

Stephan Jacobs

From: Irene Bezuidenhout <iBezuidenhout@biothermenergy.com>
Sent: Friday, December 15, 2017 11:18 AM
To: Stephan Jacobs; Hlengiwe Ntuli
Cc: Andrea Gibb; rebecca.thomas@mainstreamrp.com; Michael Barnes
Subject: RE: 13622 Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein: DBAR Comment Period Starting

Follow Up Flag: Follow up
Flag Status: Completed

Hi Stephan,

Thank you for the notification. Please can you provide me with a kmz file for the proposed powerline route options in order for us to provide comment if necessary. BioTherm Energy has an EA for the proposed 70MW Loeriesfontein PV facility and a separate EA for a 132kV powerline to Helios substation, I need to see if the proposed routes will impact on our authorised site and layout and/or authorised route alignment to Helios substation. We understand that the IPPs infrastructure have to coexist and we need to come up with an optimal solution which will suit all parties should there be a potential impact to our authorised infrastructure.

Kind regards

Irene Bezuidenhout | Environmental Manager
BioTherm Energy (Pty) Ltd
Building 1, Leslie Ave East Design Quarter District, Fourways
P: +27 (0) 11 367 4600 | F: +27 (0) 11 367 4601 | M:+27 (0) 76 822 3484
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From: sivist_PPP [mailto:sivist_ppp@sivist.co.za]
Sent: Thursday, 14 December, 2017 4:49 PM
Cc: Andrea Gibb <AndreaG@sivist.co.za>; Stephan Jacobs <StephanJ@sivist.co.za>; 'rebecca.thomas@mainstreamrp.com' <rebecca.thomas@mainstreamrp.com>; 'Nicolene Venter' <nicolene@imaginativeafrica.co.za>
Subject: 13622 Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein: DBAR Comment Period Starting

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Dear Interested and/or Affected Party,

BASIC ASSESSMENTS (BAS) FOR THE PROPOSED DEVELOPMENT OF THE 132kV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132kV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- **132kV Graskoppies Substations and Power line**
– (DEA Ref No.: To be Announced)
- **132kV Hartebeest Leegte Substations and Power Line**
– (DEA Ref No.: To be Announced)
- **132kV Ithemba Substations and Power Line**
– (DEA Ref No.: To be Announced)
- **132kV !Xha Boom Substations and Power Line**
– (DEA Ref No.: To be Announced)
- **AVAILABILITY OF THE DRAFT BASIC ASSESSMENT REPORTS FOR PUBLIC REVIEW**

SiVEST is in the process of undertaking the Basic Assessments (BAs) for the proposed development of the above mentioned Substations and Power Lines near Loeriesfontein in the Northern Cape Province.

We would like to inform you that, in accordance with the National Environmental Management Act (NEMA) (as amended), the Draft Basic Assessment Reports (DBARs) for the above-mentioned projects will be made available for public review and comment as from **Thursday 14 December 2017** to **Monday 05 February 2018** (before end of business day). Hard copies of the DBARs are available at the following venue:

VENUE	STREET ADDRESS	HOURS	CONTACT NO
Loeriesfontein Library	Main Street, Loeriesfontein	Mondays – Fridays 14h00 – 17h00	027 662 8607

The reports as well as the accompanying appendices are also available on SiVEST's website: <http://www.sivest.co.za/>, click on downloads, then browse to the folder '13622 Mainstream Substations and Power Lines'.

Attached are English and Afrikaans letters notifying you of the availability of the reports, including Comment Forms.

We kindly request that you submit your comments to Public Participation Office at the below details, on or before **Monday 05 February 2018** (before end of business day). SiVEST will forward any comments received after the public comment and review period directly to the relevant case officer at the Department of Environmental Affairs (DEA).

Should you have any questions or queries please do not hesitate to contact us at:

Stephan Jacobs / Hlengiwe Ntuli
PO BOX 2921, Rivonia, 2128
Tel – (011) 798 0600

Fax – (011) 803 7272

Email – stephanj@sivest.co.za / hlengiwen@sivest.co.za

Kind Regards

ONDERWERP: 13622 Voorgestelde Substasies en Kraglyne vir doe Windplase naby Loeriesfontein: KBEV Kommentaar Periode Begin

Geagte Belangstellende en/of Geaffekteerde Party,

BASIESE EVALUERINGS (BE's) VIR DIE BEOOGDE ONTWIKKELING VAN DIE 132KV MAINSTREAM SKAKEL SUBSTASIE EN VIER (4) 132KV OP PERSEEL ESKOM SUBSTASIES EN KRAGLYNE NABY LOERIESFONTEIN, NOORD-KAAP PROVINSIE

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– DEA Verwysings No.: Moet nog aangekondig word)
- **BESKIKBAARHEID VAN DIE KONSEP BASIESE EVALUERINGSVERSLAE VIR OPENBARE OORSIG**

SiVEST is in die proses om die Basiese Evalueringe (BE's) vir die voorgestelde ontwikkeling van die bogenoemde Substasies en Kraglyne naby Loeriesfontein in die Noord-Kaap Provinsie te onderneem.

Ons lig u graag hiermee in dat die Konsep Basiese Evalueringe (KBEV's) vir die bogenoemde projekte, ooreenkomstig die Nasionale Wet op Omgewingsbestuur (NEMA) (soos gewysig), vanaf **Donderdag 14 Desember 2017** tot **Maandag 05 Februarie 2018** (voor die einde van die werksdag) beskikbaar gemaak sal wees vir openbare oorsig en kommentaar. Gedrukte kopieë van die KBEV's is beskikbaar by die plek wat hieronder genoem word:

PLEK	STRAATADRES	TYE	KONTAKNOMMER
Loeriesfontein Biblioteek	Mainstraat, Loeriesfontein	Maandae – Vrydae 14h00 – 17h00	027 662 8607

Die verslae sowel as die meegaande aanhangsels is ook beskikbaar op SiVEST se webwerf: <http://www.sivest.co.za>. Klik op 'Downloads' en soek dan vir die gids '13622 Mainstream Substations and Power Lines'.

Aangeheg is Engelse en Afrikaanse briewe wat u inlig oor die beskikbaarheid van die verslae, insluitende Kommentaarvorms.

Ons versoek u vriendelik om u kommentaar by die publieke deelnemende kantoor in te dien by die onderstaande besonderhede, voor of op **Maandag 05 Februarie 2018** (voor die einde van die werksdag). SiVEST sal enige kommentaar wat na die openbare kommentaar en oorsigperiode ontvang word, direk aan die betrokke saakbeampste by die Departement van Omgewingsake (DEA) stuur.

Indien u enige vrae of navrae het, moet asseblief nie huiwer om ons te kontak by:

Stephan Jacobs / Hlengiwe Ntuli

Posbus 2921, Rivonia, 2128

Tel – (011) 798 0600

Faks – (011) 803 7272

E-pos – stephanj@sivest.co.za / hlengiwen@sivest.co.za

Vriendelike groete,

Kind Regards

Andrea Gibb

Senior Manager

SiVEST Environmental Division





SIVEST



SIVEST is a Level 3 BBBEE Contributor

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email andreag@sivest.co.za **website** www.sivest.co.za

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Stephan Jacobs

From: Irene Bezuidenhout <iBezuidenhout@biothermenergy.com>
Sent: Friday, December 15, 2017 12:09 PM
To: Stephan Jacobs; Hlengiwe Ntuli
Cc: Andrea Gibb; rebecca.thomas@mainstreamrp.com; Michael Barnes
Subject: RE: 13622 Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein: DBAR Comment Period Starting

Thank you very much Stephan,

We will investigate and provide our comments in the new year.

I go on leave today and will return to the office on the 3rd of January.

Kind regards

Irene Bezuidenhout | Environmental Manager
BioTherm Energy (Pty) Ltd
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Sent: Friday, 15 December, 2017 12:01 PM
To: Irene Bezuidenhout <iBezuidenhout@biothermenergy.com>; Hlengiwe Ntuli <HlengiweN@sivest.co.za>
Cc: Andrea Gibb <AndreaG@sivest.co.za>; rebecca.thomas@mainstreamrp.com; Michael Barnes <mbarnes@biothermenergy.com>
Subject: RE: 13622 Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein: DBAR Comment Period Starting
Importance: High

Hi Irene,

As requested, please find attached KMLs for the proposed substation and power line projects Mainstream are proposing near Loeriesfontein. These substations and power lines will connect the proposed Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom Wind Farms to the national grid at Helios MTS.

Please note that corridor Option 4 is Mainstream's preferred power line corridor option.

Kind Regards,

Stephan Jacobs (B.Sc.(Hons) Environmental Management and Analysis)
Environmental Consultant
SiVEST Environmental Division



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email stephanj@sivest.co.za website www.sivest.co.za

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Sent: Thursday, 14 December, 2017 4:49 PM

Cc: Andrea Gibb <AndreaG@sivest.co.za>; Stephan Jacobs <StephanJ@sivest.co.za>; 'rebecca.thomas@mainstreamrp.com' <rebecca.thomas@mainstreamrp.com>; 'Nicolene Venter' <nicolene@imaginativeafrica.co.za>

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Should you have any questions or queries please do not hesitate to contact us at:

Stephan Jacobs / Hlengiwe Ntuli

PO BOX 2921, Rivonia, 2128

Tel – (011) 798 0600

Fax – (011) 803 7272

Email – stephanj@sivest.co.za / hlengiwen@sivest.co.za

Kind Regards

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Ons lig u graag hiermee in dat die Konsep Basiese Evalueringe (KBEV's) vir die bogenoemde projekte, ooreenkomstig die Nasionale Wet op Omgewingsbestuur (NEMA) (soos gewysig), vanaf **Donderdag 14 Desember 2017**

tot **Maandag 05 Februarie 2018** (voor die einde van die werksdag) beskikbaar gemaak sal wees vir openbare oorsig en kommentaar. Gedrukte kopieë van die KBEV's is beskikbaar by die plek wat hieronder genoem word:

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Indien u enige vrae of navrae het, moet asseblief nie huiwer om ons te kontak by:

Stephan Jacobs / Hlengiwe Ntuli

Posbus 2921, Rivonia, 2128

Tel – (011) 798 0600

Faks – (011) 803 7272

E-pos – stephanj@sivest.co.za / hlengiwen@sivest.co.za

Vriendelike groete,

Kind Regards

Andrea Gibb

Senior Manager

SiVEST Environmental Division





SIVEST



SIVEST is a Level 3 BBBEE Contributor

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email andreag@sivest.co.za **website** www.sivest.co.za

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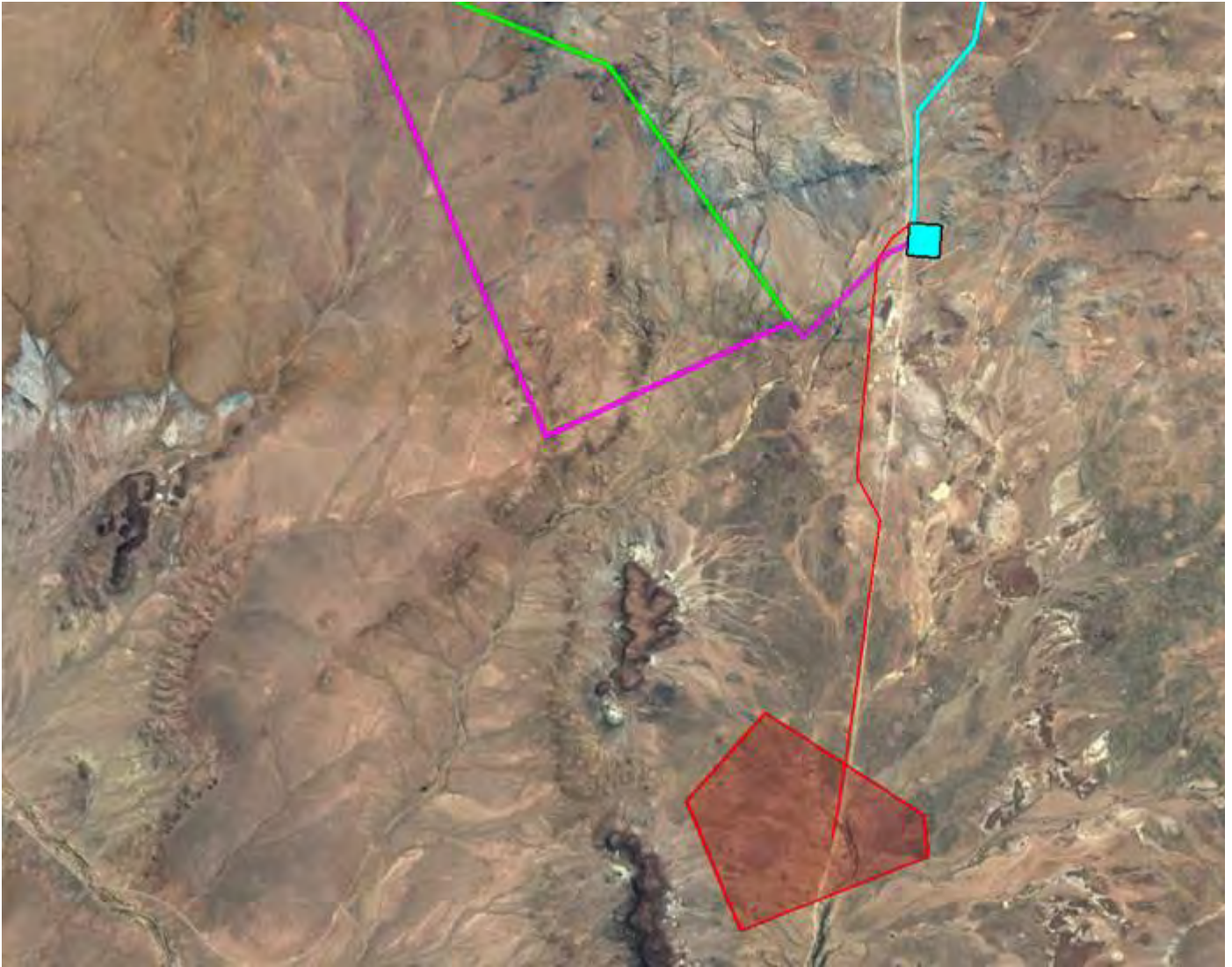
Andrea Gibb

From: Irene Bezuidenhout <iBezuidenhout@biothermenergy.com>
Sent: Monday, 05 February 2018 2:29 PM
To: Stephan Jacobs; Hlengiwe Ntuli
Cc: Andrea Gibb; rebecca.thomas@mainstreamrp.com; Michael Barnes; Tonderai Munthumbira; Armandt Joubert; Daniel Lowings; Zwai Ntuli
Subject: RE: 13622 Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein: DBAR Comment Period Starting
Attachments: BTE Loeriesfontein 70MW PV.KMZ
Categories: Leeuwberg

Dear Stephan,

Thank you for giving us an opportunity to comment on the DBARs for the proposed Mainstream power lines near Loeriesfontein and for providing us with the kmz files.

As mentioned in our previous correspondence, BioTherm Energy has Environmental Authorisation for the proposed Loeriesfontein 70MW PV energy facility (DEA Ref: 12/12/20/2632) on Portion 5 of the Farm Kleine Rooiberg No. 227 as well as Environmental Authorisation for a proposed 132kV power line to link the Loeriesfontein PV facility to the Eskom Helios MTS (DEA Ref: 14/12/16/3/3/1/536) . The power line route is traversing Portion 5 of the Farm Kleine Rooiberg No. 227; Remainder of the Farm Kleine Rooiberg No. 227 and Remainder of the Farm Sous No. 226. Based on a desktop review on Google Earth, it does not appear as if the proposed Mainstream power line options will have any impact to BioTherm Energy's already authorised Loeriesfontein PV Energy facility or its 132kV power line linking to the Helios substation. Please see screenshot below:



The red polygon depicts our authorised PV facility site and the red line depicts the authorised 132kV power line route to Helios substation. There may be line crossings where the power lines have to connect into Helios substation, but I don't foresee that being an issue currently. Discussions can be held between us, Mainstream and Eskom at a later stage when one of the projects advances to being a preferred bidder. I have attached the kmz of our authorised facility area and power line alignment for inclusion into the FBAR. We would appreciate it if our authorised project area and power line route can be taken note of and kept on record during the advancement of the Mainstream projects.

Please don't hesitate to contact me should you wish to discuss our comments in further detail.

Kind regards

Irene Bezuidenhout | Environmental Manager
BioTherm Energy (Pty) Ltd
Building 1, Leslie Ave East Design Quarter District, Fourways
P: +27 (0) 11 367 4600 | F: +27 (0) 11 367 4601 | M:+27 (0) 76 822 3484
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Subject: RE: 13622 Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein: DBAR Comment Period Starting
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Hi Irene,

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Please note that corridor Option 4 is Mainstream's preferred power line corridor option.

Kind Regards,

Stephan Jacobs (*B.Sc.(Hons) Environmental Management and Analysis*)
Environmental Consultant
SIVEST Environmental Division



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From: sivist_PPP [mailto:sivist_ppp@sivest.co.za]

Sent: Thursday, 14 December, 2017 4:49 PM

Cc: Andrea Gibb <AndreaG@sivest.co.za>; Stephan Jacobs <StephanJ@sivest.co.za>; 'rebecca.thomas@mainstreamrp.com' <rebecca.thomas@mainstreamrp.com>; 'Nicolene Venter' <nicolene@imaginativeafrica.co.za>

Subject: 13622 Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein: DBAR Comment Period Starting

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Dear Interested and/or Affected Party,

BASIC ASSESSMENTS (BAS) FOR THE PROPOSED DEVELOPMENT OF THE 132kV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132kV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- **132kV Graskoppies Substations and Power line**
– (DEA Ref No.: To be Announced)

- **132kV Hartebeest Leegte Substations and Power Line**
– (DEA Ref No.: To be Announced)

- **132kV Ithemba Substations and Power Line**
– (DEA Ref No.: To be Announced)

- **132kV !Xha Boom Substations and Power Line**
– (DEA Ref No.: To be Announced)

- **AVAILABILITY OF THE DRAFT BASIC ASSESSMENT REPORTS FOR PUBLIC REVIEW**

SiVEST is in the process of undertaking the Basic Assessments (BAs) for the proposed development of the above mentioned Substations and Power Lines near Loeriesfontein in the Northern Cape Province.

We would like to inform you that, in accordance with the National Environmental Management Act (NEMA) (as amended), the Draft Basic Assessment Reports (DBARs) for the above-mentioned projects will be made available for public review and comment as from **Thursday 14 December 2017** to **Monday 05 February 2018** (before end of business day). Hard copies of the DBARs are available at the following venue:

VENUE	STREET ADDRESS	HOURS	CONTACT NO
Loeriesfontein Library	Main Street, Loeriesfontein	Mondays – Fridays 14h00 – 17h00	027 662 8607

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Attached are English and Afrikaans letters notifying you of the availability of the reports, including Comment Forms.

We kindly request that you submit your comments to Public Participation Office at the below details, on or before **Monday 05 February 2018** (before end of business day). SiVEST will forward any comments received after the public comment and review period directly to the relevant case officer at the Department of Environmental Affairs (DEA).

Should you have any questions or queries please do not hesitate to contact us at:

Stephan Jacobs / Hlengiwe Ntuli

PO BOX 2921, Rivonia, 2128

Tel – (011) 798 0600

Fax – (011) 803 7272

Email – stephanj@sivest.co.za / hlengiwen@sivest.co.za

Kind Regards

ONDERWERP: 13622 Voorgestelde Substasies en Kraglyne vir doe Windplase naby Loeriesfontein: KBEV
Kommentaar Periode Begin

Geagte Belangstellende en/of Geaffekteerde Party,

**BASIESE EVALUERINGS (BE's) VIR DIE BEOOGDE ONTWIKKELING VAN DIE 132KV MAINSTREAM SKAKEL
SUBSTASIE EN VIER (4) 132KV OP PERSEEL ESKOM SUBSTASIES EN KRAGLYNE NABY LOERIESFONTEIN,
NOORD-KAAP PROVINSIE**

- **132kV Graskoppies Substasies en Kraglyn**
– (DEA Verwysings No.: Moet nog aangekondig word)
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– DEA Verwysings No.: Moet nog aangekondig word)
- **132kV !Xha Boom Substasies en Kraglyn**

– DEA Verwysings No.: Moet nog aangekondig word)

• **BESKIKBAARHEID VAN DIE KONSEP BASIESE EVALUERINGSVERSLAE VIR OPENBARE OORSIG**

SiVEST is in die proses om die Basiese Evalueringe (BE's) vir die voorgestelde ontwikkeling van die bogenoemde Substasies en Kraglyne naby Loeriesfontein in die Noord-Kaap Provinsie te onderneem.

Ons lig u graag hiermee in dat die Konsep Basiese Evalueringsverslae (KBEV's) vir die bogenoemde projekte, ooreenkomstig die Nasionale Wet op Omgewingsbestuur (NEMA) (soos gewysig), vanaf **Donderdag 14 Desember 2017 tot Maandag 05 Februarie 2018** (voor die einde van die werksdag) beskikbaar gemaak sal wees vir openbare oorsig en kommentaar. Gedrukte kopieë van die KBEV's is beskikbaar by die plek wat hieronder genoem word:

PLEK	STRAATADRES	TYE	KONTAKNOMMER
Loeriesfontein Biblioteek	Mainstraat, Loeriesfontein	Maandae – Vrydae 14h00 – 17h00	027 662 8607

Die verslae sowel as die meegaande aanhangsels is ook beskikbaar op SiVEST se webwerf: <http://www.sivest.co.za>. Klik op 'Downloads' en soek dan vir die gids '13622 Mainstream Substations and Power Lines'.

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Indien u enige vrae of navrae het, moet asseblief nie huiwer om ons te kontak by:

Stephan Jacobs / Hlengiwe Ntuli

Posbus 2921, Rivonia, 2128

Tel – (011) 798 0600

Faks – (011) 803 7272

E-pos – stephanj@sivest.co.za / hlengiwen@sivest.co.za

Vriendelike groete,

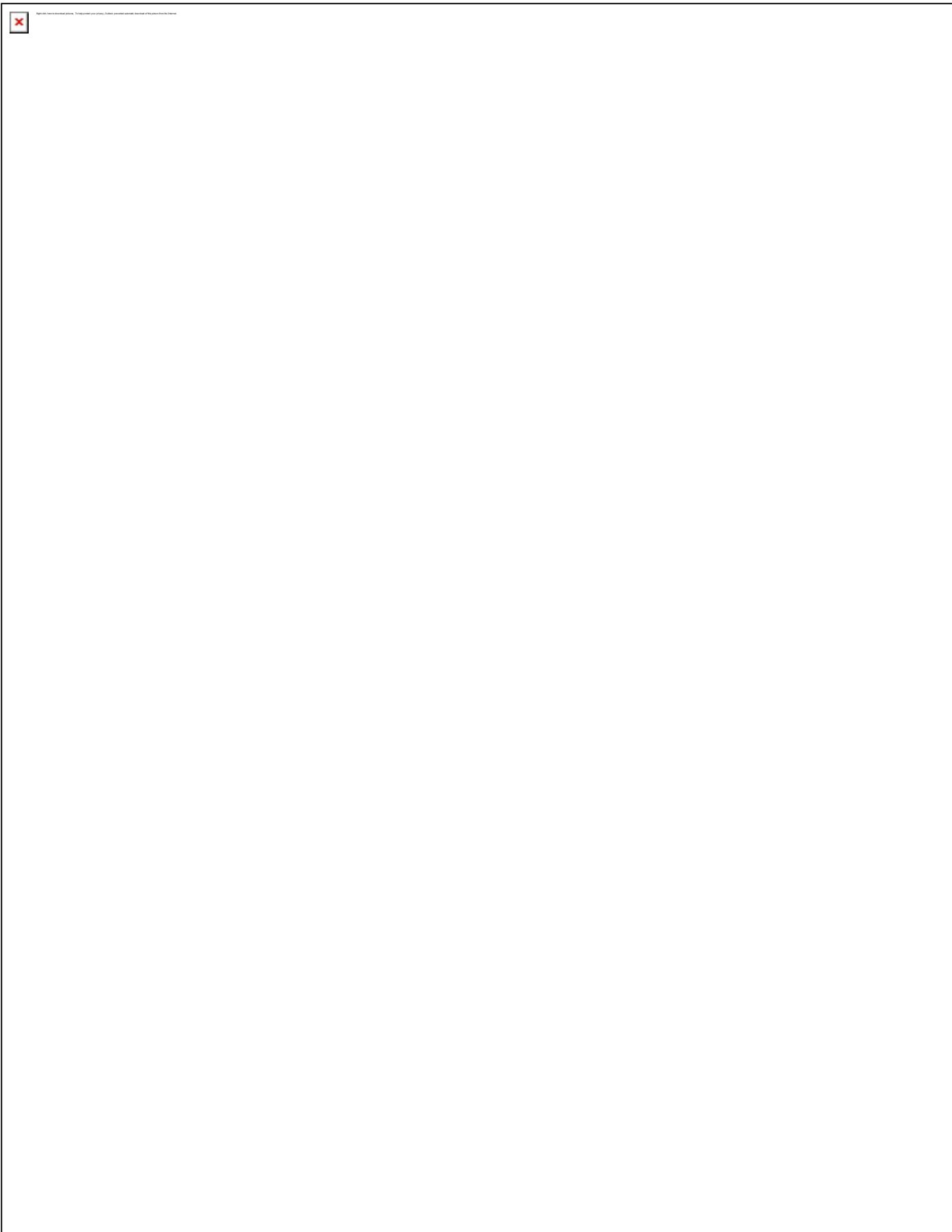
Kind Regards

Andrea Gibb

Senior Manager

SiVEST Environmental Division





SIVEST is a Level 3 BBBEE Contributor

Direct +27 11 798 0638 **Tel** +27 11 798 0600 **fax** +27 11 803 7272
email andreaq@sivest.co.za **website** www.sivest.co.za

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SiVEST Environmental
Att: Stephen Jacobs
P.O. Box 2921
Rivonia
2128
By email: stephanj@sivest.co.za

05 February 2018
Your Reference: 13622-Grid

Dear Mr Jacobs,

COMMENT ON DRAFT BASIC ASSESSMENT REPORTS: PROPOSED DEVELOPMENT OF THE 132KV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132KV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

1. The four draft Basic Assessment Reports (“**BARs**”) for the Graskoppies, Hartbeest Leegte, Ithemba and !Xha Boom on-site substations and 132kV Power Lines, compiled by SiVest on behalf of South Africa Mainstream Renewable Power Developments (Pty) Ltd (hereafter “**the Applicant**”), dated 14 December 2017, have reference.
2. Based on a review of the above-mentioned draft Basic Assessment Reports, it is understood that the Applicant proposes to develop one 132kV overhead line (“**OHL**”) to connect four proposed Wind Farms (the Graskoppies, Hartbeest Leegte, Ithemba and !Xha Boom Wind Farms, hereafter referred to as the “**Mainstream Wind Farms**”¹) to the Eskom Helios Main Transmission Substation (“**Helios**”). Four possible alternative routings for the 132kV OHL have been presented in the draft BARs as Option 1, 2, 3 and 4. It is understood that the four proposed Mainstream Wind Farms would share a single 132kV OHL routing, and that only one of the 4 proposed OHL Options would be developed. A preferred Option for the OHL has not been identified in the draft Basic Assessment Reports.
3. Business Venture Investments No.1788 (Pty) Ltd (“**BVI**”) is a renewable energy developer, and the holder of Environmental Authorisations for the Kokerboom 1 Wind Energy Facility (DEA Reference Number: 14/12/16/3/3/2/985) and the Kokerboom 2 Wind Energy Facility (DEA Reference Number: 14/12/16/3/3/2/986). BVI has further applied to the Department of Environmental Affairs for environmental authorisation for the Kokerboom 3 Wind Energy Facility (DEA Reference: 14/12/16/3/3/2/1009) and a decision on this application is expected imminently.

¹ These projects are currently undergoing Environmental Impact Assessments (DEA Reference Numbers: 14/12/16/3/3/2/1015, 14/12/16/3/3/2/1016, 14/12/16/3/3/2/1017 and 14/12/16/3/3/2/1018).

4. The three Kokerboom Wind Farms are located south-east of the Mainstream Wind Farms on the following properties: the Remainder of Farm Klein Rooiberg No. 227, the Remainder of Farm Leeuwbergvrievier No. 1163, the Remainder of the Farm Springbok Pan No. 1164, the Remainder of Springbok Tand No 215, Portion 1 and 2 of the Farm Karree Doorn Pan No. 214, and the Remainder of the Farm Aan De Karree Doorn Pan No. 213 (hereafter referred to as “**the Kokerboom Properties**”). The location of the Kokerboom Properties relative to the Mainstream Wind Farms and the four proposed 132kV OHL Options are illustrated on the map attached hereto as Annexure A.
5. BVI holds valid leases over the full extent of the Kokerboom properties.
6. Each of the four proposed 132kV OHL Options will traverse the Kokerboom Wind Farms, and would come in close proximity to a number of turbines on the Kokerboom Wind Farms, and would also traverse other infrastructure associated with the Kokerboom Wind Farms, such as internal site roads and cabling. Please refer to the site layouts of the Kokerboom Wind Farms, overlaid with the proposed 132kV OHL routing Options, attached as Annexure B1.
7. It is understood that the proposed 132kV OHL will ultimately be transferred to Eskom to own and operate, and therefore Eskom’s servitude and minimum setback requirements would apply. Eskom requires a 31m wide servitude for a 132kV OHL (15m either side of the OHL), and further requires that a 132kV OHL be setback at least tip-height from all wind turbines. The proposed turbines for the Kokerboom Wind Farms will have a maximum tip height of 225m (150m hub height + 75m blade), as per the Environmental Authorisations received for these projects². A setback distance of at least 240m must therefore be maintained between the proposed 132kV OHL and the Kokerboom turbines (225m tip-height setback + 15m = 240m). The 240m setback that would be required either side of the proposed 132kV OHL is illustrated in Annexure B2.
8. With reference to the map in Annexure B2, it can clearly be seen that there is insufficient space between the Kokerboom turbines to accommodate the proposed 132kV OHL and the required 240m setback. The Kokerboom Wind Farm layouts have been designed so as optimize and maximize the wind resource on site, while minimising the environmental impact, as determined through the Environmental Impact Assessments for these projects. Unfortunately it is not possible for BVI to remove or relocate the affected turbines within the 240m setback distance, as this would result in the turbines being placed in less-optimal³ positions on site, which may reduce the energy production and economic viability of the Kokerboom Wind Farms and

² The Kokerboom 1 and Kokerboom 2 Wind Farms have received Environmental Authorisation for turbines with a maximum tip-height of 225m. For Kokerboom 3, an application for Environmental Authorisation for turbines with a maximum tip-height of 225m is currently with the DEA for decision-making.

³ Both in terms of energy production and environmental sensitivity

negatively affect the competitiveness of the tariff that could be achieved. The relocation of Kokerboom turbines may also result in turbines being located in areas of higher environmental sensitivity, which would not be desirable. It is further noted that the Kokerboom 1 and Kokerboom 2 turbine positions have been authorised by the DEA, while the Kokerboom 3 Wind Farm application is currently pending decision-making with the DEA. Any relocation of turbines would require an amendment to the Environmental Authorisations – with associated time and cost implications.

