3 and 7 of the Final Amendment Report.
		<p><u>Public participation Process (PPP)</u></p> <ul style="list-style-type: none"> • Please ensure that comments from all relevant stakeholders are submitted to the Department with the final report. This includes but is not limited to the Northern Cape Department of Environment and Nature Conservation, The Western Cape Department of Environmental Affairs and Development Planning; the provincial Department of Agriculture, the South African Civil Aviation Authority (SACAA), the Department of Transport, the Karoo Hoogland Local Municipality, the Laingsburg Local Municipality, the 	<p><u>CSIR:</u></p> <ul style="list-style-type: none"> • All the identified stakeholders were requested to provide comments on the Draft Amendment Report via letter 1 that was emailed on 3 October 2019. The notification was sent to all the stakeholders and Interested and Affected Parties on the database included in Appendix B.3. Follow up emails to remind stakeholders to submit comments were sent on 25 October 2019 and on 1 November 2019. Hard copies of the Draft Amendment report and electronic copies (USBs) were couriered to the Department of Environmental Affairs (Integrated Environmental

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		<p>Department of Water and Sanitation (DWS), the South African National Roads Agency Limited (SANRAL), the South African Heritage Resources Agency (SAHRA), the Endangered Wildlife Trust (EWT), BirdLife SA, the South African Bat Assessment Association, the Department of Mineral Resources, the Department of Rural Development and Land Reform, and the Department of Environmental Affairs: Directorate Biodiversity and Conservation.</p> <ul style="list-style-type: none"> • A Comments and Response Report (C&R) must be submitted with the final report. The C&R report must be a separate document from the main report. • Further, ensure that you refrain from summarizing comments made by I&APs and ensure you include original copy of comments into the final report. All comments from I&APs must be copied verbatim and responded to clearly. • Furthermore, note that a response such as "noted" is not regarded as an adequate response to I&APs comments. • Ensure that all issues raised and comments received during the circulation of the application for amendment from registered I&APs and organs of state which have jurisdiction (including this Department's Biodiversity Section) in respect of the proposed activity are adequately addressed in the application for amendment. • Proof of correspondence with the various stakeholders must be included in the application for amendment. Should you be unable to obtain comments, ensure that proof of the attempts that were made to obtain comments is submitted to the Department. • The Public Participation Process must be conducted in terms of Regulations 39, 40 41, 42, 43 & 44 of the EIA Regulations 2014, as amended. 	<p>Authorisations), the Department of Environmental Affairs (Biodiversity Conservation), and the Northern Cape Department of Environment and Nature Conservation (DENC). Hard copies were also couriered to the Laingsburg, Sutherland and Merweville Public Libraries. Electronic copies of the report were couriered to the Karoo Hoogland and the Laingsburg local municipalities as well as the Namakwa and Central Karoo District Municipalities. Electronic copies of the report were couriered to the Department of Water and Sanitation (DWS, based in Bellville), the Northern Cape DWS, the Northern Cape Department of Agriculture, the Northern Cape Department of Transport and Public Works as well as the SKA office. Proof of courier waybills and proof of the emails sent are included in Appendix B.5 of the Final Amendment Report, together with proof of follow up reminders that were emailed to stakeholders and I&APs. Copies of the comments received are included in Appendix B.6 of the Final Amendment Report.</p> <ul style="list-style-type: none"> • The C&R report (this report) is a separate report which is attached as an Appendix B.7 to the Final Amendment Report. • All original comments from I&APs are included in Appendix B.6 of the Final Amendment Report. Comments from I&APs are copied verbatim and are responded to clearly in this comments and responses report. • Comments are responded to with adequate responses in the comments and responses report and not by merely indicating "noted". • Issues raised and comments received from registered I&APs and organs of state (including the Department's Biodiversity Section) are adequately addressed in the comments and responses report of the Final Amendment Report. • Proof of correspondence with stakeholders as well as proof of attempts made to obtain comments from them are included in Appendix B.5 of the Final Amendment Report.

