

## **Appendix J: Additional Information**

## **Appendix J1: Original granted EA**



## **environmental affairs**

Department:  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 27 12) 322 2682

**NEAS Reference: DEA/EIA/0000889/2011**

**DEA Reference: 12/12/20/2677**

**Enquiries: Mpho Morudu**

**Telephone: 012-395-1775 Fax: 012-320-7539 E-mail: Mmorudu@environment.gov.za**

Mr RR Janse van Rensburg  
ROMA Energy Van Rhynsdorp (Pty) Ltd  
P.O. Box 73  
**SOMERSET MALL**  
7135

Fax no: 021 853 0269

**PER FACSIMILE / MAIL**

Dear Mr Van Rensburg

**APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998: GN R.543 & 544: CONSTRUCTION OF THE 10 MW ROMA ENERGY VAN RHYNSDORP CONCENTRATING PHOTOVOLTAIC (CPV) SOLAR PLANT ON REMAINDER OF THE FARM DE DUINEN NO. 258 NEAR VAN RHYNSDORP, WESTERN CAPE PROVINCE**

With reference to the above application, please be advised that the Department has decided to accept the final Basic Assessment Report dated June 2012 and grant authorisation. The environmental authorisation (EA) and reasons for the decision are attached herewith.

In terms of regulation 10(2) of the Environmental Impact Assessment Regulations, 2010 (the Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 12 (twelve) days of the date of the EA, of the Department's decision in respect of your application as well as the provisions regarding the submission of appeals that are contained in the Regulations.

Your attention is drawn to Chapter 7 of the Regulations, which prescribes the appeal procedure to be followed. This procedure is summarised in the attached document. Kindly include a copy of this document with the letter of notification to interested and affected parties.

Should the applicant or any other party wish to appeal any aspect of the decision a notice of intention to appeal must be lodged by all prospective appellants with the Minister, within 20 days of the date of the EA, by means of one of the following methods:

By facsimile: 012 320 7561;  
By post: Private Bag X447,  
Pretoria, 0001; or



**environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

## **Environmental Authorisation**

**In terms of regulation 36 of the Environmental Impact Assessment Regulations, 2010**

**Construction of the 10MW Roma Energy Van Rhynsdorp Concentrating Photovoltaic (CPV)  
Solar Power Plant near Van Rhynsdorp, Western Cape Province**

**West Coast District Municipality**

<b>Authorisation register number:</b>	<b>12/12/20/2677</b>
<b>NEAS reference number:</b>	<b>DEA/EIA/0000889/2011</b>
<b>Last amended:</b>	<b>First issue</b>
<b>Holder of authorisation:</b>	<b>ROMA ENERGY VAN RHYNSDORP (PTY) LTD</b>
<b>Location of activity:</b>	<b>WESTERN CAPE PROVINCE: Within the Matzikama Local Municipality</b>

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

## **Decision**

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

Non-compliance with a condition of this authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, 1998 and the EIA regulations.

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

## **Activities authorised**

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act 107 of 1998) and the Environmental Impact Assessment Regulations, 2010 the Department hereby authorises –

**ROMA ENERGY VAN RHYNSDORP (PTY) LTD**

with the following contact details –

Mr RR van Rensburg

**ROMA ENERGY VAN RHYNSDORP (PTY) LTD**

PO Box 73

**SOMERSET MALL**

7135

Tel: (021) 853 0269

Fax: (021) 853 0269

Cell: (073) 700 0305

E-mail: tusker@absamall.co.za

to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notices 1 (GN R. 544):

Listed activities	Activity/Project description
<p><u>GN R. 544 item 1:</u></p> <p><i>The construction of facilities or infrastructure for the generation of electricity where:</i></p> <p><i>ii. the output is 10 megawatts or less but the total extent of the facility covers an area in excess of 1 hectare.</i></p>	Construction of a 10MW CPV Solar power plant
<p><u>GN R. 544 item 11:</u> <i>The construction of:</i></p> <p><i>(x) buildings exceeding 50 square metres in size; where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</i></p>	Infrastructure associated with the power facility may have an impact within 32m of a water course.

as described in the Basic Assessment Report (BAR) dated July 2012 at:

Alternative S1 (Preferred Site)	Latitude	Longitude
On the Remainder of Farm No.258 Duinen, near Van Rhynsdorp	31° 34' 49.30"S	18° 44' 38.40"E

- for the construction of the 10MW Roma Energy Van Rhynsdorp CPV Solar Power Plant, near Van Rhynsdorp within the Matzikama Municipality in the Western Cape Province, hereafter referred to as "the property".

The infrastructure associated with this facility includes:

- **PV panels:** An array of integrated CPV systems. The site will include approximately 140 units, each system includes a 6m tall vertical pedestal with five 15m long, 3.2m wide PV modules, which are mounted on a 17m-wide horizontal tube installed at the top of the pedestal. Each system typical has a 30m tracker clearance zone.

**Appendix J2: Email communication and minutes of September 2016  
meeting held with DEA**

## Vivienne Thomson

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**From:** Vivienne Thomson <vivienne@enviroafrica.co.za>  
**Sent:** Friday, 17 March 2017 11:48 AM  
**To:** 'tvdmerwe@environment.gov.za'  
**Cc:** Bernard de witt  
**Subject:** NC Solar projects  
**Attachments:** 27 September 2016 DEA Meeting Minutes.docx

Dear Tanet

Thank you for our chat earlier this morning. For record purposes, please see the mails below and attached file.

I acknowledge that application forms for the above DBARs submitted will be couriered to your offices on the 27<sup>th</sup> May 2017, so you should have them before the end of the month. Please confirm your department and floor number for courier purposes.

Thank you,  
Vivienne Thomson  
Telephone: +2721 851 161  
Email: [vivienne@enviroafrica.co.za](mailto:vivienne@enviroafrica.co.za)



**From:** Vivienne Thomson [mailto:[vivienne@enviroafrica.co.za](mailto:vivienne@enviroafrica.co.za)]  
**Sent:** Thursday, 16 March 2017 12:23 PM  
**To:** 'Ephron Maradwa' <EMaradwa@environment.gov.za>  
**Cc:** Bernard de witt <bernard@enviroafrica.co.za>  
**Subject:** RE: Emailing: applicationforenvironmentalauthorisation2016.doc

Dear Ephron

Thank you for your prompt response. Please find attached, the minutes of the meeting held last year which I referred to in our telephonic conversation earlier today, as well as email correspondence (below) with the Department.

Thank you,  
Vivienne Thomson  
Telephone: +2721 851 161  
Email: [vivienne@enviroafrica.co.za](mailto:vivienne@enviroafrica.co.za)





**From:** Clinton [<mailto:clinton@enviroafrica.co.za>]

**Sent:** Monday, 03 October 2016 8:51 AM

**To:** Mahlatse Shubane ([MShubane@environment.gov.za](mailto:MShubane@environment.gov.za)) <[MShubane@environment.gov.za](mailto:MShubane@environment.gov.za)>;  
'[halberts@environment.gov.za](mailto:halberts@environment.gov.za)' <[halberts@environment.gov.za](mailto:halberts@environment.gov.za)>; [bernard@enviroafrica.co.za](mailto:bernard@enviroafrica.co.za); '[info@ventura.co.za](mailto:info@ventura.co.za)'  
<[info@ventura.co.za](mailto:info@ventura.co.za)>; '[Weyers@kerenenergy.com](mailto:Weyers@kerenenergy.com)' <[Weyers@kerenenergy.com](mailto:Weyers@kerenenergy.com)>

**Subject:** DEA Meeting minutes - 27 September 2016

Dear All

Please find attached the meeting minutes for the meeting held on 27 September 2016 to discuss the NEMA Application for the proposed solar sites.

Many thanks

Best regards,

**Clinton Geyser**



Tel. 021 851 1616

Email: [clinton@enviroafrica.co.za](mailto:clinton@enviroafrica.co.za)



BEFORE PRINTING THIS E-MAIL  
Please close the application window

27 September 2016

## Minutes of Meeting with Department of Environmental Affairs, Keren Energy Holdings and EnviroAfrica

### Present:

Mahlatse Shubane – DEA.	<a href="mailto:mshubane@environment.gov.za">mshubane@environment.gov.za</a>	Tel: 012 399 9417
Herman Alberts – DEA.	<a href="mailto:halberts@environment.gov.za">halberts@environment.gov.za</a>	Tel: 012 399 9371
Bernard de Witt – EnviroAfrica (EAP).	<a href="mailto:Bernard@enviroafrica.co.za">Bernard@enviroafrica.co.za</a>	Tel: 021 851 1616
Clinton Geyser – EnviroAfrica (EAP).	<a href="mailto:Clinton@enviroafrica.co.za">Clinton@enviroafrica.co.za</a>	Tel: 021 851 1616
Fritz Eksteen – Keren Energy Holdings.	<a href="mailto:info@ventura.co.za">info@ventura.co.za</a>	Tel: 012 345 1109
Weyers van Rensburg – Keren Energy Holdings.	<a href="mailto:Weyers@kerenenergy.com">Weyers@kerenenergy.com</a>	Tel: 082 631 7496

Keren Energy Holdings requested the meeting along with EnviroAfrica to discuss the fact that seven EIA's has expired which pertains to Solar projects of Keren Energy Holdings.

Mr. Shubane and Mr. Alberts informed all present that the Basic Assessments has to be completed in full again. However, the specialist studies do not need a full report again if there are no changes. Specialist can just confirm (verify the findings of the original report) or update the previous report. Mr. Alberts emphasized that the specialist must go visit the site again. Specialist not allowed to simply write a confirmation. The specialist studies will include but not limited to agriculture, visuals, bio diversity, heritage, and socio economics.

For public participation the specialist report as well as the application must be submitted using the 2014 format. Any specialist studies conducted in house must be reviewed externally.

It is important to make sure of all the regulations. If anything unclear EnviroAfrica can contact Mr. Shubane and get clarity.

Responses to comments pertaining to public participation must be addressed accordingly and adequately. "Noted" is not a response. There must also be a comment and response report. The comments and where they were addressed in the report must be clear.

The report must include a clarification if there are no alternatives for technology used or alternative sites.

Mr. Alberts advised that applications should be in before 15 December. DEA will be closed 15 December to 5 January 2017. No public participation can take place during this time period

If all specialist studies are completed – one round of public participation will be sufficient. DEA will only provide comment on the Basic Assessment Report once an Application Form has been submitted.

Need and desirability must be addressed in the Basic Assessment Report. Just an “umbrella” response that the project is required to provide additional energy to Eskom is not the only “need”. The Need and Desirability must therefore be addressed in more detail.

When submitting the entire report, an original plus one hard copy and 2 CD's must be submitted. The application must be included on the CD's.

Cumulative impacts must be addressed. The impacts of any other renewable projects within a 30km radius of the site must be evaluated. Specialists must also take this into consideration. The DEA website can be accessed for a database of renewable projects (new builds). Mr. Shubane to email the link to the database to EnviroAfrica.

#### Plan of Study

These are the following steps to be conducted for the NEMA Application in terms of the NEMA EIA Regulations 2014 as discussed in the meeting:

- Specialists to conduct site visit and to verify their original findings and/or to update their specialist reports
- EAP to update the Basic Assessment Report (BAR) on the 2014 BAR template.
- EAP to compile 2014 NEMA Application Form and to submit to DEA (90 day legislated timeframe begins)
- EAP to conduct the public participation in terms of the 2014 Regulations. This will include newspaper advertisement, site posters, notification letters to neighbouring land owners and occupiers etc and to other potential I&APs as per the NEMA regulations, as well as to all registered I&APs, notifying them of the NEMA Application, and the availability of the BAR for viewing and comment for a 30 day comment period. The BAR will also be distributed to all relevant State Departments and Organs of State , including DEA, for comment.
- After the 30 day comment period, a Comments and Response report will be compiled. The C&R report will be included in the Final BAR to be submitted to DEA (within the 90 day legislated timeframe) for a decision.
- If required by, and approved by DEA, the 90 day legislated timeframe will be increased by 50 days, if the BAR is substantially amended or substantial additional information is included in the BAR, as a result of comments received on the BAR during the public participation period. The amended BAR will then be submitted for an additional 30 day comment period to registered I&APs.



## **environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

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

DEA Reference: 14/12/16/3/3/1/1854

Enquiries: Ms Salome Mambane

Tel: 012 399 9385 E-mail: [SMambane@environment.gov.za](mailto:SMambane@environment.gov.za)

Bernard de Witt  
Enviro Africa CC  
PO Box 5367  
HELDERBERG  
Western Cape  
7135

Tel: 021 851 1616

Email: [admin@enviroafrica.co.za](mailto:admin@enviroafrica.co.za)

### **PER EMAIL / MAIL**

Dear Sir/Madam

#### **ACKNOWLEDGEMENT OF RECEIPT OF THE NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (BASIC ASSESSMENT PROCESS) AND BASIC ASSESSMENT REPORT FOR THE PROPOSED VANRHYNSDORP SOLAR PHOTOVOLTAIC (PV) FACILITY, WESTERN CAPE PROVINCE**

The Department confirms having received the Application for Environmental Authorisation and Draft Basic Assessment Report for the abovementioned project on 14 November 2017. You have submitted these documents to comply with the Environmental Impact Assessment (EIA) Regulations, 2014, as amended.

Please take note of Regulation 40(3) of the EIA Regulations, 2014, as amended, which states that potential Interested & Affected Parties, including the Competent Authority, may be provided with an opportunity to comment on reports and plans contemplated in Regulation 40(1) of the EIA Regulations, 2014, as amended, prior to the submission of an application but must be provided an opportunity to comment on such reports once an application has been submitted to the Competent Authority.

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 time-frames prescribed in terms of these Regulations, unless an extension has been granted by the Department in terms of Regulation 3(7) of the EIA Regulations, 2014, as amended.

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

Kindly quote the abovementioned reference number in any future correspondence in respect of the application.

Yours Sincerely

  
Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs:

Letter signed by: Ms Toinette van der Merwe

Designation: Environmental Officer: EIA Coordination, Strategic Planning and Support

Date: 20/11/2017

CC:	Mr. Cornelius Weyers Janse van Rensburg	Roma Energy Vanrhynsdorp (Pty) Ltd	Email: <a href="mailto:weyers@kerenenergy.com">weyers@kerenenergy.com</a>
	Ms Ms. M. Schloppers	Western Cape Province: Department of Environmental Affairs and Development Planning (DEADP)	Email: Not Provided
	Mr. Brian Smit	Matzikama Local Municipality	Email: <a href="mailto:bsmit@matzikamamun.co.za">bsmit@matzikamamun.co.za</a>

**Appendix J3: DEA acknowledgement of receipt of 2017 EA application**



## **environmental affairs**

Department:  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

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

DEA Reference: 14/12/16/3/3/1/1854

Enquiries: Ms Salome Mambane

Tel: 012 399 9385 E-mail: [SMambane@environment.gov.za](mailto:SMambane@environment.gov.za)

Bernard de Witt  
Enviro Africa CC  
PO Box 5367  
**HELDERBERG**  
Western Cape  
7135

**Tel:** 021 851 1616

**Email:** [admin@enviroafrica.co.za](mailto:admin@enviroafrica.co.za)

### **PER EMAIL / MAIL**

Dear Sir/Madam

### **ACKNOWLEDGEMENT OF RECEIPT OF THE NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (BASIC ASSESSMENT PROCESS) AND BASIC ASSESSMENT REPORT FOR THE PROPOSED VANRHYNSDORP SOLAR PHOTOVOLTAIC (PV) FACILITY, WESTERN CAPE PROVINCE**

The Department confirms having received the Application for Environmental Authorisation and Draft Basic Assessment Report for the abovementioned project on 14 November 2017. You have submitted these documents to comply with the Environmental Impact Assessment (EIA) Regulations, 2014, as amended.

Please take note of Regulation 40(3) of the EIA Regulations, 2014, as amended, which states that potential Interested & Affected Parties, including the Competent Authority, may be provided with an opportunity to comment on reports and plans contemplated in Regulation 40(1) of the EIA Regulations, 2014, as amended, prior to the submission of an application but must be provided an opportunity to comment on such reports once an application has been submitted to the Competent Authority.

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 time-frames prescribed in terms of these Regulations, unless an extension has been granted by the Department in terms of Regulation 3(7) of the EIA Regulations, 2014, as amended.

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

Kindly quote the abovementioned reference number in any future correspondence in respect of the application.