9. It is also noted that the 240m setback that would be required either side of the proposed 132kV OHL would result in the effective sterilization of a corridor 480m wide over the Kokerboom Properties, within which no turbines could be placed. This would reduce the buildable area available on the Kokerboom Properties, and would materially and negatively impact the development rights that have been conferred upon BVI by virtue of the Environmental Authorisations received for the Kokerboom 1 and Kokerboom 2 Wind Farms, and would also impinge on BVI's future development prospects within their lease area (which encompasses the full extent of the Kokerboom Properties).
10. The impacts to the economic viability of the Kokerboom Wind Farms and BVI's development rights have not been identified or assessed in the draft Basic Assessment Reports.
11. Due to the material negative impacts to the Kokerboom Wind Farm layouts, and the associated decrease in energy production, economic viability and competitiveness of these three projects, as well as the negative impacts to future development prospects on the Kokerboom properties, BVI cannot support any of the four proposed 132kV OHL Options as presented in the draft BARs, and hereby objects to the four applications for Environmental Authorisation for the Graskoppies, Hartbeest Leegte, Ithemba and !Xha Boom 132kV Power Lines.
12. BVI does not wish to be unreasonably obstructive, and recognises the Applicant's need to connect to the Helios substation. BVI is therefore open to engaging with the Applicant in order to identify an alternate routing that would be feasible for the Applicant and which would minimise the impacts to the Kokerboom Wind Farms.
13. BVI recognises that the Applicant has proactively engaged with BVI on this matter, and thanks the Applicant for these positive engagements. During the most recent of these engagements, on Wednesday 24 January 2018, the Applicant proposed a variation of the "Option 4" routing, in which the 132kV OHL would be located on Portion 2 of Farm 213 (2/213) to the east of the Kokerboom properties, in the vicinity of the Kokerboom 3 Wind Farm (refer to Annexure C). Although this variation of Option 4 would still result in some sterilisation of land on BVI's lease area over the Remainder of the Farm Aan De Karree Doorn Pan No. 213 (RE/213), this routing

would allow for a sufficient setback distance to be maintained between the 132kV OHL and the Kokerboom 3 turbines, which would suitably minimise the impact to the Kokerboom 3 Wind Farm.

14. BVI would offer no objection to the alternate Option 4 shown in Annexure C, subject to the consent of the affected Kokerboom land owner (owner of Farm RE/213).
15. The Applicant is advised that in terms of the leases held by BVI over the Kokerboom Properties, BVI's consent is required for the registration of any third-party servitudes over the Kokerboom Properties. The Applicant is therefore encouraged to continue to engage with BVI to identify a final OHL routing that would be supported by BVI, and the affected land owners.
16. BVI hereby requests that the Applicant withdraw the four 132kV routing Options as currently presented in the draft BARs, and furthermore requests that the Applicant revise the Basic Assessment Reports to present the alternate Option 4⁴ (or other routing agreed with BVI) as their preferred alternative for the 132kV OHL, prior to the submission of the reports to the DEA for decision-making.

Regards,



Richard Gordon

Director: Business Venture Investments No 1788 (Pty) Ltd.

⁴ As shown in Annexure C

ANNEXURE A: LOCALITY MAP

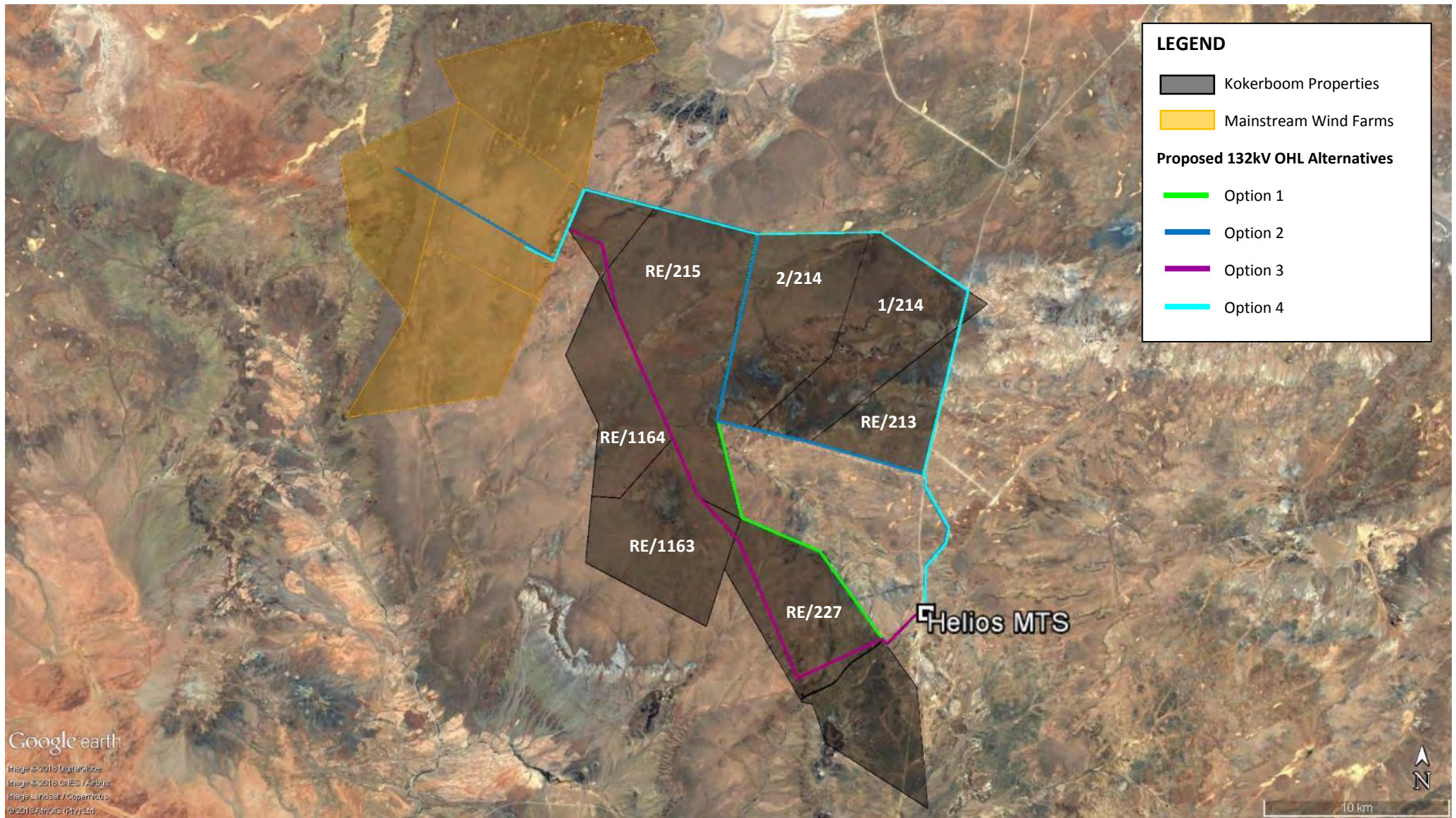


Figure A1: Location of the Kokerboom Wind Farm Properties in relation to the proposed Mainstream Wind Farms (Graskoppies, Hartbeest Leegte, Ithemba and IXha Boom Wind Farms) and the proposed 132kV overhead line (OHL) routing alternatives.

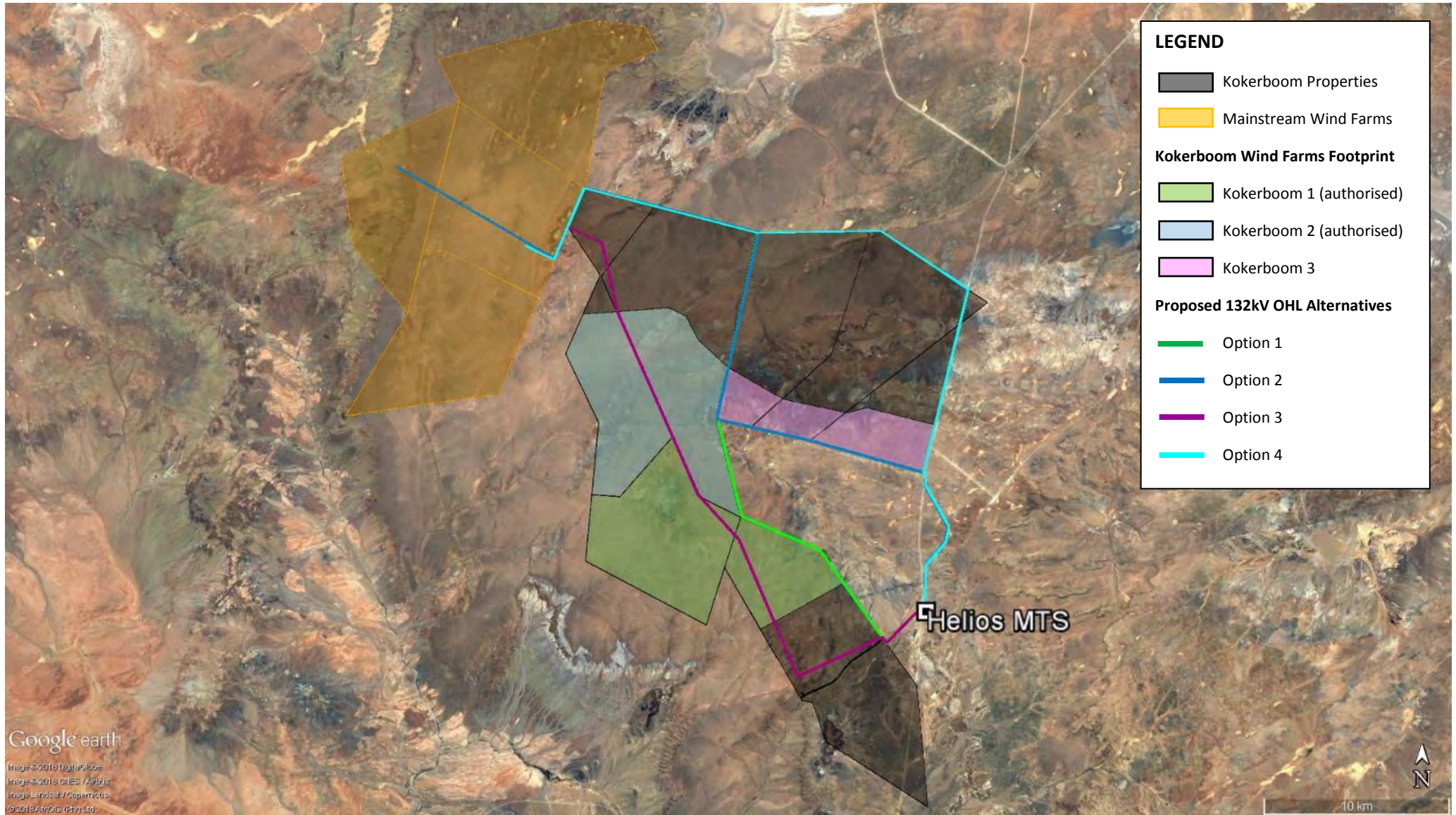


Figure A2: Footprint of the Kokerboom 1, 2 and 3 Wind Farms on the Kokerboom Properties.

ANNEXURE B: SITE LAYOUT

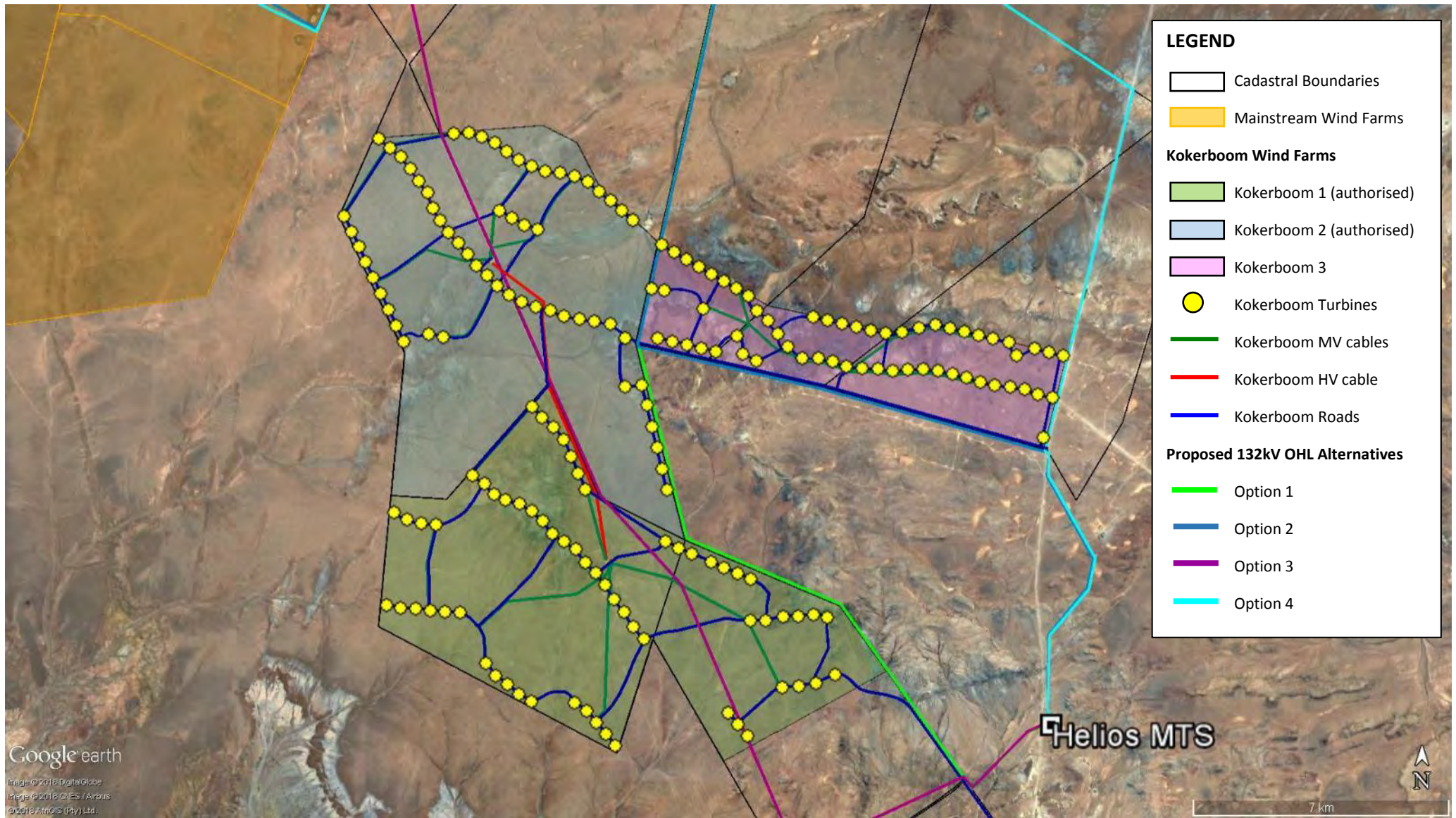


Figure B1: Site layout plan for the Kokerboom 1, 2 and 3 Wind Farms, overlain with the proposed 132kV OHL routing options.

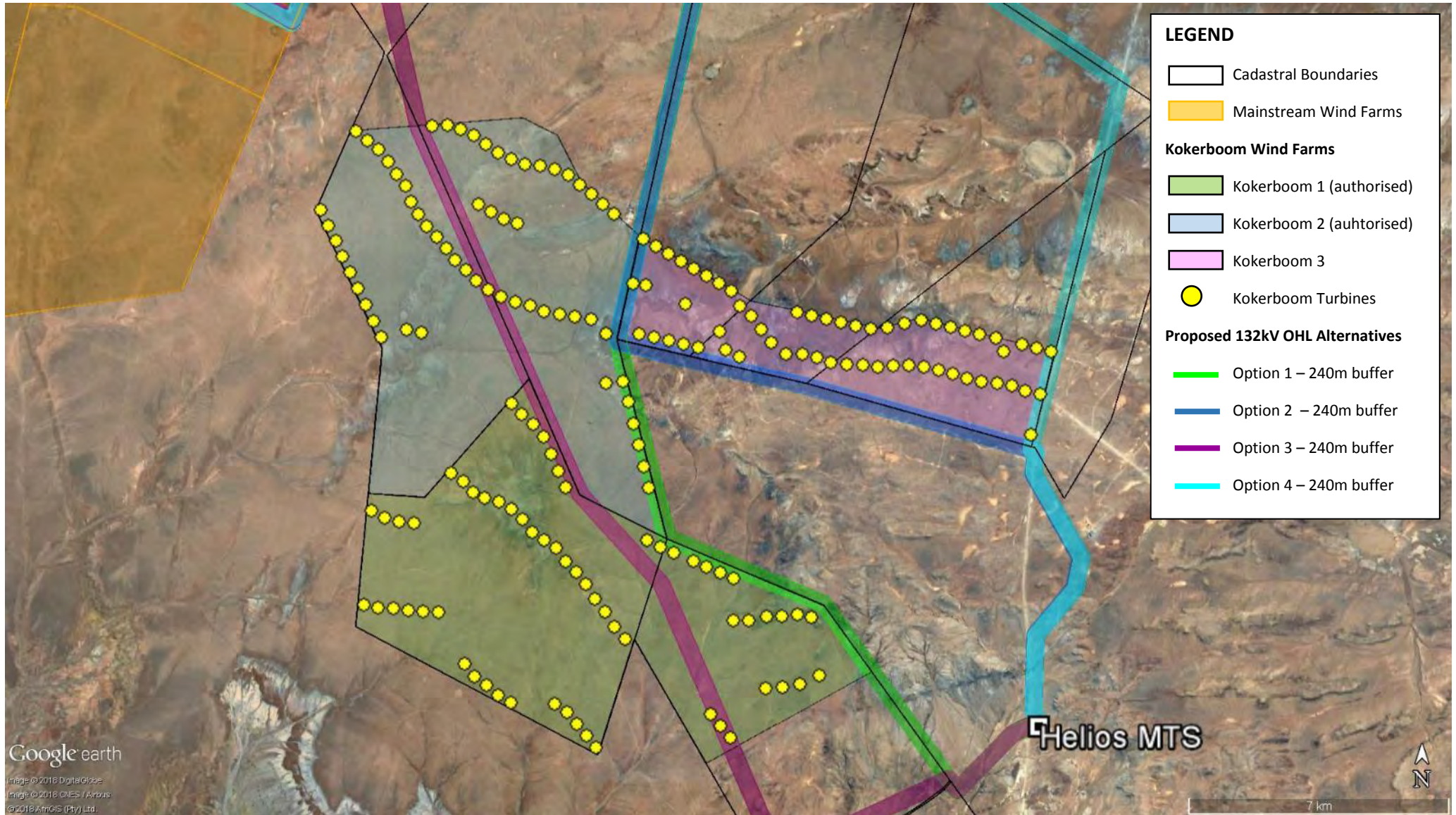


Figure B2: Layout map showing the 240m buffer (setback) that would be required between the proposed 132kV OHL and the Kokerboom Wind Farm Turbines. It can be seen that the required 240m buffer would encroach on numerous Kokerboom Turbines.

ANNEXURE C: ALTERNATIVE OPTION 4

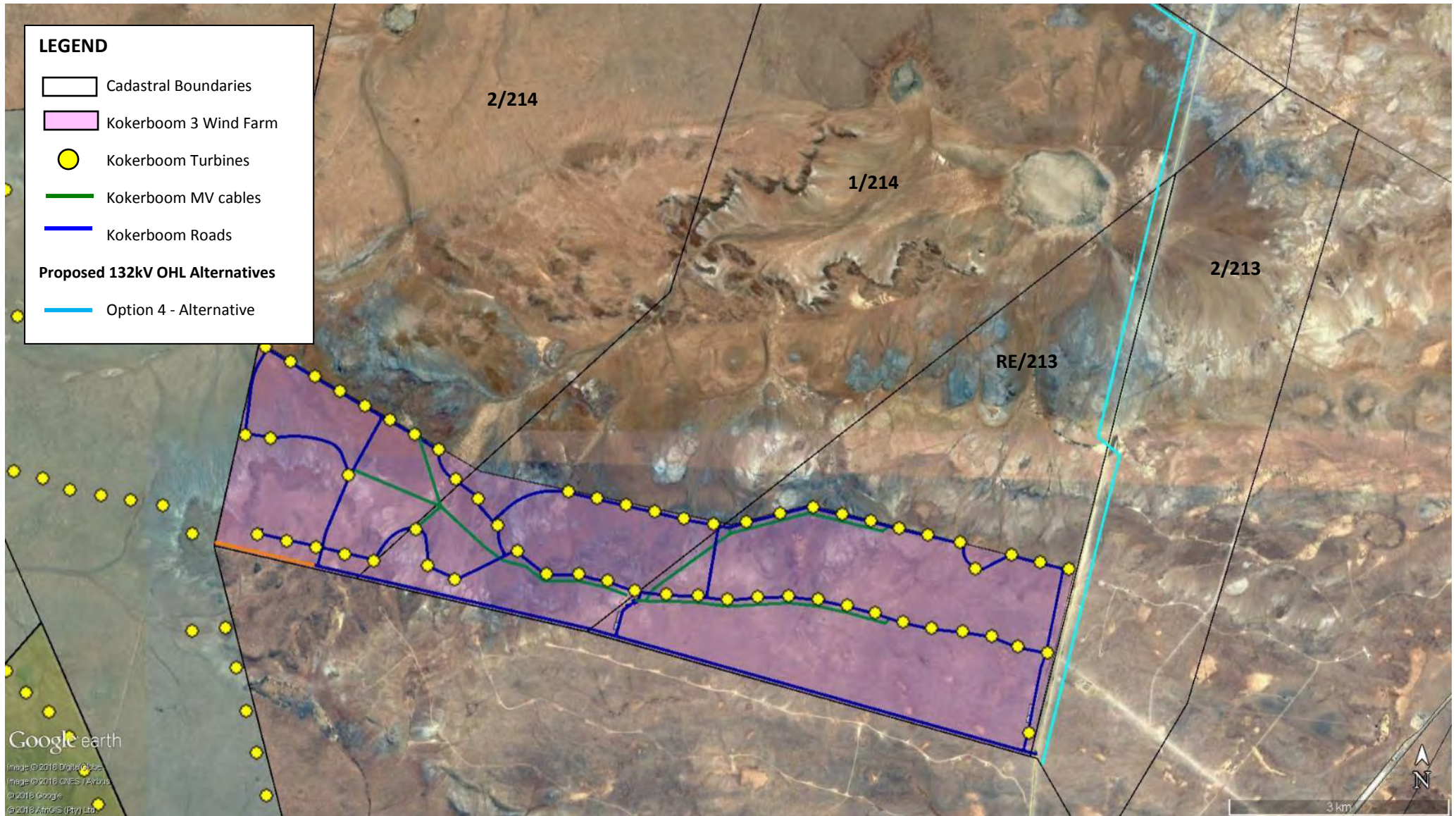


Figure C1: Layout Map showing the proposed “Alternative Option 4” for the 132kV OHL, in which the 132kV is located further to the east of the Kokerboom 3 Wind Farm so as to minimise the impact on the Kokerboom Wind Farm layouts.

Andrea Gibb

From: Stephnie Kot <stephnie.kot@aced.co.za>
Sent: Monday, 05 February 2018 5:02 PM
To: sivist_PPP; Stephan Jacobs
Cc: Andrea Gibb; 'rebecca.thomas@mainstreamrp.com'; Hlengiwe Ntuli; Mary Waller
Subject: RE: Comment on the Draft BAR: Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein
Attachments: 20180205_BVI Comment on Leeuwberg Grid Connection BAR_full.pdf
Categories: Leeuwberg

Good day Stephan,

With reference to the below notification, please find attached comment submitted on behalf of Business Venture Investments No. 1788 (Pty) Ltd, in response to the draft Basic Assessment Reports for the proposed Graskoppies, Haartebeest Leegte, Ithemba and IXha Boom 132kV Powerlines.

Please confirm receipt of the attached, and don't hesitate to contact me should you wish to discuss.

Thank you.

Kind Regards,

Stephnie Kot

o.b.o. Business Venture Investments No. 1788 (Pty) Ltd

Email: stephnie.kot@aced.co.za

Tel: 021 670 1423

Cell: 083 318 3982

From: sivist_PPP [mailto:sivist_ppp@sivist.co.za]
Sent: 14 December 2017 04:49 PM
Cc: Andrea Gibb <AndreaG@sivist.co.za>; Stephan Jacobs <StephanJ@sivist.co.za>; 'rebecca.thomas@mainstreamrp.com' <rebecca.thomas@mainstreamrp.com>; 'Nicolene Venter' <nicolene@imaginativeafrica.co.za>
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– (DEA Ref No.: To be Announced)

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– (DEA Ref No.: To be Announced)

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Stephan Jacobs / Hlengiwe Ntuli

PO BOX 2921, Rivonia, 2128

Tel – (011) 798 0600

Fax – (011) 803 7272

Email – stephanj@sivest.co.za / hlengiwen@sivest.co.za

Kind Regards

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Kommentaar Periode Begin

Geagte Belangstellende en/of Geaffekteerde Party,

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SUBSTASIE EN VIER (4) 132KV OP PERSEEL ESKOM SUBSTASIES EN KRAGLYNE NABY LOERIESFONTEIN,
NOORD-KAAP PROVINSIE**

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– (DEA Verwysings No.: Moet nog aangekondig word)

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- **BESIKBAARHEID VAN DIE KONSEP BASIESE EVALUERINGSVERSLAE VIR OPENBARE OORSIG**

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Ons lig u graag hiermee in dat die Konsep Basiese Evalueringe (KBEV's) vir die bogenoemde projekte, ooreenkomstig die Nasionale Wet op Omgewingsbestuur (NEMA) (soos gewysig), vanaf **Donderdag 14 Desember 2017** tot **Maandag 05 Februarie 2018** (voor die einde van die werksdag) beskikbaar gemaak sal wees vir openbare oorsig en kommentaar. Gedrukte kopieë van die KBEV's is beskikbaar by die plek wat hieronder genoem word:

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Stephan Jacobs / Hlengiwe Ntuli

Posbus 2921, Rivonia, 2128

Tel – (011) 798 0600

Faks – (011) 803 7272

E-pos – stephanj@sivest.co.za / hlengiwen@sivest.co.za

Vriendelike groete,

Kind Regards

Andrea Gibb

Senior Manager

SiVEST Environmental Division





SIVEST is a Level 3 BBBEE Contributor

Direct +27 11 798 0638 **Tel** +27 11 798 0600 **fax** +27 11 803 7272

email andrea@sivest.co.za website www.sivest.co.za

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Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Cape Town - Harare (Zimbabwe)

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Stephan Jacobs

From: Stephnie Kot <stephnie.kot@aced.co.za>
Sent: Tuesday, February 6, 2018 11:23 AM
To: Stephan Jacobs
Cc: Andrea Gibb; 'rebecca.thomas@mainstreamrp.com'; Hlengiwe Ntuli; Mary Waller
Subject: RE: Comment on the Draft BAR: Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein

Follow Up Flag: Follow up
Flag Status: Completed

Hi Stephan,

Thank you for confirming – much appreciated.

Kind Regards,

Stephnie Kot

Email: stephnie.kot@aced.co.za
Tel: 021 670 1423
Cell: 083 318 3982

From: Stephan Jacobs [<mailto:StephanJ@sivest.co.za>]
Sent: 05 February 2018 07:17 PM
To: Stephnie Kot <stephnie.kot@aced.co.za>
Cc: Andrea Gibb <AndreaG@sivest.co.za>; 'rebecca.thomas@mainstreamrp.com' <rebecca.thomas@mainstreamrp.com>; Hlengiwe Ntuli <HlengiweN@sivest.co.za>; Mary Waller <Mary.Waller@aced.co.za>
Subject: [EXTERNAL] RE: Comment on the Draft BAR: Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein
Importance: High

This Message originated outside your organisation.

Good day Stephnie,

Comments received. Thank you very much for these.

We will make sure that the comments are brought to Mainstream's attention for consideration and are incorporated into the Final Basic Assessment Reports (FBARs) for the respective projects.

Kind Regards,

Stephan Jacobs (*B.Sc.(Hons) Environmental Management and Analysis*)
Environmental Consultant
SiVEST Environmental Division



SIVEST is a Level 3 BBBEE Contributor

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Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners - Quality Management Consultants
Durban - Johannesburg - Pretoria - Pietermaritzburg - Richards Bay - Port Louis (Mauritius)

From: Stephnie Kot [<mailto:stephnie.kot@aced.co.za>]
Sent: Monday, February 5, 2018 5:02 PM
To: sivest_PPP; Stephan Jacobs
Cc: Andrea Gibb; 'rebecca.thomas@mainstreamrp.com'; Hlengiwe Ntuli; Mary Waller
Subject: RE: Comment on the Draft BAR: Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein

Good day Stephan,

With reference to the below notification, please find attached comment submitted on behalf of Business Venture Investments No. 1788 (Pty) Ltd, in response to the draft Basic Assessment Reports for the proposed Graskoppies, Haartebeest Leegte, Ithemba and !Xha Boom 132kV Powerlines.

Please confirm receipt of the attached, and don't hesitate to contact me should you wish to discuss.

Thank you.

Kind Regards,

Stephnie Kot

o.b.o. Business Venture Investments No. 1788 (Pty) Ltd

Email: stephnie.kot@aced.co.za

Tel: 021 670 1423

Cell: 083 318 3982

From: sivest_PPP [mailto:sivest_ppp@sivest.co.za]
Sent: 14 December 2017 04:49 PM
Cc: Andrea Gibb <AndreaG@sivest.co.za>; Stephan Jacobs <StephanJ@sivest.co.za>; 'rebecca.thomas@mainstreamrp.com' <rebecca.thomas@mainstreamrp.com>; 'Nicolene Venter' <nicolene@imaginativeafrica.co.za>
Subject: 13622 Proposed Substations and Power Lines for the Wind Farms near Loeriesfontein: DBAR Comment Period Starting

******* Please note that this email was sent from a NO REPLY email address. Please do not reply to this address as it is an unmonitored email account.*******

Dear Interested and/or Affected Party,

BASIC ASSESSMENTS (BAS) FOR THE PROPOSED DEVELOPMENT OF THE 132kV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132kV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- **132kV Graskoppies Substations and Power line**
– (DEA Ref No.: To be Announced)
- **132kV Hartebeest Leegte Substations and Power Line**
– (DEA Ref No.: To be Announced)
- **132kV Ithemba Substations and Power Line**
– (DEA Ref No.: To be Announced)
- **132kV !Xha Boom Substations and Power Line**
– (DEA Ref No.: To be Announced)

- **AVAILABILITY OF THE DRAFT BASIC ASSESSMENT REPORTS FOR PUBLIC REVIEW**

SiVEST is in the process of undertaking the Basic Assessments (BAs) for the proposed development of the above mentioned Substations and Power Lines near Loeriesfontein in the Northern Cape Province.