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			<ul style="list-style-type: none"> The PPP has been conducted in terms of Regulations 39, 40 41, 42, 43 & 44 of the EIA Regulations 2014, as amended (please refer to section 2.2 and Appendix B of the Final Amendment Report for details on the PPP that was followed).
		<p>EMPr</p> <ul style="list-style-type: none"> The draft EMPr to be submitted with the final amendment report must be updated to include the revised layout and incorporate all mitigation measures recommended by the specialists as per the content of this comments letter. 	<p>CSIR:</p> <ul style="list-style-type: none"> The turbine layout is included in the draft EMPr which is included in Appendix D of the Final Amendment Report. The Draft EMPr also incorporates all mitigation measures recommended by the specialists for this amendment application. Additional mitigation measures obtained as a result of the PPP has been included in the draft EMPr. These mitigation measures have been highlighted and underlined.
		<p>General</p> <ul style="list-style-type: none"> Further note that in terms of Regulation 45 of the EIA Regulations 2014, as amended this application will lapse if the applicant fails to meet any of the timeframes prescribed in terms of these Regulations, unless an extension has been granted in terms of Regulation 3(7). Please note that in terms of Regulation 32 of EIA regulation 2014 as amended, the applicant is required within a specified timeframe to submit a report to this Department in light of the proposed amendments. <p>Yours faithfully Mr Sabelo Malaza</p>	<p>CSIR:</p> <ul style="list-style-type: none"> The prescribed timeframes are being adhered to. The Draft Amendment Report has been submitted to stakeholders for a 30-day commenting period. The Final Amendment Report is hereby submitted to DEFF on 15 November 2019, which is within 90 days from the date that the Department received the application for this amendment, i.e. on 19 August 2019. The applicant has adhered to the prescribed timeframes in terms of Regulation 32 of the 2014 EIA Regulations, as amended. As noted above, the Final Amendment Report is hereby submitted to DEFF within 90 days from the date that the Department received the application for this amendment, i.e. on 19 August 2019.
<u>COMMENTS FROM DEPARTMENT OF ENVIRONMENTAL AFFAIRS: BIODIVERSITY CONSERVATION</u>			
3.	Department of Environmental Affairs: Directorate: Biodiversity	<p>Dear Ms Levendal</p> <p>COMMENTS ON THE DRAFT AMENDMENT REPORT FOR THE DEVELOPMENT OF THE 140 MW RIETRUG WIND ENERGY</p>	<p>CSIR:</p> <ul style="list-style-type: none"> Thank you for your comments on the Draft Amendment Report for the proposed Rietrug WEF. It is noted that the Directorate:

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	<p>Conservation</p> <p>Mr Seoka Lekota:</p> <p>Control Biodiversity Officer: Biodiversity Conservation</p> <p>Enquiries: Ms Portia Makitla /</p> <p>Thobekile Zungu</p> <p>Letter received via email</p> <p>Date: 28/10/2019</p>	<p>FACILITY, SUTHERLAND, NORTHERN CAPE PROVINCE</p> <ul style="list-style-type: none"> The Directorate: Biodiversity Conservation confirms having received the aforementioned draft Environmental Authorisation (EA) amendment Report for comments and does not have any objections to the proposed amendment. The final report must comply with all the requirements as outlined in the EIA guideline for renewable energy projects and the Revised Best Practice Guideline for Birds & Wind Energy for assessing and monitoring the impact of wind energy facilities on birds in Southern Africa. <p>Yours faithfully Mr Seoka Lekota</p>	<p>Biodiversity Conservation has no objections to the proposed amendment.</p> <ul style="list-style-type: none"> The requirements in the EIA guideline for renewable energy projects and the revised Best Practice Guideline for Birds and Wind Energy Facilities for Birds & Wind Energy for assessing and monitoring the impact of wind energy facilities on birds in Southern Africa was adhered to with the planning, and will be adhered to with the construction and operational phases of the Rietrug WEF. The Final Amendment Report also complies with the said guidelines.
<u>COMMENTS FROM ESKOM</u>			
4.	<p>Eskom</p> <p>Mr John Geeringh:</p> <p>Senior Consultant Environmental Management</p> <p>Eskom Transmission Division: Land & Rights</p> <p>Email</p> <p>Date: 08/10/2019</p>	<p>Please find attached Eskom requirements for infrastructure development near Eskom servitudes and infrastructure. Find also attached an updated setbacks document that the applicant must take into consideration due to the changes in turbine heights and size.</p> <p>Kind regards John Geeringh (Pr Sci Nat)</p>	<p>CSIR:</p> <p>Thank you for providing us with the Eskom requirements for infrastructure development near Eskom servitudes and infrastructure and for the updated setbacks document. The applicant will contact Eskom should any of the setbacks specified in the setbacks document be applicable to the development of the proposed Rietrug WEF.</p>
<u>COMMENTS FROM THE CIVIL AVIATION AUTHORITY (CAA)</u>			
5.	<p>Civil Aviation Authority</p> <p>Ms Lizell Stroh:</p> <p>Obstacle Inspector</p>	<p>Good day Minnelise, this office would require Mainstream to make a payment to the outstanding assessment fees to the Rietrug Windfarm, prior release of approval to the proposed site. Please find information on the Procedure and assessment done</p>	<p>CSIR:</p> <p>Thank you for the comments provided. Mainstream has paid the CAA for the outstanding fees on the 26 September 2019, however, Mainstream has not yet received the permit / certificate for the</p>