Yours Sincerely

  
Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs:

Letter signed by: Ms Toinette van der Merwe

Designation: Environmental Officer: EIA Coordination, Strategic Planning and Support

Date: 20/11/2017

CC:	Mr. Cornelius Weyers Janse van Rensburg	Roma Energy Vanrhynsdorp (Pty) Ltd	Email: <a href="mailto:weyers@kerenenergy.com">weyers@kerenenergy.com</a>
	Ms Ms. M. Schloppers	Western Cape Province: Department of Environmental Affairs and Development Planning (DEADP)	Email: Not Provided
	Mr. Briaan Smit	Matzikama Local Municipality	Email: <a href="mailto:bsmit@matzikamamun.co.za">bsmit@matzikamamun.co.za</a>



**Appendix J4: 2017 EA application form (corrected/amended)**



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

### APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

File Reference Number:  
NEAS Reference Number:  
Date Received:

(For official use only)

DEA/EIA/

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), (the Act) and the Environmental Impact Assessment Regulations, 2014 (the Regulations)

#### PROJECT TITLE

Proposed Vanrhynsdorp Solar Photovoltaic (PV) Facility

Indicate if the **DRAFT** report accompanies the application

Yes ☒

No ☐

#### Kindly note that:

1. This application form is current as of 1 April 2016. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
3. Where applicable **black out** the boxes that are not applicable in the form.
4. The use of the phrase "not applicable" in the form must be done with circumspection.
5. This application must be handed in at the offices of the National Department of Environmental Affairs where the Minister is the competent authority in respect of the application.
6. No faxed or e-mailed applications will be accepted. An electronic copy (in the form of a CD) of the signed application form must be submitted together with two hardcopies (one of which must contain the original signatures).
7. Unless protected by law, all information filled in on this application form may become public information on receipt by the competent authority.
8. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report and declaration of interest of the specialist must also be submitted.
9. Proof of payment must accompany this application. The application will not be processed without proof of payment unless one of the exclusions provided for the Fee Regulations (Fees for consideration and processing of applications for environmental authorisations and amendments thereto Government Notice No.141, published on 28 February 2014) is applicable AND such information in section 1 of this application form has been confirmed by this Department.

### Departmental Details

The application must be addressed to the Chief Directorate: Integrated Environmental Authorisations at:

**Postal address:**

Department of Environmental Affairs  
Attention: Director: Integrated Environmental Authorisations  
Private Bag X447  
Pretoria  
0001

**Physical address:**

Department of Environmental Affairs  
Attention: Director: Integrated Environmental Authorisations  
Environment House  
473 Steve Biko Road  
Arcadia  
Pretoria

Queries must be addressed to the contact below:

E-mail: [EIAAdmin@environment.gov.za](mailto:EIAAdmin@environment.gov.za)

***Please note that this form must be copied to the relevant provincial environmental department/s.***

View the Department's website at <http://www.environment.gov.za/> for the latest version of the documents.

# 1. PROOF OF PAYMENT

Applicants are required to tick the appropriate box below to indicate that either proof of payment is attached or that, in the applicant's view, an exclusion applies. Proof and a motivation for exclusions must be attached to this application form in **Appendix 1**.

Proof of payment attached as **Appendix 1** ☒  
 Exclusion applies ☐

An applicant is excluded from paying fees if:

The activity is a community based project funded by a government grant; or  
 The applicant is an organ of state.

TYPE OF EXCLUSION	Tick where applicable. Proper motivation must be attached to the application
The activity is a community based project funded by a government grant	<input type="checkbox"/>
The applicant is an organ of state	<input type="checkbox"/>

FEE AMOUNT	Fee
Application for an environmental authorisation for which basic assessment is required in terms of the Environmental Impact Assessment Regulations	R2 000 <input checked="" type="checkbox"/>
Application for an environmental authorisation, for which S&EIR is required in terms of the Environmental Impact Assessment Regulations	<input type="checkbox"/>

Department of Environmental Affairs' details for the payment of application fees:

Payment Enquiries: Tel: 012 399 9119 Email: <a href="mailto:eiafee@environment.gov.za">eiafee@environment.gov.za</a>  Banking details: ABSA Bank Branch code: 632005 Account number: 1044 2400 72 Current account Reference number : Reference number to be provided in the specific format indicating centre point coordinates of site in decimal degrees to 5 or 6 decimal places: latitude/longitude eg. -33.918861/18.423300  Proof of payment must accompany the application form: Indicate reference number below.  Tax exemption status: Status: Tax exempted
Reference number: -31.579451/18.746365 .....

## 2. PROJECT DESCRIPTION

Please provide a detailed description of the project.

### Activity Overview

The project is the establishment of an array of crystalline solar photovoltaic (PV) modules grouped into tables or panels of 20 modules each, together with associated infrastructure for the generation of 5MW of electricity. The PV tables would form an array covering an area of 20ha, surrounded by a perimeter fire access road and fence. The PV tables will be raised approximately 500mm above ground level and have single axis tracking systems allowing maximisation of solar energy harvesting for conversion to electrical energy. A similar solar PV array is depicted in Figure 1 below.



Figure 1: Single axis solar PV module tables raised 500mm above ground level

Proposed associated infrastructure includes a fenced construction staging area, a maintenance shed, three inverter-transformer stations on concrete pads, one to two office buildings on the 20ha site, a switch panel for connection to the power grid, as well as about 2,4km of 22kV overhead powerline from the southern section of the PV array and a 22kV powerline connection or tie-in from the proposed development to Eskom's Vanrhynsdorp substation which is located near to the proposed development site. Figure 2 below indicates the position of the proposed solar PV array with the nearby Vanrhynsdorp substation.

### Application Rationale

In March 2011, the Department of Energy's (DoE's) Integrated Resource Plan (IRP) 2010-2030 was promulgated with the aim of providing a long-term, cost-effective strategy to meet the electricity demand in South Africa. The IRP 2010-2030 objectives align with Government's in terms of reliable electricity supply, as well as environmental and social responsibilities and economic policies. The study horizon for the IRP was the period from 2010 to 2030.

The short to medium term intentions of the IRP 2010 -2030 are to ascertain the most cost-effective electricity supply option for the country, speak to the opportunities for investment into new power generation projects and determine security of electricity supply.

The IRP's long-term electricity planning goal is to consider social, technical, environmental and economic constraints, as well as other externalities while ensuring sustainable development in the country.

To this end, within the IRP, the DoE set a target electricity supply of 17.8 GW from renewable energy sources by 2030. This target renewable energy capacity would be produced primarily by solar, wind, biomass and small-scale hydro electricity generation (with the bulk being met by wind and solar energy supplies). In addition, the 2030 target ensures that approximately 42% of the country's total estimated electricity generation capacity would be met by renewable energy sources. This application is in response to the DoE's target and IRP 2010-2030 strategy to expand the South African renewable energy electricity generation capacity.



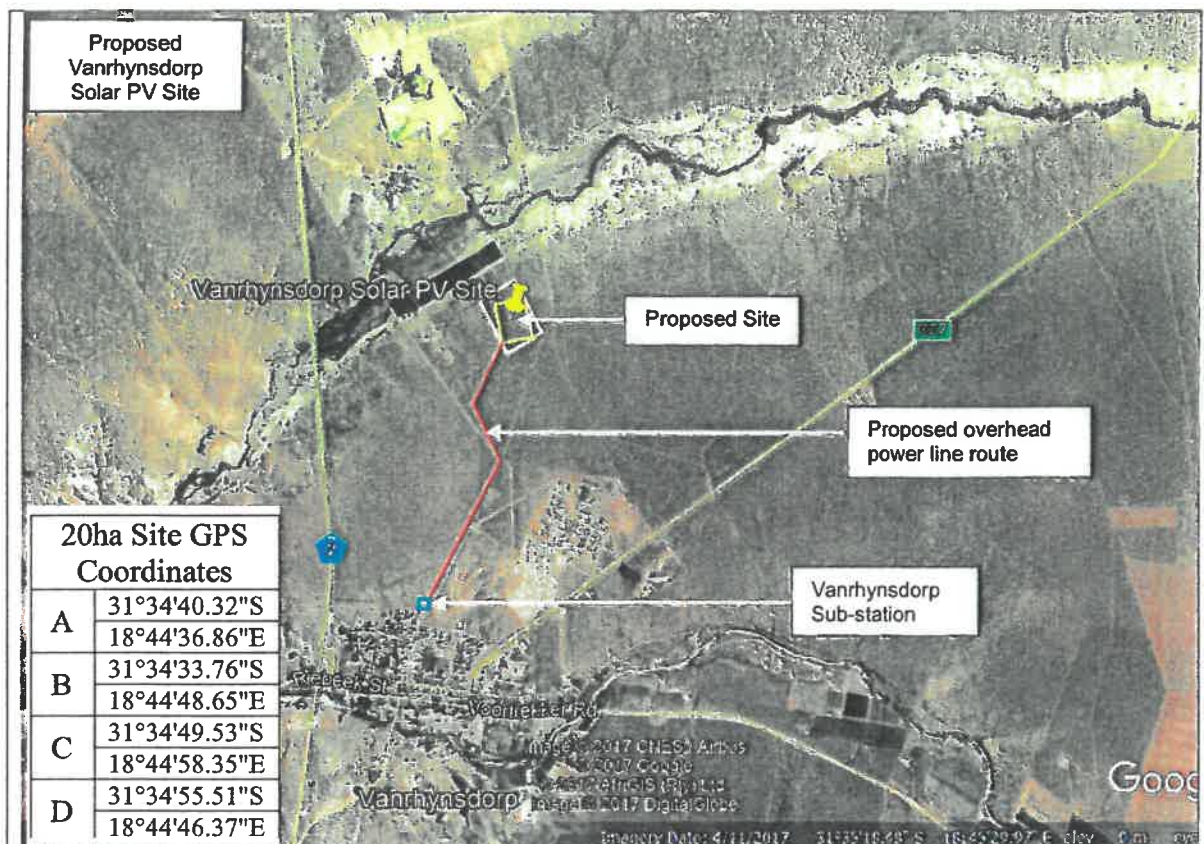


Figure 2: Position of proposed Vanrhynsdorp solar PV development. Proposed overhead power line for tie-in to Eskom's Vanrhynsdorp substation indicated in red. Total 20ha proposed site indicated with white outline. Actual 10ha of solar PV panel layout area, within total 20ha site, indicated with yellow outline.

### Activity Description

The proponent, Roma Energy Vanrhynsdorp (Pty) Ltd, plans to establish a 'solar farm' which harvests light energy from the sun using solar PV panels and converts the light energy into electrical energy to be fed into the national (Eskom's) electricity grid. The development footprint is an area not exceeding 20ha on the remainder of the Farm De Duinen No. 258, Vanrhynsdorp, Matzikama Local Municipality, Western Cape Province. This solar farm is, in essence, a solar power station which will form part of the country's renewable energy electricity generation capacity. The solar PV farm is proposed to be established on a site located 31°34'46.02"S, 18°44'46.91"E, along the R31 road, near to the town of Vanrhynsdorp.

After considering a much larger area of the Farm De Duinen No. 258, Vanrhynsdorp, the most suitable 20ha portion in terms of solar energy harvest potential, topography, accessibility, tie-in to the Eskom grid and minimisation of environmental impact, was chosen on which to establish the facility. The proposed development is an array of 18540 poly-crystalline solar photovoltaic (PV) modules grouped into tables or panels of 20 modules each. The PV panels form an array within the total footprint area of 20ha, surrounded by a perimeter fire access road and fence. The actual array of PV panels will not completely fill the 20ha footprint which also needs to cater for infrastructural requirements.

As per Figure 1 above, the PV tables will be raised approximately 500mm above ground level and will have single axis tracking systems allowing the generation of approximately 5MW of direct current which will be alternating current. Proposed associated infrastructure to be built on the 20ha footprint site includes a fenced construction staging area, a 3m x 6m maintenance shed, three inverter-transformer stations on concrete pads, a switch panel for connection to the power grid and an office with septic tank ablutions, as well as a 22kV powerline from the development site to connect to Eskom's Vanrhynsdorp substation around which the solar PV array is planned to be established.

The powerline feeding into Eskom's Vanrhynsdorp substation will be on three-phase overhead

powerlines to the Vanrhynsdorp substation. The maximum generation capacity of the facility is approximately 5MW. Solar PV farms produce electricity in direct current which must be converted into alternating current and transformed into the correct voltage before it can be fed into the national grid. This conversion is done by inverters and transformers which are part of the abovementioned infrastructural development of the project.

### **Description of Development Phases**

#### Equipment and Material Delivery; Site Preparation:

The proposed development site is accessible from the R27 and using secondary/dirt roads. PV modules and steel structures will be transported to site using four interlink trucks. The main transformer, one grader and a 20 ton roller will be delivered to site using abnormal load vehicles. In addition to these vehicles, two drill rigs, two 10m<sup>3</sup> tipper trucks, six tractors and trailers, one waste transport truck, 8 site bakkies, one water tanker truck, a TLB and a trenching machine will also be used on site.

The area will be graded and levelled using a 20 ton roller. Non-potable water spray from the water tanker truck will be used to control excessive dust blow off. About three to four temporary access roads will have to be established on site in addition to the long-term perimeter fire and main access road. The main access road will enable vehicular access to each solar panel system within the site. All roads created as part of the solar facility will be untarred / unpaved.

#### Construction:

Each drilling machine which will be used for drilling the substructure post holes is equipped with a dust control system. The system extracts the dust away from the hole while drilling using vacuum. The collected dust can then be removed in a controlled manner from the back end of the machine once a certain amount is reached.

Concrete transformer pads for each row of solar panels, a switch panel for connection to the power grid, and a 3m x 6m control shed would be constructed on site.

Development of the electrical systems would take place in conjunction with installation of the rest of the structures. In brief terms, it includes electrical cabling and trenching that connects all solar units, collects the energy from them and routes it to a point of connection with the utility infrastructure system.

Approximately 30 people are envisaged to be required during the construction phase, which is expected to last for 6-8 months. Positions will be filled by mostly local labour from the area where possible and are not to be housed onsite.

#### Operation:

The 5MW solar facility is based on the single axis tracking system for adjustment of the panels or tables carrying the solar PV modules. One of the reasons for selecting this tracking system is the configuration flexibility which facilitates good utilisation of the available land and maximises the "pitch" or distance between tables. This minimises the shading effects tables have on each other. Each table is equipped with a bow or curved component which carries a ring gear. The horizontal shafts have short worm gears which run against the ring gears to effect table adjustment. Tracking of the sun in a single axis solar PV system is usually aligned roughly along the north to south axes. The PV farm tracking system can be operated either automatically or remotely. The tracker adjustment range is -50 to +50 degrees. The pitch between tables would be 6m. The tracker controllers are an integral part of the tracking system and they provide backtracking functionality in order to minimise the effects of shadowing.

Twenty solar polycrystalline PV modules will be grouped together in a panel or table. Each table would carry 20 modules, which would be mounted with the long edges perpendicular to the tracking axis. All 20 modules of a table would be electrically interconnected to form a string.

An array of 309 such tables would be connected to 2 x 1000kVA, 1000V Inverters, the rating being selected to allow for the Reactive Power requirements of the South African Grid Code. The two inverters of each array would be connected to the Low Voltage windings of a common inverter transformer, and the medium voltage windings of these transformers would be rated at 22kV. Grid connection would also be at 22kV, so that no further stepping-up of the voltage is required.

During periods of high wind or when undergoing maintenance, the solar arrays would be shifted to a stand-by mode, where the panels are placed in a horizontal position (facing upward and parallel to the ground).

Approximately 10 workers (7 direct and 3 indirect) are envisaged to be required during the

operational phase of the proposed solar development. The lifespan of the development is expected to last for +-25 years. Positions will be filled by mostly local labour from the area and are not to be housed onsite.

**Maintenance:**

Periodic maintenance activities involve replacing non-functioning cells or other mechanical parts essential to the operation of the arrays. Trips to the solar PV farm to undertake maintenance would occur on an as-needed basis. Maintenance visits may not occur immediately after a module ceases to function or a part becomes damaged – the Project Applicant would determine whether the benefit of the maintenance trip outweighs the cost of that additional trip. It is assumed, however, that maintenance visits would occur four to six times per year. Individuals responsible for maintenance activities would most likely commute from regional offices or nearby operating facilities.

Since sunlight can be absorbed by dust and other impurities on the surface of the photovoltaic panels, washing would periodically be needed. The draft basic assessment report (DBAR) had indicated that an estimated 1800m<sup>3</sup> of non-potable water would be required during construction. During operation and maintenance about 2000m<sup>3</sup> per year would be required for cleaning the photovoltaic panels. Under the original 2012 approved environmental application, this water allocation/availability was confirmed in writing by the Matzikama Local Municipality for both construction and operation/maintenance. However, at the time of the current application, the Western Cape is experiencing severe drought and has been designated a disaster area due to these conditions. It was mentioned in the DBAR that alternative water sources will also be investigated.

Therefore, after due consideration of specifically, the West Coast District Municipality (WCDM), the Western Cape Department of Environmental Affairs and Development Planning (DEADP) and the Matzikama Local Municipality comments on the DBAR related to water use and supply/sources, it is proposed that one of the original water source alternatives investigated in 2012 which uses significantly less water for cleaning the panels be adopted: non-potable groundwater from an existing registered borehole owned by the farmer and governed by General Authorisation (GA) number 399, dated 26 March 2004. Refer to letter from Department of Water and Sanitation (DWS) dated 20 October 2014 as included as Annexure J8 of final BAR. An estimated 651m<sup>3</sup> of non-potable water will be required during construction. During operation and maintenance about 970m<sup>3</sup> per year would be required for cleaning the photovoltaic pls. During maintenance waste separation and recycling will take place as per the facility's environmental management programme. Under the original approved application, this water allocation/availability was confirmed in writing by the Matzikama Local Municipality for both construction and operation/maintenance. Due to the disaster status of the province due to drought, possible alternative water sources will also be investigated.

**Decommissioning:**

The solar energy facility is expected to have a lifespan of +-25 years. The facility would only be decommissioned and the site rehabilitated once it has reached the end of its economic life. It would most likely be due to the enhancement of technology/infrastructure in the future of renewable energy.

**Note:** Throughout all phases of the development lifecycle i.e. site preparation, plant construction, operation, maintenance and final decommissioning, waste management in line with the project's environmental management programme includes waste separation, timely periodic waste removal to registered waste sites and recycling where possible.