We would like to inform you that, in accordance with the National Environmental Management Act (NEMA) (as amended), the Draft Basic Assessment Reports (DBARs) for the above-mentioned projects will be made available for public review and comment as from **Thursday 14 December 2017** to **Monday 05 February 2018** (before end of business day). Hard copies of the DBARs are available at the following venue:

VENUE	STREET ADDRESS	HOURS	CONTACT NO
Loeriesfontein Library	Main Street, Loeriesfontein	Mondays – Fridays 14h00 – 17h00	027 662 8607

The reports as well as the accompanying appendices are also available on SiVEST's website: <http://www.sivest.co.za/>, click on downloads, then browse to the folder '*13622 Mainstream Substations and Power Lines*'.

Attached are English and Afrikaans letters notifying you of the availability of the reports, including Comment Forms.

We kindly request that you submit your comments to Public Participation Office at the below details, on or before **Monday 05 February 2018** (before end of business day). SiVEST will forward any comments received after the public comment and review period directly to the relevant case officer at the Department of Environmental Affairs (DEA).

Should you have any questions or queries please do not hesitate to contact us at:

Stephan Jacobs / Hlengiwe Ntuli
PO BOX 2921, Rivonia, 2128
Tel – (011) 798 0600
Fax – (011) 803 7272

Kind Regards

ONDERWERP: 13622 Voorgestelde Substasies en Kraglyne vir doe Windplase naby Loeriesfontein: KBEV Kommentaar Periode Begin

Geagte Belangstellende en/of Geaffekteerde Party,

BASIESE EVALUERINGS (BE's) VIR DIE BEOOGDE ONTWIKKELING VAN DIE 132KV MAINSTREAM SKAKEL SUBSTASIE EN VIER (4) 132KV OP PERSEEL ESKOM SUBSTASIES EN KRAGLYNE NABY LOERIESFONTEIN, NOORD-KAAP PROVINSIE

- **132kV Graskoppies Substasies en Kraglyn**
– (DEA Verwysings No.: Moet nog aangekondig word)
- **132kV Hartbeest Leegte Substasies en Kraglyn**
– (DEA Verwysings No.: Moet nog aangekondig word)
- **132kV Ithemba Substasies en Kraglyn**
– DEA Verwysings No.: Moet nog aangekondig word)
- **132kV !Xha Boom Substasies en Kraglyn**
– DEA Verwysings No.: Moet nog aangekondig word)
- **BESKIKBAARHEID VAN DIE KONSEP BASIESE EVALUERINGSVERSLAE VIR OPENBARE OORSIG**

SiVEST is in die proses om die Basiese Evalueringe (BE's) vir die voorgestelde ontwikkeling van die bogenoemde Substasies en Kraglyne naby Loeriesfontein in die Noord-Kaap Provinsie te onderneem.

Ons lig u graag hiermee in dat die Konsep Basiese Evalueringsverslae (KBEV's) vir die bogenoemde projekte, ooreenkomstig die Nasionale Wet op Omgewingsbestuur (NEMA) (soos gewysig), vanaf **Donderdag 14 Desember 2017** tot **Maandag 05 Februarie 2018** (voor die einde van die werksdag) beskikbaar gemaak sal wees vir openbare oorsig en kommentaar. Gedrukte kopieë van die KBEV's is beskikbaar by die plek wat hieronder genoem word:

PLEK	STRAATADRES	TYE	KONTAKNOMMER
Loeriesfontein Biblioteek	Mainstraat, Loeriesfontein	Maandae – Vrydae 14h00 – 17h00	027 662 8607

Die verslae sowel as die meegaande aanhangsels is ook beskikbaar op SiVEST se webwerf: <http://www.sivest.co.za>. Klik op 'Downloads' en soek dan vir die gids '13622 Mainstream Substations and Power Lines'.

Aangeheg is Engelse en Afrikaanse briewe wat u inlig oor die beskikbaarheid van die verslae, insluitende Kommentaarvorms.

Ons versoek u vriendelik om u kommentaar by die publieke deelnemende kantoor in te dien by die onderstaande besonderhede, voor of op **Maandag 05 Februarie 2018** (voor die einde van die werksdag). SiVEST sal enige kommentaar wat na die openbare kommentaar en oorsigperiode ontvang word, direk aan die betrokke saakbeampste by die Departement van Omgewingsake (DEA) stuur.

Indien u enige vrae of navrae het, moet asseblief nie huiwer om ons te kontak by:

Stephan Jacobs / Hlengiwe Ntuli

Posbus 2921, Rivonia, 2128

Tel – (011) 798 0600

Faks – (011) 803 7272

E-pos – stephanj@sivest.co.za / hlengiwen@sivest.co.za

Vriendelike groete,

Kind Regards

Andrea Gibb

Senior Manager

SiVEST Environmental Division





SIVEST



SIVEST is a Level 3 BBBEE Contributor

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Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners
Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Cape Town - Harare (Zimbabwe)

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Appendix 7E
Comments and Response Report

BASIC ASSESSMENT (BA) AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr)

COMMENTS AND RESPONSES REPORT – FINAL BASIC ASSESSMENT REPORT

**PROPOSED CONSTRUCTION OF THE GRASKOPPIES ON-SITE EKSOM SUBSTATION,
LINKING SUBSTATION AND ASSOCIATED 132KV POWER LINE NEAR LOERIESFONTEIN,
NORTHERN CAPE PROVINCE**

**SUMMARY OF ENVIRONMENTAL ISSUES/CONCERNS AND SUGGESTIONS RAISED BY INTERESTED
AND/OR AFFECTED PARTIES (I&APS)**

October 2016 – February 2018

Stakeholders who contributed issues ranging across all sectors of society are recorded in this Comments and Responses Report (C&RR). Full record of every issue raised is available from the public participation office and is also included in **Appendix 7D** of the Final Basic Assessment Report (FBAR). The name, affiliation and date of the commentator are also indicated. Technical comments made by the project team are not included in the C&RR. Comments made at the Landowner Focus Group Meeting (FGM) as well as the actual responses provided at this meeting are included within this C&RR.

INDEX TO ISSUES IN THIS TABLE

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ABBREVIATIONS

BA	Basic Assessment
DBAR	Draft Basic Assessment Report
EIA	Environmental Impact Assessment
EMPr	Environmental Management Programme
FBAR	Final Basic Assessment Report
HIA	Heritage Impact Assessment
I&AP	Interested and/or Affected Party
MW	Megawatt
NC DRPW	Northern Cape Department of Roads and Public Works
PIA	Palaeontological Impact Assessment
SAAO	South African Astronomical Observatory
SAHRA	South African Heritage Resources Agency
SAHRIS	South African Heritage Resources Information System
VIA	Visual Impact Assessment
WEF	Wind Energy Facility

Issue/Comment	Raised By	Response
1 STAKEHOLDER / I&AP RELATED COMMENTS/ ISSUES		
1.1 Project Related Comments/Issues		
It was recommended that authorised power line routes for other projects be investigated in the EIA / BA.	Siphelele Dunga BioTherm Energy Registration and Comment Form: 09 February 2017	Mr. Dunga’s recommendation was duly noted. Authorised power line routes for other projects were taken into account as part of the BA process for the proposed on-site Eskom Substation, Linking Substation and Power Line Routes. Andrea Gibb, SiVEST
Recommended that a rehabilitation or relocation plan (depending on feasibility) be investigated in the EIA / BA. The removal of plant species from the proposed areas should take place prior to construction commencing. These plant species should be grown ex-situ (via a nursery which will create employment opportunities) and then relocated after construction has been completed.	Jeannette-Anne Steenkamp Registered I&AP: Municipal Council Registration and Comment Form: 25 March 2017	Mrs. Steenkamp’s comments were duly noted and were forwarded to Mainstream as well as the Biodiversity Specialist for consideration. The Biodiversity Specialist Assessment has addressed these issues and has made similar recommendations. These recommendations have been included in the EMPr where necessary. The Biodiversity Specialist Assessment is included in Appendix 6A of the DBAR. Andrea Gibb, SiVEST
Recommended that preference be given to conservation organisations to remove seeds, cuttings and plants prior to construction commencing for conservation purposes.	Jeannette-Anne Steenkamp Registered I&AP: Municipal Council Registration and Comment Form: 25 March 2017	Mrs. Steenkamp’s comment was duly noted and were forwarded to Mainstream and the Biodiversity Specialist for consideration. This were further explored during the BA process and included in the EMPr where necessary. Andrea Gibb, SiVEST
The project team was informed that the water source in the area is very low and under extreme strain.	Albie Louw Landowner: Hartebeest Leegte Landowner FGM: 01 November 2017	Water source is one of the main concerns that is being assessed and needs to be addressed. Currently a combination of solutions (i.e. boreholes and “trucking-in”) of sourcing water are being considered. A full water study will be undertaken. It was also mentioned that from an engineering point of view this problem could be solved from a designing point of view. Rebecca Thomas, Mainstream Renewable

Issue/Comment	Raised By	Response
1 STAKEHOLDER / I&AP RELATED COMMENTS/ ISSUES		
It was enquired where the construction workers will be housed, as it seems that Kliprand is closer than Loeriesfontein.		All towns within the Local Municipality will be considered for the housing of construction workers. Although Kliprand is the nearest town, the infrastructure will have to be assessed as to whether it can accommodate all construction workers. Rebecca Thomas, Mainstream Renewable
It was enquired whether a Mainstream Employee will be permanently based in Loeriesfontein.		Mainstream will ensure an employee is permanently based in Loeriesfontein during the lifetime of the operational projects. This will include the plant managers as well as a community liaison representative. Rebecca Thomas, Mainstream Renewable
It was enquired how the power connection is being proposed from the development on his property to the Helios SS.		The power lines are being assessed as part of a separate Basic Assessment (BA) process. A detailed routing has not yet been determined, but the corridor as presented, in consultation with the Landowners, will be submitted to the DEA for decision-making. Rebecca Thomas, Mainstream Renewable
It was recommended that should there be a need for any changes on the property i.e. new access road, etc., that this be discussed with the LO.		It was confirmed that should there be any changes on properties, these will be done in liaison with the registered Landowner. Rebecca Thomas, Mainstream Renewable
It was enquired whether the Helios SS has sufficient capacity to carry all the proposed renewable energy projects in the area.		Currently Helios SS has sufficient capacity to connect several renewable energy projects, including the 4 proposed Leeuwberg projects. Rebecca Thomas, Mainstream Renewable
It was asked who will be responsible for maintaining the farm fence of the farm as well as that of the substations being proposed on the property.	Burden, Hein Landowner: Georgs Vley Landowner FGM: 01 November 2017	This will be the responsibility of Mainstream, in consultation with the landowner. Rebecca Thomas, Mainstream Renewable

Issue/Comment	Raised By	Response
1 STAKEHOLDER / I&AP RELATED COMMENTS/ ISSUES		
<p>Mrs. Bezuidenhout requested that SiVEST provide her with a kmz file for the proposed power line route options in order for BioTherm to provide comment if necessary. It was stated that BioTherm Energy has an EA for the proposed 70MW Loeriesfontein PV facility and a separate EA for a 132kV power line to Helios substation, and therefore they need to confirm whether the proposed power line routes will impact on our authorised site and layout and/or authorised route alignment to Helios substation.</p> <p>BioTherm further stated that they understand that the Independent Power Producers' (IPPs') infrastructure have to coexist and that they need to come up with an optimal solution which will suit all parties should there be a potential impact to their authorised infrastructure.</p>	<p>Irene Bezuidenhout Environmental Manager BioTherm Energy Email: 15 December 2017</p>	<p>The requested kmz files were sent to BioTherm by SiVEST on the 15th of December 2017 as requested. Proof of this is included in Appendix 7D. In addition, BioTherm's comments were duly noted and were forwarded to Mainstream for consideration. It should be noted that Mainstream will continue to engage with surrounding developers / IPPs throughout the project in order to ensure that there are no potential issues.</p> <p>Stephan Jacobs, SiVEST</p>
<p>BioTherm thanked SiVEST for giving them an opportunity to comment on the DBARs for the proposed Mainstream power lines near Loeriesfontein and for providing them with the kmz files for these. Following the submission of the kmz files, BioTherm provided the following comments:</p> <p>As mentioned in our previous correspondence, BioTherm Energy has Environmental Authorisation (EA) for the proposed Loeriesfontein 70MW PV energy facility (DEA Ref: 12/12/20/2632) on Portion 5 of the Farm Kleine Rooiberg No. 227 as well as Environmental Authorisation (EA) for a proposed 132kV power line to link the Loeriesfontein PV facility to the Eskom Helios MTS (DEA Ref: 14/12/16/3/3/1/536). The power line route is traversing Portion 5 of the Farm Kleine Rooiberg No. 227; Remainder of the Farm Kleine</p>	<p>Irene Bezuidenhout Environmental Manager BioTherm Energy Email: 05 February 2018</p>	<p>BioTherm's authorised project area and power line route have been forwarded to Mainstream to consider / take note of. In addition, this information will be kept on record during the advancement of the Mainstream projects. Mainstream will also continue to engage with surrounding developers / IPPs throughout the project in order to ensure that there are no potential issues.</p> <p>It should be noted that Mainstream have determined that the preferred power line corridor (i.e. Option 4) would not impact on other proposed power lines into Helios and would thus be an acceptable power line corridor from environmental and technical perspectives. Please also state that Mainstream will continue to</p>

Issue/Comment	Raised By	Response
1 STAKEHOLDER / I&AP RELATED COMMENTS/ ISSUES		
<p>Rooiberg No. 227 and Remainder of the Farm Sous No. 226. Based on a desktop review on Google Earth, it does not appear as if the proposed Mainstream power line options will have any impact to BioTherm Energy's already authorised Loeriesfontein PV Energy facility or its 132kV power line linking to the Helios substation:</p> <p>The red polygon (screenshot provided in email – Refer to Appendix 7D for email with screenshot) depicts our authorised PV facility site and the red line depicts the authorised 132kV power line route to Helios substation. There may be line crossings where the power lines have to connect into Helios substation, but I don't foresee that being an issue currently. Discussions can be held between us, Mainstream and Eskom at a later stage when one (1) of the projects advances to being a preferred bidder. I have attached the kmz of our authorised facility area and power line alignment for inclusion into the FBAR. We would appreciate it if our authorised project area and power line route can be taken note of and kept on record during the advancement of the Mainstream projects.</p>		<p>engage with BioTherm regarding this issue as the project advances.</p> <p>Stephan Jacobs, SiVEST</p>
<p>A comment letter was submitted on behalf of Business Venture Investments No. 1788 (Pty) Ltd (hereafter referred to as "BVI") in response to the DBAR for the proposed On-site Eskom Substation, Linking Substation and associated 132kV Power Line development. The comment letter (along with all annexures) is provided in Appendix 7D of the FBAR.</p> <p>The following comments were provided:</p>	<p>Stephnie Kot Project Manager: Renewable Energy Project Development Email: 05 February 2018</p>	<p>The comments received on behalf of BVI are duly noted and were forwarded to Mainstream for consideration. After consulting with Mainstream, SiVEST subsequently provided a response to these comments via email. A copy of the response from SiVEST is included in Appendix 7D of the FBAR. Please see below for the response which was provided.</p> <ul style="list-style-type: none"> ▪ BVI is the holder of Environmental Authorisations (EAs) for the Kokerboom 1 and Kokerboom 2 Wind Energy Facilities

Issue/Comment	Raised By	Response
1 STAKEHOLDER / I&AP RELATED COMMENTS/ ISSUES		
<ul style="list-style-type: none"> ▪ Based on a review of the above-mentioned draft Basic Assessment Reports, it is understood that the Applicant proposes to develop one 132kV overhead line (“OHL”) to connect four proposed Wind Farms (the Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom Wind Farms, hereafter referred to as the “Mainstream Wind Farms”) to the Eskom Helios Main Transmission Substation (“Helios”). Four possible alternative routings for the 132kV OHL have been presented in the draft BARs as Option 1, 2, 3 and 4. It is understood that the four proposed Mainstream Wind Farms would share a single 132kV OHL routing, and that only one of the 4 proposed OHL Options would be developed. A preferred Option for the OHL has not been identified in the draft Basic Assessment Reports. ▪ Business Venture Investments No.1788 (Pty) Ltd (“BVI”) is a renewable energy developer, and the holder of Environmental Authorisations for the Kokerboom 1 Wind Energy Facility (DEA Reference Number: 14/12/16/3/3/2/985) and the Kokerboom 2 Wind Energy Facility (DEA Reference Number: 14/12/16/3/3/2/986). BVI has further applied to the Department of Environmental Affairs for environmental authorisation for the Kokerboom 3 Wind Energy Facility (DEA Reference: 14/12/16/3/3/2/1009) and a decision on this application is expected imminently. ▪ The three Kokerboom Wind Farms are located south-east of the Mainstream Wind Farms on the following properties: the 		<p>(WEFs) and has further applied to the Department of Environmental Affairs (DEA) for EA for the proposed Kokerboom 3 WEF. BVI have stated that each of the four (4) proposed power line corridor alternatives (i.e. Option 1, 2, 3 and 4) being proposed as part of the above-mentioned proposed Mainstream developments will traverse the Kokerboom WEFs, would come in close proximity to a number of turbines on the Kokerboom WEFs, and would also traverse other infrastructure associated with the Kokerboom WEFs (such as internal site roads and cabling). BVI have thus raised an objection to the proposed power line corridor alternatives and have suggested that a variation of the routing for Option 4 be considered by Mainstream. This variation in routing would allow for a sufficient setback distance to be maintained between the proposed power line and the turbines of the Kokerboom 3 WEF, which would suitably minimise the impact to this facility. BVI would thus offer no objection should Mainstream consider the variation to Option 4 as suggested.</p> <p>Mainstream acknowledges that for Option 1, 2 and 3, based on a 240m setback, certain turbines of BVI’s Kokerboom 1 and Kokerboom 2 WEFs would need to be moved to allow for the routing of the power line. Mainstream also acknowledges that the placement of turbines is done using a very sophisticated method of modelling, to determine the most optimal layout, for the greatest energy yield. Specific</p>

Issue/Comment	Raised By	Response
1 STAKEHOLDER / I&AP RELATED COMMENTS/ ISSUES		
<p>Remainder of Farm Klein Rooiberg No. 227, the Remainder of Farm Leeuwberggrivier No. 1163, the Remainder of the Farm Springbok Pan No. 1164, the Remainder of Springbok Tand No 215, Portion 1 and 2 of the Farm Karree Doorn Pan No. 214, and the Remainder of the Farm Aan De Karree Doorn Pan No. 213 (hereafter referred to as “the Kokerboom Properties”). The location of the Kokerboom Properties relative to the Mainstream Wind Farms and the four proposed 132kV OHL Options are illustrated on the map attached hereto as Annexure A.</p> <ul style="list-style-type: none"> ▪ BVI holds valid leases over the full extent of the Kokerboom properties. ▪ Each of the four proposed 132kV OHL Options will traverse the Kokerboom Wind Farms, and would come in close proximity to a number of turbines on the Kokerboom Wind Farms, and would also traverse other infrastructure associated with the Kokerboom Wind Farms, such as internal site roads and cabling. Please refer to the site layouts of the Kokerboom Wind Farms, overlaid with the proposed 132kV OHL routing Options, attached as Annexure B1. ▪ It is understood that the proposed 132kV OHL will ultimately be transferred to Eskom to own and operate, and therefore Eskom’s servitude and minimum setback requirements would apply. Eskom requires a 31m wide servitude for a 132kV OHL (15m either side of the OHL), and further requires that a 132kV OHL be 		<p>layouts have thus been proposed for the Kokerboom 1 and Kokerboom 2 WEFs and these facilities have subsequently received EAs based on these layouts. In light of the above, and also by taking the environmental findings and sensitivities into consideration, power line corridor Option 1, 2 and 3 are considered less feasible and will therefore no longer be considered as preferred alternatives for the grid connection.</p> <p>It should however be noted that based on a setback distance of 240m, Mainstream can still route the proposed power line within the assessed corridor for Option 4 without impacting on the turbines for the proposed Kokerboom 3 WEF. A map and KML file illustrating this has been attached to this email. Through this approach and by ensuring a setback distance of 240m, Mainstream can avoid impacting the proposed Kokerboom 3 WEF negatively. Mainstream is of the opinion the corridor assessed can suitably accommodate the alternative Option 4 as suggested in BVI’s comment letter and there will be no need to present this as a ‘new’ alternative, but rather a preferred routing within Option 4. Therefore Option 4 will be presented as the preferred alternative in the FBAR.</p> <p>Mainstream have continuously engaged with BVI with regards to this issue and are of the opinion that BVI’s development rights have been considered. Furthermore,</p>

Issue/Comment	Raised By	Response
1 STAKEHOLDER / I&AP RELATED COMMENTS/ ISSUES		
<p>setback at least tip-height from all wind turbines. The proposed turbines for the Kokerboom Wind Farms will have a maximum tip height of 225m (150m hub height + 75m blade), as per the Environmental Authorisations received for these projects. A setback distance of at least 240m must therefore be maintained between the proposed 132kV OHL and the Kokerboom turbines (225m tip-height setback + 15m = 240m). The 240m setback that would be required either side of the proposed 132kV OHL is illustrated in Annexure B2.</p> <ul style="list-style-type: none"> ▪ With reference to the map in Annexure B2, it can clearly be seen that there is insufficient space between the Kokerboom turbines to accommodate the proposed 132kV OHL and the required 240m setback. The Kokerboom Wind Farm layouts have been designed so as optimize and maximize the wind resource on site, while minimising the environmental impact, as determined through the Environmental Impact Assessments for these projects. Unfortunately it is not possible for BVI to remove or relocate the affected turbines within the 240m setback distance, as this would result in the turbines being placed in less-optimal positions on site, which may reduce the energy production and economic viability of the Kokerboom Wind Farms and negatively affect the competitiveness of the tariff that could be achieved. The relocation of Kokerboom turbines may also result in turbines being located in areas of higher environmental sensitivity, which would not be desirable. It is further noted that the Kokerboom 1 and Kokerboom 2 turbine positions have been authorised by the 		<p>Mainstream is continuing to consider such rights, through actively ensuring a suitable alignment within the assessed corridor Option 4 will adhere to BVIs requirements.</p> <ul style="list-style-type: none"> ▪ BVI stated that the impacts to the economic viability of the Kokerboom Wind Farms and BVI's development rights have not been identified or assessed in the DBARs. <p>It should be noted that the Socio-Economic Specialist Assessment of the proposed power line corridor alternatives was undertaken in July in 2017, during which time the Environmental Impact Assessments (EIAs) for the proposed Kokerboom WEFs were still underway and the EAs had not been issued for these projects. No issues were raised by the adjacent developer during this time and therefore no negative Socio-Economic issues which would prevent the development of the proposed power line corridor alternatives were identified based on the information available at the time of the study. In addition, the positions of the proposed turbines were not finalised and available at this time, and therefore could not be considered in the Socio-Economic Assessment. Correspondence from Aurecon, the Environmental Assessment Practitioner (EAP) which was appointed by BVI to undertake the EIAs for the proposed Kokerboom WEFs, showing that that the Final Environmental Impact Assessment Reports (FEIARs) for the above-mentioned projects were only submitted in August</p>

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<p>DEA, while the Kokerboom 3 Wind Farm application is currently pending decision-making with the DEA. Any relocation of turbines would require an amendment to the Environmental Authorisations – with associated time and cost implications.</p> <ul style="list-style-type: none"> ▪ It is also noted that the 240m setback that would be required either side of the proposed 132kV OHL would result in the effective sterilization of a corridor 480m wide over the Kokerboom Properties, within which no turbines could be placed. This would reduce the buildable area available on the Kokerboom Properties, and would materially and negatively impact the development rights that have been conferred upon BVI by virtue of the Environmental Authorisations received for the Kokerboom 1 and Kokerboom 2 Wind Farms, and would also impinge on BVI's future development prospects within their lease area (which encompasses the full extent of the Kokerboom Properties). ▪ The impacts to the economic viability of the Kokerboom Wind Farms and BVI's development rights have not been identified or assessed in the draft Basic Assessment Reports. ▪ Due to the material negative impacts to the Kokerboom Wind Farm layouts, and the associated decrease in energy production, economic viability and competitiveness of these three projects, as well as the negative impacts to future development prospects on the Kokerboom properties, BVI cannot support any of the four proposed 132kV OHL Options as presented in the draft BARs, 		<p>and October 2017 respectively is attached to this email. It should also be noted that the specialist's studies and Basic Assessment Reports assessed the proposed power line corridors and not the exact locations of the power lines, and therefore the exact impact to the economic viability of the Kokerboom WEFs could not be completely determined at the time. However, through the public participation process and the comments received by BVI in this matter, Mainstream are confident that BVI's development rights are duly being considered, and will continue be considered as Mainstream aims to secure a grid line corridor with the least possible impact on the Kokerboom WEFs.</p> <p>BVI have recommended a route that fits within power line corridor Option 4 and therefore SiVEST is of the opinion that the Socio-Economic findings and conclusions as previously assessed would remain unchanged. In addition, there are no negative socio-economic issues which would prevent the development of power line corridor Option 4, provided BVIs setback distances are adhered to during the design stages of the power line. This was subsequently confirmed by the Socio-Economic Specialist.</p> <p>A letter which was provided by the Socio-Economic Specialist with regards to the issue above is attached to this email.</p>

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<p>and hereby objects to the four applications for Environmental Authorisation for the Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom 132kV Power Lines.</p> <ul style="list-style-type: none"> ▪ BVI does not wish to be unreasonably obstructive, and recognises the Applicant’s need to connect to the Helios substation. BVI is therefore open to engaging with the Applicant in order to identify an alternate routing that would be feasible for the Applicant and which would minimise the impacts to the Kokerboom Wind Farms. ▪ BVI recognises that the Applicant has proactively engaged with BVI on this matter, and thanks the Applicant for these positive engagements. During the most recent of these engagements, on Wednesday 24 January 2018, the Applicant proposed a variation of the “Option 4” routing, in which the 132kV OHL would be located on Portion 2 of Farm 213 (2/213) to the east of the Kokerboom properties, in the vicinity of the Kokerboom 3 Wind Farm (refer to Annexure C). Although this variation of Option 4 would still result in some sterilisation of land on BVI’s lease area over the Remainder of the Farm Aan De Karree Doorn Pan No. 213 (RE/213), this routing would allow for a sufficient setback distance to be maintained between the 132kV OHL and the Kokerboom 3 turbines, which would suitably minimise the impact to the Kokerboom 3 Wind Farm. 		<p>We trust that this sufficiently addresses the comments and objection raised by BVI with regards to the DBARs for the proposed Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom 132kV Power lines and Substations.</p> <p><i>Stephan Jacobs, SiVEST</i></p>

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<ul style="list-style-type: none"> ▪ BVI would offer no objection to the alternate Option 4 shown in Annexure C, subject to the consent of the affected Kokerboom land owner (owner of Farm RE/213). ▪ The Applicant is advised that in terms of the leases held by BVI over the Kokerboom Properties, BVI's consent is required for the registration of any third-party servitudes over the Kokerboom Properties. The Applicant is therefore encouraged to continue to engage with BVI to identify a final OHL routing that would be supported by BVI, and the affected land owners. ▪ BVI hereby requests that the Applicant withdraw the four 132kV routing Options as currently presented in the draft BARs, and furthermore requests that the Applicant revise the Basic Assessment Reports to present the alternate Option 44 (or other routing agreed with BVI) as their preferred alternative for the 132kV OHL, prior to the submission of the reports to the DEA for decision-making. 		
1.2 Communication Related Comments/Issues		
<p>Requested SiVEST to register her as an Interest & Affected Party (I&AP) for the Environmental Impact Assessment (EIA) processes to be undertaken for the four (4) proposed wind farms (Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom), as well as their associated grid connections (eight applications in total)</p>	<p style="text-align: center;">Stephnie Kot Project Manager: Renewable Energy Project Development Email: 17 November 2016</p>	<p>Stephnie Kot was subsequently registered as an I&AP for the Environmental Impact Assessment (EIA) processes to be undertaken for the four (4) proposed wind farms (i.e. Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom), as well as their associated grid connections. Stephanie Knot will subsequently receive all project related information.</p> <p>Andrea Gibb, SiVEST</p>

Issue/Comment	Raised By	Response
1 STAKEHOLDER / I&AP RELATED COMMENTS/ ISSUES		
Requested to be registered as an I&AP for the Environmental Impact Assessment (EIA) processes to be undertaken for the four (4) proposed wind farms (Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom), as well as their associated grid connections.	Siphelele Dunga BioTherm Energy Registration and Comment Form: 09 February 2017	Mr. Dunga was subsequently registered as an I&AP for the Environmental Impact Assessment (EIA) processes to be undertaken for the four (4) proposed wind farms (i.e. Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom), as well as their associated grid connections. Mr. Dunga will subsequently receive all project related information. Andrea Gibb, SiVEST
Requested that Mr. Eugene Marinus be registered as an I&AP for the proposed development.	Jeannette-Anne Steenkamp Registered I&AP: Municipal Council Registration and Comment Form: 25 March 2017	Mr. Marinus was registered as an I&AP for the proposed development accordingly. Mr. Marinus will subsequently receive all project related information. Andrea Gibb, SiVEST

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2.1 Project Related Comments/Issues		
<p>Telkom SA granted Mainstream the approval to proceed with the construction of its energy project at the site subject to the following terms and conditions:</p> <ul style="list-style-type: none"> ▪ Take note that the findings made by Telkom are based on simulation and calculated on a theoretical model, using available data and assumptions where no data was provided. Therefore, such findings may change at any time should any further information be made available to or come to Telkom’s attention. ▪ At any time after the approval, and during construction of the project, should any radio transmissions be affected by construction activities, Telkom will give the Applicant 30 (thirty) days’ written notice to minimise or reduce and/or remove the cause of the interference. Under no circumstances will Telkom be liable to the Applicant or any other third party for any damages, of any nature whatsoever, suffered as a consequence of the aforementioned request. ▪ Construction activities underneath, along, across or within close proximity to Telkom infrastructure must comply to the applicable Telkom guidelines relating to clearances between equipment and the proposed construction activity. Furthermore, the Applicant must strictly adhere to and all installations must be fully compliant with the Occupational Health and Safety Act, 1993 (Act 85 of 1993). ▪ This approval is further subject to the submitted application’s boundaries or structures listed in annexure 1 below, the materials used as well as the size and positioning of structures declared in 	<p>Leonard Shaw Senior Manager – Access Master Plans: Open Serve Email: 20 February 2017</p>	<p>Telkom SA’s comments were duly noted. The comments have been forwarded to Mainstream and will be adhered during the pre-construction, construction, operation and decommissioning phases of the project.</p> <p>Andrea Gibb, SiVEST</p>

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<p>the application. If any radio system is compromised by a deviation of this submission and the deviation cannot be reversed, the Applicant shall be liable for the cost to re-establish or relocate the service and under no circumstances will Telkom be liable to the Applicant or any other third party for any damages, of any nature whatsoever, suffered as a consequence.</p> <ul style="list-style-type: none"> ▪ This approval is valid and applicable to and between Telkom and the Applicant. It does not include approval by other electronic communication operators that have a co-sharing agreement for use on Telkom radio masts. ▪ Any additions, amendments, additional structures to be built or change to the energy farm boundaries will require a fresh application to Telkom. ▪ The validity of this approval is for a period of 12 (twelve) months. If construction of the designed project commences after the expiry of the twelve month period, the application must be re-submitted to Telkom for evaluation and approval. ▪ This approval does not imply any right of access to Telkom property or use of Telkom’s access roads for construction or maintenance of the design project. Permission must be obtained from Telkom in this regard. Furthermore Telkom reserves the right to claim damages in terms of Section 108 of the Post Office Act No. 44 of 1958, for any loss sustained as a result of damage to our electronic communications infrastructure. ▪ The Applicant shall, in the carrying out of any work or project take all necessary precautions for the safety of Telkom’s employees, contractors, representatives and its property including the radio 		

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<p>links on or near the Site against damages as result of construction of the Applicant's energy project. the Applicant shall be liable for all and any direct and / or indirect, and / or consequential damages or injury that may be caused by the Applicant, its contractors, subcontractors, employees or representatives to any employee, contractor, representative or property of Telkom including radio links or land which may have been disturbed.</p> <ul style="list-style-type: none"> ▪ Any work in connection with the construction of the Applicant's energy project shall be carried out by the Applicant, in such a way as to avoid any possible loss or inconvenience to the Telkom, its customers or the public, and on completion of such work, any property of Telkom, including radio links or land which may have been disturbed shall be restored to the same condition which it was in before commencement of the construction of energy project. ▪ In no event will Telkom, its employees, contractors, subcontractors or representatives be liable to the Applicant or anyone else for special, collateral, exemplary, direct, indirect, incidental, consequential or any other damages (including without limitation, loss of goodwill, loss of profits or revenues, loss of savings, loss of use, interruptions of business, and claims of the Applicant or injury) whether or not such damages or injury occurred prior or subsequent to, or are alleged as a result of any Telkom radio links approved and/or not approved in terms of this letter or as result of delict, even if Telkom SA has been advised of the possibility of such damages or injury. 		