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	PANS-OPS Section Air Navigation Services Department Email Date: 07/10/2019	by this Authority to Wind Farm Development for your information. Kind regards Lizell Stroh	proposed Rietrug WEF.
<i>COMMENTS FROM THE BREEDE-GOURITZ CATCHMENT MANAGEMENT AGENCY (BCMA)</i>			
6.	Breede-Gouritz Catchment Management Agency (BCMA) Mr Rudzani Makahane Email Date: 09/10/2019	Dear Minnelise I have noted that the two amendment regarding the subject matters above does not trigger any water use. If that is the case, our comments dated 14/08/2017 are still relevant. However, you may still advice if I have missed something which may warrant a different comments or input from BGCMA. Best Regards,	CSIR: The comments from BCMA dated 14/08/2017 are included below for ease of reference. These comments are also included in Appendix B.6 of the Final Amendment Report.
	BCMA Mr Phakamani Buthelezi Chief Executive Officer (CEO) Enquiries: Mr. M. Mthimkhulu Letter via email Date: 14/08/2017	Letter from BCMA (dated 14/08/2017) as referred to by Mr Makahane above: Attention: S Johnston Dear Sir, COMMENTS ON BASIC ASSESSMENT REPORT FOR THE PROPOSED CONSTRUCTION OF ELECTRICAL GRID INFRASTRUCTURE TO SUPPORT THE RIETRUG WIND ENERGY FACILITY, NORTHERN & WESTERN CAPE PROVINCES. The above mentioned report, DEA reference number: 12/12/20/1782/AM1 for the above mentioned activity has reference. The Breede-Gouritz Catchment Management Agency (BGCMA) has the following comments:	CSIR: The amendment application itself does not trigger any water use. The comments from BCMA dated 14/08/2017 are included for ease of reference. These comments are also included in Appendix B.6 of the Draft Amendment Report. A Water Use Licence Application (WULA) or General Authorisation (GA) will be applied for should the project receive preferred bidder status (as relevant).
		1. No operation is allowed within 100m of a water resource or 1:100 year flood line whichever is the greatest. If the proposed activity falls within these criteria, you need to apply for water use license to ensure that the riparian	CSIR: The applicant will apply for a water use licence should development falls within 100 m from a water course or 1:100 year floodline. This recommendation was included in section 6.1.5 of the updated EMPr