Does the project form part of any of the Strategic Infrastructure Projects (SIPs) as described in the National Development Plan, 2011?	YES ✓	NO
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If YES, please indicate which SIPs are applicable in **Appendix 2**. You are also required to provide confirmation of SIP applications from the relevant sector representative which must be attached in **Appendix 2**

Is the project subject to the Integrated Resource Plan 2010 – 2030 (IRP) bidding process?	YES✓	NO
---	------	----

Please indicate which sector the project falls under by crossing out the relevant block in the table below:

**Table 1**

Green economy + “Green” and energy-saving industries	X	Greenfield transformation to urban or industrial form (including mining)
Infrastructure – electricity (generation, transmission & distribution)	X	Biodiversity or sensitive area related activities
Oil and gas		Mining value chain
Biofuels		Potential of metal fabrication capital & transport equipment – arising from large public investments
Nuclear		Boat building
Basic services (local government) – electricity and electrification		Manufacturing – automotive products and components, and medium and heavy commercial vehicles
Basic services (local government) – area lighting		Manufacturing – plastics, pharmaceuticals and chemicals
Infrastructure – transport (ports, rail and road)		Manufacturing – clothing textiles, footwear and leather
Basic services (local government access roads)		Forestry, paper, pulp and furniture
Basic services (local government) – public transport		Business process servicing
Infrastructure – water (bulk and reticulation)		Advanced materials
Basic services (local government) – sanitation		Aerospace
Basic services (local government) – waste management		Basic services (local government) – education
Basic services (local government) water		Basic services (local government) – health
Agricultural value chain + agro-processing (linked to food security and food pricing imperatives)		Basic services (local government) - housing
Infrastructure – information and communication technology		Basic services (local government) security of tenure
Tourism + strengthening linkages between cultural industries and tourism		Other
Basic services (local government) – public open spaces and recreational facilities		

**Table 2**

Does the listed activity/ies applied for form part of a larger project which is not a listed activity itself e.g. a road that is a listed activity that is needed to access a drilling site where the drilling does not constitute a listed activity.	YES	NO ✓
If indicated yes above, please provide a brief description on how the activity/ies relate to the larger project that forms part there of:		

### 3. GENERAL INFORMATION

Applicant name:	Roma Energy Vanrhynsdorp (Pty) Ltd.		
Registration number (if applicant is a company):	2012/203871/07		
Trading name (if any):	N/A		
BBBEE status	To be determined		
Responsible person name (If the applicant is a company):	Mr. Cornelius Weyers Janse van Rensburg		
Applicant/Responsible person ID number:	7301275062086		
Responsible position, e.g. Director, CEO, etc.:	Appointed company representative		
Physical address:	20 Victoria Link, Route 21 Corporate Park, Irene, Pretoria, 0157		
Postal address:	P.O. Box 73, Somerset Mall, Western Cape		
Postal code:	7137	Cell:	082 631 7496
Telephone:	Not provided	Fax:	086 267 6181
E-mail:	weyers@kerenenergy.com		

Provincial Authority:	Western Cape Province: Department of Environmental Affairs and Development Planning (DEADP)		
Contact person:	Ms. M. Schippers		
Postal address:	Private Bag X9086, Cape Town, Western Cape		
Postal code:	8000	Cell:	Not provided
Telephone:	021 483 8349	Fax:	021 483 4372
E-mail:	Not provided by DEADP – fax. number used		

Local municipality:	Matzikama Local Municipality		
Contact person:	Mr. Briaan Smit		
Postal address:	98 Vredendal, Western Cape		
Postal code:	8160	Cell:	Not provided
Telephone:	027 201 3481	Fax:	027 213 5098
E-mail:	bsmit@matzikamamun.co.za		

In instances where there is more than one local authority involved, please attach a list of those local authorities with their contact details as **Appendix 3**.

Landowner:	The Jimmy Wiese Family Trust		
Contact person:	Anna Helena Wiese		
Postal address:	9 Central Street, Vredendal, Western Cape		
Postal code:	8160	Cell:	083 234 8009
Telephone:	027 213 1155	Fax:	Not provided
E-mail:	enawiese@enawiese.co.za and info@enawiese.co.za		

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as **Appendix 4**. Unless the application is in respect of linear activities or strategic integrated projects as contemplated in the Infrastructure Development Act, 2014, **written consent** of landowner/s must be submitted in **Appendix 4**.

Identified Competent Authority to consider the application:	National Department of Environmental Affairs
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Reason(s) in terms of S24C of NEMA 1998 as amended:

Application is for renewable energy electricity supply into the national Eskom (parastatal) grid and through the Department of Energy, is related to SIPs as described in the National Development Plan, 2011, as well as the IRP bidding process (application formed part of Bid Window 2 of the Renewable Energy Independent Power Producers Procurement Programme).

#### 4. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP company name:	Enviro Africa CC			
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	Level 4	Percentage Procurement recognition	N/A
Professional affiliation/registration:	IAIAsa (Membership Number 219)			
Contact person:	Bernard de Witt			
Company:	Enviro Africa CC			
Physical address:	7 Pastorie PARK, Cnr. Reitx and Lourens Streets, Somerset West, Western Cape, 7130			
Postal address:	P. O. Box 5367, Helderberg, Western Cape			
Postal code:	7135	Cell:	082 448 9991	
Telephone:	021 851 1616	Fax:	086 512 0152	
E-mail:	admin@enviroafrica.co.za			

The appointed EAP must meet the requirements of Regulation 13 of GN R.326, dated April 2017. The declaration of independence of the EAP and undertaking under oath or affirmation that all the information submitted or to be submitted for the purposes of the application is true and correct must be submitted as **Appendix 9**.

#### 5. SITE DESCRIPTION

Provide a detailed description of the site involved in the application.

Province	Western Cape Province
District Municipality	West Coast District Municipality
Local Municipality	Matzikama Local Municipality
Ward number(s)	N/A
Nearest town(s)	Vanrhynsdorp
Farm name(s) and number(s)	De Duinen No. 258
Portion number(s)	N/A

Surveyor General 21 digit code

(If there are more than 4, please attach a list with the rest of the codes as **Appendix 5**. Where the 21 digit SGID and farm name are not available, the coordinates of the boundary of the property or properties must be provided in **Appendix 5**.)

C	0	7	8	0	0	0	0	0	0	0	0	0	0	2	5	8	0	0	0	0	0	
1	2	3	4	5																		
Are there any other applications for Environmental Authorisation on the same property?					YES	NO																
If YES, please indicate the following:																						
Competent Authority																						

Reference Number	
Project Name	
Please provide details of the steps taken to ascertain this information:	

## 6. ACTIVITIES TO BE AUTHORISED

For an application for authorisation that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

Detailed description of listed activities associated with the project	
Listed activity as described in GN R 327, 325 and 324	Description of project activity that triggers listed activity
<b><i>e.g. GN R.327 Item XX(x): The development of bridge exceeding 100 square metres in size within a watercourse</i></b>	<b><i>e.g. A bridge measuring 110 square metres will be constructed within the watercourse</i></b>
GN. R. 327 Item 1(ii): The development of facilities or infrastructure for the generation of electricity from a renewable resource where the output is 10 megawatts (MW) or less but the total extent of the facility covers an area in excess of 1 hectare (ha) excluding where such development of facilities or infrastructure is for photovoltaic installations and occurs within an urban area	The development of a solar photovoltaic array with an electricity output of less than 10MW and with a footprint not exceeding 20ha will be developed on remainder of Fram De Duinen No. 258, Vanrhynsdorp, within the Matzikama Local Municipality, West Coast District Municipality, Western Cape Province. The development's maximum nameplate electricity generation capacity is 5.75MW with a maximum contracted electricity supply to the national grid of 5MW.
GN. R. 327 Item 27: The clearance of an area of 1ha or more, but less than 20ha of indigenous vegetation	Clearance of much of the 20ha site will be required.

Please note that any authorisation that may result from this application will only cover activities specifically applied for. Co-ordinate points indicating the location of each listed activity must be provided with the relevant report (i.e. either BAR or EIR).

Please provide a project map indicating any sensitive areas (e.g. critical biodiversity area, World Heritage Site, etc.) overlaid by the study area in **Appendix 6**.

A project schedule, indicating the different phases and timelines of the project, must be attached as **Appendix 7**.

## 7. PUBLIC PARTICIPATION

Provide details of the public participation process proposed for the application as required by Regulation 41(2) of GN R326, dated April 2017.

First round of public participation (PP) process done as a pre-application phase:
Place advertisement in local newspaper (One Kontrei) regarding project, availability of copies of pre-application DBAR and process to register as an I&AP.
Sent out notifications to previously registered Interested and Affected Parties (I&APs).
Send out notifications and copies of DBAR to Authorities
Place A2 posters on site
Display and place A3 posters, maildrop letters and copy of DBAR in public facilities (Municipality, Public Library, local retail shops)
Deliver maildrop letters to houses on outlying street neighbouring property.
Make copy of DBAR and all associated documents available on EnviroAfrica website for

public viewing / comment

Email, deliver or post copies of any PP documentation to querying I&APs who request them.

Update I&AP List.

Repeat first round PP process for all registered I&APs for the second round of PP using post application BAR (for comment).

When second round of PP closes, finalise post application BAR (for comment) and submit post application BAR (for decision)/FBAR to competent authority (DEA).

Await DEA EA decision.

Inform I&APs of DEA decision when received.

**Note:** Since this is a re-application for a previously granted EA, EnviroAfrica CC used the original EA application I&AP list to specifically send all related PP project information to those I&APs previously registered.

## 8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
<b>SEMA</b> s				
National Environmental Management: Air Quality Act	YES	NO ✓		
National Environmental Management: Biodiversity Act	YES	NO ✓		
National Environmental Management: Integrated Coastal Management Act	YES	NO ✓		
National Environmental Management: Protected Areas Act	YES	NO ✓		
National Environmental Management: Waste Act	YES	NO ✓		
<b>National legislation</b>				
Mineral Petroleum Development Resources Act	YES	NO ✓	YES ✓	NO
National Water Act	YES	NO ✓		
National Heritage Resources Act	YES ✓	NO		
Others: Please specify - Land Use Application	YES ✓	NO	YES ✓	NO

If authorisation is necessary in terms of the National Environmental Management: Waste Act, please contact the Department for guidance on the **Integrated Permitting System**.

Note that in terms of sections 7B and 7C of the National Environmental Management: Integrated Coastal Management Act, 2008 (Act No. 24 of 2008) ICMA, a pre-approval for a reclamation application in terms of the ICMA should first be issued by the Minister prior to the submission of a NEMA Chapter 5 EA application to the NEMA competent authority (CA).

## 9. LIST OF APPENDICES

		SUBMITTED	
Appendix 1	Proof of Payment	YES ✓	NO
Appendix 2	Strategic Infrastructure Projects	YES ✓	N/A
Appendix 3	List of Local Municipalities (with contact details)	YES ✓	N/A
Appendix 4	List of land owners (with contact details) and written consent of land owners.	YES ✓	NO
Appendix 5	List of SGIDs	YES	N/A ✓
Appendix 6	Project map	YES ✓	NO
Appendix 7	Project schedule	YES ✓	N/A
Appendix 8	Declaration of Applicant	YES ✓	NO
Appendix 9	Declaration of EAP and undertaking under oath or affirmation	YES ✓	NO

**APPENDIX 1**  
**PROOF OF PAYMENT/ MOTIVATION FOR EXCLUSION**

Proof of payment for EA application (BAR) attached as page 13-A.



Internet banking  
Standard Bank Centre  
5 Simmonds Street, Johannesburg,  
2001  
P.O. Box 7725, Johannesburg, 2000  
Telephone: 0860 123 000  
International: +27 11 299 4701  
Fax: +27 11 631 8550  
Website: [www.standardbank.co.za](http://www.standardbank.co.za)

Dear DEA VanRhynsdorp

We confirm that the following payment has been made into your account from Bernard:

<b>Reference number</b>	1258202828
<b>Beneficiary name</b>	DEPARTMENT OF ENVIR
<b>Bank name</b>	ABSA BANK
<b>Beneficiary account number</b>	0000001044240072
<b>Beneficiary branch number</b>	63200500
<b>Beneficiary reference</b>	-31.579451/18.746365
<b>Amount</b>	R2000,00
<b>Payment date and time</b>	2017-10-27 12h56

If you need more information or have any questions about this payment, please contact:

**Bernard**  
**0824489991**

Payments to Standard Bank accounts may take up to one business day to reflect.  
Payments to other banks may take up to three business days.  
Please check your account to confirm you have received this payment.

Yours sincerely,  
The Internet banking team

The Standard Bank of South Africa Limited (Reg. No. 1962/000738/06) Authorised financial services provider and registered credit provider (NCRCP15)

Directors: TS Gcabashe (Chairman) SK Tshabalala\* (Chief Executive) A Daehnke\* RMW Dunne<sup>1</sup> GJ Fraser-Moleketi Hao Hu<sup>2</sup> GMB Kennealy BJ Kruger\* JH Maree NNA Matyumza KD Moroka ML Oduor-Otieno<sup>3</sup> AC Parker ANA Peterside CON\* MJD Ruck PD Sullivan<sup>5</sup> BS Tshabalala JM Vice Lubin Wang<sup>2</sup>

Company Secretary: Z. Stephen 1/06/2017

\*Executive Director <sup>1</sup>British <sup>2</sup>Chinese <sup>3</sup>Kenyan <sup>4</sup>Nigerian <sup>5</sup>Australian

## APPENDIX 2 STRATEGIC INFRASTRUCTURE PROJECTS

### **SIP 1: Unlocking the northern mineral belt with Waterberg as the catalyst**

- Unlock mineral resources
- Rail, water pipelines, energy generation and transmission infrastructure
- Thousands of direct jobs across the areas unlocked
- Urban development in Waterberg - first major post-apartheid new urban centre will be a "green" development project
- Rail capacity to Mpumalanga and Richards Bay
- Shift from road to rail in Mpumalanga
- Logistics corridor to connect Mpumalanga and Gauteng.

### **SIP 2: Durban-Free State-Gauteng logistics and industrial corridor**

- Strengthen the logistics and transport corridor between SA's main industrial hubs
- Improve access to Durban's export and import facilities
- Integrate Free State Industrial Strategy activities into the corridor
- New port in Durban
- Aerotropolis around OR Tambo International Airport.

### **SIP 3: South-Eastern node & corridor development**

- New dam at Mzimvubu with irrigation systems
- N2-Wild Coast Highway which improves access into KwaZulu-Natal and national supply chains
- Strengthen economic development in Port Elizabeth through a manganese rail capacity from Northern Cape
- A manganese sinter (Northern Cape) and smelter (Eastern Cape)
- Possible Mthombo refinery (Coega) and transshipment hub at Ngqura and port and rail upgrades to improve industrial capacity and performance of the automotive sector.

### **SIP 4: Unlocking the economic opportunities in North West Province**

- Acceleration of investments in road, rail, bulk water, water treatment and transmission infrastructure
- Enabling reliable supply and basic service delivery
- Facilitate development of mining, agricultural activities and tourism opportunities
- Open up beneficiation opportunities in North West Province.

### **SIP 5: Saldanha-Northern Cape development corridor**

- Integrated rail and port expansion
- Back-of-port industrial capacity (including an IDZ)
- Strengthening maritime support capacity for oil and gas along African West Coast
- Expansion of iron ore mining production and beneficiation.

### **SIP 6: Integrated municipal infrastructure project**

Develop national capacity to assist the 23 least resourced districts (19 million people) to address all the maintenance backlogs and upgrades required in water, electricity and sanitation bulk infrastructure. The road maintenance programme will enhance service delivery capacity thereby impacting positively on the population.

### **SIP 7: Integrated urban space and public transport programme**

Coordinate planning and implementation of public transport, human settlement, economic and social infrastructure and location decisions into sustainable urban settlements connected by densified transport corridors. This will focus on the 12 largest urban centres of the country, including all the metros in South Africa. Significant work is underway on urban transport integration.