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2 AUTHORITY RELATED COMMENTS/ ISSUES																							
<p>The following should be noted according to Annexure 1 of the comment letter which was sent by Open Serve:</p> <ul style="list-style-type: none"> ▪ Only the points submitted in the application that outlines the outer boundary for the farm were used to see if any radio link crossed over or nearby the energy farm. Telkom has no radio system that will be affected by turbines built in the proposed project area. ▪ The points listed below are recorded in decimal degree on the WGS84 datum. If any dispute arises with respect to the position of these points then the Chief Directorate National Geo-spatial Information trigonometrical system will be used to verify them. The points listed below form an enclosed area if read in sequence, with the first and last points in the list enclosing the approved area. <table border="1" data-bbox="356 927 837 1442"> <thead> <tr> <th>Point</th> <th>Longitude (X)</th> <th>Latitude (Y)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>19.298160</td> <td>-30.254118</td> </tr> <tr> <td>2</td> <td>19.277670</td> <td>-30.326084</td> </tr> <tr> <td>3</td> <td>19.290713</td> <td>-30.326746</td> </tr> <tr> <td>4</td> <td>19.342621</td> <td>-30.348900</td> </tr> <tr> <td>5</td> <td>19.368391</td> <td>-30.296308</td> </tr> <tr> <td>6</td> <td>19.379579</td> <td>-30.240162</td> </tr> </tbody> </table>	Point	Longitude (X)	Latitude (Y)	1	19.298160	-30.254118	2	19.277670	-30.326084	3	19.290713	-30.326746	4	19.342621	-30.348900	5	19.368391	-30.296308	6	19.379579	-30.240162	<p>Leonard Shaw Senior Manager – Access Master Plans: Open Serve Email: 20 February 2017</p>	<p>Mr. Shaw's comments were duly noted and were forwarded to Mainstream. Andrea Gibb, SiVEST</p>
Point	Longitude (X)	Latitude (Y)																					
1	19.298160	-30.254118																					
2	19.277670	-30.326084																					
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	7	19.409124	-30.229288		
	8	19.401894	-30.217844		
	9	19.370962	-30.215015		
	10	19.286149	-30.233860		
	1	19.298160	-30.254118		
It was stated that the proposed applications fall in the Lower Orange Water Management Area, SiVEST were also informed that Mrs. Adeyileka has given the document to one (1) of her colleagues at DWS (namely Kelebogile Moalosi) so that LO staff can assist SiVEST further.				Esther Adeyileka Department of Water and Sanitation (DWS) Email: 25 July 2017	Mrs. Adeyileka's comments were duly noted. Kelebogile Moalosi was added to the database and sent all reports that were released for public review. Stephan Jacobs, SiVEST
It was stated that the EAP can contact DWS once they are ready to proceed with the application for the Water Use License (WUL) or General Authorisation (GA). In addition, it was stated that a meeting and site inspection will be required for start.				Khutjo Sekwaila Department of Water and Sanitation (DWS) Northern Cape Region Email: 08 August 2017	The comments from DWS were noted. The applicant will ensure that DWS is contacted by the appointed consultant once the WUL application is ready to proceed. A site meeting and site inspection will be arranged with DWS once Mainstream are ready to proceed with the application for the WUL. All correspondence undertaken with DWS throughout the BA process is included in Appendix 7D of the FBAR. Stephan Jacobs, SiVEST
A letter from BirdLife was provided in response to proposed development of the four (4) wind energy facilities (part of separate on-going EIA processes). As part of this letter the following comment was				Samantha Ralston-Paton Birds and Renewable Energy Manager BirdLife Email: 30 November 2017	The overhead high voltage transmission lines connecting the Leeuwberg wind farms to the existing Eskom Helios Substation has been assessed in a separate basic assessment process. This report has been made available to Birdlife SA for comment

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<p>made with regards to the proposed substation and power line developments:</p> <ul style="list-style-type: none"> ▪ We note that the transmission-line will be assessed in a separate application. We urge that the impacts on species such as Ludwig's Bustard are not overlooked, as these impacts will be difficult to mitigate. The extent of new lines should therefore be minimised. <p>It should be note that comments received from BirdLife SA with regards to the wind farm developments were addressed in the C&RR which was submitted as part of the FEIARs for the wind farm developments.</p>		<p>during the 30-day public comment period. The risk to Ludwig's Bustard has been specifically considered by the avifaunal specialist during this process.</p> <p>Chris Van Rooyen, Avifauna Specialist, Chris Van Rooyen Consulting</p>
<p>Dr. Ramotholo Sefako sent SiVEST comments from the SAAO with regards to the proposed four (4) Mainstream Wind Farms and associated grid line connections near Loeriesfontein, Northern Cape.</p> <p>The following was stated:</p> <p>The proposed four Mainstream Wind Farms and Associated Grid Line Connection near Loeriesfontein, Northern Cape Province, are considerably far from Sutherland and outside of the declared Sutherland Central Astronomy Advantage Area. We don't think that the facilities will have any measurable impact on optical astronomy at the Southern African Large Telescope (SALT) at the South African Astronomical Observatory (SAAO) observing station near Sutherland. Our main concern as optical astronomy research facility</p>	<p>Dr. Ramotholo Sefako Head of Telescope Operations (TOPS) SAAO Email: 04 December 2017</p>	<p>The comments / concerns from SAAO are noted and will be taken into consideration. In addition, mitigation measures which are designed to reduce the impacts from light and dust are included in the EMPr.</p> <p>Hlengiwe Ntuli, SiVEST</p>

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<p>are related to impacts from light and dust that may be generated during development and operation of wind farms. Light and dust pollution negatively affect the quality of optical observations.</p>		
<p>A letter from NC DRPW was provided in response to proposed development of four wind energy facilities.</p> <p>The Department of Roads and Public Works (DRPW) does not have objections against the application, subject to the following conditions that must be complied with at all times in case any work undertaken with the statutory road reserve or within a distance of 95 meters from the centerline of any building restriction road (advertising on Roads and Ribbon development Act, no.21 of 1940) and within the statutory road reserve of within 5 meters from the statutory boundary of any public road (Roads Ordinance, 19 of 1976).</p> <ol style="list-style-type: none"> 1. The applicant must submit a detailed layout design for the approval prior to any works (the proposed 132kV grid line). The designs must include but not limited to; The offset distance referencing from the centerline of the road, height clearance and etc. 2. The roads that will be affected by your proposal are DR2972, DR2977 and OG240. 3. The applicant must investigate all the existing services (sewer lines, pipelines, underground cables and overhead cables) passing through or alongside that specific (proposed works) area. 4. Poles or towers carrying power lines in excess of 22kV must be erected outside the statutory road width and not closer than 50 meters to the centerline of the road concerned. 	<p style="text-align: center;">Jaco Roelofse Director: Roads Planning and Design NC DR & PW Email: 06 December 2017</p>	<p>The conditions stipulated in the NC DRPW letters are noted and will be taken into consideration and adhered to at all times in case any work is undertaken with the statutory road reserve or within a distance of 95 meters from the centerline of any building restriction road and within the statutory road reserve of within 5 meters from the statutory boundary of any public road.</p> <p style="text-align: right;"><i>Hlengiwe Ntuli, SiVEST</i></p>

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<p>5. In cases where an overhead power line crossed a public road:</p> <p>a) The poles and/or towers must comply with the distances and road clearances as per Eskom Standards and;</p> <p>b) Provision must be made for a vertical clearance as prescribed by the Factories, Machinery and Building Act, 1941 but in any case not less than 8 meters measured from the highest point of the road to the lowest wire or safety net.</p> <p>6. All excavations within the statutory road width will be reinstated by the applicant to the satisfaction of the District Roads Engineer concerned.</p> <p>7. If any fence along the road boundaries is removed by the applicant or is damaged through his activities, it must be restored to the original standard.</p> <p>This response letter does not exempt the applicant from complying with any other law that may be applicable to the proposed work and related activities.</p>		
<p>SAHRA thanked SiVEST for the notification regarding the availability of the Draft Basic Assessment Report (DBAR) and requested that SiVEST ensure that all the relevant documents are uploaded to an application on SAHRIS so that an official comment can be issued.</p>	<p>Natasha Higgitt Heritage Officer: Archaeology, Palaeontology and Meteorites Unit SAHRA Email: 15 December 2017</p>	<p>All the relevant documents were uploaded to the applicable application on SAHRIS as requested. In addition, SAHRA were informed about this via email once it was completed. Stephan Jacobs, SiVEST</p>
<p>SAHRA informed SiVEST that the location of the project had not been mapped on the GIS layer of the application in SAHRIS. SiVEST were requested to complete this as soon as possible, as SAHRA would not be able to issue a Final Comment without a complete application.</p>	<p>Natasha Higgitt Heritage Officer: Archaeology, Palaeontology and Meteorites Unit SAHRA Email: 10 January 2018</p>	<p>A KML file which maps the location of the proposed project was uploaded to the application on SAHRIS as requested. An email was sent to Mrs. Higgitt by SiVEST to inform her when this had been completed. Stephan Jacobs, SiVEST</p>

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<p>It was confirmed that no land claims appear on the database of the Regional Land Claims Commission: Northern Cape in respect of the property. This includes the database for claims lodged by 31 December 1998; and those lodged between 1 July 2014 and 27 July 2016 in terms of the Restitution of Land Rights Amendment Act, 2014.</p> <p>Whilst the Commission takes reasonable care to ensure the accuracy of information it provides, there are various factors that are beyond the Commission's control, particularly relating to claims that have been lodged but not yet been gazette such as:</p> <ul style="list-style-type: none"> ▪ Some Claimants referred to properties they claim dispossession of rights in land against historical property descriptions which may not match the current property description; and ▪ Some Claimants provided the geographic descriptions of the land they claim without mentioning particular actual property description they claim dispossession of rights in land against. <p>The Commission therefore does not accept any liability whatsoever if through the process of further investigation of claims it is found that there is in fact a land claim in respect of the property in question.</p> <p>If the applicant or EAP are aware of any change in the description of the property in question after 19 June 1913, such description should be supplied to the Commission so as to enable them to do a further search.</p>	<p>Refilwe Sekwati Communication Division – Regional Land Claims Commission: Northern Cape Email: 12 January 2017</p>	<p>The Northern Cape Regional Land Claims Commission's comments were duly noted and were forwarded to Mainstream. In addition, should the applicant or EAP be aware of any change in the description of the property in question after 19 June 1913, such description will be supplied to the Commission so as to enable them to do a further search.</p> <p>Andrea Gibb, SiVEST</p>

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<p>SAHRA provided Interim Comments in response to proposed construction of the On-site Eskom Substation, Linking Substation and associated 132kV Power Line. <u>The following Interim Comment were provided:</u></p> <p>The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit disagrees with the low sensitivity given to the Prince Albert Formation as it is deemed to be of high palaeontological sensitivity according to the SAHRIS Fossil Heritage Layer Browser (http://www.sahra.org.za/sahris/fossil-layers/prince-albert-formation). Therefore, and in line with recommendations that include that surveying be done by a professional palaeontologist (p.31, Table 1 of the report), the APM Unit endorses such recommendation and requires a professional palaeontologist to survey the proposed development footprint. The surveying report must be submitted to SAHRA before the commencement of any development-related activities. It must be noted that the palaeontological description of the Prince Albert Formation was rather sparse and does not include references.</p> <p>Further comments will be issued upon receipt of the above.</p>	<p>Natasha Higgitt Heritage Officer: Archaeology, Palaeontology and Meteorites Unit SAHRA Email: 18 January 2018</p>	<p>A letter in response to the Interim Comments from SAHRA was prepared by SiVEST and uploaded to the application on SAHRIS. This letter stated the following:</p> <p>In light of the comments, the Palaeontology and Heritage specialists were requested to review their respective specialist reports and the recommended high sensitivity of the Prince Albert Formation. Subsequently, the reports were amended to increase the sensitivity of the Prince Albert Formation as the specialists were in agreement that this formation does in fact have a high palaeontological sensitivity. It should be noted that the palaeontology specialist also recommended that a detailed palaeontology study be conducted prior to construction in order to assess the value and prominence of fossils in the development area and the effect of the proposed development on the palaeontological heritage. This will consist of a Phase 1 field-based assessment which will be undertaken by a professional palaeontologist. The detailed Phase 1 Report will elaborate on the issues and potential impacts identified during the initial study undertaken for the Basic Assessment (BA). This will be achieved by site visits and research in the site-specific study area as well as a comprehensive assessment of the impacts identified during the BA. The Phase 1 Report will include specific mitigation measures which will address the issue of palaeontology and will be submitted to SAHRA for comment and approval before the commencement of any development-related activities. The palaeontology specialist also elaborated on the</p>

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		<p>description of the Prince Albert Formation in the updated report and included references. The updated specialist reports and response letters were uploaded to SAHRIS accordingly and SAHRA were informed via email when these were uploaded.</p> <p>All four (4) power line corridors traverse the Prince Albert Formation, therefore once an EA is issued the detailed palaeontological study will be undertaken by Mainstream for the authorised power line corridor prior to construction, and submitted to SAHRA for final comment and approval.</p> <p>As such, based on the recommendation made by the palaeontology specialist, SiVEST will provide a recommendation in the FBAR that should the DEA issue Environmental Authorisation (EA) for the proposed development, a special condition should be included stipulating that a detailed palaeontology study be undertaken for the authorised power line corridor and submitted to SAHRA for comment and approval prior to construction. This is deemed to be an acceptable approach as, as per the interim comment letter dated 18 January 2018, SAHRA stated that <i>“Therefore, and in line with recommendations that include that surveying be done by a professional palaeontologist (p.31, Table 1 of the report), the APM Unit endorses such recommendation and requires a professional palaeontologist to survey the proposed development footprint. The surveying report must be submitted</i></p>

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		<p><i>to SAHRA before the commencement of any development-related activities.”</i></p> <p>Mainstream have agreed to the approach of undertaking the detailed palaeontology study prior to construction for SAHRA to provide final comment and approval and include any additional measures (if and where required) into the EMPr to be implemented in the construction phase. Mainstream therefore acknowledged and made provision on this basis to undertake this assessment prior to construction, as required.</p> <p>Stephan Jacobs, SiVEST (refer to Appendix 7D for response letter to SAHRA)</p>
<p>A letter from the DEA’s Biodiversity Conservation Department was provided in response to the proposed construction of the On-site Eskom Substation, Linking Substation and associated 132kV Power Line.</p> <p>The letter stated that the following information must be included in the final BAR:</p> <ul style="list-style-type: none"> ▪ After the evaluation of the DBAR and specialist reports submitted for the proposed development, it is recommended that the following be considered during the FBAR: <ul style="list-style-type: none"> ○ The EMPr to be submitted as part of the final BAR must clearly indicate the biodiversity impacts that might occur as a result of the proposed project and the proposed mitigation measures thereof. The EMPr must not contain any ambiguity. 	<p>Ms. Wilma Lutsch Director: Biodiversity Conservation Department of Environmental Affairs Email: 05 February 2018</p>	<p>The comments from the DEA’s Biodiversity Conservation Department were duly noted and were addressed in the FBAR accordingly.</p> <ul style="list-style-type: none"> ▪ The EMPr which was submitted as part of the FBAR clearly indicated the biodiversity impacts that might occur as a result of the proposed project and the proposed mitigation measures thereof. The EMPr did also not contain any ambiguity and where applicable, statements containing the “should” were amended to “must”; ▪ Any Provincial Biodiversity Conservation Plan or guideline which was applicable for the proposed development was considered and made reference to. In addition, efforts were made throughout the BA process to obtain comments from

Issue/Comment	Raised By	Response
2 AUTHORITY RELATED COMMENTS/ ISSUES		
<p>Where applicable, statements containing the “should” are to be amended to “must”;</p> <ul style="list-style-type: none"> ○ You are further advised to consider or make reference to any Provincial Biodiversity Conservation Plan or guideline in your report and to obtain comments from relevant conservation authorities. <ul style="list-style-type: none"> ▪ Also ensure that the Final BAR includes at least one A3 regional map of the area, ecological sensitivity map and the locality map included in the final BAR illustrate the different alternatives. The maps must be of acceptable quality and as a minimum, have the following attributes: <ul style="list-style-type: none"> ○ Maps are relatable to one another; ○ Cardinal points; ○ Co-ordinates; ○ Legible legends; ○ Indicate alternatives; ○ Latest land cover; ○ Vegetation types of the study area. ▪ You are requested to submit one (1) unprotected electronic copy (CD/DVD) of the complete final report which include the locality and ecological sensitivity map to this Directorate with attention to Mr. Stanley Tshitwamulomoni. 		<p>relevant conservation authorities. Proof of this is detailed in Table 27 in Section 7.12 of the FBAR.</p> <ul style="list-style-type: none"> ▪ SiVEST ensured that the FBAR included at least one (1) A3 regional map of the area and ecological sensitivity map. In addition, the locality map included in the FBAR illustrated the different alternatives. These maps are of acceptable quality and had all the attributes as stipulated in the comment letter: ▪ An unprotected electronic copy (on CD) of the complete FBAR which includes the locality and ecological sensitivity maps will be submitted to the Directorate as requested, with attention to Mr. Stanley Tshitwamulomoni. <p>Stephan Jacobs, SiVEST</p>
2.2 Surrounding Infrastructure Related Comments/Issues		
Eskom requirements for works at or near Eskom infrastructure for consideration during the BA process, as well as Renewable Energy	John Geeringh	These documents were forwarded to Mainstream and will be strictly adhered to during the pre-construction, construction,

Issue/Comment	Raised By	Response
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<p>Generation Plant Setbacks to Eskom Infrastructure, were sent to SIVEST.</p>	<p>Eskom GC: Land Development Email: 02 May 2017</p>	<p>operation and decommissioning phases of the project. In addition, these documents were attached to the Draft and Final EMPr which was included in the DBAR and FBAR. Andrea Gibb, SiVEST</p>
<ul style="list-style-type: none"> ▪ Sentech analysed the information provided by Mainstream in accordance the provisions of Section 29(1) (c) of the Electronic Communications Act no. 36 of 2005, and specifically the location of the site; ▪ It was confirmed that there would be limited degradation of Sentech transmitted Terrestrial UHF/CHF Television (TV), and/or FM radio services in the planned development area; ▪ Sentech therefore grant Mainstream approval to proceed with the construction of its energy project at the site subject to the following terms and conditions; <ul style="list-style-type: none"> ○ Due to the fact that the findings made by Sentech are based on simulations and calculated on a theoretical model, using available data and assumptions where no data was provided, such findings may change at any time should any further information be made available to or come to Sentech's attention; ○ At any time after the approval, and during construction of the project, should any radio transmissions be affected by construction activities, Sentech will give the applicant 7 (seven) days' written notice to remove the cause of the interference; ○ Under no circumstances whatsoever will Sentech be liable to the applicant or any third party for any damages, loss or 	<p>Serame Motlhake Manager - Broadcast Planning: Sentech Email: 08 March 2017</p>	<p>Sentech's comments were duly noted. The comments have been forwarded to Mainstream, who will adhere to all terms and conditions provided by Sentech during the pre-construction, construction, operation and decommissioning phases of the project. Andrea Gibb, SiVEST</p>

Issue/Comment	Raised By	Response
2 AUTHORITY RELATED COMMENTS/ ISSUES		
<p>costs, of any nature whatsoever or howsoever arising, suffered as a consequence of the aforementioned request and the applicant fully indemnify Sentech;</p> <ul style="list-style-type: none"> ○ Sentech prior written consent must first be obtained before any construction activities underneath, along, across or within close proximity to Sentech infrastructure can begin and shall comply with the applicable Sentech guidelines relating to clearances between equipment and the proposed construction activity. Furthermore, the applicant shall clearly adhere to, and ensure all installations shall be fully compliant with the Occupational Health and Safety Act No. 85 of 1993; ○ This approval is further subject to the submitted applications boundaries or structures listed in annexure 1 of the comment letter, the materials use, as well as the size and positioning of structures declared in the application. If the services of Sentech or its clients is in any way compromised by a deviation or change of this submission, the applicant shall be liable for all costs to re-establish, or relocate the services, and under no circumstances whatsoever will Sentech be liable to the applicant or any other third party for any damages, loss or costs, of any nature whatsoever or howsoever arising, suffered as a consequence; ○ This approval is valid and applicable between Sentech and the applicant only. It does not include any approval for any of the other electronic communication operators which have 		

Issue/Comment	Raised By	Response
2 AUTHORITY RELATED COMMENTS/ ISSUES		
<p>current co-sharing agreements to utilise Sentech’s radio masts;</p> <ul style="list-style-type: none"> ○ Any additions, amendments, additional structures to be built, or any change to the energy farm boundaries, will require a new application to Sentech; ○ The validity of this approval is for a period of 12 (twelve) months. If construction of the designed project commences after the expiry of the twelve month period, the application must be re-submitted to Sentech for further evaluation and approval; ○ This approval does not imply any rights of access whatsoever to Sentech property or use of Sentech’s access roads for construction or maintenance of the design project. Separate permission must be obtained from Sentech in this regard. Furthermore, Sentech reserves the right to claim damages in terms of Section 29 of the Act, for any loss or damages sustained as a result of damages to any of Sentech’s electronic broadcast and communications infrastructure; ○ The applicant shall, in carrying out any work or project, take all the necessary precautions for the safety of Sentech’s employees, contractors, representatives and its property including the radio transmitters and links on or near the site against damages as a result of construction of the applicant’s energy project; ○ The applicant shall be liable for all and any direct and/or indirect, and/or consequential damages or injury that may 		

Issue/Comment	Raised By	Response
2 AUTHORITY RELATED COMMENTS/ ISSUES		
<p>be caused by the applicant, its contractors, subcontractors, employees, agents or representatives to any employee, contractor, representative or property of Sentech including radio network transmitters and/or links or land which may have been disturbed shall be restored to the same condition in which it was before commencement of the construction of the energy project;</p> <ul style="list-style-type: none"> ○ In no event will Sentech, its employees, contractors, or representatives be liable to the applicant or any third party whatsoever for special, collateral, exemplary, direct, indirect, incidental, consequential or any other damages of any nature whatsoever or howsoever arising (including without limitation, loss of goodwill, loss of profits or revenues, loss of savings, loss of use, interruptions or noisiness, or injury) whether or not such damages or injury occurred prior or subsequent to, or are alleged as a result of any Sentech radio network approved and/or not approved in terms of this letter, even if Sentech has been advised of the possibility of such damages or injury. 		
<p>The following should be noted according to Annexure 1 of the comment letter which was sent by Sentech:</p> <ul style="list-style-type: none"> ▪ The planned Leeuwberg Suite Wind Turbine Generators (WTG's) are close (between 108km and 117km) to the Garies and Calvinia transmitter respectively. These WTG;s will consist of a total amount of 188 WTG's; 	<p>Serame Motlhake Manager - Broadcast Planning: Sentech Email: 08 March 2017</p>	<p>Sentech's comments were duly noted. The comments have been forwarded to Mainstream. Andrea Gibb, SiVEST</p>

Issue/Comment	Raised By	Response
2 AUTHORITY RELATED COMMENTS/ ISSUES		
<ul style="list-style-type: none"> ▪ WTG interference calculations and predictions which included 188 planned WTG's were completed successfully. The interference calculations and predictions indicated that the WTG'S will have the potential to cause limited interferences on the existing VHF TV broadcast services; ▪ The only analogue service that might be affected which is SABC 2 within the Garies (C30) and Calvinia (C21) transmitter stations coverage area. Digital UHF TV service that might be affected is Mux1 within the Garies (C30) and Calvinia (C21) transmitter stations coverage area; ▪ Conclusion on the results and findings of the planned 188 total amount of WTG's in Leeuwberg Suite can be summarised as follows: <ul style="list-style-type: none"> ○ Potential interferences on analogue and Digital VHF/UHF TV coverage will not affect the quality of viewer services in the surrounding areas; ○ Potential interference on digital UHF TV coverage will not affect the quality of viewer services in the services I the surrounding areas; ○ None of the existing analogue or DTT RBR broadcast feeds in the above mentioned areas will be affected; ○ No interference on FM services will be experienced; and ○ None of the existing FM RBR feeds broadcast feds in the area will be affected. 		
2.3 Communication Related Comments/Issues		
SiVEST were informed that Mr. Roberts will no longer be available to assist with queries from the 31 st of August 2017 as his contract	Harry Roberts	Mr. Roberts' comments were duly noted. SiVEST will address all correspondence intended for Mr. Harry Roberts to

Issue/Comment	Raised By	Response
2 AUTHORITY RELATED COMMENTS/ ISSUES		
<p>reaches maturity on the 31st of August 2017. In order to ensure continuity of service, SiVEST were informed to address all correspondence intended for Mr. Harry Roberts to Obstacles@caa.co.za, from where it will be accessed and acted upon accordingly. Urgent enquiries should be directed to Mr. Werner Kleynhans (011 545 1468).</p>	<p>South African Civil Aviation Authority (SACAA) Email: 25 July 2017</p>	<p>Obstacles@caa.co.za. Urgent enquiries will be directed to Mr. Werner Kleynhans accordingly. Andrea Gibb, SiVEST</p>
<p>SANBI requested to be de-registered as an I&AP for the Environmental Impact Assessment (EIA) processes being undertaken for the four (4) proposed wind farms (Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom), as well as their associated grid connections.</p>	<p>Kensani Mangena Project Officer: Municipal Support SANBI Email: 06 September 2017</p>	<p>SiVEST thanked SANBI for their response / comment and informed them that this was received and noted. SiVEST subsequently removed SANBI as an I&AP for these projects as requested. Stephan Jacobs, SiVEST</p>
<p>It was enquired as to who the “role players” are for the proposed development. The Municipal Manager wants to arrange a meeting with the relevant parties as early as possible in January 2018. A name, address and contact details for a relevant person from Mainstream were requested.</p>	<p>Riana Lock Hantam Local Municipality Email: 12 December 2017</p>	<p>The contact details for Mrs. Rebecca Thomas from Mainstream were forwarded to Mrs. Lock as requested. Rebecca Thomas is Development Executive at Mainstream and is the appropriate contact person with regards to the proposed Substation and Power Line Developments near Loeriesfontein Stephan Jacobs, SiVEST</p>
<p>It was requested that SiVEST forward Ms. / Mrs. Riana Lock the contact details for someone at Mainstream, the developer who is proposing the construction of the Substation and Power Line Developments near Loeriesfontein.</p>	<p>Riana Lock Hantam Local Municipality Email: 20 December 2017</p>	<p>The contact details for Mrs. Rebecca Thomas from Mainstream were forwarded to Mrs. Lock as requested. Rebecca Thomas is Development Executive at Mainstream and is the appropriate contact person with regards to the proposed Substation and Power Line Developments near Loeriesfontein Stephan Jacobs, SiVEST</p>
<p>It was stated that although the relevant processes for the proposed development are being dealt with in accordance with relevant legislation, Mainstream are requested to facilitate conversation with</p>	<p>Jl Swartz Municipal Manager: Hantam Local Municipality Email: 18 January 2018</p>	<p>The comments from the Hantam Local Municipality were duly noted and were forwarded to Mainstream for consideration. It should be noted that Mainstream will continuously consult with</p>

Issue/Comment	Raised By	Response
2 AUTHORITY RELATED COMMENTS/ ISSUES		
<p>other developers in the surrounding area in order to clarify any other institutional challenges that may entail the permit.</p> <p>It will be irresponsible should the Hantam Municipal Council not be given a chance to clear up the consequences of any future development.</p>		<p>surrounding developers in order to overcome any development challenges.</p> <p>Stephan Jacobs, SiVEST</p>
<p>The following comments on the DBAR were received from the Department of Environmental Affairs (DEA):</p> <ul style="list-style-type: none"> ▪ <u>Maps:</u> Kindly note that the legends used on the maps to demonstrate power line alternatives look similar, therefore you are advised to change the colour on the legend of the maps for power line option 2 and 4 as to demonstrate precise difference between the two (2) options. ▪ You are further reminded that the final BAR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of basic assessment reports in accordance with Appendix 1 and Regulation 19 (1) of the EIA Regulations, 2014 as amended. ▪ 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). ▪ You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as 	<p>Bongeka Ngcoliso Case Officer: Department of Environmental Affairs (DEA) Email: 31 January 2018</p>	<p>All comments on the DBAR received from the DEA have been adequately addressed in the FBAR. In addition, all requirements stipulated in the DEA comments have been met accordingly. Refer to Table 6 in Section 2 for details regarding how all requirements have been met, as well as how the comments were addressed.</p> <p>Stephan Jacobs, SiVEST</p>

Issue/Comment	Raised By	Response
2 AUTHORITY RELATED COMMENTS/ ISSUES		
amended, that no activity may commence prior to an environmental authorisation being granted by the Department.		