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		ecological status of the water resource will not be negatively impacted. It is advisable to consider an alternative site.	(in Appendix D) of the Final Amendment Report. Additional measures for the protection of hydrological features on site are included in section 15 of the EMPr.
		2. Please note that any development within 500m from the boundary of any wetland requires a water use license according to National Water Act (NWA) 1998 (Act No.36 of 1998).	CSIR: The applicant will apply to the Department of Water and Sanitation for a water use licence should any develop occur within 500m from the boundary of a wetland. This recommendation was included in section 6.1.5 of the updated EMPr (in Appendix D) of the Final Amendment Report. Additional measures for the protection of hydrological features on site are included in section 15 of the EMPr.
		3. No water maybe abstracted from any surface water body and groundwater unless authorised by this Agency.	CSIR: No abstraction of any surface or groundwater will take on site unless it is authorized by the BCMA. This recommendation was included in the updated EMPr (in Appendix D) of the Final Amendment Report (see section 6.2.6). Additional measures for the protection of hydrological features on site are included in section 15 of the EMPr.
		4. Where solid waste disposal is to take place on site, ensure that only non-toxic materials which have no risk of polluting the groundwater, are buried in designated approved areas at acceptable depths below ground level.	CSIR: A waste management plan will be implemented on site during the construction and operational phases of the wind farm as per section 16 of the EMPr. All operational waste (concrete, steel, rubbles etc.) is to be removed from the site and the waste hierarchy of prevention, as the preferred option, followed by reuse, recycling, recovery must be implemented, where possible. Other non-hazardous solid waste (e.g. packaging material) must be disposed of at a licensed landfill.
		5. No surface, ground or storm water may be polluted as a result of any activities on the site.	CSIR: A stormwater management plan will be implemented on site as per section 11 of the EMPr. Stormwater run-off will be discharged away from the water courses (drainage channels, streams or dams). Effluent from construction site offices and staff facilities will be collected in storage tanks, which will be removed by a licensed sanitary contractor. Effluent from the batching plant will be contained within a bunded

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			<p>area and not be allowed to drain into water courses. Effluent will be recycled or removed.</p> <p>A protection plan of hydrological resources will be implemented on site during the construction and operational phases of the project as per section 15 of the EMPr.</p>
		6. The rehabilitation of the site must ensure that the final conditions of the site is environmentally acceptable and that there will be no adverse long term effects on the surrounding environment especially the water resources.	<p>CSIR:</p> <p>The site will be rehabilitated in an environmentally sustainable manner to ensure that long term effects on the local environment are avoided. A re-vegetation and rehabilitation plan will be implemented on site following construction as per section 9 of the EMPr. Rehabilitation or ecological restoration during and after the construction phase will be undertaken with indigenous plants with input from a botanist with experience in restoration. The removal of vegetation must be minimised during construction and operation to reduce the risk of excessive open areas occurring. All disturbed sites must be rehabilitated as per section 8 of the EMPr (Plant rescue and protection plan).</p>
		7. Please note that all requirements as stipulated in the National Water Act (NWA) 1998(Act No. 36 of 1998) must be adhered to.	<p>CSIR:</p> <p>All the requirements of the NWA will be adhered to during the construction and operation of the proposed Rietrug WEF.</p>
		8. Please note that this Agency reserves the right to amend and/or add to the comments made above in the light of subsequent information received.	<p>CSIR:</p> <p>This is acknowledged by the EAP.</p>
		<p>If you have any questions please don't hesitate to contact the official at the above mentioned details.</p> <p>Kind Regards</p> <p>Phakamani Buthelezi</p>	<p>CSIR:</p> <p>Ms Levendal contacted Mr Mthimkhulu to clarify certain matters pertaining to the comments received and will continue to do so should more questions arise.</p>