<p><b>SIP 8: Green energy in support of the South African economy</b> Support sustainable green energy initiatives on a national scale through a diverse range of clean energy options as envisaged in the Integrated Resource Plan (IRP2010) and support bio-fuel production facilities.</p> <p><i>Indicate capacity in MW: 5MW</i></p>	✓
<p><b>SIP 9: Electricity generation to support socioeconomic development</b> Accelerate the construction of new electricity generation capacity in accordance with the IRP2010 to meet the needs of the economy and address historical imbalances. Monitor implementation of major projects such as new power stations: Medupi, Kusile and Ingula.</p> <p><i>Indicate capacity in MW: 5MW</i></p>	✓
<p><b>SIP 10: Electricity transmission and distribution for all</b> Expand the transmission and distribution network to address historical imbalances, provide access to electricity for all and support economic development. Align the 10-year transmission plan, the services backlog, the national broadband roll-out and the freight rail line development to leverage off regulatory approvals, supply chain and project development capacity.</p>	
<p><b>SIP 11: Agri-logistics and rural infrastructure</b> Improve investment in agricultural and rural infrastructure that supports expansion of production and employment, small-scale farming and rural development, including facilities for storage (silos, fresh-produce facilities, packing houses); transport links to main networks (rural roads, branch train-line, ports), fencing of farms, irrigation schemes to poor areas, improved R&amp;D on rural issues (including expansion of agricultural colleges), processing facilities (abattoirs, dairy infrastructure), aquaculture incubation schemes and rural tourism infrastructure.</p>	
<p><b>SIP 12: Revitalisation of public hospitals and other health facilities</b> Build and refurbish hospitals, other public health facilities and revamp 122 nursing colleges. Extensive capital expenditure to prepare the public healthcare system to meet the requirements of the National Health Insurance (NHI) system. The SIP contains major builds for 6 hospitals.</p>	
<p><b>SIP 13: National school build programme</b> A national school build programme driven by uniformity in planning, procurement, contract management and provision of basic services. Replace inappropriate school structures and address basic service backlog and provision of basic services under the Accelerated School Infrastructure Delivery Initiative (ASIDI). In addition, address national backlogs in classrooms, libraries, computer labs and admin buildings. Improving the learning environment will strengthen outcomes especially in rural schools, as well as reduce overcrowding.</p>	
<p><b>SIP 14: Higher education infrastructure</b> Infrastructure development for higher education, focusing on lecture rooms, student accommodation, libraries and laboratories, as well as ICT connectivity. Development of university towns with a combination of facilities from residence, retail to recreation and transport. Potential to ensure shared infrastructure such as libraries by universities, FETs and other educational institutions. Two new universities will be built - in Northern Cape and Mpumalanga.</p>	
<p><b>SIP 15: Expanding access to communication technology</b> Provide for broadband coverage to all households by 2020 by establishing core Points of Presence (POPs) in district municipalities, extend new Infraco fibre networks across provinces linking districts, establish POPs and fibre connectivity at local level, and further penetrate the network into deep rural areas. While the private sector will invest in ICT infrastructure for urban and corporate networks, government will co-invest for township and rural access, as well as for e-government, school and health connectivity. The school roll-out focus is initially on the 125 Dinaledi (science and maths-focussed) schools and</p>	

1525 district schools. Part of digital access to all South Africans includes TV migration nationally from analogue to digital broadcasting.

**SIP 16: SKA & Meerkat**

SKA is a global mega-science project, building an advanced radio-telescope facility linked to research infrastructure and high-speed ICT capacity and provides an opportunity for Africa and South Africa to contribute towards global advanced science projects.

**SIP 17: Regional integration for African cooperation and development**

Participate in mutually beneficial infrastructure projects to unlock long-term socio-economic benefits by partnering with fast growing African economies with projected growth ranging between 3% and 10%.

The projects involving transport, water and energy also provide competitively-priced, diversified, short and medium to long-term options for the South African economy where, for example, electricity transmission in Mozambique (Cesul) could assist in providing cheap, clean power in the short-term whilst Grand Inga in the DRC is long-term.

All these projects complement the Free Trade Area (FTA) discussions to create a market of 600 million people in South, Central and East Africa.

**SIP 18: Water and sanitation infrastructure**

A 10-year plan to address the estimated backlog of adequate water to supply 1.4m households and 2.1m households to basic sanitation.

The project will involve provision of sustainable supply of water to meet social needs and support economic growth. Projects will provide for new infrastructure, rehabilitation and upgrading of existing infrastructure, as well as improve management of water infrastructure.

**Note:** The proposed renewable energy solar PV development will contribute directly to SIP 8 and indirectly to SIP 9 i.e. Green Energy in support of the South African economy and Electricity Generation to support socio-economic development, respectively.

The applicant was part of the Department of Energy's Bid Window 2 under SIP 8 and was awarded the bid and appointed as Preferred Bidder as per attached pages 16-A to 16-K, below.



**energy**

Department:  
Energy  
REPUBLIC OF SOUTH AFRICA

To: Keren Energy Kelmoes (Pty) Ltd

PER EMAIL

Dear Sir / Madam

**THE REPUBLIC OF SOUTH AFRICA - DEPARTMENT OF ENERGY**

**TENDER NO: DOE/004/13/14**

**FOR: NEW POWER GENERATION FACILITIES UNDER THE SMALL PROJECTS  
IPP PROCUREMENT PROGRAMME**

1. The Department refers to the Request for Qualification and Proposals for New Generation Capacity under the Small IPP Procurement Programme dated 21 August 2013 and all associated Briefing Notes issued in terms thereof, under tender number DOE/004/13/14 ("RFP"); and to your Bid Response submitted on 14 June 2016 for the Second Stage 2 Bid Submission Phase, as well as your response to the clarification questions issued to you on 1 July 2016.
2. Capitalised terms used in this letter shall bear the meanings given to them in the RFP, unless they are separately defined in this letter or the context dictates otherwise.
3. Appointment as a Preferred Bidder
- 3.1 Following the evaluation of the Bid Responses submitted on the Second Stage Two Submission Date, the Department wishes to inform you that it has selected Keren Energy Kelmoes (Pty) Ltd as a Preferred Bidder in respect of its 5.00 MW Kelmoes Solar Facility, located in the Northern Cape, for the

supply of Solar Photovoltaic Renewable Energy to Eskom Holdings SOC Limited.

3.2 Accordingly, the Department hereby notifies Keren Energy Keimoes (Pty) Ltd of its appointment as a Preferred Bidder, in respect of the Second Stage Two Bid Submission Phase of the Small Projects IPP Procurement Programme. It is noted that the Project will be 100% funded by Debt and that accordingly no Shareholders will be providing any Equity Finance contributions; therefore Keren Energy Keimoes (Pty) Ltd is appointed as a Preferred Bidder on the basis that the Expected Equity Value, as defined in the Implementation Agreement, will be NIL, as it is incalculable in terms of Clause 12.2.4.2.

3.3 In order for the appointment of Keren Energy Keimoes (Pty) Ltd as a Preferred Bidder to take effect, this letter must be returned to the Project Officer, counter-signed by the duly authorised representative of Keren Energy Keimoes (Pty) Ltd, by no later than close of business on the 10<sup>th</sup> (tenth) Business Day after the date of receipt of this letter.

3.4 We draw your attention to the provisions of the RFP which continue to apply to Keren Energy Keimoes (Pty) Ltd as a Preferred Bidder, notwithstanding anything contained in the Bid Response of Keren Energy Keimoes (Pty) Ltd.

3.5 In particular, the Department wishes to confirm that:

3.5.1 In terms of paragraph 5.1.71 of Part A of the RFP, the terms of the draft PPA, Implementation Agreement, Direct Agreement, the Connection Agreements and the Connection Direct Agreement issued with the RFP ("Transaction Agreements") are not negotiable, notwithstanding anything stated by any Member, Lender, Contractor or other participant in Keren Energy Keimoes (Pty) Ltd's Bid Response. In addition, Keren Energy Keimoes (Pty) Ltd, its Members, Lenders, Contractors and any other participant in Keren Energy Keimoes (Pty) Ltd's Bid Response may not raise any comments in respect of or negotiate any of the terms of the Transaction Agreements, save for any comments to address errors or to provide information to the Department to enable it to prepare execution versions of your Transaction Agreements;

3.5.2 the execution versions of the Transaction Agreements will be provided to you by the Department on the basis of the information supplied by



Keren Energy Keimoes (Pty) Ltd in its Bid Response, and shall be the basis upon which Keren Energy Keimoes (Pty) Ltd shall finalise its Project to reach Financial Close. In particular, please note that the schedules to the PPA submitted by Keren Energy Keimoes (Pty) Ltd in its Bid Response (pursuant to paragraph 2.2.3.1.4 of Part C of the RFP), will be used by the Department to populate and finalise the PPA prior to Financial Close. The Department accepts no responsibility and assumes no risk for delays which may be occasioned as a result of incorrect or incomplete information provided by Keren Energy Keimoes (Pty) Ltd in its Bid Response;

3.5.3

the Department's right to call on Keren Energy Keimoes (Pty) Ltd's Preferred Bidder Guarantee in terms of and in the circumstances set out in paragraph 23.2 of Part A of the RFP, is in no way limited by or subject to any of the conditions contained in the letters of support and/or term sheets submitted by the Lenders, providers of Equity Finance and or Corporate Finance. Therefore, notwithstanding all or any of the conditions to the provision of External Debt, Equity Finance or Corporate Finance imposed by relevant financier in the Bid Response the Department reserves fully its right to call on Keren Energy Keimoes (Pty) Ltd's Preferred Bidder Guarantee in the event that Keren Energy Keimoes (Pty) Ltd fails to reach Financial Close within the time period specified;

3.5.4

Keren Energy Keimoes (Pty) Ltd is reminded that the Department anticipates that Financial Close is estimated to be within twelve months from the time of announcement and that Keren Energy Keimoes (Pty) Ltd is required to meet any such timelines as may be determined by the Department;

3.5.5

there will be no upward movement in your Price at Financial Close, with the sole exception of an adjustment for foreign exchange rate movements, if applicable and subject to the limits provided for in paragraph 3.5.1.1 of Volume 4 of the RFP, read with Keren Energy Keimoes (Pty) Ltd's Bid Response;



- 3.5.6 there will be no upward movement in equity IRR as a result of a movement in foreign exchange rates at Financial Close against the benchmark rates set out in Briefing Note 9;
- 3.5.7 If the foreign exchange rate at Financial Close is below the benchmark rates set out in Briefing Note 9, then the Price shall be reduced appropriately to take into account the lower foreign exchange rates;
- 3.5.8 subject to clauses 3.5.5, 3.5.8 and 3.5.7 above, any changes to the Financial Model and/or the Price resulting from fluctuation in foreign exchange rates must be disclosed to, agreed with and effected in conjunction with the Department;
- 3.5.9 in terms of paragraph 23.4 of Part A of the RFP, the Project Company will pay a Development Fee calculated as R290 000 per MW of the Contracted Capacity for your Project, within 10 Business Days of the date of signature of the Implementation Agreement, failing which the Department may call Keren Energy Kelmoes (Pty) Ltd's Preferred Bidder Guarantee;
- 3.5.10 Keren Energy Kelmoes (Pty) Ltd's attention is drawn to the warranties relating to Success Payments in clauses 23.1.14 and 23.1.15 of the Implementation Agreement;
- 3.5.11 any costs relating to interest rate and/or foreign exchange hedging are at Keren Energy Kelmoes (Pty) Ltd's risk and there will be no subsequent impact on Price;
- 3.5.12 tax and accounting assumptions are a Preferred Bidder's risk and accordingly, there will be no impact on Price as a result of the adoption of an alternative tax or accounting treatment to that included within the Financial Model submitted as part of the Bid Response;
- 3.5.13 as indicated in paragraph 3.1.6 of Part D of the RFP, the commitments reflected in the Economic Development Scorecard will be migrated to the relevant portions of Schedule 2 to the Implementation Agreement (*Economic Development Obligations*); and
- 3.5.14 as indicated in paragraph 52.7 of Part A of the RFP, the Department reserves the right to seek additional information from Keren Energy



Kelmoes (Pty) Ltd in respect of its Bid Response as the Department may, in its sole discretion, determine, whether such information has been requested under this RFP or otherwise, and may, amongst other things, require the Bidder to provide the Department with supplementary information in respect of its Bid Response, if so required by the Department.

- 3.6 In order to ensure that the requirements of Regulation 9 of the Electricity Regulations on New Generation Capacity of 2011 are satisfied in respect of the Project, the Department reserves the right to negotiate with Keren Energy Kelmoes (Pty) Ltd, and the appointment of Keren Energy Kelmoes (Pty) Ltd as a Preferred Bidder is subject to the Department negotiating with it on whether the Project achieves value for money for the Government and the electricity consumer, as contemplated in paragraph 5.1.6 of Part A of the RFP.
- 3.7 The appointment of Keren Energy Kelmoes (Pty) Ltd as a Preferred Bidder is also subject to Keren Energy Kelmoes (Pty) Ltd demonstrating, pursuant to and in accordance with paragraph 13 of Part A of the RFP, to the satisfaction of the Department, that the application for all Land Use Consents and Environmental Consents required for Keren Energy Kelmoes (Pty) Ltd's proposed Facility to be lawfully developed, connected to a Distribution System or Transmission System and Operated in accordance with the PPA, has been made and has progressed sufficiently so as not to delay Financial Close. The Department will communicate further with Keren Energy Kelmoes (Pty) Ltd regarding the documentation and/or information that it requires pursuant to paragraph 13 of Part A of the RFP in due course. The Department shall be entitled, in its sole discretion, to terminate Keren Energy Kelmoes (Pty) Ltd's status as a Preferred Bidder if Keren Energy Kelmoes (Pty) Ltd fails to timely comply with a request for documentation and/or information pursuant to paragraph 13 of Part A of the RFP, or fails to satisfy the Department that all applications contemplated in that paragraph have been made and have progressed sufficiently so as not to delay Financial Close.
- 3.8 Should Keren Energy Kelmoes (Pty) Ltd fail to act in accordance with the requirements set out in clauses 3.5, 3.6 and 3.7 above at any time, the Department reserves the right to terminate the appointment of Keren Energy Kelmoes (Pty) Ltd as a Preferred Bidder, and to call its Preferred Bidder Guarantee.



- 3.9 For purposes of finalising and executing the PPA, the Department will apply the Preferred Bidder's fully indexed Price.

**4. Preferred Bidder Guarantee**

In terms of paragraph 23.1 of Part A of the RFP, in order for Keren Energy Kelmoes (Pty) Ltd to continue in the Small Projects IPP Procurement Programme as a Preferred Bidder, Keren Energy Kelmoes (Pty) Ltd is required to lodge a Preferred Bidder Guarantee (in the form provided in Schedule 26 of Volume 1, Part 2 of the RFP) with the Department in an amount equal to R75 000.00 (Seventy Five Thousand Rands) within 15 Business Days of receipt of this letter. Should Keren Energy Kelmoes (Pty) Ltd fail to provide the Preferred Bidder Guarantee in accordance with the requirements in this clause 4, the Department reserves the right to terminate the appointment of Keren Energy Kelmoes (Pty) Ltd as a Preferred Bidder.

**5. Proof of Application for Generation Licence**

In accordance with paragraph 18.3 of Part A of the RFP, Keren Energy Kelmoes (Pty) Ltd is required to submit evidence to the Department that its generation licence application, together with all the required supporting documentation, has been submitted to and received by NERSA within 14 days of being appointed as Preferred Bidder. The period of 14 days commences on the date on which this letter is returned to the Project Officer, counter-signed by the duly authorised representative of Keren Energy Kelmoes (Pty) Ltd, as contemplated in clause 3.9 above. Should Keren Energy Kelmoes (Pty) Ltd fail to act in accordance with this clause 5, the Department reserves the right to terminate the appointment of Keren Energy Kelmoes (Pty) Ltd as a Preferred Bidder.

**6. Eskom Confirmation**

As a condition to the obtaining of Eskom Board approval of the PPA to be concluded between the Project Company and Eskom Holdings SOC Limited, Keren Energy Kelmoes (Pty) Ltd is required to complete the letter attached hereto as Annexure A (*Confirmation regarding interests in Eskom Holdings SOC Limited*), confirming both its and its Members' interests in relation to Eskom Holdings SOC Limited. This letter must be returned to the Project Officer, signed by the duly authorised representative of the Project Company, by no later than close of business on the 10<sup>th</sup> (tenth) Business Day after the date of receipt of this letter.





**7. Payment of budget quote fee**

As indicated in paragraph 10 (Timetable for Small IPP Procurement Programme) of Part A of the RFP, Keren Energy Keimoes (Pty) Ltd is required to apply for a budget quotation from the Grid Provider and to pay the relevant budget quotation fee within 14 days of being appointed as Preferred Bidder. The period of 14 days commences on the date on which this letter is returned to the Project Officer, counter-signed by the duly authorised representative of Keren Energy Keimoes (Pty) Ltd, as contemplated in clause 3.8 above. Keren Energy Keimoes (Pty) Ltd is required to submit evidence to the Department that it has applied for a budget quote and has paid the budget quotation fee within this 14 day period. Failure to comply with this requirement will entitle the Department to terminate the appointment of Keren Energy Keimoes (Pty) Ltd as a Preferred Bidder, and to call its Preferred Bidder Guarantee.

**8. Change Requests**

- 8.1 The Department draws your attention to paragraphs 18.3 to 19.7 (Inclusive) of Part A of the RFP in respect of changes to any aspect of a Bid Response of a Preferred Bidder.
- 8.2 As indicated in paragraph 18.3 of Part A of the RFP, Keren Energy Keimoes (Pty) Ltd is not permitted to change any aspect of its Bid Response without the prior written approval of the Department.
9. We look forward to the successful conclusion of your Project and to those interactions with Keren Energy Keimoes (Pty) Ltd that are necessary, and contemplated by the RFP, for that purpose. Please note that the Department may wish to engage with you about achieving early Financial Close.



10. Please confirm the appointment of Keren Energy Kelmoas (Pty) Ltd as a Preferred Bidder on the terms and conditions of this letter by having a copy of it signed and returned to the Project Officer, in accordance with clause 3.3 above.

Yours faithfully



Director-General: Department of Energy

Date: 08/12/2015



Keron Energy Kelmoes (Pty) Ltd hereby accepts its appointment as a Preferred Bidder in respect of the Second Stage Two Submission Phase of the Small IPP Procurement Programme, and confirms its acceptance of the terms and conditions of this letter.



Signature of duly authorised  
representative of Keron Energy  
Kelmoes (Pty) Ltd

17/01/2017.