Appendix 7F
I&AP Database

ENVIRONMENTAL IMPACT ASSESSMENTS (EIAs) AND ENVIRONMENTAL MANAGEMENT PROGRAMMES (EMPrs) FOR THE PROPOSED DEVELOPMENT OF FOUR (4) WIND FARMS AND BASIC ASSESSMENTS (BAs) FOR THE ASSOCIATED GRID CONNECTIONS NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

Environmental Impact Assessment I&AP Database

January 2018

First Name	Last Name	Company
Nicole	Abrahams	SANRAL
Koos	Alexander	Hantam Local Municipality
Tania	Anderson	WESSA: Northern Cape
Lerato	April	Department of Energy
Paul	Avenant	Department of Agriculture, Forestry & Fisheries
Quentin	Aylward	Cell C
M	Bartlett	Northern Cape Department of Agriculture, Land Reform and Rural Development
Amanda	Bester	Telkom (SA) Ltd
Irene	Bezuidenhout	BioTherm Energy
Corne	Botha	MTN Telecoms
Lambert	Brand	Farm: Remainder Georges Vley 217
Labert	Brand	Plaas Georgs vley 217, Restant
Madeleine	Brandt	Namakwa District Municipality
Hein	Burden	Portion 2 of the Farm Georgs Vley No. 127
Marie	Burden	Portion 2 of the Farm Georgs Vley No. 127
Erica	Burg	Telkom SOC
Thoko	Buthelezi	Dept of Agriculture, Forestry & Fisheries
Hettie	Buys	Department of Agriculture, Forestry and Fisheries
Aubrey	Classen	Hantam LM
Shaun	Cloete	Department of Water and Sanitation
Chris	Coetzee	South African Astronomical Observatory
Andre	de Villiers	Andreas Ricus Trust
Henry	de Wee	Hantam Local Municipality
Jaco	Don	Plaas: Georgs Vley No. 127 (Voorman)
Brian	Dreyer	Neotel
Charl	Du Plessis	Hantam Local Municipality
Joshua	Engelbrecht	Cell C
Bennie	Engelbrecht	Hantam Local Municipality
Margaret	Esau	Hantam Local Municipality
Patrick	Farmer	Hantam Local Municipality
Belinda	Farmer	Hantam Local Municipality
Sam	Fiff	Transnet Freight Rail (Jhb)
Brian	Fisher	Dept of Environment and Nature Conservation
Colin	Fordham	Cape Nature Conservation
Chris	Fortuin	Namakwa District Municipality
Nico	Fourie	Department of Roads & Public Works: Northern Cape Province
John	Geeringh	Eskom: Transmission
Andrea	Gibb	SIVEST
Bradley	Gibbons	EWT: African Crane Conservation Programme
Marianne	Golding	Endangered Wildlife Trust
Geraldene	Gous	Hantam Local Municipality
Morgan	Griffiths	WESSA: National
W	Grobler	Department of Water & Sanitation
Michelle	Hartslief	South African Weather Service
Ambrose	Hector	Eskom
Wimpie	Henning	Eskom Holdings SOC Limited
Natasha	Higgitt	South African Heritage Resources Agency
Obakeng	Isaacs	KHAI-MA LOCAL MUNICIPALITY
Charl	Jooste	Solar Capital
P	Josop	Khai-Ma Local Municipality
Garth	Julius	SANRAL
Mere	Kgampe	Department of Science and Technology
Johan	Koegelenberg	SENTECH
Stephnie	Kot	Infrastructure Asset Management (IAM)
Theunis	Kotze	Portion 2 of Karree Doorn No 214
Hercule	Le Roux	MTN Telecoms
Tsholo	Leburu	Northern Cape Provincial Department
Lourens	Leeuwner	EWT
Seoka	Lekota	Department of Environmental Affairs

Eddie	Lennox	Eskom Transmission Limited
Patrick	Lenyibi	DEPARTMENT OF SPORT, ARTS & CULTURE
Aaron	Lephalo	Solar Power Plant Construction
Deidre	Lesch	WWF
Bertram	Leukes	Hantam Local Municipality
Braam	Lintvelt	Plaas: Aan de Karee Doornpan
Riana	Lock	Hantam Plaaslike Munisipaliteit
Frans	Lombard	Plaas: Karree Doorn 214, Ptn 1
Gys	Lombard	Plaas: Karree Doorn 214, Ptn 1
Jannie	Loubser	Namakwa District Municipality
Alwyn	Louw	
Albie	Louw	Plaas: Hartebeest Leegte 216, Ged 1
Hermanus	Louw	Portion 1 of the Farm Hartebeest Leegte No. 216
Nico	Louw	Portion 2 of the Farm Gras Koppies No. 176
Dave	Lucas	Eskom: Corporate Sustainability
Kate	MacEwan	South African Bat Assessment Association
Moses	Mahunonyane	Department of Water & Sanitation
Ester	Makungo	Department of Water & Sanitation
Jacoline	Mans	Department of Agriculture, Forestry & Fisheries
Mashudu	Marubini	DAFF Provincial Department
Simphiwe	Masilela	Air Traffic Navigation Services
Pheladi	Masipa	Department of Energy
Rochelle	McPherson	Eskom Wayleave
Thabani	Mhlongo	South African Weather Service
Melanie	Miles	Leads 2 Business
Elias	Mohapi	Solar Power Plant Construction
Lerato	Mokgwatheng	Eskom Holdings SOC Limited
Ishmael	Mokhati	Solar Power Plant Construction
Tshegofatso	Monama	Square Kilometre Array
Johanna	Morobane	Air Traffic Navigation Services
Lungile	Motsisi	Eskom Transmission Limited
Thulani	Mthombeni	NC Dept of Environment and Nature Conservation
Vincent	Muila	Department of Mineral Resources (DMR)
George	Muller	Hantam Local Municipality
Serah Masala	Muobeleni	DAFF
Henning	Myburg	Agri SA: Northern Cape
Ono	Naude	Vodacom
Onwabile	Ndzumo	NC Dept of Environment and Nature Conservation
Koosie	Nel	Potrion 1 of Graskoppies 176
Hermanus	Nel	Remainder of the Farm Hartebeest Leegte No. 216
Joseph	Nhlapo	SENTECH
Jasper	Nieuwoudt	Department of Mineral Resources
David	Ockhuys	
Gizella	Opperman	Hantam Local Municipality
Richwell	Phale	Solar Power Plant Construction
Mmatlala	Rabothata	Department of Environmental Affairs
Samantha	Ralston-Paton	Bird Life South Africa
Ntsundeni	Ravhogoni	Department of Mineral Resources (DMR)
Nicole	Reddy	WWF-SA
Harry	Roberts	SA CAA
Lucia	Rodrigues	Western Cape Black Eagle Project
Jaco	Roelofse	NC Department of Roads & Public Works
Ramatholo	Sefako	South African Astronomical Observatory
Rasibe	Sekepane	Department of Mineral Resources (DMR)
Rosey	Sekese	Dept of Telecommunications and Postal Service
Kwena Khutjo	Sekwaila	Department of Water and Sanitation
Henri	Smit	Plaas: Zuur Fontein 224, Ged 1
Immanuel	Smith	Namakwa District Municipality
Candice	Spammer	Telkom Wayleave
Hennie	Spannenberg	Farms: Remainder Nabasiep 219 & Ptn 1 Kapteins Kraal 222
Gert	Steenkamp	DAFF: Regional Northern Cape
Jeany	Steenkamp	Hantam Local Municipality
Hermina	Steenkamp	Hantam Plaaslike Munisipaliteit
Gert	Steenkamp	NC Department of Agriculture, Land Reform and Rural Development
Frik	Sterkse	Hantam Plaaslike Munisipaliteit
Candice	Stevens	Birdlife South Africa

Lizell	Stroh	SA Civil Aviation Authority
Shaun	Swanepoel	Eskom Wayleave
Roger	Swartz	Hantam Local Municipality
Adriaan	Tiplady	Square Kilometre Array
Stanley	Tshitwamulomoni	Department of Environmental Affairs
Heleen	van den Heever	Telkom (SA) Ltd
Christo	van der Merwe	Farm: Ptn 2 Zuur Fontein 224
Francois	van der Merwe	Remainder of Sous 226
Gert	van der Walt	Vodacom
Kokkie	van der Westhuizen	Farm: Zuur Fontein 224
Deon	Van der Westhuizen	Plaas: Klein Rooiberg
Herman	van Heerden	Portion 5 of the farm Klein Rooiberg No. 227
Hentie	van Jaarsveld	Agri SA: Loeriesfontein Landbouvereniging
Riaan	Van Wyk	Hantam Local Municipality
NJ	Van Zyl	Agri SA: Loeriesfontein Landbouvereniging
Hannes	Van Zyl	Agri SA: Loeriesfontein Landbouvereniging
Abraham	van Zyl	Farm: Remainder Blaauw Pan 175
Albertus	Van Zyl	PTN 3 Farm GIFKOP116
Paul	Venter	MTN Telecoms
Charles	Versfeld	Farm: Remainder Buchufontein 184
Fred	Versfeld	Remainder Farm Buchu Fontein 184
Noel	Viljoen	Hantam Local Municipality
Ronelle	Visagie	EWT
Jonathan	Visagie	Telkom
Dorien	Werth	NC Dept of Environment and Nature Conservation
Ted	Williams	South African Astronomical Observatory
Justine	Wyngaardt	Eskom
Megan	.	Sustainable Energy Africa
		Sustainable Energy & Climate Change Project
	..	DE BEERS CONSOLIDATED MINES (Pty) Ltd



Appendix 7G
Minutes of Meetings
(To be included in FEIAR)

SiVEST



**ENVIRONMENTAL IMPACT
ASSESSMENTS (EIAs) FOR THE FOUR
(4) PROPOSED MAINSTREAM WIND
FARMS, AND BASIC ASSESSMENTS
(BAs) FOR THE ASSOCIATED GRID
CONNECTIONS NEAR
LOERIESFONTEIN, NORTHERN CAPE
PROVINCE**

**MINUTES OF THE
FOCUS GROUP MEETING**

Landowners

**Held on
Wednesday, 01 November 2017 at 09h00
NG Church Hall, Church Street, Loeriesfontein
Northern Cape Province**

SiVEST SA (Pty) Ltd

Contact: Stephan Jacobs / Hlengiwe Ntuli

Address: PO Box 2921
51 Wessels Road
Rivonia 2128

Tel: 011 798 0600

Fax: 011 803 7272

E-mail: stephanj@sivest.co.za
hlengiwen@sivest.co.za

Draft Minutes prepared by:

Stephan Jacobs

Please address any comments to Stephan Jacobs or Hlengiwe Ntuli at the above address

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FOCUS GROUP MEETING

Venue: NG Church Hall, Church Street, Loeriesfontein
Date: Wednesday, 01 November 2017
Time: 09h00 – 10h30

1 WELCOME, INTRODUCTIONS

Nicolene Venter welcomed everyone who attended the Focus Group Meeting (FGM) and thanked them for attending. She then proceeded to discuss the agenda of the meeting. Nicolene introduced herself and noted that Imaginative Africa have been appointed by SiVEST to assist with the Public Participation Process (PPP) for the proposed projects. Nicolene asked if the representatives from SiVEST and Mainstream who were present at the meeting could please introduce themselves and explain their roles with regards to the proposed projects.

It was agreed that the presentation be presented in English and that the attendees could raise their comments / concerns in the language of their choice. Should any clarification / translation regarding any aspect of the presentation be required, the team will gladly assist.

2 MEETING ATTENDEES

The Focus Group Meeting (FGM) was attended by the following representatives from the project team:

- Stephan Jacobs from SiVEST;
- Nicolene Venter from Imaginative Africa;
- Rebecca Thomas from Mainstream; and
- Devon Steenkamp from Mainstream.

The FGM was attended by the following affected local landowners:

- Mr. Albie Louw (Portion 1 of the Farm Hartebeest Leegte No. 216);
- Mr. Hermanus Nel (Remainder of the Farm Hartebeest Leegte No. 216); and
- Mr. Hein Burden (Portion 2 of the Farm Georg's Vley No. 217).

In addition, the following affected local landowners sent apologies for not being able to attend the FGM but requested that minutes of the meeting be sent to them:

- Mrs. Marie Burden (Portion 2 of the Farm Georg's Vley No. 217).

A copy of the Attendance Record is attached as **Annexure A**.

3 PURPOSE OF THE MEETING

Nicolene Venter informed the attendees that the purpose of the FGM was to:

- To provide an overview of the proposed projects;
- To provide feedback on the findings with regards to the wind farm projects as documented in the EIA phase specialist reports;

- To provide an opportunity to raise comments and/or concerns regarding the proposed projects; and
- To record comments, issues and concerns raised.

4 PROJECT CONTEXT AND OVERVIEW

Stephan Jacobs presented an overview of the proposed projects explaining the background to the projects, what the projects would entail, what the EIA and BA processes entail, and the current status of the EIA and BA processes. In addition, Stephan Jacobs also presented the findings with regards to the wind farm projects as documented in the EIA phase specialist reports

Refer to **Annexure B** for a copy of the presentation.

5 DISCUSSION SESSION AND QUESTIONS

Please refer to **Annexure C** for the discussion session.

6 CLOSURE AND WAY FORWARD

Nicolene Venter closed the meeting at approximately 10h30. She informed the attendees that the FGM minutes, presentation, and attendance record would be forwarded to everyone who attended the meeting.

ATTENDANCE RECORD

**FOUR (4) PROPOSED MAINSTREAM WIND FARMS NEAR
LOERIESFONTEIN: LANDOWNER FOCUS GROUP MEETING
ATTENDANCE RECORD**

FIRST NAME	LAST NAME	COMPANY
Stephan	Jacobs	SiVEST SA
Nicolene	Venter	Imaginative Africa
Rebecca	Thomas	Mainstream
Devon	Steenkamp	Mainstream
Albie	Louw	Landowner: Portion 1 of the Farm Hartebeest Leegte No. 216
Hermanus	Nel	Landowner: Remainder of the Farm Hartebeest Leegte No. 216
Hein	Burden	Landowner: Portion 2 of the Farm Georg's Vley No. 217

COPY OF PRESENTATION

ENVIRONMENTAL IMPACT ASSESSMENTS FOR THE PROPOSED DEVELOPMENT OF THE GRASKOPPIES, HARTEBEEST LEEGTE, ITHEMBA AND !XHA BOOM WIND FARMS AND BASIC ASSESSMENTS FOR THE PROPOSED GRID CONNECTIONS NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

DEA Ref. Nos:-

- GRASKOPPIES WIND FARM: 14/12/16/3/3/2/1017
- HARTEBEEST LEEGTE WIND FARM: 14/12/16/3/3/2/1015
- ITHEMBA WIND FARM: 14/12/16/3/3/2/1016
- !XHA BOOM WIND FARM: 14/12/16/3/3/2/1018

BA Ref. No: To be issued

FOCUS GROUP MEETING - LANDOWNERS

Consulting Engineers • Project Managers • Environmental Consultants • Town and Regional Planners

A PROFESSIONAL TEAM DELIVERING CREATIVE PROJECT SOLUTIONS

SIVEST





- Welcome, introduction and apologies
- Purpose and conduct of meeting
- Background to the proposed development
- Environmental process followed and findings
- Discussion session
- Closure



- To provide an overview of the proposed projects
- To provide feedback on the findings as documented in EIA phase specialist reports
- Provide an opportunity to raise comments and/or concerns regarding the proposed projects
- To record comments, issues and concerns raised

PROJECT OVERVIEW

■ What does the proposed development entail?

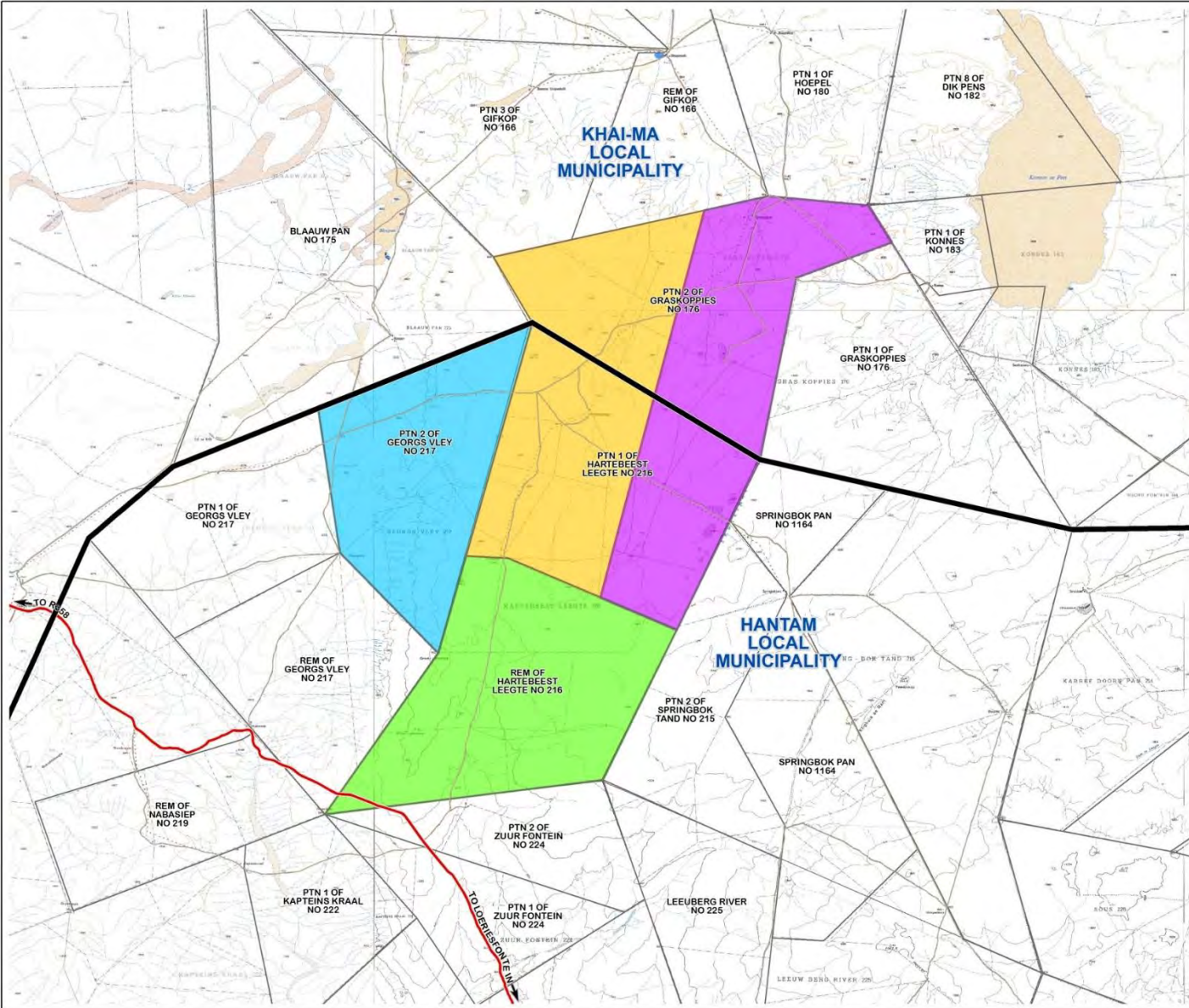
- Construction of the Graskoppies, Hartebeest Leegte, Ithemba and !Xha Boom Wind Farms, each comprising 47 wind turbines with a maximum generation capacity of 235MW.
 - Associated infrastructure for each facility includes:
 - New 132kV on-site IPP Substation
 - Medium voltage cables connecting the turbines to the new substation
 - Temporary construction laydown area
 - Operation and maintenance buildings
 - Internal access roads
 - Hardstanding areas/ platforms for each turbine

■ Why is the project being proposed?

- To generate electricity to feed into the national grid
- Promote use of renewable energy
- To help meet future energy consumption requirements



PROPOSED CONSTRUCTION OF FOUR WIND FARMS NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE
PROJECT OVERVIEW



- Legend**
- Local Municipal Boundaries
 - Secondary Roads
 - Local Access Roads
 - Adjoining Farm Boundaries
- Proposed Wind Farm Projects**
- Graskoppies Wind Farm
 - Hartebeestlegte Wind Farm
 - Ithemba Wind Farm
 - Xha! Boom Wind Farm

SOURCE: MUNICIPAL DEMARCATION BOARD, 2011
NGL 2014

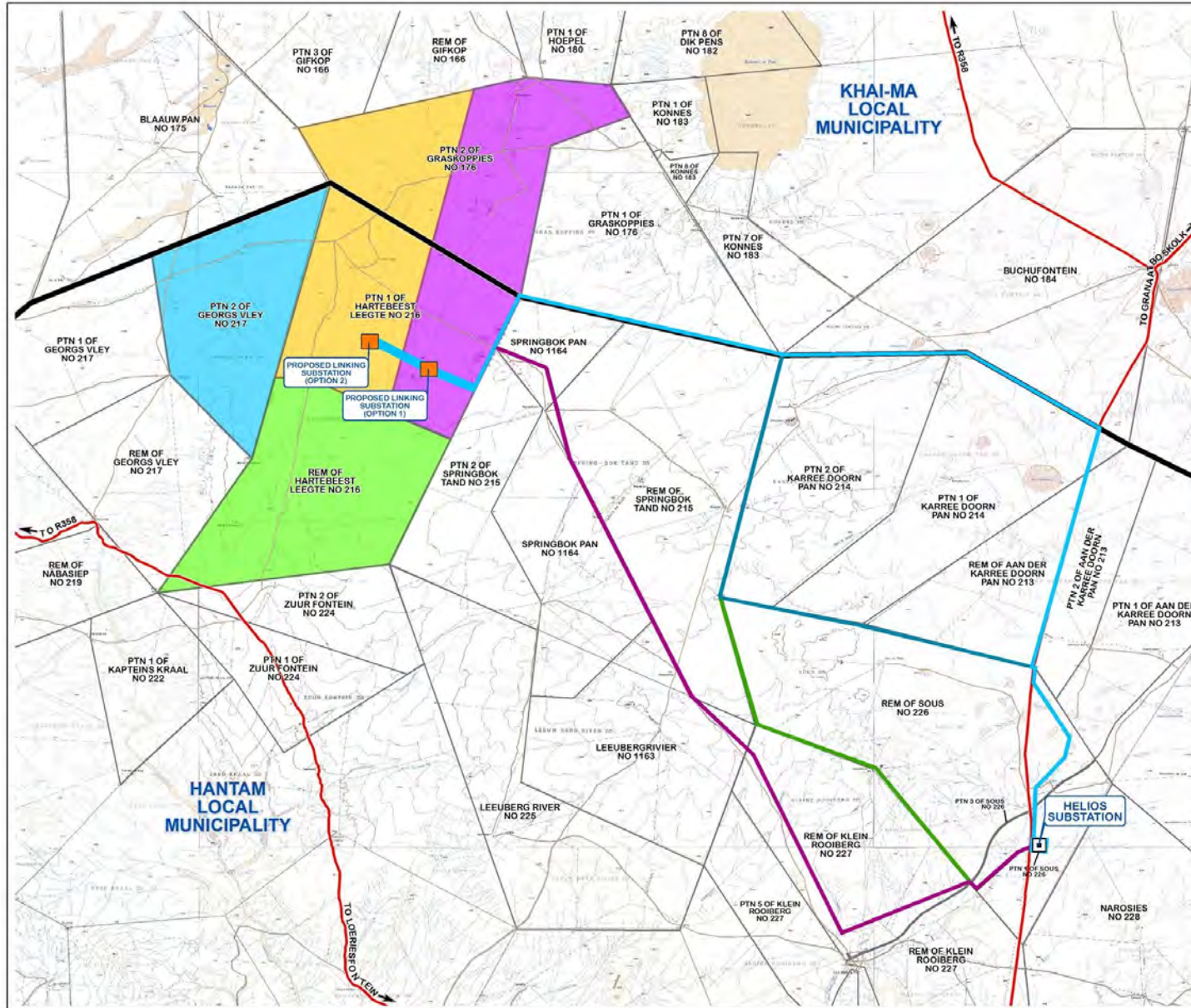
	ENVIRONMENTAL DIVISION 51 WESSLES ROAD KENILDA 7125 JOHANNESBURG SOUTH AFRICA Phone: +27 11 785 0000 Fax: +27 11 803 2212 e-mail: info@sivest.co.za	

Project No 13622	Prepared By HLS	Date 20/09/2017
Map Ref No 13622/NL_01	Revision 0	Date

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- Mainstream proposing to construct four (4) 132kV power lines, four (4) 33kV/132kV on-site IPP substations and a 132kV Linking Substation (hereafter referred to as the “grid connections”), to connect proposed wind farms to national grid at Helios Substation
- Grid connection projects being undertaken as separate BA processes (separate Environmental Authorisations)
- However, a single public participation process being undertaken for all projects (wind farm and grid connection projects)
- Findings of Specialist Studies for grid connection projects not available yet as projects have not officially commenced – Will be notified when the reports for the grid connection are available



PROPOSED CONSTRUCTION OF FOUR WIND FARMS AND ASSOCIATED GRID CONNECTION NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE
PROJECT OVERVIEW

Legend

- Local Municipal Boundaries
- Secondary Roads
- Local Access Roads
- Adjoining Farm Boundaries
- Helios Substation
- Proposed Linking Substation Site Alternatives

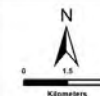
Proposed Wind Farm Projects

- Graskoppies Wind Farm
- Hartebeestleege Wind Farm
- Ithemba Wind Farm
- Xha! Boom Wind Farm

Proposed Corridor Alternatives

- Option 1
- Option 2
- Option 3
- Option 4

SOURCE: MUNICIPAL DEMARCATION BOARD, 2011
NGI, 2014

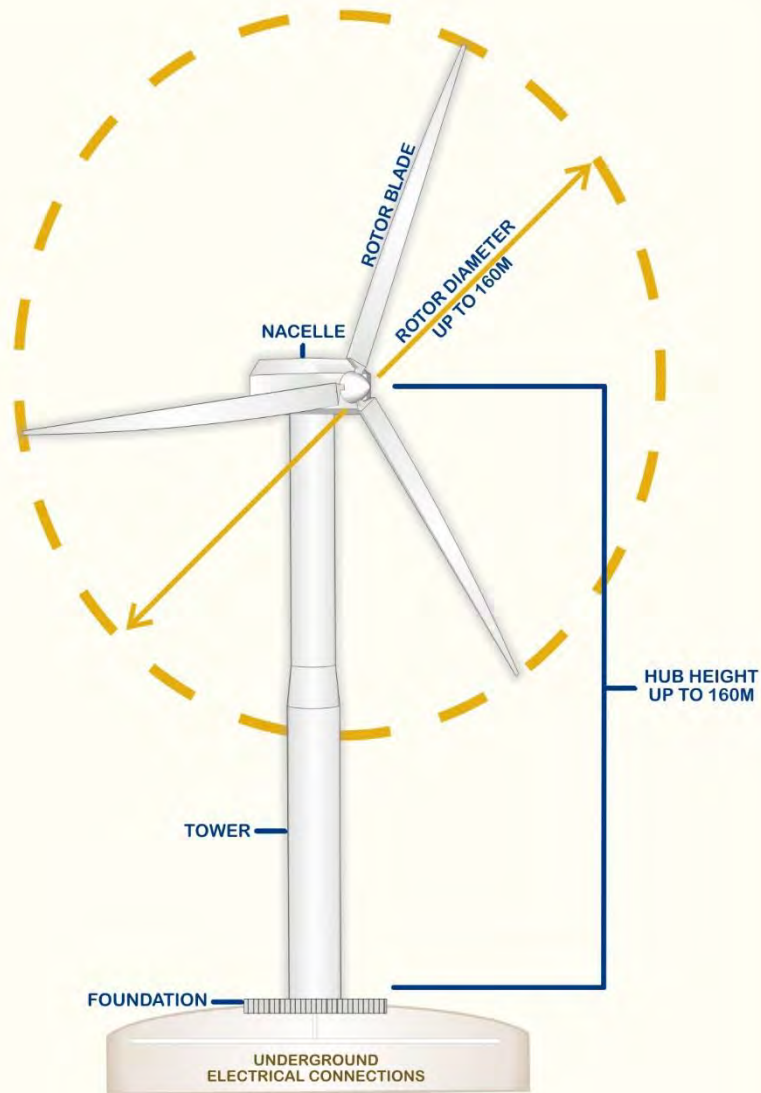


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Project No 13622	Prepared By KLS	Date 18/10/2016
Map Ref No 13622/BID_01	Revision 2	Date 23/05/2017

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WIND TURBINE COMPONENTS
(ADAPTED AND DRAWN BY SIVEST, 2011)