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<u>COMMENTS FROM THE WILDLIFE FOR ALL TRUST</u>			
7.	<p>The Wildlife For All Trust (Komsberg Wilderness Private Nature Reserve) Becky Scott Director and Trustee wildlifeforall.org Date: 30/10/2019</p>	<p>The Wildlife For All Trust British Registered Charity No. 1006174 Dear Dr Dlamini We are a large nature reserve stuck in the middle of the Sutherland, Sutherland 2 and Rietrug Wind Energy Facilities. The so called "Environmental Impact Assessment" was a joke. With the exception of a biologist looking at our birds of prey, who did a good job, no other biologist or expert bothered to gain access to our reserve to speak to us as owners/managers. It was little more than a rubber stamping exercise.</p> <p>When work begins, if there is any significant disruption for Komsberg Wilderness Nature Reserve, including any of the wildlife, we will seek a legal injunction to halt any work. Likewise, if the wind turbines once functioning, cause any disruption to our wildlife, we will not hesitate to take legal action to have them moved further back from our boundary fence.</p> <p>We are experienced international biologists/conservationists. Our strong advice to you would be to make sure that any wind turbines are sufficiently distant from our boundary fence so as to minimise any risks of disruption. This will surely be best for yourselves (as any legal injunction will lead to delay and extra costs), as well as ourselves.</p> <p>Please acknowledge receipt of this email.</p> <p>Sincerely Becky Scott Director and Trustee</p>	<p><u>CSIR:</u> Minnelise Levendal (the Environmental Assessment Practitioner) acknowledged receipt of this email to Ms Becky Scott of the Wildlife for All Trust on 4 November 2019. The email from Ms Scott was received via the CSIR Director, Dr Dlamini.</p> <p>As required by the regulations, a selection of specialists was appointed to assess the impact of the proposed development on the site and surrounds, and included vegetation, ecological, avian, bat, heritage, socio- economic, visual and noise specialists. While the focus of the vegetation, ecological, avian, bat and heritage studies were on the properties within the project footprint, the socio-economic, visual and noise specialists focussed on impact of the development on the surrounding area (including the Komsberg Reserve).</p> <p>As indicated above, the potential impacts to noise and visual on the Komsberg Nature Reserve were assessed in detail by the noise and visual specialists who developed detailed modelling and photomontages respectively.</p> <p>The following mitigation measures were proposed to reduce the potential noise and visual impact to the Komsberg Nature reserve.</p> <p>Noise impact: The following mitigation measures were proposed, which reduced the post-mitigation significance of the impact to low:</p> <ul style="list-style-type: none"> • Create a buffer between the wind turbines and site boundaries in order to ensure that the daytime residual sound level beyond the boundaries is not exceeded by 7dB or more. • Remove or relocate turbines to at least 700 m from dwellings in order not to exceed the 33dBA daytime residual sound level at

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			<p>dwellingings by 7dB or more.</p> <p>These mitigation measures were integrated into the site layout (Figure 13 and Figure 14) and were incorporated into section 6.1.9 (project planning and design phase) and section 6.2.10 (construction phase) of the EMPr. These sections are highlighted in yellow and underlined.</p> <p>Visual impact:</p> <p>Due to the proximity of the Komsberg reserve to the proposed REF, the pre-and post-mitigation visual impact was rated as high (ERM, 2011). The following mitigation measures were proposed specifically for the Komsberg Nature Reserve:</p> <ul style="list-style-type: none"> • A visual buffer zone of 700 m for the wind turbines from farmsteads and other rural dwellingings; • A visual buffer of 500 m for the wind turbines from the local district roads and external farm boundaries; • The substation and O&M buildings to ideally be grouped in the same location to avoid the scatter of facilities in the open landscape. • Cables to be located underground as far as possible; • The design of the buildings to be compatible in scale and form with buildings of the surrounding rural area, and with the regional architecture; • The internal access roads will not be located in drainage courses. The roads will generally follow the grain of the land, and their alignments fine-tuned to fit the topography; and • Signage related to the enterprise to be discrete and confined to the entrance gates. No other corporate or advertising signage, particularly billboards, to be permitted. <p>These mitigation measures regarding the visual buffers were integrated into the site layout (Figure 13). The mitigation measures were incorporated into section 6.1.9 (project planning and design</p>

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			<p>phase) and section 6.2.8 (construction phase) of the EMPr of the EMPr. These sections are highlighted in yellow and underlined.</p> <p>A buffer of 500 m for the wind turbines from the local district roads and external farm boundaries of the Komsberg Nature Reserve was applied. A 700 m buffer was also applied for the wind turbines from the farmsteads and other rural dwellings in order not to exceed the 33 dBA daytime residual sound level at dwellings by 7dB or more and to reduce the visual impact.</p> <p>The implementation of the mitigation measures outlined in the EIA (ERM, 2011) and the subsequent amendment reports and included in the EMPr (Appendix D) provide a basis for ensuring that the potentially negative impacts associated with the establishment of the proposed Rietrug WEF are mitigated to acceptable levels, and that the positive impacts associated with the WEF outweigh the potential negative impacts on the surrounding area.</p>