Date

Fritz Eksteen

Name

DIRECTOR

Designation

**ANNEXURE A**

**CONFIRMATION REGARDING INTEREST IN ESKOM HOLDINGS SOC LIMITED**

Date: 16 January 2017

Department of Energy  
192 Visagie Street (corner Visagie Street and Paul Kruger Street)  
Pretoria  
0001  
South Africa

**THE REPUBLIC OF SOUTH AFRICA – DEPARTMENT OF ENERGY**

**TENDER NO: DOE/004/13/14**

**FOR: NEW POWER GENERATION FACILITIES UNDER THE SMALL IPP PROCUREMENT PROGRAMME**

Dear Sirs

1. Being duly authorised to represent and act on behalf of Keren Energy Keimoes (Pty) Ltd (the "Preferred Bidder"), hereby confirms the following:

1.1. No director of the Preferred Bidder is currently, nor will be at the time of signature of the PPA, a director of Eskom Holdings SOC Limited or any of its subsidiary companies, other than as detailed below:


1.1.1. None

1.2. No director of any Member of the of the Preferred Bidder is currently, nor will be at the time of signature of the PPA, a director of Eskom Holdings SOC Limited or any of its subsidiary companies, other than detailed below:

1.2.1. None

1.3. No director of Eskom Holdings SOC Limited nor any of its subsidiary companies currently have, nor will have at the time of signature of the PPA, a direct or indirect interest in the Preferred Bidder, other than as detailed below:

1.3.1. None

  
16-

SP\_PV\_0048\_004  
Solar Photovoltaic  
Second Stage Two Bid Submission date

Yours faithfully,

Signed: 

Name: FRITZ EKSTEEN

For and on behalf of Keren Energy Keimoes (Pty) Ltd



**APPENDIX 3 (IF APPLICABLE)  
LIST OF LOCAL MUNICIPALITIES**

There is only one Local Municipality i.e. Matzikama Local Municipality, Western Cape Province involved in this application (contact details provided in application form above).

Municipality details (including Ward Councillor where available) as used in first round of public participation process, attached as page 17-A, below. Municipality details highlighted in yellow.



Environmental Management and Impact Assessment  
Omgewingsbestuur en Impakbeoordeling

## PUBLIC PARTICIPATION PROCESS

Newspaper Advert  
Placed:

13 April 2017

**Vanrhynsdorp Solar PV Facility**

Original DEA Ref: 12/12/20/2677 ;  
Original DEA NEAS Ref: DEA/EIA/000889/2011;  
New DEA EIA Ref: 14/12/16/31/1854

First public participation (pre-application) period started 18 August 2017 and ended 18 September 2017

Second public participation (post application) will start 10 November 2017 and end 10 December 2017

No.	Title	Initials/Name	Surname	Affiliation	Postal Address	Town/City	Code	Telephone	Fax	E-mail	Preferred Method of Contact
<b>1. Applicant</b>											
1.1	Mr	CW	Janse v Rensburg	Roma Energy Vanrhynsdorp (Pty) Ltd	P. O. Box 73	Somerset West	7137	082 631 7496	021 853 0269	<a href="mailto:wevers@krenenergy.com">wevers@krenenergy.com</a>	email
<b>2. Property / Land Owners:</b>											
2.1	Ms		Anna Helena Wiese	The Johnny Wiese Family Trust	9 Central Street	Vredendal	7550	027 2131155	027 2131697	<a href="mailto:enawiese@cminds.co.za">enawiese@cminds.co.za</a>	email/post
<b>3. Municipality</b>											
3.1	Mr	Danie	Lubbe	Municipal Manager, Matzikama Municipality	PO Box 98	Vredendal	8160	027 2013300/0846	027 2133238	<a href="mailto:daniel@matzikamamun.co.za">daniel@matzikamamun.co.za</a> <a href="mailto:psadoff@matzikamamun.co.za">psadoff@matzikamamun.co.za</a>	email
3.2	Mr	Theodore	Martin	Environmental Officer, Matzikama Municipality	PO Box 98	Vredendal	8160	027 2013300	027 2133238	<a href="mailto:c/o_bsmi@matzikamamun.co.za">c/o bsmi@matzikamamun.co.za</a>	email/post
<b>4. State Organisations:</b>											
4.1	Ms	Doretha	Kotze	West Coast District Municipality	P. O. Box 242	Moorensburg	7310	022 433 8523		<a href="mailto:dkotze@wcdm.co.za">dkotze@wcdm.co.za</a>	email/post
4.2	Ms	Alana	Duffell-Canham	Cape Nature (Land Use and Conservation Planning)	Private Bag X5014	Stellenbosch	7599	021 866 8029	021 866 1523	<a href="mailto:aduffell-canham@cape.nature.co.za">aduffell-canham@cape.nature.co.za</a>	email/post
4.3	Mr	Cor	Van Der Walt	Dept. of Agriculture, Forestry and Fisheries	Private Bag X1	Elsenburg	7607	021 808 5099	021 808 5092	<a href="mailto:corvdtw@elsenberga.com">corvdtw@elsenberga.com</a>	email/post
4.4	Ms	Melissa	Litman-Strauss	Dept. of Water and Sanitation	Private Bag x16	Sanlamhof	7532	021 950 7274	021 950 7224	<a href="mailto:bjlan@dwaf.gov.za">bjlan@dwaf.gov.za</a>	email/post
4.5	Mr	Nicholas	Wiltshire	Heritage Western Cape	Private Bag X9067	Cape Town	8000	021 483 9682	021 483 9842	<a href="mailto:nwiltshire@pgwv.gov.za">nwiltshire@pgwv.gov.za</a>	email/post
4.6	Mr	André	Oosthuizen	Dept. of Environmental Affairs and Development Planning	Private Bag X9086	Cape Town	8000	021 483 4094	021 483 4372		not known (post)
4.7	Ms	Colene	Runkel	SANRAL - Western Cape	Private Bag X 19	Belville	7535	021 957 4600	021 946 1630		not known (post)
4.8	Ms	Anneliza	Collett	Dept. of Agriculture, Forestry & Fisheries	Private bag x120	Pretoria	0001	012 319 7508	012 329 5938	<a href="mailto:anneliza@nda.agri.za">anneliza@nda.agri.za</a>	email/post
4.9	Ms	Lizell	Stroh	South African Civilian Aviation Authority	Private Bag x73	Halfway House	1685	011 545 1232	011 545 1451	<a href="mailto:stroh@caa.co.za">stroh@caa.co.za</a>	email
4.10	Mr	Kevin	Leask	Eskom	P. O. Box 1091	Johannesburg	2001	072-888-9209			not known (post)
4.11	Mr	Briaan	Smit	Matzikama Municipality	PO Box 98	Vredendal	8160	027 2013481	027 2135098	<a href="mailto:bsmi@matzikamamun.co.za">bsmi@matzikamamun.co.za</a>	email/post
4.12	Ms	Annali	van der Westhuizen	Matzikama Municipality	PO Box 98	Vredendal	8160	027 2013300	027 2133238	<a href="mailto:annalidw@matzikamamun.co.za">annalidw@matzikamamun.co.za</a>	email/post
4.13	Ms	Bernette	Kriek	Matzikama Municipality	PO Box 98	Vredendal	8160	027 2013300	027 2133238	<a href="mailto:berplanting@matzikamamun.co.za">berplanting@matzikamamun.co.za</a>	email/post
4.14	Ms	Deoné	Wessels	Matzikama Municipality	PO Box 98	Vredendal	8160	027 2013300	027 2133238	<a href="mailto:deonew@matzikamamun.co.za">deonew@matzikamamun.co.za</a>	email/post
4.15	To be confirmed			Matzikama Municipality	PO Box 98	Vredendal	8160	027 2013300	027 2133238	<a href="mailto:collab@matzikamamun.co.za">collab@matzikamamun.co.za</a>	email/post
4.16	Mr	Sipiwo	Xongo	Dept. of Water and Sanitation (Berg-Olifants WMA)	52 Voortrekker Road	Belville	7530	021 941 6271		<a href="mailto:Xongos@dws.gov.za">Xongos@dws.gov.za</a>	email/post
4.17	Mr	K	Maluleke	Dept. of Agriculture, Forestry and Fisheries (Directorate: Land Use and Soil Management)	Private Bag x120	Pretoria	0001	012 319 7678	012 329 5938	<a href="mailto:TinguvuM@daff.gov.za">TinguvuM@daff.gov.za</a>	email or post or fax
4.18	Ms	M	Schippers	Dept. of Environmental Affairs and Development Planning (Directorate: Development Planning, Region 1)	7th Floor, 1 Dorp Street	Cape Town	8001	021 483 8349	021 483 4372	<a href="mailto:dkotze@wcdm.co.za">dkotze@wcdm.co.za</a>	email/post
4.19	Ms	Adri	La Meyer	Dept. of Environmental Affairs and Development Planning (Directorate: Development Planning)	11th Floor, Utilities Building, 1 Dorp Street	Cape Town	8001	021 483 2887	021 483 4185	<a href="mailto:Adri.LaMeyer@westerncape.gov.za">Adri.LaMeyer@westerncape.gov.za</a>	email/post
4.20	The	Director-	General	Dept. of Environmental Affairs (National)	Private Bag x 447	Cape Town	0001	086 111 2468 / 012 399 9008	012 359 3625	<a href="mailto:callcentre@environment.gov.za">callcentre@environment.gov.za</a>	email
<b>5. Neighbours</b>											
5.1	Neighbouring houses										
5.2	Mr	TJ	Van Zyl	Maildrops to be done for outlying houses (closer to proposed development)	PO Box 179	Van Rhynsdorp	8161				hand delivery
<b>6. Other</b>											
6.1	The	Editor		Ons Kontrei				027-213 2074		<a href="mailto:ads2.onskontrei@gmail.com">ads2.onskontrei@gmail.com</a>	email
6.2	The	Director		SKA Africa	3rd Floor, The Park, Park Road	Pinelands		021 506 7300	021 506 7375		post

**APPENDIX 4  
LIST OF LAND OWNERS  
WRITTEN CONSENT OF LAND OWNERS**

There is only one Land Owner i.e. The Johnny Wiese Family Trust, involved in this application. Written consent of land owner's form attached as per page 18-A to 18-C, below.



## **OWNER OF REGISTERED PROPERTY'S CONSENT**

### **CONSENT TO CONTINUE WITH THE PLANNING AND APPLICATION TO OBTAIN THE NECESSARY APPROVALS FOR THE ENVIRONMENTAL IMPACT ASSESSMENT AND OTHER APPLICATIONS FOR THE DEVELOPMENT OF THE PROPOSED**

**5 MW SOLAR PROJECT WITH SOLAR PHOTOVOLTAIC (PV) TECHNOLOGY BY THE COMPANY ROMA ENERGY VANRHYNSDORP (PTY) LTD ON THE PROPERTY DESCRIBED THE REMAINING EXTENT OF DE DUINEN NO. 258, IN EXTEND 792,0156 HECTARES, IN THE MATZIKAMA MUNICIPALITY VANRHYNSDORP REGISTRATION DIVISION, WESTERN CAPE PROVINCE, HELD BY VIRTUE OF DEED OF TRANSFER NO. T14487/2010. COORDINATES IN THE CENTRE OF THE AREA BELOW.**

This serves to confirm that I, ANNA HELENA WIESE ID: 3612140041087, acting for and on behalf of Johnny Wiese Family Trust and hereafter referred to as the "Property Owner", hereby consent to continue with the planning and application to obtain the necessary approvals for the Environmental Impact Assessment and other applications for the development of the proposed:

**5 MW SOLAR PROJECT WITH SOLAR PHOTOVOLTAIC (PV) TECHNOLOGY BY THE COMPANY ROMA ENERGY VANRHYNSDORP (PTY) LTD ON THE PROPERTY DESCRIBED THE REMAINING EXTENT OF DE DUINEN NO. 258, IN EXTEND 792,0156 HECTARES, IN THE MATZIKAMA MUNICIPALITY VANRHYNSDORP REGISTRATION DIVISION, WESTERN CAPE PROVINCE, HELD BY VIRTUE OF DEED OF TRANSFER NO. T14487/2010. COORDINATES IN THE CENTRE OF THE AREA BELOW.**

Co-ordinates of the property: 31°36'12.01" S 18°44'50.91" E

This consent is for the investigation and to undertake the activity/ies on the property necessary for the approval of the Environmental Impact Assessment and applications for the proposed development and is subject to the signing of a final agreement between the parties, the Owner, the applicant as well as the necessary environmental approvals.

Name of the Property/Farm: DE DUINEN

Registered name and number of the property: THE REMAINING EXTENT OF DE DUINEN NO. 258, IN EXTEND 792,0156 HECTARES, IN THE MATZIKAMA MUNICIPALITY VANRHYNSDORP REGISTRATION DIVISION.

Owner's Address: 9 CENTRAL STREET VREDENDAL

Owner's telephone No: 083 2348009 AND 027 2131155

Owner's e-mail address: [enawiese@enawiese.co.za](mailto:enawiese@enawiese.co.za) and [info@enawiese.co.za](mailto:info@enawiese.co.za)

SIGNED: SEE ATTACHED FIRST AND LAST PAGE OF THE SIGNED LEASE AGREEMENT FOR THE SOLAR FACILITY.

**DEED OF LEASE**

**BETWEEN**

**JIMMY WIESE FAMILIE TRUST IT 6953/96**

represented by Anna Helena Wiese

(the "Lessor")

**AND**

**ROMA ENERGY VANRHYNSDORP (PTY) LTD**

Herein represented by Riaan Retief Janse van Rensburg in his capacity as trustee of the company to be incorporated in terms of the Laws of the Republic of South Africa.

(the "Lessee")

**AND THE APPEARER DECLARED THAT:**

**WHEREAS**

(a) the Lessor is the registered owner of –

the remaining extent of De Duinen No. 258, in extend 792,0156 hectares, in the Matzikama Municipality, VanRhynsdorp Registration Division, Western Cape Province, held by virtue of Deed of Transfer No. T14487/2010.

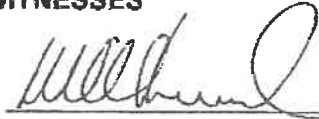
("Property")


- (b) The Lessor has agreed to let the Property to the Lessee for the purposes of constructing, commissioning and operating the Solar Energy Generation Facility, and the Lessee has agreed to hire the Property from the Lessor.
- (c) The Parties wish to record in writing their agreement in respect of the above and matters ancillary thereto and to register such Lease against the title deed of the Property.

*PR*  
*AR*  
*AR*  
*AR*  
*MS*

THUS DONE AND signed at Vredendal on the 6<sup>th</sup> day of March 2012.

AS WITNESSES

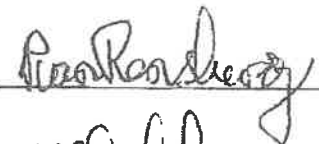
1. 

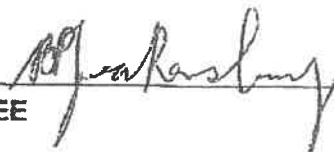
  
LESSOR

2. 

THUS DONE AND signed at Strand on the 12<sup>th</sup> day of March 2012.

AS WITNESSES

1. 

  
LESSEE

2. 

**APPENDIX 5 (IF APPLICABLE)**  
**LIST OF SGIDS / COORDINATES OF THE BOUNDARY OF THE PROPERTY OR PROPERTIES**  
**(WHERE SGID AND FARM NAME ARE NOT AVAILABLE)**

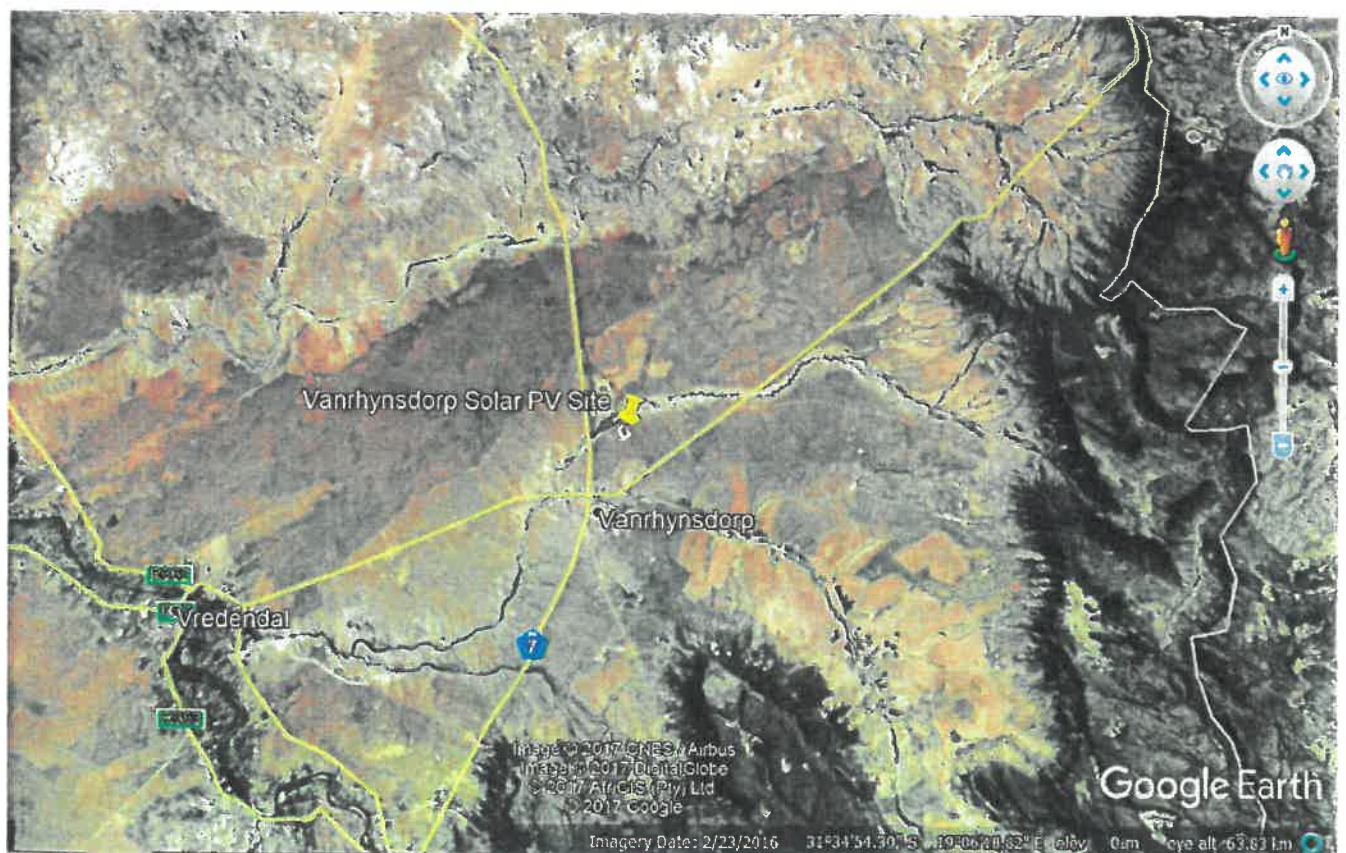
There is only one SGID related to this application (details provided in application form above).