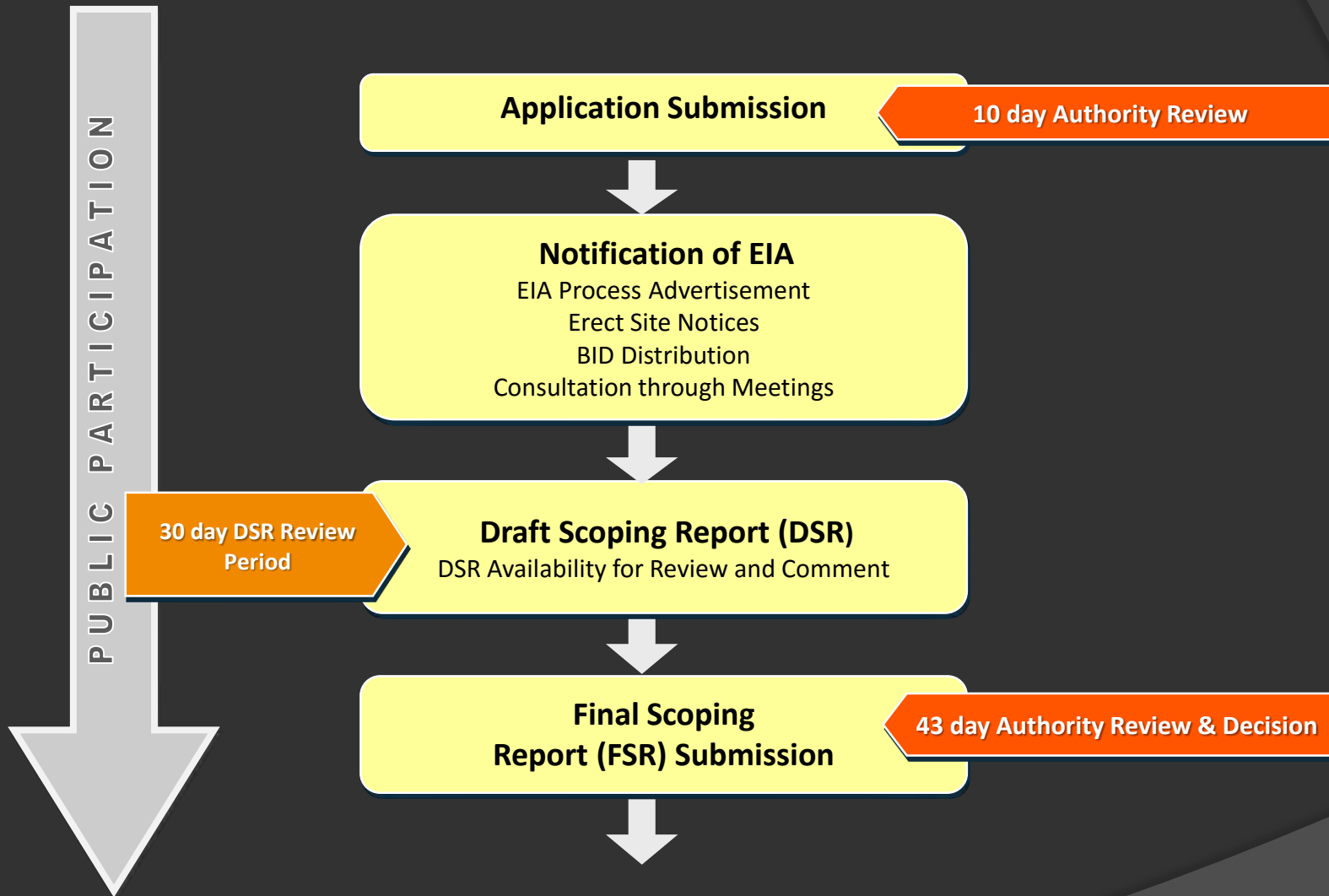


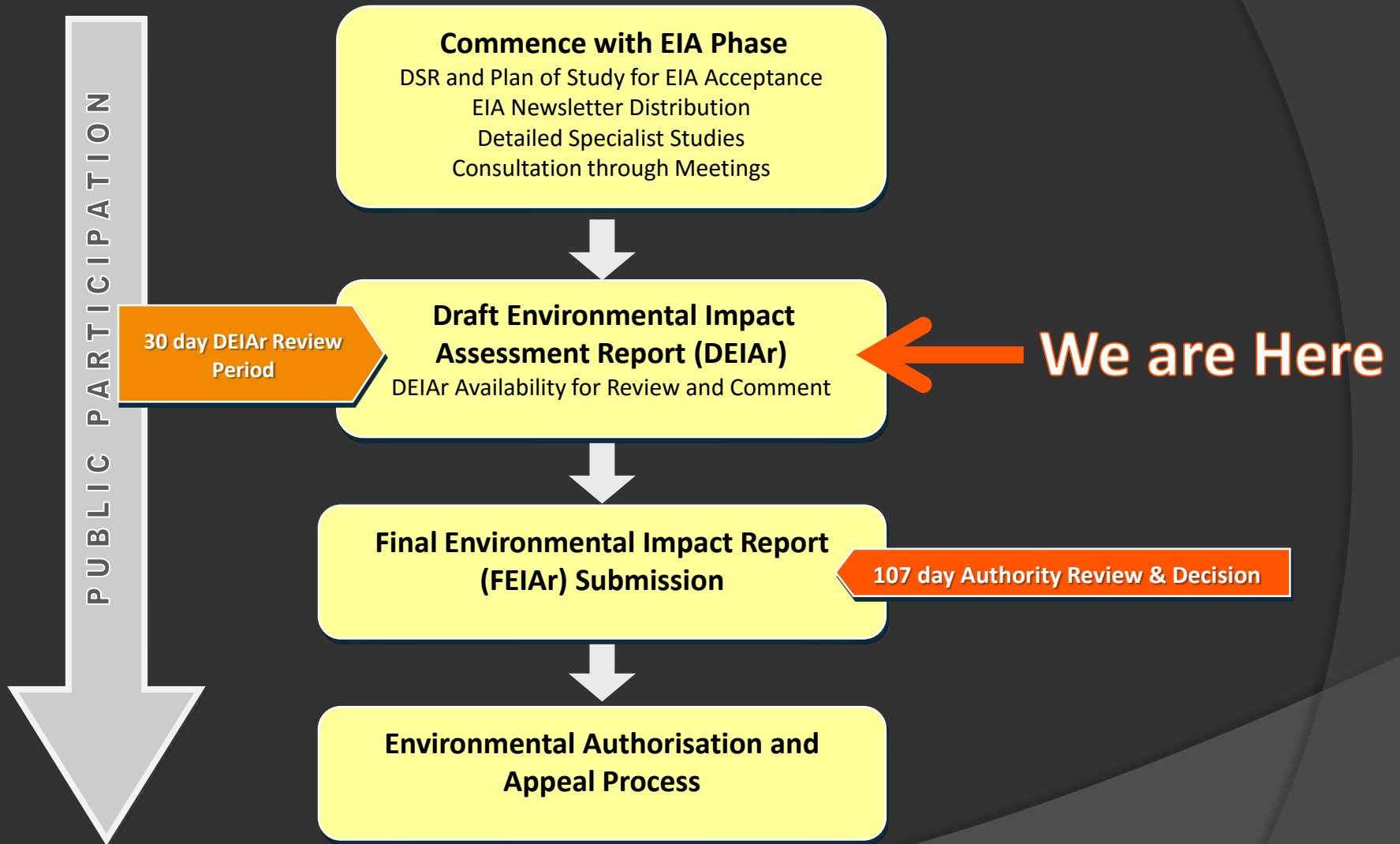
- **Who is the independent EAP?**
 - SiVEST SA

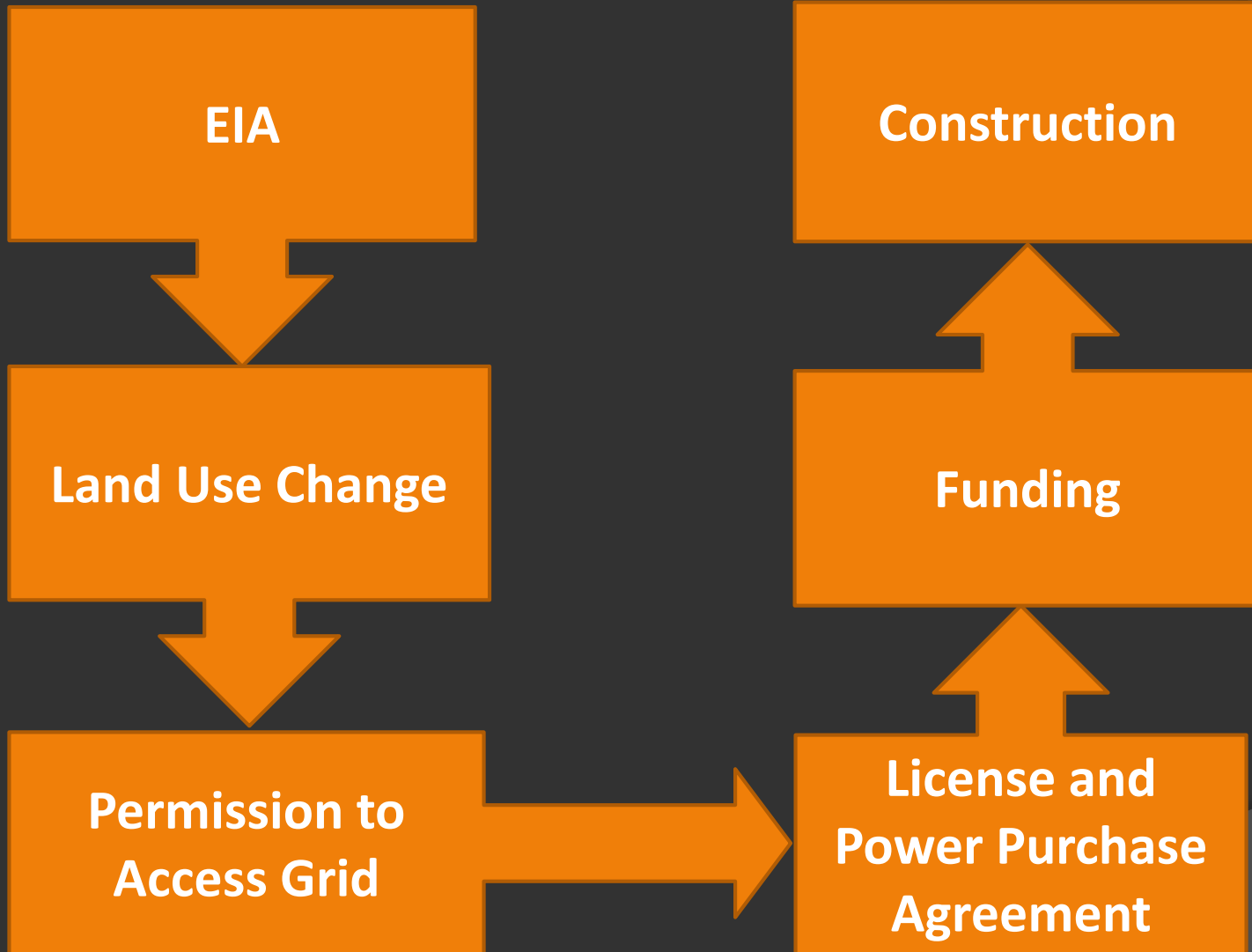
- **Why undertake an EIA?**
 - Legal requirement
 - Consider environmental impacts and mitigation measures
 - Provide stakeholders/I&APs the opportunity to participate

- **Who is the applicant?**
 - South Africa Mainstream Renewable Power Developments (Pty) Ltd

- **Who is the decision-making authority?**
 - Department of Environmental Affairs (DEA)







ENVIRONMENTAL FINDINGS

■ EIA phase underway

- Rating of significance of impacts
- Compliance with Equator Principles
- Compliance with all National legislation
- Comparative assessment of on-site alternatives
- Environmental Management Programme

■ Environmental aspects being assessed

- Biodiversity (flora and fauna)
- Avifauna (including pre-construction monitoring)
- Bats (including pre-construction monitoring)
- Surface Water
- Soils and Agricultural Potential
- Noise
- Visual
- Heritage
- Socio-economic
- Geotechnical
- Path Loss and Risk Assessment in terms of the Square Kilometre Array (SKA)

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> • Vegetation (Bushmanland Basin Shrubland and Western Bushmanland Klipveld) is classified as Least Threatened • Namakwa Biodiversity Sector Plan (2007) does not identify any Critical Biodiversity Areas or Ecological Support Areas on or near the proposed wind farm sites. • Largely characterised by arid grassland or low shrubland with low diversity and low sensitivity. • Sensitive features such as pans, drainage lines and rocky outcrops occupy only small proportions of each site and are not affected by the site layout. 			
Mitigation	<p>Construction and operational phase mitigation measures provided include:</p> <ul style="list-style-type: none"> • Avoidance of high sensitivity areas and drainage lines • Pre-construction walkthrough to identify areas of sensitivity • Removal and translocation of any fauna threatened by construction activity • Need for Open Space, Erosion and Rehabilitation and Alien Plant management plans. 			

No fatal flaws were identified and the proposed development could therefore be authorised, provided all proposed mitigation and avoidance measures are implemented.

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> • The projects are located in the ecological transitional zone between the Nama Karoo and Succulent Karoo biomes which supports a high diversity of bird species. • An estimated 56 species were recorded in the study area, of which 12 are priority species. • Potential impacts include collisions with turbines, displacement due to disturbance or habitat transformation and electrocution. • Sensitive areas are water points and surface water features. • Priority species which could potentially be vulnerable to wind turbine collisions are Northern Black Korhaan, Karoo Korhaan, Kori Bustard and Ludwig's Bustard. 			
Mitigation	<p>Construction and operational phase mitigation measures provided include:</p> <ul style="list-style-type: none"> • Provision of exclusion zones around existing water points and pans. • Provision of 300m and 500m buffer zones around identified nests. • Post construction monitoring. 			

The proposed wind farms will have varying levels of impact on avifauna ranging with the greatest impact resulting from collisions with turbines. This could be reduced to a medium impact through the application of mitigation measures

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> The most abundant bat species recorded in the study area is <i>Tadarida aegyptiaca</i> (Egyptian Free-tailed bat) <i>Miniopterus natalensis</i> (Natal long-fingered bat) = only migratory species detected on site, although analysis over the 12 month monitoring period did not reveal any activity levels indicative of a migratory event. Areas of high sensitivity were mapped to identify areas which could experience elevated rates of bat fatalities due to wind turbines. These areas were designated as 'no-areas' and have accordingly been avoided by the wind farm layouts. 			
Mitigation	<p>Construction and operational phase mitigation measures provided include:</p> <ul style="list-style-type: none"> Adherence to sensitivity map during turbine placement. Revegetation of damaged areas after construction. Implementation of a post construction bat monitoring study. Application of curtailment. 			

The proposed wind farms may be authorised provided that the proposed mitigation measures are adhered to.

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> Orange and Olifants-Cape Primary Catchment; Lower Orange and Olifants / Doorn Water Management Area. Numerous surface water resources were identified on all four wind farm sites. Include individual drainage lines, watercourses, and wetlands. Potential impacts include loss of wetland and riparian habitat, soil erosion and degradation, soil and water contamination and loss of fauna. 			
	20 depression wetlands, 1 major drainage line and 75 drainage lines were identified.	1 depression wetland and 45 drainage lines were identified.	13 depression wetlands, 1 major drainage line and 14 drainage lines were identified.	2 depression wetlands, 3 major drainage lines and 237 drainage lines were identified.
Mitigation	<p>Construction and operational phase mitigation measures provided include:</p> <ul style="list-style-type: none"> Designation of surface water resources as 'Highly Sensitive' and the establishment of ecological buffer zones to protect these resources. Avoidance of direct impacts on delineated surface water resources. Establishment of internal road crossing areas. Post construction rehabilitation. 			

With implementation of mitigation measures, the proposed development components as per the layout are acceptable and therefore, may be environmentally authorised.

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> • Soils across site are predominantly shallow, sandy soils on underlying rock or hard-pan carbonate, of the Coega, Mispah, Glenrosa and Askham soil forms. • Limited climatic moisture availability and poor soils are major limitations to agriculture. • The sites are therefore unsuitable for cultivation and agricultural land use is restricted to low intensity grazing. • The site is classified as Class 7 – non-arable low potential grazing land with a very low grazing capacity. • There are no agriculturally sensitive areas and no parts of the site need to be avoided by the development. 			
Mitigation	<p>Mitigation measures include:</p> <ul style="list-style-type: none"> • Erosion control for all phases of development and the management of topsoil during construction; • Minimise road footprint and control vehicle access; • Implementation of dust control measures and implementation of effective spillage and waste management. 			

Because of the low agricultural potential of the site, agricultural impact will be low and as such there are no restrictions relating to agriculture which would preclude authorisation of the proposed development..

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> • Study area has a natural / scenic visual character, with a rural or pastoral component. • The study area is not generally valued for its tourism significance and is rated as having a low visual sensitivity. • No sensitive visual receptors (such as guest houses and other tourist facilities) were identified in the study area. • Several scattered farmsteads in the area were identified as potentially sensitive visual receptors and impacts on these receptors ranged from medium to high. • There are no visually sensitive roads in the study area. 			
Mitigation	<p>Mitigation measures include:</p> <ul style="list-style-type: none"> • Vegetation clearance to be minimised and cleared areas to be rehabilitated as soon as possible. • Dust suppression techniques to be implemented on all gravel access roads. • Light fittings for security at night should reflect the light toward the ground and prevent light spill. 			

The visual impacts associated with the construction and operation phases can be mitigated to acceptable levels provided the recommended mitigation measures are implemented. As such, the impacts identified are not significant enough to prevent the authorisation from being granted.

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> Projects could have a noise impact on the surrounding area, as there are noise-sensitive developments within the (potential) area of acoustical influence of the construction activities. 			
	<ul style="list-style-type: none"> construction of access roads & construction traffic may increase noise levels sufficiently to result in noise impacts of medium significance (especially at night). 			
	<ul style="list-style-type: none"> Slight potential for noise impact during operational phase. Sig however LOW 	<ul style="list-style-type: none"> Noise impact of medium sig for NSD02 for of WF. Cumulative impact of medium sig for NSD03. 	<ul style="list-style-type: none"> Noise impact of medium sig for NSD04 for operation of WF. Cumulative impact of medium sig for NSD03. 	<ul style="list-style-type: none"> Slight potential for noise impact during operational phase. Sig however LOW
Mitigation	<ul style="list-style-type: none"> planning construction activities as far way from noise sensitive receptors as possible Layout of the WEF should avoid noise sensitive receptors as far as possible 			

Project can be authorized from a noise perspective subject to the implementation of the recommended mitigation

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	7 heritage resources	1 heritage resource	3 heritage resources	3 heritage resources
	<ul style="list-style-type: none"> • In addition, several areas with existing infrastructure such as fenced off camps, windmills and reservoirs were identified. • No identified heritage resources are affected by the proposed wind farm layout. • Palaeontological significance is rated as low and pending the discovery of significant new fossil material, no further specialist studies are deemed necessary. 			
Mitigation	<p>Mitigation measure include:</p> <ul style="list-style-type: none"> • A pre-construction walk down of the final layout; • Formal mitigation measures to be provided for any heritage features identified during the walkdown; • Provision of a Heritage Management Plan to guide construction and operation; • Avoidance of sites rated as medium and high sensitivity; 			

The overall impact on heritage resources is seen as acceptable, mitigation measures address any impacts on heritage resources.

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> • Relevant national, provincial, and local government policies reveal that the development of RE technologies is strongly supported by government. • These type of projects stimulate the local economy and create new employment opportunities. • Additional positive impacts include skills development and training, increased household income and a sustainable increase in production and GDP. • Projects will benefit the local municipalities which currently have a small economic base and high rates of unemployment. • Negative impacts occurring mainly during the construction phase could worsen the health of local communities, reduce access to social facilities and infrastructure locally and increase the incidence of social ills if not adequately mitigated. 			
Mitigation	<p>Mitigation measures include:</p> <ul style="list-style-type: none"> • Prioritisation of local community members for the allocation of jobs; • Local procurement of labour, goods and services; • Use of social responsibility allocations to avoid deterioration in social and economic infrastructure. 			

The overall socio-economic impact on is seen as acceptable, subject to the implementation of mitigation measures.

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> • Site is relatively flat with local ridges associated with dolerite intrusions. • Only prominent hill is Groot Rooiberg, on the southern site boundary. • Water table is 10m below the ground level during the winter months and consequently the site is dry throughout the year. • Founding conditions seen as relatively favourable, with excavatability seen as the main concern. • No mining has occurred on site, thus no undermined areas occur on site. There is, however occurrences of economic mineral deposits on the northern portion of the site. • The site is not situated on dolomitic land. • No contaminated soils were noted. The site is also not on or near a tailings dam. 			
Recommendation	<p>Although geotechnical conditions are expected to be favourable over the site, it is recommended that further, more detailed investigations are undertaken to confirm the assumed ground conditions given in this report.</p>			

Conditions on site are generally seen as favourable. However this report should be supplemented with a detailed geotechnical investigation.

	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> • During construction up to 100 vehicles will travel to site in the morning peak hour, the majority travelling from the proposed construction camp along the R358. • Other transportation aspects relating to the proposed project, including access, internal circulation and abnormal vehicle transportation were investigated. • Report recommends primary access to the site to be via the R358 which links directly to the N7. • This route is appropriate for both legal vehicles as well as abnormal vehicles carrying the wind turbine components. • LWEF project will require a total of 167.9km of road to be constructed of which 32.51km are existing track roads that need to be upgraded. 			
Mitigation	<ul style="list-style-type: none"> • All abnormal loads must be transport under a permit • A route study be undertaken to confirm the most appropriate route to site • Dust suppression techniques should be utilized • Traffic Management Plan must be prepared once the Project advances to the preliminary phase. 			

Access route (option 4) via the R358 in combination with the N7 is the preferred route both for abnormal vehicles as well as other legal vehicles.

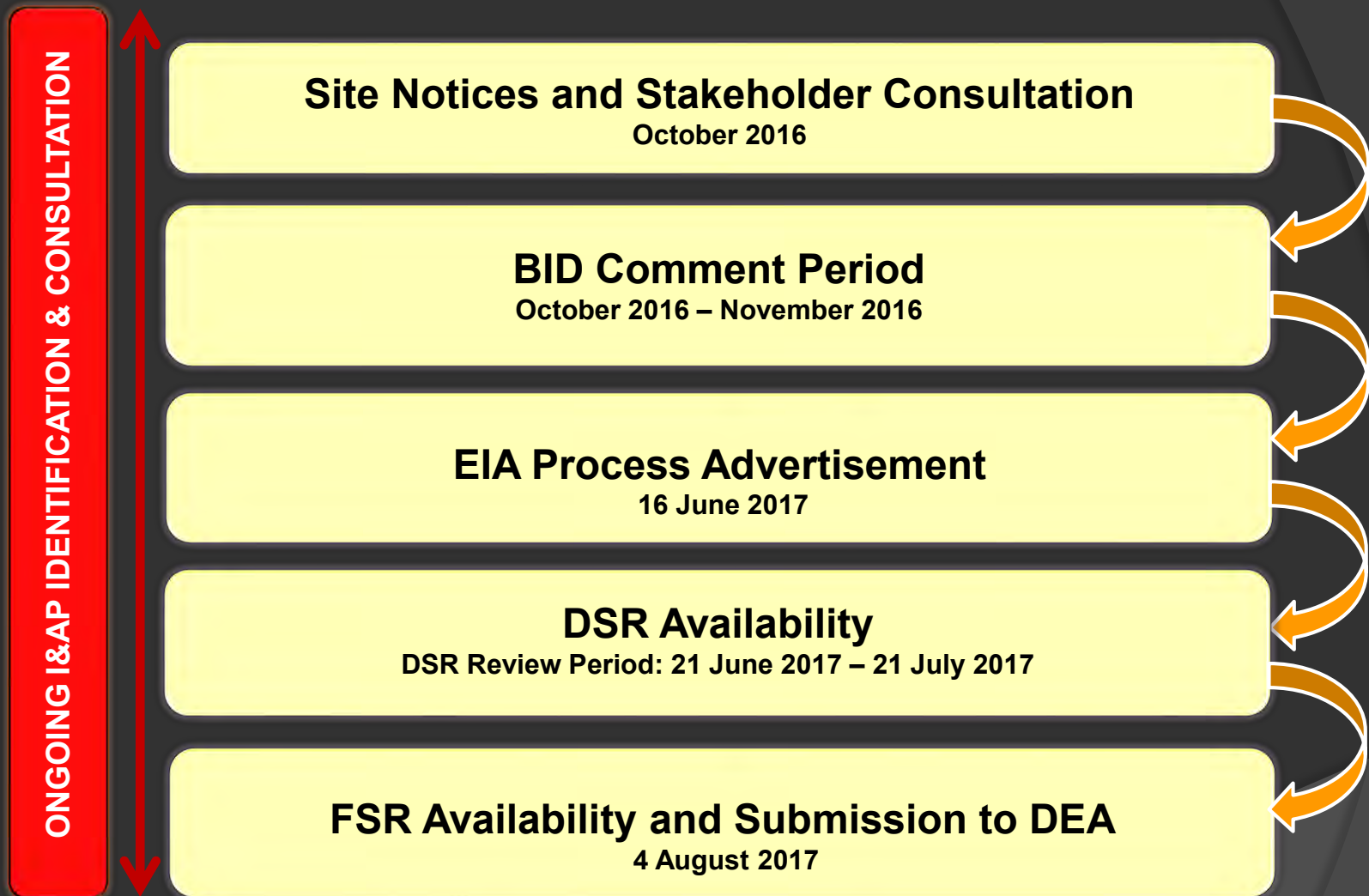
	Graskoppies	Hartebeest Leegte	Ithemba	!Xha Boom
General Findings	<ul style="list-style-type: none"> • Intent of evaluation is to ensure that the facility poses a low risk of detrimental impact on the SKA by using known radiated emission amplitudes of the Acciona AW3000/125 TH100 50Hz wind turbine. • Specific mitigation measures to be implemented on the AW3000/125 TH100 50Hz wind turbine in order to achieve 40 dB of attenuation has been reviewed and agreed by SKA South Africa as described in the Acciona Control Plan. • Due to natural terrain barriers and distance between facility and closest SKA unit, no degradation of performance is expected when mitigated AW 125 TH100A Acciona turbines are installed 			
Mitigation	<ul style="list-style-type: none"> • To verify overall windfarm emissions, ambient measurements should be done at the new site before construction starts. Tests points should be carefully selected based on test equipment sensitivity with the objective to observe the increase in ambient emissions as construction progresses. • Final site tests will be done on completion of the project to confirm the radiated emission levels. Although not anticipated, proper mitigation measures on identified emitters will be studied and implemented if final test shows emissions exceeding the SKA threshold. 			

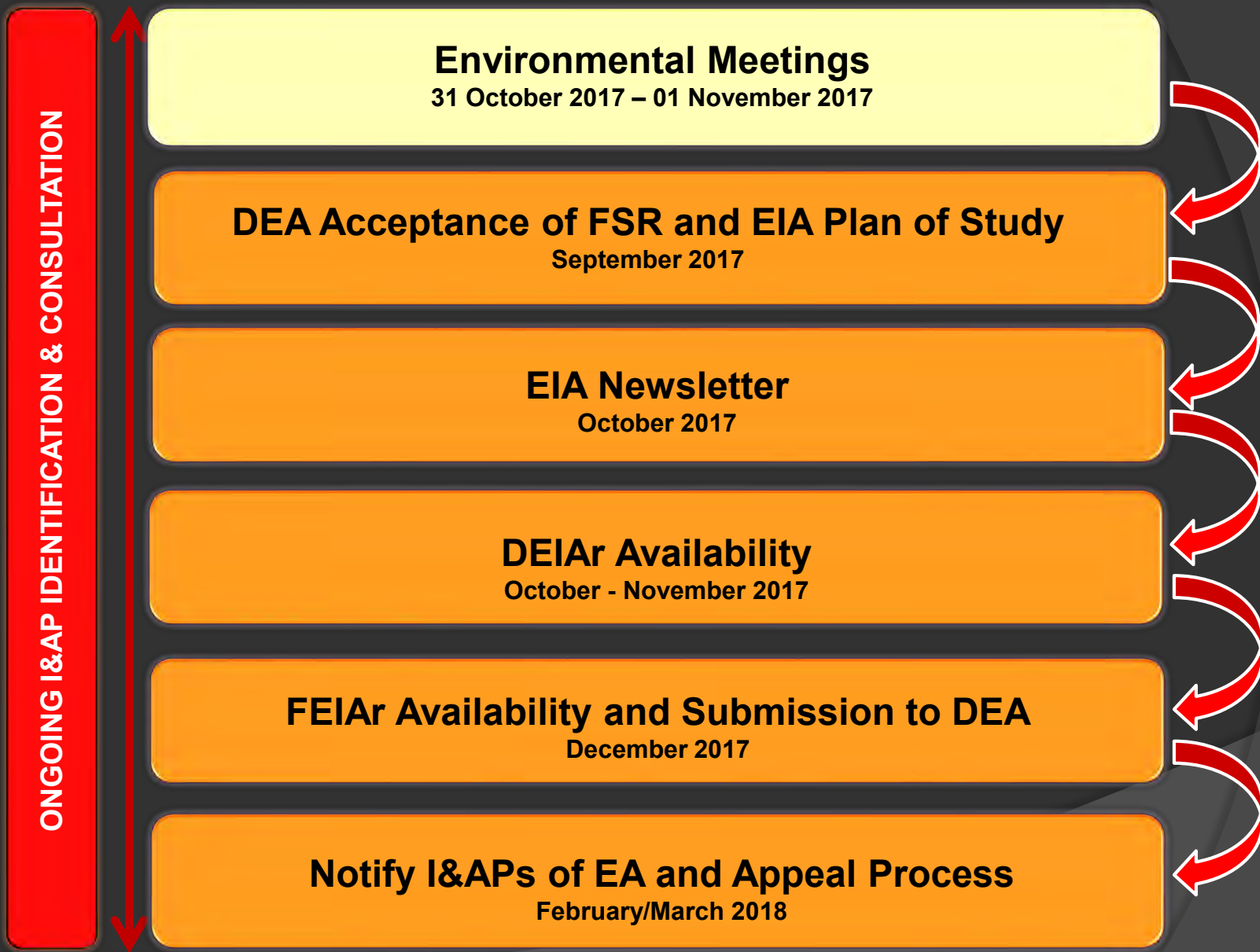
- A different turbine will be used for the proposed development.
- This turbine would have to be subjected to the same EMI and RFI studies.
- More accurate EMI and RFI studies will thus be required and undertaken when a final turbine has been selected and the layout finalised.
- Prior to construction a new path loss and risk assessment will also be undertaken based on a final layout, using a worst case scenario turbine and approved by the SKA before any turbines are installed on the proposed site.
- These studies can only be undertaken once Mainstream have selected a final turbine and have undertaken the final modelling.
- As such, Mainstream have suggested that the DEA include a condition that further modelling and EMI and RFI studies be undertaken once the final turbine has been chosen.
- Mainstream will continue to engage with SKA accordingly throughout this process.

LAYOUT ALTERNATIVES

- **Layout alternatives will be presented in the DEIAr.**
- **Design to incorporate specialist findings and stakeholder input.**

PUBLIC PARTICIPATION





DISCUSSION

SiVEST Environmental Division

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Rivonia

2128

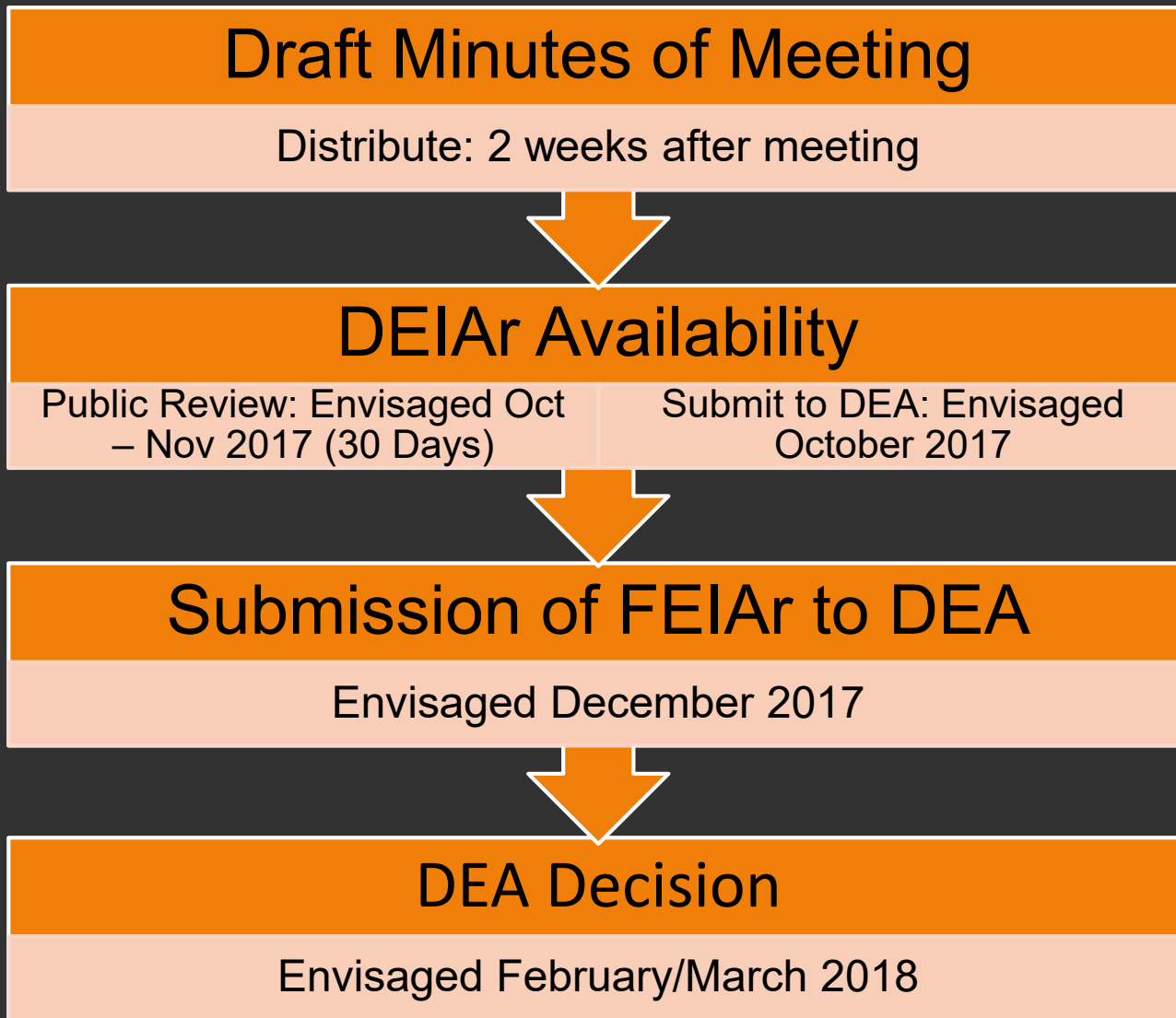
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DISCUSSION DOCUMENT



ENVIRONMENTAL IMPACT ASSESSMENTS (EIAs) AND ENVIRONMENTAL MANAGEMENT PROGRAMMES (EMPRs) FOR THE FOUR (4) PROPOSED MAINSTREAM WIND FARMS AND BASIC ASSESSMENTS (BAs) FOR THE ASSOCIATED GRID CONNECTION NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

DEA Ref.	Hartebeest Leegte windplaas	14/12/16/3/3/2/1015
	Ithemba Windplaas	14/12/16/3/3/2/1016
	Graskoppies Windplaas	14/12/16/3/3/2/1017
	!Xha Boom	14/12/16/3/3/2/1018

DEA Ref for Grid Connection: To be issued

DRAFT DISCUSSION DOCUMENT

**Focus Group Meeting: Landowners
NG Church Hall, Church Street, Loeriesfontein**

Wednesday, 01 November 2017

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Comments / concerns / issues have been categorised according to environmental impact and thereafter according to SURNAME.