## **APPENDIX 6 PROJECT MAP**

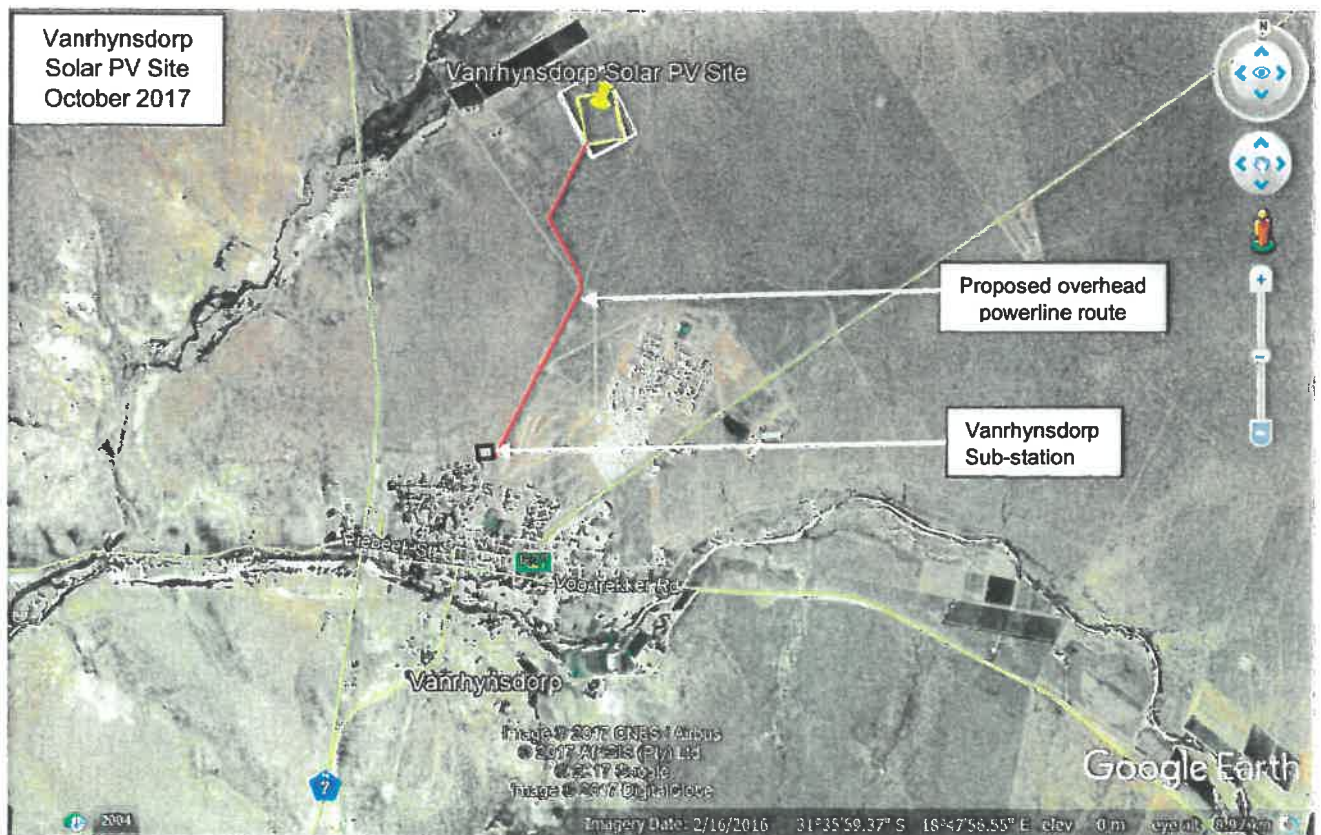
Project maps included as per pages 20-A and 20-B.

Sensitivity map overlaid by the study area included as per page 20-C.

## Appendix A: Locality Maps

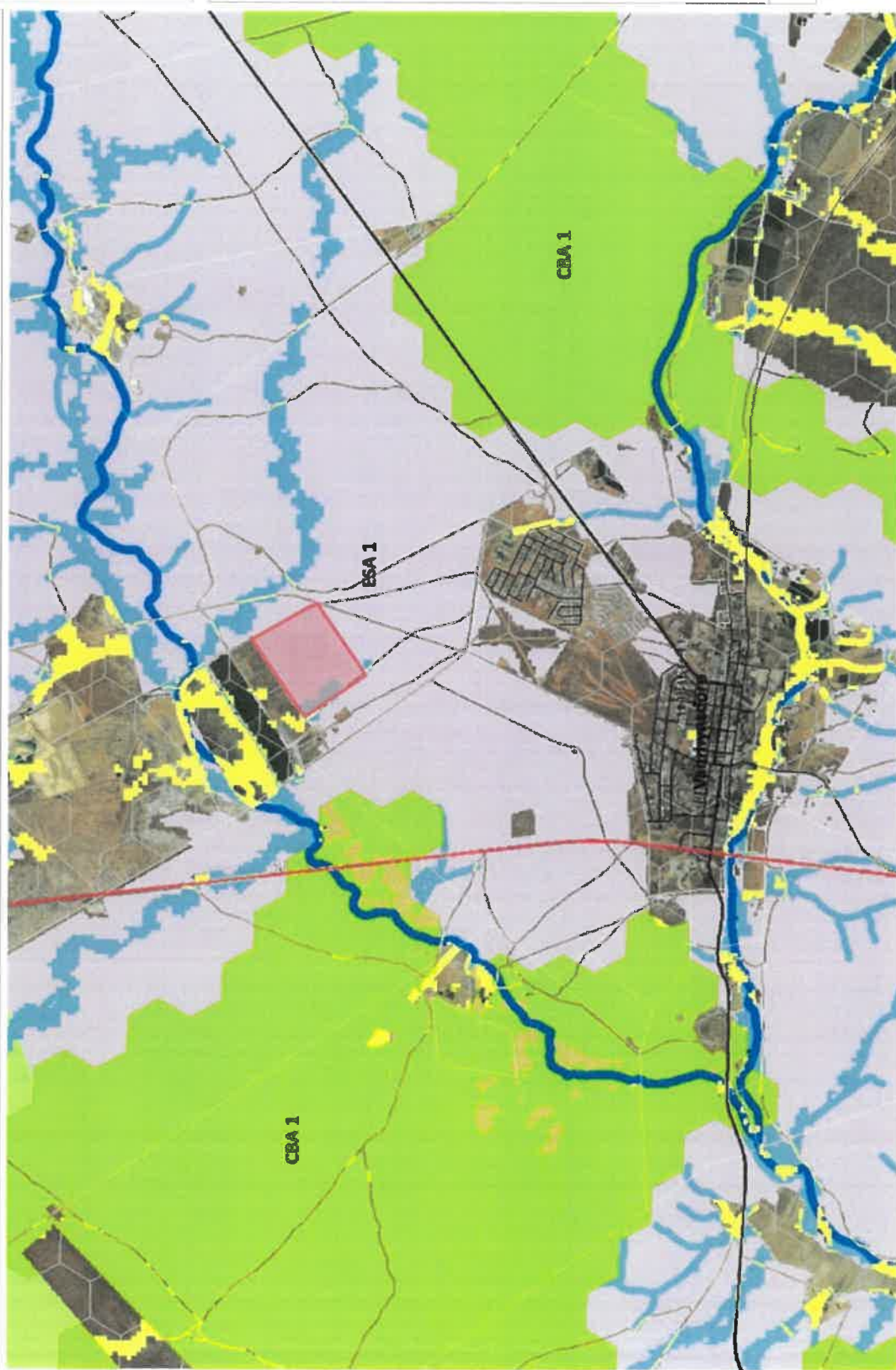






Proposed Overhead power line for tie-in to Eskom's Vanrhynsdorp substation indicated in red. Total 20ha proposed site indicated with white outline. Actual 10ha of solar PV panel layout area, within total 20ha site, indicated with yellow outline.





**Legend**

- National roads
- Secondary roads
- ARTERIAL ROUTE
- MINOR RD
- ROADSIDE DRAIN
- Minor roads
- Railways
- Local municipalities 2011
- Towns
- International borders
- Provincial borders
- District municipality
- Local municipalities
- Farm boundaries
- Matzikama CBA1
- CBA Terrestrial
- CBA Fresh
- CBA Wet
- CBA Estuary
- CBA Wetland
- Matzikama CBA2
- CBA Aquatic
- CBA Terrestrial
- Matzikama ESA1
- ESA Aquatic
- ESA Terrestrial

1: 36 112



This map is a user generated output from an internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

1.8 0 0.92 1.8 Kilometers

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
© Latitude Geographic Group Ltd.



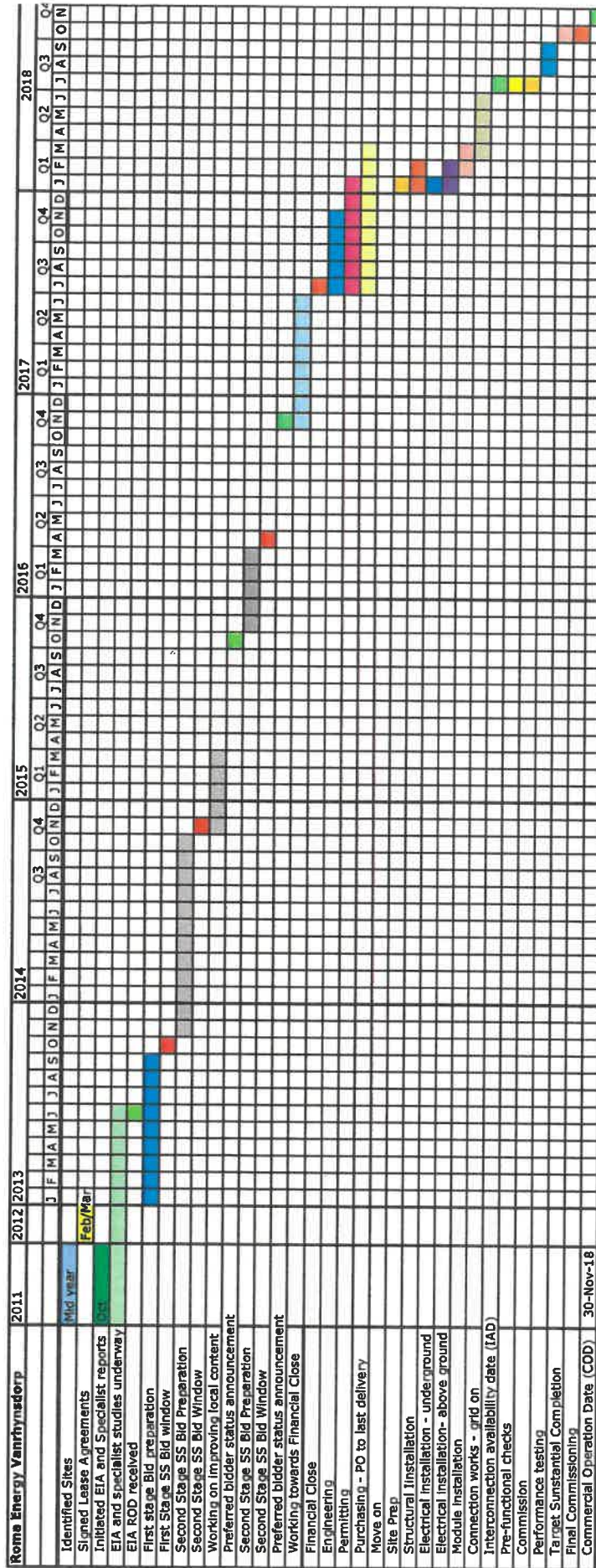
## **APPENDIX 7 PROJECT SCHEDULE**

Environmental Authorisation (EA) re-application project plan attached as page 21-A.  
Proposed solar PV facility development original project phases and plan attached as page 21-B (plan indicates original successful EA application timelines).

2017 Environmental Impact Assessment Process Project Plan: Roma Energy Vanrhynsdorp (Pty) Ltd Solar PV Facility			
No.	Action	Initial Target Date	✓
1	Clarification meeting with client re. 2016 meeting with National Department of Environmental Affairs (DEA) and change in technical scope	10 February	
2	Appointment of specialists for revised Basic Assessment Report (BAR) assessments	15 February	
3	Client instructed EnviroAfrica to proceed with environmental authorisation (EA) pre-application and application process	10 July	
4	Compile draft BAR ( pre-application DBAR)	July -August	
5	First round of public participation (PP) starts with issuing of DBAR – pre-application	18 August	
6	Compile updated I&AP list and formally respond to PP comments and queries (Compile comments and responses trail report)	August - October	
7	First round of PP (pre-application with DBAR) ends	18 September	
8	Start compiling post-application BAR and environmental management programme (EMPr)	19 September - 20 October	
9	Complete Environmental Authorisation (EA) application form	20 - 31 October	
10	Submit with post application BAR to competent authority/DEA for comment	3 November	
11	Second round of PP with issue of post-application BAR to registered I&APs starts	10 November	
12	Receive project reference number from DEA	Early November	
13	Issue copy of EA application form and post application BAR to I&APs for comment - Second round of PP with issue of post-application BAR to registered I&APs starts	3 - 10 November	
14	Respond to government comments on post application BAR and application. Capture comments and responses in trail report.	01 December - 11 December	
15	Finalise post-application BAR (i.e. FBAR for decision) and EMPr	10 - 11 December	
17	Second round of PP (post application for comment) ends	11 December	
18	Communication with DEA re. PP comments and FBAR issues	01 December - 11 December	
19	Collate comments into FBAR and issue to DEA for decision and notify I&APs	11-12 December	
20	Await DEA EA decision (107 days maximum)		?
21	Inform registered I&APs of EA application outcome	Within 10 days of DEA decision	

#### KEY

Target not met: ; In progress (target date not met as yet): ; Target met / met to date: 



30-Nov-18

**APPENDIX 8  
DECLARATION OF THE APPLICANT**

MEYERS JANSE VAN RENSBURG declare that –

- I am, or represent<sup>1</sup>, the applicant in this application;
- I have appointed an Environmental Assessment Practitioner (EAP) to act as the independent EAP for this application / have obtained exemption from the requirement to obtain an EAP<sup>2</sup>;
- I will take all reasonable steps to verify whether the EAP and specialist/s appointed are independent and have expertise in conducting environmental impact assessments or undertaking specialist work as required, including knowledge of the Act, the EIA Regulations and any guidelines that have relevance to the proposed activity;
- I will provide the EAP and the competent authority with access to all information at my disposal that is relevant to the application;
- I will be responsible for the costs incurred in complying with the Regulations, including but not limited to –
  - costs incurred in connection with the appointment of the EAP or any person contracted by the EAP;
  - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
  - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
  - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
  - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- I will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- I am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- I hereby indemnify the Government of the Republic of South Africa, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or EAP is responsible for in terms of these Regulations;
- I will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- I will perform all obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in section 49B of the Act.
- I am aware that in terms of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no listed activity may commence prior to an environmental authorisation being granted by the Competent Authority.

  
Signature<sup>3</sup> of the applicant / Signature on behalf of the applicant

ROMA ENERGY VANRHYNSDORP (PTY) LTD.  
Name of company (if applicable)

2<sup>ND</sup> NOVEMBER 2017  
Date:

<sup>1</sup> If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached. If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.

<sup>2</sup> If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

<sup>3</sup> Only original signatures will be accepted. No scanned, copied or faxed signatures will be accepted. An EAP may not sign on behalf of an applicant.

MEETING OF THE BOARD OF DIRECTORS OF ROMA ENERGY VANRHYNSDORP (PTY)  
LTD REG NO: 2012/203878/07 HELD IN STELLENBOSCH ON 23 MARCH 2017

---

RESOLUTION 1:

That Cornelius Weyers Janse van Rensburg, Id no: 7301275062086, is authorised to sign all documents on behalf of the company in the relation to the Environmental Impact Assessment application.