The comments / concerns / issues captured are not verbatim, but a summary

LIST OF ABBREVIATIONS

BID	Bidding Process	DEA	Department of Environmental Affairs	EA	Environmental Authorisation
LO	Landowner	MW	Megawatt	SKA	Square Kilometre Array
SS	Substation				


Issue/Comment	Raised By	Response
1. Water Related Comments/Issues		
The project team was informed that the water source in the area is very low and under extreme strain.	Louw, Albie Landowner: Hartebeest Leegte	Water source is one of the main concerns that is being assessed and needs to be addressed. Currently a combination of boreholes and “trucking-in” water is being considered. A full water study will be undertaken. It was also mentioned that from an engineering point of view this problem could be solved from a designing point of view. Rebecca Thomas, Mainstream Renewable
2. Socio-Economic Related Comments/Issues		
The project team was informed that there is a five (5) year lease agreement on the property.	Louw, Albie Landowner: Hartebeest Leegte	At this stage of the project, and if the LO agrees, the lease agreement can be extended. Rebecca Thomas, Mainstream Renewable
It was enquired where will the construction workers be housed as it seems that Klipirand is closer than Loeriesfontein.		At this stage, only Loeriesfontein is being considered as the infrastructure in Klipirand is not feasible. Rebecca Thomas, Mainstream Renewable
It was enquired whether a Mainstream Employee will be permanently based in Loeriesfontein.		Mainstream’s current employee, Mr Devon Steenkamp, will also be responsible for the Leeuwberg Projects. It is not envisaged that a person will be based on site as maintenance issues will be attended to as and when required. Rebecca Thomas, Mainstream Renewable
3. Power Line Corridor Related Comments/Issues		
It was enquired how the power connection is being proposed from the development on his property to the Helios SS.	Louw, Albie Landowner: Hartebeest Leegte	A detailed routing has not yet been determined, but the corridor as presented, in consultation with the LOs will be submitted to the DEA for decision-making. Rebecca Thomas, Mainstream Renewable
4. Contract Related Comments/Issues		
It was enquired whether Mainstream will amend the contract between themselves and the LO should there be any changes regarding MW electricity output.	Louw, Albie Landowner: Hartebeest Leegte	It was confirmed that should there be any changes, whether technical or power outputs, this will be discussed with the LO and amended contracts will be drawn up and signed by both parties.

Issue/Comment	Raised By	Response
		Rebecca Thomas, Mainstream Renewable
5. Technical Related Comments/Issues		
It was enquired whether the area where the wind turbines will be erected would be fenced off or the whole farm.	Burden, Hein Landowner: Georgs Vley	The area where the wind turbines will be erected will not be fenced off. However, should there be a need to replace / repair the farm fence (especially to protect the infrastructure), Mainstream will discuss the matter with the LO to determine the type and standard of the fence and any financial matters related to this activity. The above is also relevant to any access roads that might be required on the property. Rebecca Thomas, Mainstream Renewable
It was asked who will be responsible for maintaining the farm fence of the farm as well as that of the substations being proposed on the property.		This will be the responsibility of Mainstream, in consultation with the LO. Rebecca Thomas, Mainstream Renewable
It was recommended that should there be a need for any changes on the property i.e. new access road, etc, that this be discussed with the LO.	Louw, Albie Landowner: Hartebeest Leegte	It was confirmed that should there be any changes on properties, that these will be done in liaison with the registered LO. Rebecca Thomas, Mainstream Renewable
It was enquired as to what type of turbines are being proposed for this development i.e. the same as in Porterville.		Technology has changed since the first wind farm developments and are being changed as new and improved technology is being developed to ensure maximum output. Rebecca Thomas, Mainstream Renewable
In terms of the ratio between the blade length, distance between ground and blade tip and wind speed whether there could be any damage to the blade in strong wind.		Current technical studies indicated that the best results for electricity generation would be a blade length of 160m. To prevent damages to the blades, the hub will be automatically turned off (slow stay position) to prevent possible damage to the blades. Rebecca Thomas, Mainstream Renewable

Issue/Comment	Raised By	Response
It was enquired whether the Helios SS has sufficient capacity to carry all the proposed renewable energy projects in the area.		Helios MTS capacity would be reached should the Leeuwsberg Projects be approved. Rebecca Thomas, Mainstream Renewable
6. Other Mainstream General Related Comments/Issues		
It was enquired what can be done to expedite the possible approval of the four (4) Leeuwsberg Windfarm Projects.	Nel, Hermanus Landowner: Hartebeest Leegte	According to the current information available it seems that the BID date for this round of submissions is early 2019. Taking all the licencing processes into consideration there could be a 6 to 8 month's saving. Rebecca Thomas, Mainstream Renewable
It was commented that the 2019 elections could have an impact on the projects BID timeframe.	Louw, Albie Landowner: Hartebeest Leegte	The comment has been noted. Nicolene Venter, Imaginative Africa
It was asked as to what power does Eskom have to stop this proposed development.		The authority that does have the power / right to stop this proposed development is the DEA, the competent authority who will grant or refuse an EA. Rebecca Thomas, Mainstream Renewable
It was asked what impact will Prospecting Applications have on the proposed development.		The team is currently not aware of any Prospecting Applications lodged against any of the proposed properties. Prospecting Applications also need to go through a consultation process. Rebecca Thomas, Mainstream Renewable
It was enquired what was the end decision regarding the SKA objection submitted for the Dwarsrug Project.		The objection was attended to and approval has been granted for the Dwarsrug Project. Rebecca Thomas, Mainstream Renewable
It was asked when is the operational date for the Dwarsrug Project.		The envisaged date is 7 December 2017. Should this event be recorded visually, a copy of the video will be sent to the LOs. Rebecca Thomas, Mainstream Renewable

ENVIRONMENTAL IMPACT ASSESSMENTS (EIAs) FOR THE PROPOSED CONSTRUCTION OF FOUR (4) MAINSTREAM WIND FARMS, AND BASIC ASSESSMENTS (BAS) FOR THE ASSOCIATED GRID CONNECTIONS NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

PROOF OF PUBLIC OPEN DAY AND FOCUS GROUP MEETINGS (FGMs)

AUTHORITY FGM
Undertaken with members of the local and district municipalities
Date, Time, Venue and meeting attendees
<ul style="list-style-type: none">▪ <u>Date:</u> Tuesday 31 October 2017▪ <u>Time:</u> 14:30 – 16:00▪ <u>Venue:</u> Boardroom of the Hantam Local Municipality Offices, Hope Street, Calvinia <p>The following individuals attended the meeting:</p> <ul style="list-style-type: none">▪ <u>Hantam Local Municipality:</u><ul style="list-style-type: none">○ Municipal Manager: Mr Jan Swartz○ Chief Town Planner: Mr Trim Leukes○ Chief Technical Services: Mr Riaan van Wyk▪ <u>Khai-Ma Local Municipality:</u><ul style="list-style-type: none">○ Mr Obakeng Isaacs
Pictures / Photos


LANDOWNER FGM
Undertaken with affected landowners

Date, Time, Venue and meeting attendees

- **Date:** Wednesday 01 November 2017
- **Time:** 09:00 – 10:30
- **Venue:** NG Church Hall, Loeriesfontein

The following affected local landowners attended the meeting:

- Mr. Albie Louw (Portion 1 of the Farm Hartebeest Leegte No. 216);
- Mr. Hermanus Nel (Remainder of the Farm Hartebeest Leegte No. 216); and
- Mr. Hein Burden (Portion 2 of the Farm Georg's Vley No. 217).

In addition, the following affected local landowner(s) sent apologies for not being able to attend the FGM but requested that minutes of the meeting still be sent to them:

- Mrs. Marie Burden (Portion 2 of the Farm Georg's Vley No. 217).

Pictures / Photos



PUBLIC OPEN DAY
Undertaken with members of the local community

Date, Time, Venue and meeting attendees

- **Date:** Wednesday 01 November 2017
- **Time:** 11:30-13:00
- **Venue:** Loeriesfontein Community Hall

The Public Open Day was a poster display session which was held in order to provide I&APs and members of the local community with information regarding the proposed development, present the environmental findings and invite I&APs and members of the local community to raise any further comments and/or concerns that they may have.

Pictures / Photos







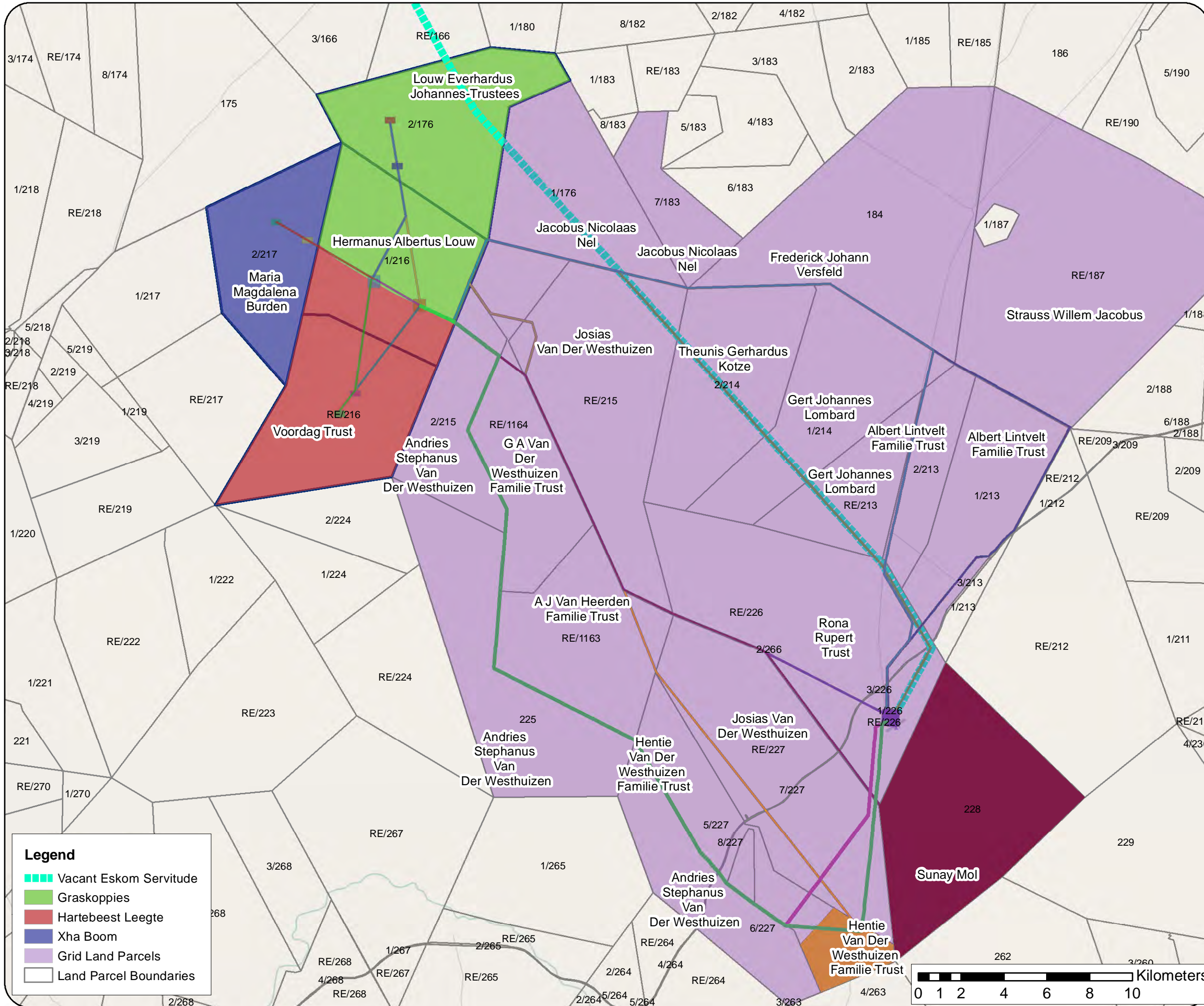
PUBLIC OPEN DAY
Undertaken with members of the local community

Date, Time, Venue and meeting attendees



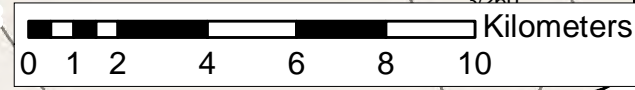


Appendix 7H
Landowner Notifications and Consent



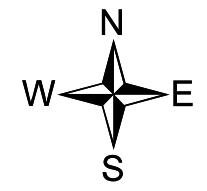
Legend

- - - - Vacant Eskom Servitude
- Graskoppies
- Hartebeest Leegte
- Xha Boom
- Grid Land Parcels
- Land Parcel Boundaries



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Site Coordinates:
 X-Coordinate: Decimal Degrees
 Y-Coordinate: Decimal Degrees



Revision: None

Scale on A3: WGS84 UTM ZONE 34S

Reference: DAVID DEAN

Created By: SHELDON VANDREY

Checked By: 31 MAY 2016

Date:

Project: **Leeuwborg**

Map Title: **Grid Options Land Owners**



LIST OF AFFECTED LANDOWNERS

FARM DESCRIPTION	LANDOWNER
Portion 1 of the Farm Graskoppies No. 176	Koosie Nel
Portion 2 of the Farm Graskoppies No. 176	Nico Louw
Portion 7 of the Farm Konnes No. 183	Jacobus Nel
The Farm Buchufontein No. 184	Fred Versfeld
Portion 2 of the Farm Aan De Karree Doorn Pan No. 213	Braam Lintvelt
Remainder of the Farm Aan De Karree Doorn Pan No. 213	Gert Lombaard
Portion 1 of the Farm Karree Doorn Pan No. 214	Gert Lombaard
Portion 2 of the Farm Karree Doorn Pan No. 214	Theunis Kotze
Portion 2 of the Farm Springbok Tand No. 215	Andries Stephanus Van Der Westhuizen
Remainder of the Farm Springbok Tand No. 215	Josias van der Westhuizen
Portion 1 of the Farm Hartebeest Leegte No. 216	Albie Louw
Portion 1 of the Farm Sous No. 226	Rona Rupert Trust
Portion 3 of the Farm Sous No. 226	Rona Rupert Trust
Remainder of the Farm Sous No. 226	Rona Rupert Trust



Appendix 7I
Distribution to Organs of State

**ENVIRONMENTAL IMPACT ASSESSMENTS (EIAs) FOR THE PROPOSED DEVELOPMENT OF FOUR (4) WIND FARMS AND BASIC ASSESSMENTS (BAs)
FOR THE ASSOCIATED GRID CONNECTION NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE**

DISTRIBUTION OF THE WIND FARM FINAL BASIC ASSESSMENT REPORT (FBAR) TO ORGANS OF STATE FOR COMMENT

TITLE	SURNAME	NAME	POSITION	POSTAL ADDRESS	EMAIL ADDRESS
HANTAM LOCAL MUNICIPALITY					
Mr	Van Wyk	Riaan	Environmental Officer	Private Bag X14 CALVINIA 8190	socialdev1@hantam.gov.za
Mr	Swartz	Jl	Municipal Manager	Private Bag X14 CALVINIA 8190	municipalmanager@hantam.gov.za
KHAI-MA LOCAL MUNICIPALITY					
Mr	Isaacs	Obakeng	Municipal Manager	PO Box 108 Pofadder 8890	munman@khaima.gov.za
Mr	Josop	P	Land Use Officer	PO Box 108 Pofadder 8890	commonage@khaima.gov.za
NAMAKWA DISTRICT MUNICIPALITY					
Mr	Loubser	Jannie	Manager: Planning	Private Bag X20 SPRINGBOK 8240	janniel@namakwa-dm.gov.za
DEPARTMENT OF ENVIRONMENTAL AFFAIRS BIODIVERSITY					
Mr	Lekota	Seoka		Private Bag X447 Pretoria 0001	slekota@environment.gov.za
Mr	Rabothata	Mmatlala		Private Bag X447 Pretoria 0001	slekotamrabothata@environment.gov.za
AGRI SA-NORTHERN CAPE					
Mr	Myburg	Henning	General Manager	PO Box 1094 KIMBERLEY 8300	henning@agrink.co.za
DEPARTMENT OF WATER AND SANITATION					
Ms	Makungo	Ester	Environmental Officer	Private Bag X6101 KIMBERLEY 8300	makungoe@dws.gov.za
Mr	Sekwaila	Khutjo		Private Bag X6101 KIMBERLEY 8300	SekwailaK@dws.gov.za

**ENVIRONMENTAL IMPACT ASSESSMENTS (EIAs) FOR THE PROPOSED DEVELOPMENT OF FOUR (4) WIND FARMS AND BASIC ASSESSMENTS (BAs)
FOR THE ASSOCIATED GRID CONNECTION NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE**

DISTRIBUTION OF THE WIND FARM FINAL BASIC ASSESSMENT REPORT (FBAR) TO ORGANS OF STATE FOR COMMENT

TITLE	SURNAME	NAME	POSITION	POSTAL ADDRESS	EMAIL ADDRESS
NORTHERN CAPE DEPARTMENT OF AGRICULTURE, LAND REFORM & RURAL DEVELOPMENT					
Mr	Steenkamp	Gert		P.O.Box 65 CALVINIA 8190	gsteenkamp@ncpg.gov.za
Ms	Cuttings	Ruth		P.O.Box 65 CALVINIA 8190	ruth.cuttings@yahoo.com
DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES					
<i>Provincial Department</i>					
Mrs	Collett	Anneliza		Private Bag X120 PRETORIA 0001	ThokoB@nda.agric.za
Ms	Buthelezi	Thoko	Directorate Land Use and Soil	Private Bag X120 PRETORIA 0001	ThokoB@nda.agric.za
DEPARTMENT OF MINERAL RESOURCES (DMR)					
Mr	Muila	Vincent		Private Bag x6093 KIMBERLEY 8300	
Mr	Sekepane	Rasibe		Private Bag x6093 KIMBERLEY 8300	
NORTHERN CAPE DEPT OF ENVIRONMENT AND NATURE CONSERVATION					
Mr	Fisher	Brian	Director Environmental Impact Management	Private Bag X86102 KIMBERLEY 8300	bfisher@ncpg.gov.za
NORTHERN CAPE DEPT OF SPORT, ARTS & CULTURE: Heritage Resources Unit					
Mr	Lenyibi	Patrick	Manager: Heritage Resources	Private Bag X5004 KIMBERLEY 8300	plenyibi@ncpg.gov.za
SANRAL - WESTERN REGION					
Ms	Abrahams	Nicole	Environmental Coordinator	Private Bag X19 BELLVILLE 7535	abrahamsn@nra.co.za
NORTHERN CAPE DEPARTMENT OF ROADS AND PUBLIC WORKS					
Mr	Roelofse	Jaco	Director: Planning & Design	PO Box 3132 Kimberley 8300	roelofse.j@vodamail.co.za
SAHRA: HEAD OFFICE					
Ms	Higgitt	Natasha	Heritage Officer: Northern Cape	PO Box 4637 CAPE TOWN 8000	nhiggitt@sahra.org.za

**ENVIRONMENTAL IMPACT ASSESSMENTS (EIAs) FOR THE PROPOSED DEVELOPMENT OF FOUR (4) WIND FARMS AND BASIC ASSESSMENTS (BAs)
FOR THE ASSOCIATED GRID CONNECTION NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE**

DISTRIBUTION OF THE WIND FARM FINAL BASIC ASSESSMENT REPORT (FBAR) TO ORGANS OF STATE FOR COMMENT

TITLE	SURNAME	NAME	POSITION	POSTAL ADDRESS	EMAIL ADDRESS
ESKOM					
Mr	Geeringh	John	Chief Planner	PO Box 1091 JOHANNESBURG 2000	GeerinJH@eskom.co.za
SQUARE KILOMETRE ARRAY					
Dr	Tiplady	Adriaan	Manager: Site Categorisation	PO Box 522 SAXONWOLD 2132	atiplady@ska.ac.za
SA CIVIL AVIATION AUTHORITY (SA CAA)					
Ms	Stroh	Lizell	Obstacle Specialist	Private Bag X73 HALFWAY HOUSE 1685	strohl@caa.co.za
AIR TRAFFIC AND NAVIGATION SERVICES (ATNS)					
Ms	Morobane	Johanna	Manager: Corporate Sustainability and Environment	Private Bag X15 KEMPTON PARK 1620	JohannaM@atns.co.za
Ms	Masilela	Simphiwe	Obstacle Evaluator	Private Bag X15 KEMPTON PARK 1620	SimphiweM@atns.co.za
TRANSNET FREIGHT RAIL					
Mr	Fiff	Sam	Environmental Manager: Freight Rail	PO Box 255 BLOEMFONTEIN 9300	sam.fiff@transnet.net
SENTECH					
Mr	Koegelenberg	Johan	Renewable Projects	Private Bag X06 Honeydew 2040	koegelenbergj@sentech.co.za
TELKOM					
Ms	Spammer	Candice	Western Cape Region	Private Bag X20700 BLOEMFONTEIN 9300	SpammerC1@telkom.co.za
Mr	Bester	Amanda	Wayleave Officer	Private Bag X20700 BLOEMFONTEIN 9300	WayleaCR@telkom.co.za BesterAD@telkom.co.za
Ms	van den Heever	Heleen	Ops Manager Central Region	Private Bag X20700 BLOEMFONTEIN 9300	vdheevhd@telkom.co.za

**ENVIRONMENTAL IMPACT ASSESSMENTS (EIAs) FOR THE PROPOSED DEVELOPMENT OF FOUR (4) WIND FARMS AND BASIC ASSESSMENTS (BAs)
FOR THE ASSOCIATED GRID CONNECTION NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE**

DISTRIBUTION OF THE WIND FARM FINAL BASIC ASSESSMENT REPORT (FBAR) TO ORGANS OF STATE FOR COMMENT

TITLE	SURNAME	NAME	POSITION	POSTAL ADDRESS	EMAIL ADDRESS
ENDANGERED WILDLIFE TRUST					
Mr	Leeuwner	Lourens	Renewable Energy Project Manager	Private Bag X11, Modderfontein, 1609, Johannesburg	lourensl@ewt.org.za
Ms	Golding	Marianne	Administrator	Private Bag X11, Modderfontein, 1609, Johannesburg	
WESSA					
Mr	Griffiths	Morgan	Environmental Governance Programme Manager	PO Box 12444, Centrahil, Port Elizabeth, 6006, South Africa	morgan.griffiths@wessa.co.za
BIRDLIFE SOUTH AFRICA					
Ms	Stevens	Candice	Policy Manager	PO Box 515 RANDBURG 2125	advocacy@birdlife.org.za
Ms	Ralston	Samantha		PO Box 515 RANDBURG 2125	
South African Astronomical Observatory					
Prof	Ted	Williams	Director	PO Box 9 OBSERVATORY 1935	williams@sao.ac.za
Mr	Chris	Coetzee	Technical Operations Manager Southernland Site	PO Box 25 SUTHERLAND 6920	chris@salt.ac.za

Stephan Jacobs

From: sivist_PPP
Sent: Thursday, February 22, 2018 4:16 PM
To: Andrea Gibb; Stephan Jacobs; 'rebecca.thomas@mainstreamrp.com'; 'Nicolene Venter'
Cc: 'John Geeringh'; 'Heleen van den Heever'; 'Morgan Griffiths'; 'Obakeng Isaacs'; 'P Josop'; 'Brian Fisher'; 'Henning Myburg'; 'Sam Fiff'; 'Amanda Bester'; 'Riaan Van Wyk'; 'Natasha Higgitt'; 'Nicole Abrahams'; 'Ted Williams'; 'Chris Coetzee'; 'Hettie Buys'; 'Thoko Buthelezi'; 'Mmatlala Rabothata'; 'Marianne Golding'; 'Simphiwe Masilela'; 'Candice Stevens'; 'Johanna Morobane'; 'Lizell Stroh'; 'Adriaan Tiplady'; 'Ramatholo Sefako'; 'Samantha Ralston-Paton'; 'Gert Steenkamp'; 'Moses Mahunonyane'; 'Johan Koegelenberg'; 'Lourens Leeuwner'; 'Stanley Tshitwamulomoni'; 'Candice Spammer'; 'Seoka Lekota'; 'Jaco Roelofse'; 'Patrick Lenyibi'; 'Ester Makungo'; 'Garth Julius'; 'Jannie Loubser'; 'ruth.cuttings@yahoo.com'; 'kmotlhomini@ncpg.gov.za'; 'lefleurd@dws.gov.za'; 'BesterAD@telkom.co.za'
Subject: RE: Proposed Mainstream Substations and Power Lines for the Wind Farms near Loeriesfontein: DBARs Comment Period Ended
Importance: High
Follow Up Flag: Follow up
Flag Status: Completed

******* Please note that this email was sent from a NO REPLY email address. Please do not reply to this address as it is an unmonitored email account.*******

Dear Stakeholder,

BASIC ASSESSMENTS (BAS) FOR THE PROPOSED DEVELOPMENT OF THE 132KV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132KV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- **132kV Graskoppies Substations and Power line – (DEA Ref No.: To be Announced)**
- **132kV Hartbeest Leegte Substations and Power Line – (DEA Ref No.: To be Announced)**
- **132kV Ithemba Substations and Power Line – DEA Ref No.: To be Announced)**
- **132kV !Xha Boom Substations and Power Line – DEA Ref No.: To be Announced)**

Please note that the final day for comments on the Draft Basic Assessments Reports (DBARs) for the above mentioned wind farm projects was **on Monday 05 February 2018**.

This email serves as a reminder to please submit any comments if not done already.

If you do not have any comments please reply to the email and indicate so.

Should you have any comments, please feel free to contact the public participation office at the details below:

SiVEST Environmental

Hlengiwe Ntuli / Stephan Jacobs
PO BOX 2921
Rivonia
2128
Tel: 011 798 0600
Fax: 011 803 7272

Email: hlengiwen@sivest.co.za / stephanj@sivest.co.za

Kind Regards,

Hlengiwe Ntuli

Projects Secretary and PPP Administrator
SiVEST Environmental Division



SiVEST is a Level 3 BBBEE Contributor

Direct +27 11 798 0690 **Tel** +27 11 798 0600 **fax** +27 11 803 7272
email hlengiwen@sivest.co.za **website** www.sivest.co.za



Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners
Durban - Johannesburg - Pietermaritzburg - Richards Bay - Port Louis (Mauritius)

From: sivest_PPP

Sent: 31 January 2018 08:36 AM

To: Andrea Gibb <AndreaG@sivest.co.za>; Stephan Jacobs <StephanJ@sivest.co.za>;
'rebecca.thomas@mainstreamrp.com' <rebecca.thomas@mainstreamrp.com>; 'Nicolene Venter'
<nicolene@imaginativeafrica.co.za>

Cc: 'John Geeringh' <GeerinJH@eskom.co.za>; 'Heleen van den Heever' <vdheevhd@telkom.co.za>; 'Morgan Griffiths'
<morgan.griffiths@wessa.co.za>; 'Obakeng Isaacs' <munman@khaima.gov.za>; 'P Josop'
<commonage@khaima.gov.za>; 'Brian Fisher' <bfisher@ncpg.gov.za>; 'Henning Myburg' <henning@agrink.co.za>; 'Sam Fiff'
<Francis.Rahlapane@transnet.net>; 'Amanda Bester' <WayleaCR@telkom.co.za>; 'Riaan Van Wyk'
<socialdev1@hantam.gov.za>; 'Natasha Higgitt' <nhiggitt@sahra.org.za>; 'Nicole Abrahams' <AbrahamsN@nra.co.za>;
'Ted Williams' <williams@saa.ac.za>; 'Chris Coetsee' <chris@salt.ac.za>; 'Hettie Buys' <HettieB@daff.gov.za>; 'Thoko Buthelezi'
<ThokoB@daff.gov.za>; 'Mmatlala Rabothata' <mrabothata@environment.gov.za>; 'Marianne Golding'
<marianneg@ewt.org.za>; 'Simphiwe Masilela' <ObstacleEvaluators@atns.co.za>; 'Candice Stevens'
<advocacy@birdlife.org.za>; 'Johanna Morobane' <JohannaM@atns.co.za>; 'Lizell Strohl' <strohl@caa.co.za>; 'Adriaan Tiplady'
<atiplady@ska.ac.za>; 'Ramatholo Sefako' <rrs@sao.ac.za>; 'Samantha Ralston-Paton'
<energy@birdlife.org.za>; 'Gert Steenkamp' <gsteenkamp@ncpg.gov.za>; 'Moses Mahunonyane'
<MahunonyaneM@dws.gov.za>; 'Johan Koegelenberg' <KoegelenbergJ@sentech.co.za>; 'Lourens Leeuwner'
<lourensl@ewt.org.za>; 'Stanley Tshitwamulomoni' <StanleyT@environmental.gov.za>; 'Candice Spammer'
<spammec1@telkom.co.za>; 'Seoka Lekota' <slekota@environment.gov.za>; 'Jaco Roelofse'
<roelofse.j@vodamail.co.za>; 'Patrick Lenyibi' <plenyibi@ncpg.gov.za>; 'Ester Makungo' <makungoe@dws.gov.za>;
'Garth Julius' <JuliusG@nra.co.za>; 'Jannie Loubser' <janniell@namakwa-dm.gov.za>; 'ruth.cuttings@yahoo.com'
<ruth.cuttings@yahoo.com>; 'kmotlhoml@ncpg.gov.za' <kmotlhoml@ncpg.gov.za>; 'lefleurd@dws.gov.za'
<lefleurd@dws.gov.za>; 'BesterAD@telkom.co.za' <BesterAD@telkom.co.za>

Subject: RE: Proposed Mainstream Substations and Power Lines for the Wind Farms near Loeriesfontein: DBARs
Comment Period Ending

Importance: High

******* Please note that this email was sent from a NO REPLY email address. Please do not reply to this address as it is an unmonitored email account.*******

Dear Stakeholder,

BASIC ASSESSMENTS (BAS) FOR THE PROPOSED DEVELOPMENT OF THE 132KV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132KV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- 132kV Graskoppies Substations and Power line – (DEA Ref No.: To be Announced)
- 132kV Hartbeest Leegte Substations and Power Line – (DEA Ref No.: To be Announced)
- 132kV Ithemba Substations and Power Line – DEA Ref No.: To be Announced)
- 132kV !Xha Boom Substations and Power Line – DEA Ref No.: To be Announced)

Please note that the final day for comments on the Draft Basic Assessments Reports (DBARs) for the above mentioned wind farm projects is **on Monday 05 February 2018**.