Signed:



Fritz Eksteen

Director



Riaan Janse van Rensburg

Director

**APPENDIX 9**  
**9.1 DECLARATION OF THE EAP**

I, BERNARD DE WITT, declare that –

- I act as the independent environmental assessment practitioner in this application;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I will take into account, to the extent possible, the matters listed in Regulation 18 of the Regulations when preparing the application and any report relating to the application;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority, unless access to that information is protected by law, in which case it will be indicated that such information exists and will be provided to the competent authority;
- I will perform all obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in section 49B of the Act.

**Disclosure of Vested Interest (delete whichever is not applicable)**

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;

- ~~• I have a vested interest in the proposed activity proceeding, such vested interest being:~~

N/A

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

  
Signature of the environmental assessment practitioner

Enviro Africa CC

Name of company:

Date

02/11/2017

**APPENDIX 9**  
**9.2 UNDERTAKING UNDER OATH/ AFFIRMATION**

I, BERNARD DE WITT, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.

  
\_\_\_\_\_  
Signature of the environmental assessment practitioner

ENVIRO AFRICA CC  
\_\_\_\_\_  
Name of company

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
**COMMISSIONER OF OATHS**  
**JACQUES ENGELBRECHT**  
Professional Accountant (S.A.)  
P.O. Box 12347, Die Boord, 7613  
021 851 0700

\_\_\_\_\_  
Signature of the commissioner of oaths

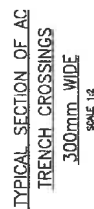
02 November 2017  
\_\_\_\_\_  
Date

**Appendix J5:        DEA acknowledgement of notification for an extension**



Not applicable for this application at this stage

**Appendix J6: Roads and trenches detail drawing**

[illegible]

**Appendix J7: Proof of proposed rezoning application**



17 October 2016

Ref.: 15/6/8/9, 17/18/1/36 & PI 258 V/dorp  
Enquiries: Ms B Kriek

**VIA REGISTERD MAIL**

Ms A Coetzee  
CK Rumboll & Partners  
PO Box 211  
MALMESBURY  
7299

Dear ms Coetzee

**APPLICATION FOR A CONSENT USE ON THE REMAINDER OF THE FARM DUINEN NO 258, FOR A SOLAR ENERGY PROJECT**

Your application with reference "VR/8069/PJ1" dated 6 July 2016 (received by this office on 11 July 2016) which replace the application dated 2 October 2012.

Due to the length of time that has passed and the fact that the previous application was advertised on 10 May 2013 for an area of  $\pm 20$ ha and that this application is now for an area of  $\pm 38$ ha, the application will have to be re-served and re-sent in accordance with Section 53 and read together with Section 54 of the Matzikama Municipal: Land Use Planning Bylaw.

After the preliminary evaluation of your application the following documentation and information needs to be clarified and/or submitted to this office:

- Written confirmation that the application property description is in accordance with the submitted Title deed which is "...Farm Duinen No. 258" and not "... Farm De Duinen No. 258" as mentioned in your application.
- The applicable Title Deed as the application form and motivation indicates the title deeds' T number as "T9776/1921" and the current and submitted title deed is "T14487/10".
- The resolution relating to the signing of the power of attorney for the land use application. The resolution submitted is regarding the lease agreement.
- A copy of the amendment of Environmental Authorisation dated 2 July 2015, as mentioned in your motivation report.
- As previously mentioned, comments regarding the current land use application must be obtained from the following organisations / state departments and be submitted to the municipality:

<ul style="list-style-type: none"><li>• Cape Nature</li><li>• Western Cape Government: Department of Agriculture</li><li>• Western Cape Government: Department Water Affairs &amp; Sanitation</li></ul>
---

- Department Environmental Affairs and Development Planning
- West Coast District Municipality
- Heritage Western Cape
- Department Transport and Public Works: Road Network Manager
- SANRAL

- Proof of payment of the following fees:

Administration of the consent use application:	R3 150,00
Notice in local newspapers:	R3 250,00
Notices to surrounding land owners:	<u>R 750,00</u>
<b>TOTAL</b>	<b><u>R7 150,00</u></b>

The outstanding information and documentation must be provided to the Municipality within 14 days from the date of registration of this letter. The municipality may refuse to consider the application if it is not provided within the given timeframes unless an extension of time-frame is requested in writing before the expiry date.

This Municipality can only make an informed decision with respect to your application after receiving the necessary information and comments of the relevant departments.

The Municipality reserve the right to revise initial comments and request further information based on any additional information that may be received.

Kind regards

  
ACTING MUNICIPAL MANAGER

**Appendix J8: DWS letter re. registered borehole water supply**



# water & sanitation

Department:  
Water and Sanitation  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X16, Sanlamhof, 7532, 52 Voortrekker Road, Bellville, 7530

A Hester Lyons  
2712  
E [lvonsh@dwa.gov.za](mailto:lvonsh@dwa.gov.za)

(021) 941 6187  
086 276 1351

Roma Energy Vanrhynsdorp (Pty)Ltd  
William Nicol Ave  
FOURWAYS  
2086

Dear Mr. R van Rensburg

**PROJECT BID SUBMISSION TO THE DEPARTMENT OF ENERGY: SOLAR ENERGY PROJECT: NON BINDING AGREEMENT ON WATER RESOURCE AVAILABILITY: ROMA ENERGY VANRHYNSDORP (PTY) LTD.**

Your request via e-mail dated 30-09-2014 to provide comments from this office regarding the available water resources to sustain the proposed solar project and the need to apply for an authorization in terms of the National Water Act, 1998(Act 36 of 1998), refers.

This letter serves to give you an indication on the availability and/or water resources for development during the construction and operational phase of the project as well as the authorization method to get approval on the use of the water.

The Western Cape Region has assessed the information supplied and wish to confirm the following:

**1. Taking of water as listed in terms of Section 21(a) of the National Water Act, 1998**

- 1.1 A person is only allowed to use water if:
  - 1.1.1 It is permissible in terms of Schedule 1 (which is small domestic water use)
  - 1.1.2 It is permissible in terms of a General Authorizations.
  - 1.1.3 It is a continuation of an Existing Lawful Water Use. This means that the water use must have taken place within the two-year window period before the implementation of the National Water Act, 1998.
  - 1.1.4 It was authorized in terms of a water use license.
- 1.2 The property on which the proposed Vanrhynsdorp Solar Project falls are located within the Olifants WMS. The quaternary catchment is E33.



- 1.3 The current General Authorization no 399 dated 26 March 2004 was extended for a further period until it is withdrawn. The E33 quaternary catchment is excluded to use any water in terms of the General Authorization (GA).
- 1.4 The GA however allows a person to use limited water in terms of small industrial use for construction. The estimated water requirement during the 6 months construction phase will be 651m<sup>3</sup> and during the operational phase it will be 970m<sup>3</sup> which is less than the daily 20m<sup>3</sup> allowed by the GA.
  - 1.5 In terms of the GA the water use need to be registered. The Confirmation Report for Register Number: 22015711 confirm that 5000m<sup>3</sup> of water for industrial use was registered as required in terms of Section 1.8(1) & (2) of the GA.
- 1.6 Your application to make use of groundwater during the construction and operational phase of the Vanrhynsdorp Solar Project may continue without any further authorization from this office.
- 1.7 You need to comply with all conditions as set out in the GA no 399 dated 26 March 2004. Attached please find a copy of GA.
- 1.8 If the water will be transfer from one property to another, you will need to apply for a water use licence.
- 1.9 The department cannot guarantee the sustainable yield or the quality for any groundwater resource.
2. **The possible impact on the water use by either road crossings or the solar panel foundations positioned close to drainage line, rivers or wetlands as listed in terms of Section 21(c) & (i) of the National Water Act, 1998.**
  - 2.1 The National Water Act, 1998(Act 36 of 1998) regulate 11 water uses as listed in section 21 of the act and any change affecting the resource quality within the riparian habitat or 1:100 year flood line can be classified as altering the bed, banks and/or characteristics of a water course.
  - 2.2 Any road crossings through a water course or wetland will need authorization. The impact on the water resource will be evaluated and depending if the impact on the resource quality impact is minor and the mitigation measures proposed will not negatively impact on the water resource, this Department will consider the General Authorisation no 1199 dated 18 December 2009. Attached please find a copy of this authorization with the conditions that such river crossings need to comply with.
  - 2.3 Any development (roads, foundation structures or any infrastructure) within a radius of 500m from a wetland will need authorization by means of a full water use license as required in terms of Section 40 & 41 of the National Water Act, 1998 (Act 36 of 1998).
3. **Effluent Management in terms of Section 21(f) and (g) of the National Water Act, 1998**
  - 3.1 The chemical toilets to be used during the construction phase must be located at least 100m away from any water resource. Effluent from the toilets must be disposed of at an authorized waste disposal facility. A letter to confirm the agreement between the service

provider and the contractor must be submitted before commencement of construction of the project.

- 3.2 This Department must approve the Environmental Management Plan (EMP) for the project in order to ensure that no activity will cause any pollution or harm to the environment or any water resources.
- 3.3 A Storm Water Management Plan which should address possible soil erosion must be submitted prior to construction to this department for approval.

**4. Way forward**

- 4.1 Any deviation from the conditions mentioned above should be brought to the attention of the Department and can be require that a water use license be issued.
- 4.2 This comments/authorization does not exempt the water user from compliance with any other applicable law, regulation, ordinance or by-law.
- 4.3 The department reserves the right to amend comments should additional information becomes available that can influence the impact on any water resource.

Please contact this office should you need further information.

Yours faithfully



**CHIEF DIRECTOR: WESTERN-CAPE**

DATE: 20/10/2014

**Appendix J9: Correspondence with Cape Nature  
(including EAP's and Biodiversity Specialist's response  
to Cape Nature's comments on pre- and post-application DBARs)**

## Vivienne Thomson

---

**From:** Alana Duffell-Canham <aduffell-canham@capenature.co.za>  
**Sent:** Tuesday, 12 September 2017 7:34 AM  
**To:** Vivienne Thomson  
**Subject:** RE: Proposed Vanrhynsdorp Solar Photovoltaic Facility - Pre-application Draft Basic Assessment Report.

Dear Vivienne

Thank you for your message and email. I apologise for not calling back but I was in meetings until after 6pm yesterday.

Your responses have adequately addressed our comments at this stage. It appears that there is sufficient scope within the site to shift the layout if necessary to avoid any sensitive areas or areas prone to flooding. Unfortunately I will not be able to make a meeting this week. I will ask one of my colleagues but it is quite short notice.

We will comment again on the next phase of the application.

Kind regards,  
Alana

**Alana Duffell-Canham**  
**Scientist: Land-use & Conservation Planning**



**CapeNature**

tel +27 21 866 8000 | fax +27 21 866 1523 | cell +27 082 727 2691  
email [aduffell-canham@capenature.co.za](mailto:aduffell-canham@capenature.co.za) | fax2email +27 86 529 3475  
postal Private Bag x5014 Stellenbosch 7599  
physical Assegaaibosch Nature Reserve Jonkershoek Road Stellenbosch  
[www.capenature.co.za](http://www.capenature.co.za)

---

**From:** Vivienne Thomson [<mailto:vivienne@enviroafrica.co.za>]  
**Sent:** 11 September 2017 13:02 PM  
**To:** 'Alana Duffell-Canham' <[aduffell-canham@capenature.co.za](mailto:aduffell-canham@capenature.co.za)>  
**Subject:** RE: Proposed Vanrhynsdorp Solar Photovoltaic Facility - Pre-application Draft Basic Assessment Report.  
**Importance:** High

Dear Alana

Thank you for your mail below. EnviroAfrica acknowledges the commenting letter received from your offices via email on 05 September 2017.

Please find the response from EnviroAfrica attached. A hardcopy of the attached letter will be posted to your offices. Please further note that Cape Nature's comments and queries will be captured as part of the current pre-application public participation process.

As per the telephonic message left this morning on your cellular 'phone, EnviroAfrica will be undertaking a site meeting with representatives from the Western Cape Department of Water and Sanitation regarding the ESA issue highlighted in the letter received from your offices. Representatives from your office are welcome to attend this site visit which will take place, this Thursday (14 September 2017) at 14h00. I apologise for the very short notice - the site visit was originally scheduled for 21 September and was only rescheduled last week. Please also refer to specific feedback regarding the ESA in the attached letter.

I trust this is in order. Should there be any queries, please do not hesitate to contact me.

Thank you,  
Vivienne Thomson



**EnviroAfrica**

*Environmental Consultant*

**EnviroAfrica cc**

p: +27 21 851 1616 m: +27 82 921 5949

f: +27 86 512 0154

a: Unit 7, Pastorie Park, Reitz St, Somerset West, 7130

P.O. Box 5367, Helderberg, 7135

w: [www.enviroafrica.co.za](http://www.enviroafrica.co.za) e: [vivienne@enviroafrica.co.za](mailto:vivienne@enviroafrica.co.za)

Please consider the environment and only print this mail if necessary.

**From:** Alana Duffell-Canham [<mailto:aduffell-canham@capenature.co.za>]

**Sent:** Tuesday, 05 September 2017 1:03 PM

**To:** [vivienne@enviroafrica.co.za](mailto:vivienne@enviroafrica.co.za)

**Subject:** RE: Proposed Vanrhynsdorp Solar Photovoltaic Facility - Pre-application Draft Basic Assessment Report.

Dear Vivienne

Please find comment from CapeNature attached.

Kind regards,  
Alana

**Alana Duffell-Canham**

Scientist: Land-use & Conservation Planning



**CapeNature**

tel +27 21 866 8000 | fax +27 21 866 1523 | cell +27 082 727 2691

email [aduffell-canham@capenature.co.za](mailto:aduffell-canham@capenature.co.za) | fax2email +27 86 529 3475

postal Private Bag x5014 Stellenbosch 7599

physical Assegaaibosch Nature Reserve Jonkershoek Road Stellenbosch

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

11 September 2017

Ms. A Duffell-Canham  
Cape Nature  
Private Bag X5014  
Stellenbosch  
7599

Dear Alana

re.: Reference SSD14/2/6/1/8/3/258\_Solar\_DeDuinen

Thank you for the correspondence received from your offices via email on 05 September 2017. Please note that Cape Nature's comments and queries, as well as EnviroAfrica's itemised response below will be captured as part of the current pre-application public participation process.

Response to Cape Nature comments/queries as received on 05 September 2017:

1. Cognisance is taken of the declining nature of the Vanrhynsdorp Gannabosveld.
2. You are correct in noting that the current preferred site is in similar location to the alternative site proposed in the original application and not the preferred site in the original application.

Please note that the preferred site in the original (2012) application, coincided with a CBA identified within the Matzikama Municipality and according to the original Biodiversity Specialist Report, may also "put pressure on regional biodiversity conservation targets in that it might impede corridor connectivity". The original Biodiversity Specialist Report was included as appendix D2 (2012) of the current pre-application draft basic assessment report (DBAR). It was for this reason, as stated on page 8 of the current DBAR, that the current preferred site was selected.

3. Applying a precautionary, risk averse approach, the sensitivity map included in Appendix A-3 of the pre-application DBAR included an extra approximately 160 m towards the indicated ESA region. Appendix A and A-2 indicate that the 20 ha site does not encroach on the ESA as much but possibly brushes the outskirts of the ESA. In addition, page three of this letter indicates the actual biodiversity specialist GPS tracking of the 2017

148. gye  
12/9/2017

assessment, as well as the Google Earth plotting of the site boundaries (indicated in white) confirming that the ESA lies primarily outside the proposed development site.

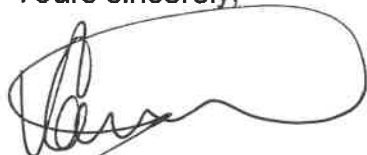
Nonetheless, due to the possible encroachment on the edge of the ESA, Appendix A-2 (Site Layout Plan/Map) further indicates that the actual photovoltaic (PV) solar array will be positioned so that it avoids the ESA. It was also mentioned on page 8 of the current DBAR that "within the 20 ha site, the layout of the PV panels could be moved slightly since this application is for a solar PV farm with a maximum output capacity of 5MW" and "for a 5MW plant, 10 ha will be required". This implies that the final facility layout could accommodate any concern arising from the proximity of the ESA to the proposed site arise.

4. It is noted that the need for adequate drainage and storm water control, as well as minimising vegetation disturbance and actively rehabilitating the site after construction, is required.
5. The comment regarding pre-construction avifaunal monitoring will be taken under advisement in conjunction with BirdLife South Africa's best practice guidelines since this has not yet been considered at this pre-application stage.
6. Appendix A-2 of the pre-application DBAR indicates a detailed layout of the new internal access roads and proposed overhead powerline route to the nearby Eskom sub-station, as well as proposed infrastructure i.e. the operation and maintenance (O&M) building, associated with the proposed development.

Please note that the final external site access will make use of existing roads with a small portion e.g. a maximum of approximately 160 m of 'new' road (approximately 4 m in width but not wider than 8 m) will possibly be developed. The external site access road layout as well as overhead powerline route and placement of the O&M building are still to be confirmed dependant on the Applicant's negotiations with Eskom regarding sub-station tie-in for energy evacuated from the PV facility.