This email serves as a reminder to please submit any comments by the close of business on the **Monday 05 February 2018 (COB)**

Should you have any comments, please feel free to contact the public participation office at the details below:

SIVEST Environmental

Hlengiwe Ntuli / Stephan Jacobs
 PO BOX 2921
 Rivonia
 2128
 Tel: 011 798 0600
 Fax: 011 803 7272
 Email: hlengiwen@sivest.co.za / stephanj@sivest.co.za

<< File: 13622 DBAR Notification Letter IAPs (Afr).pdf >> << File: 13622 DBAR Notification Letter IAPs (Eng).pdf >>

Kind Regards

Andrea Gibb

Senior Manager

SiVEST Environmental Division

<< OLE Object: Picture (Device Independent Bitmap) >>

SIVEST is a Level 3 BBBEE Contributor

Direct +27 11 798 0638 Tel +27 11 798 0600 fax +27 11 803 7272
 email andreaq@sivest.co.za website www.sivest.co.za



Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners
 Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Cape Town - Harare (Zimbabwe)

From: sivest_PPP

Sent: 14 December 2017 04:54 PM

To: Andrea Gibb <AndreaG@sivest.co.za>; Stephan Jacobs <StephanJ@sivest.co.za>;
 'rebecca.thomas@mainstreamrp.com' <rebecca.thomas@mainstreamrp.com>; 'Nicolene Venter'
 <nicolene@imaginativeafrica.co.za>

Cc: 'John Geeringh' <GeerinJH@eskom.co.za>; 'Heleen van den Heever' <vdheevhd@telkom.co.za>; 'Morgan Griffiths'
 <morgan.griffiths@wessa.co.za>; 'Obakeng Isaacs' <munman@khaima.gov.za>; 'P Josop'
 <commonage@khaima.gov.za>; 'Brian Fisher' <bfisher@ncpg.gov.za>; 'Henning Myburg' <henning@agrink.co.za>; 'Sam Fiff'
 <Francis.Rahlapane@transnet.net>; 'Amanda Bester' <WayleaCR@telkom.co.za>; 'Riaan Van Wyk'
 <socialdev1@hantam.gov.za>; 'Natasha Higgitt' <nhiggitt@sahra.org.za>; 'Nicole Abrahams' <AbrahamsN@nra.co.za>;
 'Ted Williams' <williams@saa.ac.za>; 'Chris Coetsee' <chris@salt.ac.za>; 'Hettie Buys' <HettieB@daff.gov.za>; 'Thoko
 Buthelezi' <ThokoB@daff.gov.za>; 'Mmatlala Rabothata' <mrabothata@environment.gov.za>; 'Marianne Golding'
 <marianneg@ewt.org.za>; 'Simphiwe Masilela' <ObstacleEvaluators@atns.co.za>; 'Candice Stevens'
 <advocacy@birdlife.org.za>; 'Johanna Morobane' <JohannaM@atns.co.za>; 'Lizell Stroh' <strohl@caa.co.za>; 'Adriaan
 Tiplady' <atiplady@ska.ac.za>; 'Ramatholo Sefako' <rrs@sao.ac.za>; 'Samantha Ralston-Paton'

<energy@birdlife.org.za>; 'Gert Steenkamp' <gsteenkamp@ncpg.gov.za>; 'Moses Mahunonyane' <MahunonyaneM@dws.gov.za>; 'Johan Koegelenberg' <KoegelenbergJ@sentech.co.za>; 'Lourens Leeuwner' <lourensl@ewt.org.za>; 'Stanley Tshitwamulomoni' <StanleyT@environmental.gov.za>; 'Candice Spammer' <spammec1@telkom.co.za>; 'Seoka Lekota' <slekota@environment.gov.za>; 'Jaco Roelofse' <roelofse.j@vodamail.co.za>; 'Patrick Lenyibi' <plenyibi@ncpg.gov.za>; 'Ester Makungo' <makungoe@dws.gov.za>; 'Garth Julius' <JuliusG@nra.co.za>; 'Jannie Loubser' <janniell@namakwa-dm.gov.za>; 'ruth.cuttings@yahoo.com' <ruth.cuttings@yahoo.com>; 'kmotlhomi@ncpg.gov.za' <kmotlhomi@ncpg.gov.za>; 'lefleurd@dws.gov.za' <lefleurd@dws.gov.za>; 'BesterAD@telkom.co.za' <BesterAD@telkom.co.za>

Subject: Proposed Mainstream Substations and Power Lines for the Wind Farms near Loeriesfontein: DBARs Available for Review

******* Please note that this email was sent from a NO REPLY email address. Please do not reply to this address as it is an unmonitored email account.*******

BASIC ASSESSMENTS (BAS) FOR THE PROPOSED DEVELOPMENT OF THE 132KV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132KV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- **132kV Graskoppies Substations and Power line – (DEA Ref No.: To be Announced)**
- **132kV Hartbeest Leegte Substations and Power Line – (DEA Ref No.: To be Announced)**
- **132kV Ithemba Substations and Power Line – DEA Ref No.: To be Announced)**
- **132kV !Xha Boom Substations and Power Line – DEA Ref No.: To be Announced)**

SiVEST is in the process of undertaking the Basic Assessments (BAs) for the proposed development of the above-mentioned Substations and Power Lines near Loeriesfontein in the Northern Cape Province.

We would like to take this opportunity to inform you that, in accordance with the National Environmental Management Act (NEMA) (as amended), the Draft Basic Assessment Reports (DBARs) will be made available for public comment and review as from **Thursday 14 December 2017 to Monday 05 February 2018** (before end of business day).

The DBARs as well as the accompanying appendices are available online (<http://www.sivest.co.za/> click on 'Downloads' and navigate to '*13622 Mainstream Substations and Power Lines*') and an electronic copy (on CD) has been posted to you. We kindly request that you submit your comments to Public Participation Office at the below details, on or before **Monday 05 February 2018** (before end of business day). SiVEST will forward any comments received after the public comment and review period directly to the relevant case officer at the Department of Environmental Affairs (DEA). Should you have any questions or queries please do not hesitate to contact us at:

Stephan Jacobs / Hlengiwe Ntuli

PO BOX 2921, Rivonia, 2128

Tel – (011) 798 0600

Fax – (011) 803 7272

Email – stephanj@sivest.co.za /
hlengiwen@sivest.co.za

Kind Regards

Andrea Gibb

Senior Manager

SiVEST Environmental Division

<< OLE Object: Picture (Device Independent Bitmap) >>

SiVEST is a Level 3 BBBEE Contributor

Direct +27 11 798 0638 **Tel** +27 11 798 0600 **fax** +27 11 803 7272

email andrea@sivest.co.za **website** www.sivest.co.za



Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners
Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Cape Town - Harare (Zimbabwe)

Stephan Jacobs

From: sivist_PPP
Sent: Wednesday, January 31, 2018 8:36 AM
To: Andrea Gibb; Stephan Jacobs; 'rebecca.thomas@mainstreamrp.com'; 'Nicolene Venter'
Cc: 'John Geeringh'; 'Heleen van den Heever'; 'Morgan Griffiths'; 'Obakeng Isaacs'; 'P Josop'; 'Brian Fisher'; 'Henning Myburg'; 'Sam Fiff'; 'Amanda Bester'; 'Riaan Van Wyk'; 'Natasha Higgitt'; 'Nicole Abrahams'; 'Ted Williams'; 'Chris Coetzee'; 'Hettie Buys'; 'Thoko Buthelezi'; 'Mmatlala Rabothata'; 'Marianne Golding'; 'Simphiwe Masilela'; 'Candice Stevens'; 'Johanna Morobane'; 'Lizell Stroh'; 'Adriaan Tiplady'; 'Ramatholo Sefako'; 'Samantha Ralston-Paton'; 'Gert Steenkamp'; 'Moses Mahunonyane'; 'Johan Koegelenberg'; 'Lourens Leeuwner'; 'Stanley Tshitwamulomoni'; 'Candice Spammer'; 'Seoka Lekota'; 'Jaco Roelofse'; 'Patrick Lenyibi'; 'Ester Makungo'; 'Garth Julius'; 'Jannie Loubser'; 'ruth.cuttings@yahoo.com'; 'kmotlhom@ncpg.gov.za'; 'lefleurd@dws.gov.za'; 'BesterAD@telkom.co.za'
Subject: RE: Proposed Mainstream Substations and Power Lines for the Wind Farms near Loeriesfontein: DBARs Comment Period Ending
Importance: High

******* Please note that this email was sent from a NO REPLY email address. Please do not reply to this address as it is an unmonitored email account.*******

Dear Stakeholder,

BASIC ASSESSMENTS (BAS) FOR THE PROPOSED DEVELOPMENT OF THE 132KV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132KV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- **132kV Graskoppies Substations and Power line – (DEA Ref No.: To be Announced)**
- **132kV Hartbeest Leegte Substations and Power Line – (DEA Ref No.: To be Announced)**
- **132kV Ithemba Substations and Power Line – DEA Ref No.: To be Announced)**
- **132kV !Xha Boom Substations and Power Line – DEA Ref No.: To be Announced)**

Please note that the final day for comments on the Draft Basic Assessments Reports (DBARs) for the above mentioned wind farm projects is **on Monday 05 February 2018**.

This email serves as a reminder to please submit any comments by the close of business on the **Monday 05 February 2018 (COB)**

Should you have any comments, please feel free to contact the public participation office at the details below:

SiVEST Environmental

Hlengiwe Ntuli / Stephan Jacobs
PO BOX 2921
Rivonia
2128
Tel: 011 798 0600
Fax: 011 803 7272
Email: hlengiwen@sivest.co.za / stephanj@sivest.co.za



13622 DBAR

Notification Lett...



13622 DBAR

Kind Regards
Andrea Gibb
Senior Manager
SiVEST Environmental Division



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Direct +27 11 798 0638 **Tel** +27 11 798 0600 **fax** +27 11 803 7272
email andreaq@sivest.co.za **website** www.sivest.co.za



Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners
Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Cape Town - Harare (Zimbabwe)

From: sivest_PPP

Sent: 14 December 2017 04:54 PM

To: Andrea Gibb <AndreaG@sivest.co.za>; Stephan Jacobs <StephanJ@sivest.co.za>;
'rebecca.thomas@mainstreamrp.com' <rebecca.thomas@mainstreamrp.com>; 'Nicolene Venter'
<nicolene@imaginativeafrica.co.za>

Cc: 'John Geeringh' <GeerinJH@eskom.co.za>; 'Heleen van den Heever' <vdheevhd@telkom.co.za>; 'Morgan Griffiths'
<morgan.griffiths@wessa.co.za>; 'Obakeng Isaacs' <munman@khaima.gov.za>; 'P Josop'
<commonage@khaima.gov.za>; 'Brian Fisher' <bfisher@ncpg.gov.za>; 'Henning Myburg' <henning@agrink.co.za>; 'Sam Fiff'
<Francis.Rahlapane@transnet.net>; 'Amanda Bester' <WayleaCR@telkom.co.za>; 'Riaan Van Wyk'
<socialdev1@hantam.gov.za>; 'Natasha Higgitt' <nhiggitt@sahra.org.za>; 'Nicole Abrahams' <AbrahamsN@nra.co.za>;
'Ted Williams' <williams@saa.ac.za>; 'Chris Coetzee' <chris@salt.ac.za>; 'Hettie Buys' <HettieB@daff.gov.za>; 'Thoko
Buthelezi' <ThokoB@daff.gov.za>; 'Mmatlala Rabothata' <mrabothata@environment.gov.za>; 'Marianne Golding'
<marianneg@ewt.org.za>; 'Simphiwe Masilela' <ObstacleEvaluators@atns.co.za>; 'Candice Stevens'
<advocacy@birdlife.org.za>; 'Johanna Morobane' <JohannaM@atns.co.za>; 'Lizell Stroh' <strohl@caa.co.za>; 'Adriaan
Tiplady' <atiplady@ska.ac.za>; 'Ramatholo Sefako' <rrs@saa.ac.za>; 'Samantha Ralston-Paton'
<energy@birdlife.org.za>; 'Gert Steenkamp' <gsteenkamp@ncpg.gov.za>; 'Moses Mahunonyane'
<MahunonyaneM@dws.gov.za>; 'Johan Koegelenberg' <KoegelenbergJ@sentech.co.za>; 'Lourens Leeuwner'
<lourensl@ewt.org.za>; 'Stanley Tshitwamulomoni' <StanleyT@environmental.gov.za>; 'Candice Spammer'
<spammec1@telkom.co.za>; 'Seoka Lekota' <slekota@environment.gov.za>; 'Jaco Roelofse'
<roelofse.j@vodamail.co.za>; 'Patrick Lenyibi' <plenyibi@ncpg.gov.za>; 'Ester Makungo' <makungoe@dws.gov.za>;
'Garth Julius' <JuliusG@nra.co.za>; 'Jannie Loubser' <janniell@namakwa-dm.gov.za>; 'ruth.cuttings@yahoo.com'
<ruth.cuttings@yahoo.com>; 'kmotlhomi@ncpg.gov.za' <kmotlhomi@ncpg.gov.za>; 'lefleurd@dws.gov.za'
<lefleurd@dws.gov.za>; 'BesterAD@telkom.co.za' <BesterAD@telkom.co.za>

Subject: Proposed Mainstream Substations and Power Lines for the Wind Farms near Loeriesfontein: DBARs Available for Review

******* Please note that this email was sent from a NO REPLY email address. Please do not reply to this address as it is an unmonitored email account.*******

BASIC ASSESSMENTS (BAS) FOR THE PROPOSED DEVELOPMENT OF THE 132KV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132KV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- **132kV Graskoppies Substations and Power line – (DEA Ref No.: To be Announced)**
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- **132kV Ithemba Substations and Power Line – DEA Ref No.: To be Announced)**
- **132kV !Xha Boom Substations and Power Line – DEA Ref No.: To be Announced)**

SiVEST is in the process of undertaking the Basic Assessments (BAs) for the proposed development of the above-mentioned Substations and Power Lines near Loeriesfontein in the Northern Cape Province.

We would like to take this opportunity to inform you that, in accordance with the National Environmental Management Act (NEMA) (as amended), the Draft Basic Assessment Reports (DBARs) will be made available for public comment and review as from **Thursday 14 December 2017 to Monday 05 February 2018** (before end of business day).

The DBARs as well as the accompanying appendices are available online (<http://www.sivest.co.za> click on 'Downloads' and navigate to '13622 Mainstream Substations and Power Lines') and an electronic copy (on CD) has been posted to you. We kindly request that you submit your comments to Public Participation Office at the below details, on or before **Monday 05 February 2018** (before end of business day). SiVEST will forward any comments received after the public comment and review period directly to the relevant case officer at the Department of Environmental Affairs (DEA).

Should you have any questions or queries please do not hesitate to contact us at:

Stephan Jacobs / Hlengiwe Ntuli

PO BOX 2921, Rivonia, 2128

Tel – (011) 798 0600

Fax – (011) 803 7272

Email – stephanj@sivest.co.za /
hlengiwen@sivest.co.za

Kind Regards

Andrea Gibb

Senior Manager

SiVEST Environmental Division

<< OLE Object: Picture (Device Independent Bitmap) >>

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Direct +27 11 798 0638 **Tel** +27 11 798 0600 **fax** +27 11 803 7272


email andrea@sivest.co.za **website** www.sivest.co.za




Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners
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Addressed To:		Post Office Stamp
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Mr Thabani Mhlongo South African Weather Service Private Bag X097 PRETORIA 0001</p> <p>_____</p> <p>_____</p>		
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<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Mr .. DE BEERS CONSOLIDATED MINES Cnr. Diamond & Crownwood Rd, Theta JOHANNESBURG 2013</p> <p>_____</p> <p>_____</p>		
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<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Mr Abraham van Zyl Farm: Remainder Blaauw Pan 175 PO Box 61 LOERIESFONTEIN 8185</p> <p>_____</p> <p>_____</p>		
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<p>_____</p> <p>_____</p> <p>_____ Clr Margaret Esau</p> <p>_____ Councillor</p> <p>_____ Hantam Local Municipality</p> <p>_____ 2857 Eeeste Laan</p> <p>_____ CALVINIA</p> <p>_____ 8190</p> <p>_____</p> <p>_____</p>		
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<p>_____</p> <p>_____</p> <p>_____ Ms Bennie Engelbrecht</p> <p>_____ Hantam Local Municipality</p> <p>_____ Posbus 36</p> <p>_____ LOERIESFONTEIN</p> <p>_____ 8185</p> <p>_____</p> <p>_____</p>		
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<p>_____</p> <p>_____</p> <p>_____ Mr Albertus Van Zyl</p> <p>_____ PTN 3 Farm GIFKOP116</p> <p>_____ P O BOX 195</p> <p>_____ LOERIESFONTEIN</p> <p>_____ 8185</p> <p>_____</p> <p>_____</p>		
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DBAR OOS DISTRIBUTION


<input type="checkbox"/> Trace and Track Parcel (CD) <input type="checkbox"/> Registered Letter <input checked="" type="checkbox"/> Fast Mail		Project Number: 13622
Addressed To: <hr/> <hr/> Mr Lourens Leeuwner Ms Marianne Golding Endangered Wildlife Trust Private Bag X11 MODDERFONTEIN 1609		Post Office Stamp: 
		Tracking Number:


<input type="checkbox"/> Trace and Track Parcel (CD) <input type="checkbox"/> Registered Letter <input checked="" type="checkbox"/> Fast Mail		Project Number: 13622
Addressed To: <hr/> <hr/> Mr Riaan Van Wyk Environmental Officer Hantam Local Municipality Private Bag X14 CALVINA 8190		Post Office Stamp: 
		Tracking Number:

<input type="checkbox"/> Trace and Track Parcel (CD) <input type="checkbox"/> Registered Letter <input checked="" type="checkbox"/> Fast Mail		Project Number: 13622
Addressed To: <hr/> <hr/> Mr John Geeringh Chief Planner Eskom: Transmission PO Box 1091 JOHANNESBURG 2000		Post Office Stamp: 
		Tracking Number:


DBAR OOS DISTRIBUTION


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Addressed To: <hr/> <hr/> Mr Patrick Lenyibi Manager: Heritage Resources DEPARTMENT OF SPORT, ARTS & C Private Bag X5004 KIMBERLEY 8300		Post Office Stamp: 
		Tracking Number:


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Addressed To: <hr/> Mr Moses Mahunonyane Ms Ester Makungo Environmental Officer Department of Water & Sanitation Private Bag X6101 KIMBERLEY 8300		Post Office Stamp: 
		Tracking Number:

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Addressed To: <hr/> <hr/> Mr Brian Fisher Director of Environmental Impact Ma Dept of Environment and Nature Co Private bag x6102 KIMBERLEY 8300		Post Office Stamp: 
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Addressed To: <hr/> <hr/> Mr Jaco Roelofse Director: Planning & Design NC Department of Roads & Public Wo PO Box 3132 KIMBERLEY 8300		Post Office Stamp:  Tracking Number:


<input type="checkbox"/> Trace and Track Parcel (CD) <input type="checkbox"/> Registered Letter <input checked="" type="checkbox"/> Fast Mail		Project Number: 13622
Addressed To: <hr/> <hr/> Ms Lizell Stroh Obstacle Specialist rks SA Civil Aviation Authority Private Bag X73 HALFWAY HOUSE 1685		Post Office Stamp:  Tracking Number:

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Addressed To: <hr/> <hr/> Ms Nicole Abrahams Mr Garth Julius SANRAL Private Bag X19 Bellville 7535		Post Office Stamp:  Tracking Number:


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<p>_____</p> <p>_____</p> <p>_____ Mr P Josop _____</p> <p>_____ Mr Obakeng Isaacs _____</p> <p>_____ Municipal Manager _____</p> <p>_____ KHAI-MA LOCAL MUNICIPALITY _____</p> <p>_____ PO Box 108 _____</p> <p>_____ POFADDER _____</p> <p>_____ 8890 _____</p> <p>_____</p> <p>_____</p>		
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<p>_____</p> <p>_____</p> <p>_____ Ms Ruth Cutting _____</p> <p>_____ Mr Gert Steenkamp _____</p> <p>_____ NC Department of Agriculture, Land _____</p> <p>_____ PO Box 65 _____</p> <p>_____ CALVINIA _____</p> <p>_____ 8190 _____</p> <p>_____</p> <p>_____</p>		
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<p>_____</p> <p>_____</p> <p>_____ Mr Jannie Loubser _____</p> <p>_____ Manager: PLanning _____</p> <p>_____ Namakwa District Municipality _____</p> <p>_____ Private Bag X20 _____</p> <p>_____ SPRINGBOK _____</p> <p>_____ 8300 _____</p> <p>_____</p> <p>_____</p>		
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<p>_____</p> <p>_____ Mr Johan Koegelenberg _____</p> <p>_____ Renewable Projects _____</p> <p>_____ SENTECH _____</p> <p>_____ Private Bag X06 _____</p> <p>_____ HONEYDEW _____</p> <p>_____ 2040 _____</p> <p>_____</p>		
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Addressed To:		Post Office Stamp:
<p>_____</p> <p>_____ Dr Ramatholo Sefako _____</p> <p>_____ Head of Telescope Operations (TOPS) _____</p> <p>_____ South African Astronomical Observato _____</p> <p>_____ PO Box 9 _____</p> <p>_____ OBSERVATORY _____</p> <p>_____ 7935 _____</p> <p>_____ Prof Ted Williams _____</p> <p>_____ Mr Chris Coetzee _____</p> <p>_____</p>		
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<p>_____</p> <p>_____ Dr Adriaan Tiplady _____</p> <p>_____ Manager: Site Categorisation _____</p> <p>_____ Square Kilometre Array _____</p> <p>_____ PO Box 522940 _____</p> <p>_____ SAXONWOLD _____</p> <p>_____ 2132 _____</p> <p>_____</p>		
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<p>_____</p> <p>_____ Me Heleen van den Heever _____</p> <p>_____ Ops Manager Central Region _____</p> <p>_____ Telkom (SA) Ltd _____</p> <p>_____ Private Bag X20700 _____</p> <p>_____ BLOEMFONTEIN _____</p> <p>_____ 9300 _____</p> <p>_____ Ms Candice Spammer _____</p> <p>_____ Ms Amanda Bester _____</p>		
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Addressed To:		Post Office Stamp:
<p>_____</p> <p>_____ Mr Sam Fiff _____</p> <p>_____ Environmental Manager: Freight Rail _____</p> <p>_____ Transnet Freight Rail (Jhb) _____</p> <p>_____ PO Box 255 _____</p> <p>_____ BLOEMFONTEIN _____</p> <p>_____ 9300 _____</p>		
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<p>_____</p> <p>_____ Mr Morgan Griffiths _____</p> <p>_____ Conservation Officer _____</p> <p>_____ WESSA: National _____</p> <p>_____ PO Box 12444 _____</p> <p>_____ Central Hill _____</p> <p>_____ PORT ELIZABETH _____</p> <p>_____ 6006 _____</p>		
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_____ _____ _____ Mr Henning Myburg _____ General Manager _____ Agri SA: Northern Cape _____ PO Box 1094 _____ KIMBERLEY _____ _____		
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Addressed To:		Post Office Stamp:
_____ _____ _____ Ms Samantha Ralston-Paton _____ Manager _____ Bird Life South Africa _____ P O Box 515 _____ RANDBURG _____ _____		
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Addressed To:		Post Office Stamp:
_____ _____ _____ Ms Johanna Morobane _____ Ms Simphiwe Masilela _____ Obstacle Evaluator _____ Air Traffic Navigation Services _____ Private Bag x15 _____ KEMPTON PARK _____ _____		
		Tracking Number:


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Addressed To:		Post Office Stamp:
_____	8300	
_____	Ms Thoko Buthelezi	
_____	Mrs Hettie Buys	
_____	Senior Registry Clerk	
_____	Department of Agriculture, Forestry and Private Bag X120 PRETORIA 0001	
		Tracking Number:

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Addressed To:		Post Office Stamp:
_____	1620	
_____	Mr Seoka Lekota	
_____	Mr Stanley Tshitwamulomoni	
_____	Department of Environmental Affairs	
_____	d l Private Bag X447 PRETORIA 0001	
		Tracking Number: REGISTERED LETTER <small>(with a domestic insurance option)</small> ShareCall 0860 111 502 www.sapo.co.za RD 600 055 853 ZA CUSTOMER COPY 301028R

<input type="checkbox"/>	Trace and Track Parcel (CD)	Project Number: 13622
<input type="checkbox"/>	Registered Letter	
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Addressed To:		Post Office Stamp:
_____	2128	
_____	Mr Rasibe Sekepane	
_____	Mr Vincent Mula	
_____	Department of Mineral Resources (E	
_____	Private Bag x6093 KIMBERLEY 8300	
		Tracking Number:

DBAR DISTRIBUTION TO I&AP's

<input type="checkbox"/>	Trace and Track Parcel (CD)	Project Number:
<input type="checkbox"/>	Registered Letter	13622
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Addressed To: <hr/> <hr/> <hr/> Ms Marie Burden Portion 2 of the Farm Georgs Vley N PO Box 113 LOERIESFONTEIN 8195		Post Office Stamp: 
		Tracking Number:

<input type="checkbox"/>	Trace and Track Parcel (CD)	Project Number:
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Addressed To: <hr/> <hr/> <hr/> <hr/> <hr/>		Post Office Stamp:
		Tracking Number:

DEA Reference: TBC
Our reference: 13622 – Grid
Date: 14 December 2017

Via Post

Dear Stakeholder,

BASIC ASSESSMENTS (BAs) FOR THE PROPOSED CONSTRUCTION OF THE 132kV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132kV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- **Graskoppies Substations and Power Lines – (DEA Ref No: To be announced)**
- **Xha! Boom Substations and Power Lines – (DEA Ref No: To be announced)**
- **Hartebeest Leegte Substations and Power Lines – (DEA Ref No: To be announced)**
- **Ithemba Substations and Power Lines – (DEA Ref No: To be announced)**

SiVEST is in the process of undertaking the Basic Assessments (BAs) for the proposed development of the above mentioned Mainstream Substations and Power Lines near Loeriesfontein in the Northern Cape Province.

We would like to take this opportunity to inform you that, in accordance with the National Environmental Management Act (NEMA) (as amended), the Draft Basic Assessment Reports (DBARs) will be made available for public comment and review as from **Thursday 14 December 2017 to Monday 05 February 2018** (before end of business day).

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Should you have any questions or queries please do not hesitate to contact us at:

Stephan Jacobs

PO BOX 2921, Rivonia, 2128
Tel – (011) 798 0600
Fax – (011) 803 7272
Email – stephanj@sivest.co.za

Yours sincerely,



Andrea Gibb
Senior Manager
SiVEST Environmental Division

Encl: 1 x Electronic copy (on CD) containing the four (4) DBARs

Stephan Jacobs

From: sivest_PPP
Sent: Thursday, December 14, 2017 4:54 PM
To: Andrea Gibb; Stephan Jacobs; 'rebecca.thomas@mainstreamrp.com'; 'Nicolene Venter'
Cc: 'John Geeringh'; 'Heleen van den Heever'; 'Morgan Griffiths'; 'Obakeng Isaacs'; 'P Josop'; 'Brian Fisher'; 'Henning Myburg'; 'Sam Fiff'; 'Amanda Bester'; 'Riaan Van Wyk'; 'Natasha Higgitt'; 'Nicole Abrahams'; 'Ted Williams'; 'Chris Coetzee'; 'Hettie Buys'; 'Thoko Buthelezi'; 'Mmatlala Rabothata'; 'Marianne Golding'; 'Simphiwe Masilela'; 'Candice Stevens'; 'Johanna Morobane'; 'Lizell Stroh'; 'Adriaan Tiplady'; 'Ramatholo Sefako'; 'Samantha Ralston-Paton'; 'Gert Steenkamp'; 'Moses Mahunonyane'; 'Johan Koegelenberg'; 'Lourens Leeuwner'; 'Stanley Tshitwamulomoni'; 'Candice Spammer'; 'Seoka Lekota'; 'Jaco Roelofse'; 'Patrick Lenyibi'; 'Ester Makungo'; 'Garth Julius'; 'Jannie Loubser'; 'ruth.cuttings@yahoo.com'; 'kmothlomi@ncpg.gov.za'; 'lefleurd@dws.gov.za'; 'BesterAD@telkom.co.za'
Subject: Proposed Mainstream Substations and Power Lines for the Wind Farms near Loeriesfontein: DBARs Available for Review

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BASIC ASSESSMENTS (BAS) FOR THE PROPOSED DEVELOPMENT OF THE 132KV MAINSTREAM LINKING SUBSTATION AND FOUR (4) 132KV ON-SITE ESKOM SUBSTATIONS AND POWER LINES NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE

- **132kV Graskoppies Substations and Power line – (DEA Ref No.: To be Announced)**
- **132kV Hartbeest Leegte Substations and Power Line – (DEA Ref No.: To be Announced)**
- **132kV Ithemba Substations and Power Line – DEA Ref No.: To be Announced)**
- **132kV !Xha Boom Substations and Power Line – DEA Ref No.: To be Announced)**

SiVEST is in the process of undertaking the Basic Assessments (BAs) for the proposed development of the above-mentioned Substations and Power Lines near Loeriesfontein in the Northern Cape Province.

We would like to take this opportunity to inform you that, in accordance with the National Environmental Management Act (NEMA) (as amended), the Draft Basic Assessment Reports (DBARs) will be made available for public comment and review as from **Thursday 14 December 2017 to Monday 05 February 2018** (before end of business day).

The DBARs as well as the accompanying appendices are available online (<http://www.sivest.co.za/> click on 'Downloads' and navigate to '13622 Mainstream Substations and Power Lines') and an electronic copy (on CD) has been posted to you. We kindly request that you submit your comments to Public Participation Office at the below details, on or before **Monday 05 February 2018** (before end of business day). SiVEST will forward any comments received after the public comment and review period directly to the relevant case officer at the Department of Environmental Affairs (DEA).

Should you have any questions or queries please do not hesitate to contact us at:

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Kind Regards
Andrea Gibb
Senior Manager

SiVEST Environmental Division



SIVEST is a Level 3 BBBEE Contributor

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