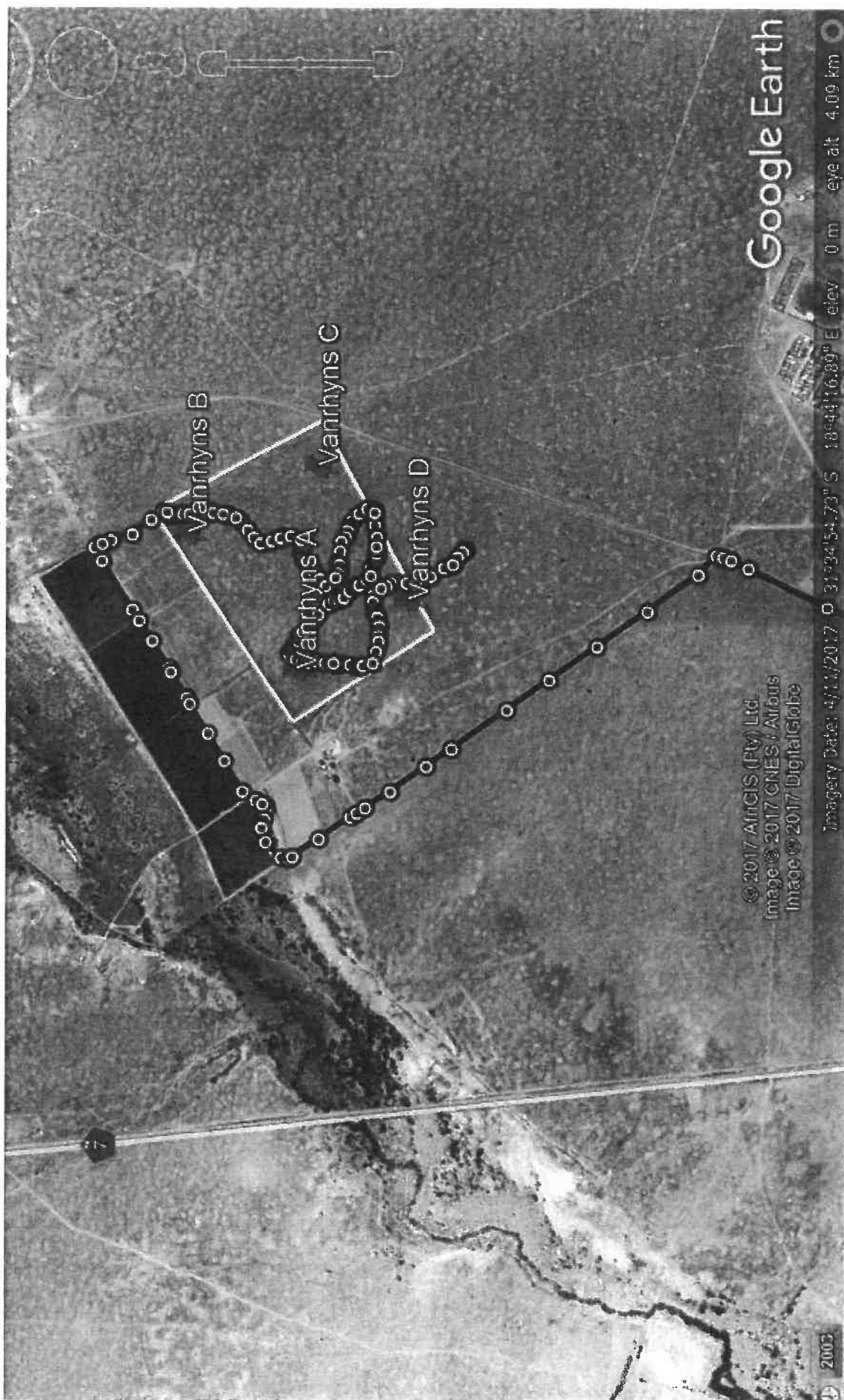
I trust that the above is in order. Should you have any queries, please do not hesitate to contact me.

Yours sincerely,



Vivienne Thomson  
Environmental Consultant  
EnviroAfrica  
Mobile: +2782 464 2874

Vanrhynsdorp Solar PV Biodiversity Specialist Track





**SCIENTIFIC SERVICES**

**postal** Private Bag X5014 Stellenbosch 7599  
**physical** Assegaaibosch Nature Reserve Jonkershoek  
**website** [www.capenature.co.za](http://www.capenature.co.za)  
**enquiries** **Alana Duffell-Canham**  
**telephone** +27 21 866 8000 **fax** +27 21 866 1523  
**email** [aduffell-canham@capenature.co.za](mailto:aduffell-canham@capenature.co.za)  
**reference** **SSD14/2/6/1/8/3/258\_Solar\_DeDuinen**  
**date** **05 September 2017**

Vivienne Thomson  
EnviroAfrica  
PO Box 5367  
Helderberg  
7135

*By email:* [vivienne@enviroafrica.co.za](mailto:vivienne@enviroafrica.co.za)

Dear Ms Thomson

**RE: Proposed Vanrhynsdorp Solar Photovoltaic Facility – Pre-application Draft Basic Assessment Report.**

DEA Ref: TBC

CapeNature would like to thank you for the opportunity to comment on this proposed development and wish to make the following comments:

1. The proposed development site is covered by Vanrhynsdorp Gannabosveld which is not yet considered to be a threatened ecosystem but its remaining extent is steadily declining due to pressure from mining and agriculture.
2. The site as indicated in Appendix A2 is not located in an area determined as Critical Biodiversity Area (CBA). One issue of clarity though it that the site as indicated in this report appears to be more similar location to the alternative site in the original application and not the preferred site that was indicated in the original application. Is this the case and if so, why?
3. The current site is located in an area determined as Ecological Support Area (ESA). ESAs are important for buffering and linking CBAs and some land use change can be considered acceptable providing that some ecological functioning is maintained. The north-western part of the site has been determined as an aquatic ESA. Multi-seasonal imagery was one of the key informants used in compiling the 2017 Western Cape Biodiversity Spatial Plan (WCBSP) and determining Critical Biodiversity Areas (CBAs) and Ecological Support Areas (ESAs). GeoTerraImage (GTI) was also used to assist in identifying watercourses<sup>1</sup> based on digital elevation models in combination with flood/water accumulation models and this area was identified through this process as an aquatic ESA. The intended use of this information is for medium scale interpretation and planning. Therefore, development planners should take a risk averse approach

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<sup>1</sup> Note that although a natural drainage channel does not appear to be on site, parts of the site can be considered as a watercourse (using the definition of "a channel or depression in which water flows regularly or intermittently"). The Western Cape Nature Conservation Board trading as **CapeNature**

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within the landscape and avoid areas where water may accumulate. These areas may not appear as aquatic features on the ground but they are ecological infrastructure (and potential risk areas) that should be taken cognisance of.

4. As indicated in our letter submitted in 2012 on the original application, the area is known to be prone to erosion and adequate drainage and stormwater control measures must be put in place. Disturbance of vegetation must be kept to an absolute minimum during construction and the site should also be actively rehabilitated after construction.
5. BirdLife South Africa have developed best practice guidelines assessing and monitoring the impact of solar power generating facilities on birds in southern Africa. Have these been taken into consideration and has an avifaunal expert opinion been obtained regarding whether pre-construction avifaunal monitoring may be necessary?
6. Please provide a detailed layout that also shows the located of any new access roads, power lines, cables and other infrastructure linked to the development.

CapeNature reserves the right to revise initial comments and request further information based on any additional information that may be received.

Yours sincerely



Alana Duffell-Canham  
For: Manager (Scientific Services)

## Vivienne Thomson

---

**From:** EnviroAfrica :Admin <admin@enviroafrica.co.za>  
**Sent:** Wednesday, 23 August 2017 12:47 PM  
**To:** 'Vivienne Thomson'  
**Subject:** FW: Pre-application BAR for Vanrhynsdorp solar facility

Belinda Waters



**EnviroAfrica**

*Office Manager*

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**From:** Alana Duffell-Canham [mailto:[aduffell-canham@capenature.co.za](mailto:aduffell-canham@capenature.co.za)]

**Sent:** 23 August 2017 12:42 PM

**To:** [admin@enviroafrica.co.za](mailto:admin@enviroafrica.co.za)

**Subject:** Pre-application BAR for Vanrhynsdorp solar facility

Dear Vivienne

Please send CapeNature a copy of the report as per our usual requirements. You may send the report on a cd/dvd with printed cover letter and maps.

Kind regards,  
Alana

**Alana Duffell-Canham**

**Scientist: Land-use & Conservation Planning**



**CapeNature**

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## Vivienne Thomson

---

**From:** EnviroAfrica :Admin <admin@enviroafrica.co.za>  
**Sent:** Monday, 20 November 2017 12:38 PM  
**To:** 'Vivienne Thomson'  
**Subject:** FW: Proposed Vanrhynsdorp Solar Photovoltaic Facility - Draft Basic Assessment Report.  
**Attachments:** 258\_Solar\_DeDuinen\_20171120.pdf

Belinda Waters



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**From:** Alana Duffell-Canham [mailto:[aduffell-canham@capenature.co.za](mailto:aduffell-canham@capenature.co.za)]  
**Sent:** 20 November 2017 12:23 PM  
**To:** [admin@enviroafrica.co.za](mailto:admin@enviroafrica.co.za)  
**Subject:** RE: Proposed Vanrhynsdorp Solar Photovoltaic Facility - Draft Basic Assessment Report.

Dear Vivienne

Please find comment from CapeNature attached.

Kind regards,  
Alana

**Alana Duffell-Canham**

Scientist: Land-use & Conservation Planning



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## SCIENTIFIC SERVICES

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**reference** **SSD14/2/6/1/8/3/258\_Solar\_DeDuinen**  
**date** **20 November 2017**

Vivienne Thomson  
EnviroAfrica  
PO Box 5367  
Helderberg  
7135

*By email:* [vivienne@enviroafrica.co.za](mailto:vivienne@enviroafrica.co.za)

Dear Ms Thomson

**RE: Proposed Vanrhynsdorp Solar Photovoltaic Facility – Draft Basic Assessment Report.**

DEA Ref: 12/12/20/2677

CapeNature would like to thank you for the opportunity to comment on the post-application Basic Assessment Report. Our previous comments dated 05 September 2017 have reference and should be read in conjunction with this letter.

We request that in future you do not paraphrase our comments in the comments and response table but rather copy them in verbatim. Please also number your responses to match the query/comment and indicate where in the report the requested information can be found.

1. As stated previously the current site is located in an area determined as Ecological Support Area (ESA). ESAs are important for buffering and linking CBAs and some land use change can be considered acceptable providing that some ecological functioning is maintained. Although the site is now within the eastern portion of the previously indicated area and is now outside of the Aquatic ESA, it is still within a terrestrial ESA. This needs to be reflected in the first table under section 9 of the DBAR.
2. However, despite the development being located within a terrestrial ESA, we do not believe that the development will significantly compromise the conservation objectives of the ESA and that ecological process will be able to continue on and around the site provided that adequate rehabilitation occurs after construction and stormwater management and erosion control is implemented.
3. Our concerns regarding impacts on avifauna and use of BirdLife's Best Practice Guidelines have not been adequately addressed. The comments and response table states that the guidelines will be "taken under advisement" but there is no mention of

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impacts on birds or the applicability of the guidelines in the DBAR or biodiversity specialist report (which has not been updated since our previous comments) and no comment has been obtained from an avifaunal specialist. The powerline may also pose a risk to avifauna and should also be assessed accordingly.

CapeNature reserves the right to revise initial comments and request further information based on any additional information that may be received.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Alana Duffell-Canham', with a long, sweeping horizontal stroke extending to the right.

Alana Duffell-Canham  
For: Manager (Scientific Services)

4 December 2017

Ms Vivienne Thomson  
EnviroAfrica  
P.O. Box 5367  
Helderberg  
7135

Dear Ms Thomson

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**VANRHYNSDORP SOLAR PROJECT: BIODIVERSITY ASSESSMENT & BOTANICAL SCAN**

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With regards to the potential impact on bird species, I would like to add the following. Although I am not an avi-faunal specialist, I do have a keen interest in bird species in general. In my original assessment (Dated 13 April 2012) as well as the more recent addendum (Dated 20 June 2017), I only touched very briefly on the potential impact on bird species as I thought it highly unlikely that the proposed solar panels will impact significantly on any bird species. The main reason being that the solar facility will have a relatively small footprint of which the main aspect will be the construction of approximately 10 ha of solar panels (at ground level).

The only other aspect of the proposed solar project that may potentially impact on bird species will be the addition of new (11KV) overhead power line. However, since the power lines will follow existing overhead cable lines for the most part the potential additional impact was considered very low. This coupled with the fact that during four site visits (over various seasons), the author did not observe any significant larger bird species on or in the vicinity of the proposed site especially collision prone larger birds (apart from one Korhaan to the east of the property). The site itself is located near to existing agricultural land (and its associated activities), and for the most part further than 500 m away from the nearest watercourse, which is the seasonal Droë River (a tributary to the Troe-Troe River). The vineyards may attract a number of smaller bird species during the harvesting season, which in turn might attract some larger birds of prey (e.g. hawks & falcons).

Collision prone birds are generally associated with larger terrestrial bird species with a high ratio of body weight to wing surface (birds with low manoeuvrability) or species that fly at high speed when foraging or commuting through the area.

With regards to the potential impact on bird species:

- The proposed site is not expected to have any significant impact on bird habitat, as no natural roosting or breeding areas were observed (larger birds of prey in this area tend to keep closer to the Maskam and Bokkeveld Mountains – personal observance).



- The proposed site is also located well away from any mountains or ridges that might facilitate natural updrafts, meaning that it is highly unlikely to have any impact on soaring birds (e.g. storks or cranes and most raptors).
- The Droë River is a seasonal stream, which seemingly does not support any significant larger bird life (although this might alter somewhat when the stream is in flow).
- Most importantly, however, is the fact that the proposed development will only add a very small potential additional impact zone as the site and its immediate surroundings are **already criss-crossed by existing overhead cables** (both electrical infrastructure and telephone lines) (Figure 1).
- As precautionary measure bird flappers could be installed on the section of the new line that does not run parallel with existing infrastructure.

Figure 1: Google image showing the existing nearby Eskom lines (red) & telephone lines (blue) and the proposed new power line (green) in approximate relation to each other.

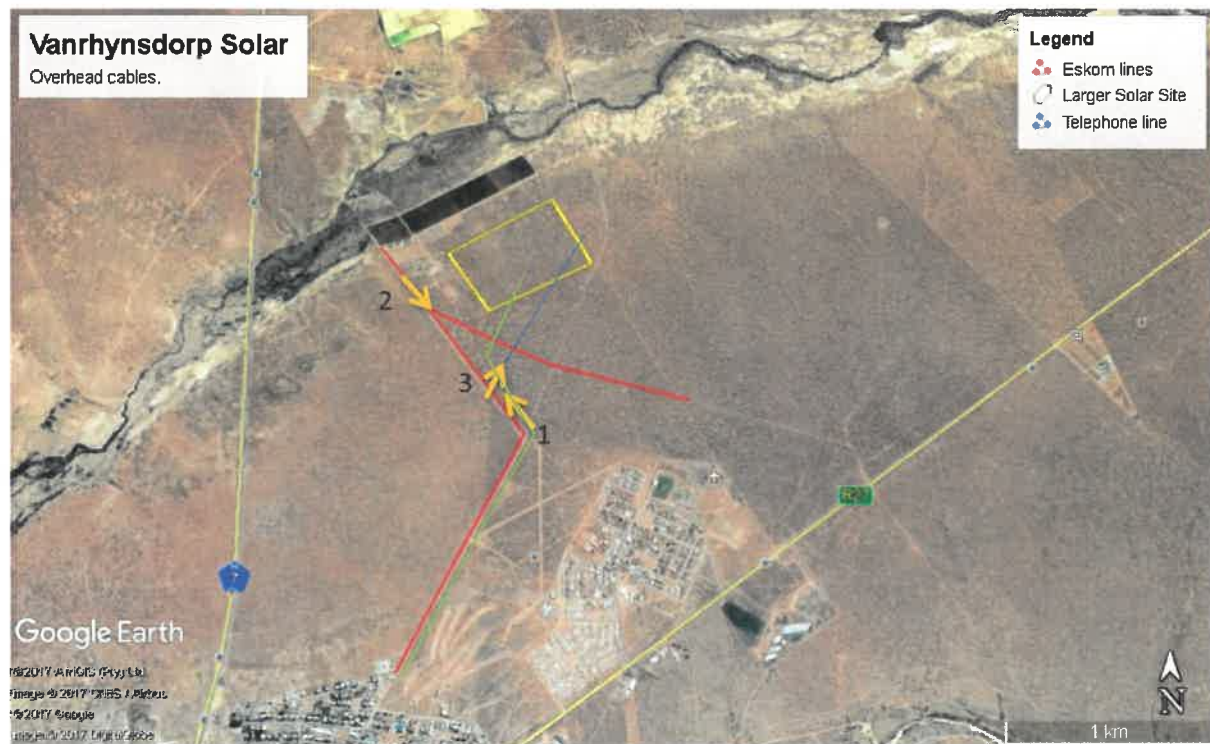


Photo 1: Photo indicating the overhead power and the telephone lines (Taken from position 1 in Figure 1)



Photo 2: Photo indicating the power lines looking from west to east near the location (Taken from Position 2 in Fig. 1)



Photo 3: Photo showing the telephone lines running next to the site (Photo taken from Position 3 in Figure 1)



As a result of the existing overhead infrastructure and the low bird activity that was observed in the open plains near the proposed site, the potential impact of the additional power lines was not considered to have any significant additional environmental impact.

However, as a pre-cautionary measure the power lines can be made more visible by adding (for instance) bird flappers to the line.

Kindest regards

Peet Botes