



## 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: 14/12/16/3/3/2/1107

Enquiries: Azrah Essop

Tel: 012 399 8529 E-mail: AEssop@environment.gov.za

Karen Jodas  
Savannah Environmental (Pty) Ltd  
P O Box 148  
**SUNNINGHILL**  
2157

Tel: 011 656 3237  
Email: karen@savannahsa.com

### PER EMAIL / MAIL

Dear Sir/Madam

### **ACKNOWLEDGEMENT OF RECEIPT OF THE NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (ENVIRONMENTAL IMPACT ASSESSMENT PROCESS) AND SCOPING REPORT FOR THE PROPOSED ALLEPAD PV THREE, 100MW PHOTOVOLTAIC SOLAR ENERGY GENERATION FACILITY AND ASSOCIATED INFRASTRUCTURE NEAR UPINGTON, NORTHERN CAPE PROVINCE**

The Department confirms having received the Application and draft Scoping Report for Environmental Authorisation for the abovementioned project on 12 October 2018. We further confirm that you have submitted these documents to comply with the National Environmental Management Act, 1998 (Act No. 107 of 1998) Environmental Impact Assessment Regulations, 2014 published under Government Notice R982 in Government Gazette No. 38282 dated 04 December 2014, as amended ('the EIA Regulations, 2014').


Please take note of Regulation 40(3) of the EIA Regulations, 2014 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, 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 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.**

All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Office Hours which is visible on the Departmental gate. EIA related documents (includes application forms, reports or any EIA related submissions) that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted.

You are hereby reminded of Section 24F of the National Environmental Management Act, 1998 (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 Azrah Essop**  
**Designation: Environmental Officer: EIA Coordination, Strategic Planning and Support**  
**Date: 16 October 2018**

CC:	Louis van Heerden	ILEnergy Development (Pty) Ltd	Email: <a href="mailto:louis@ilenergysa.com">louis@ilenergysa.com</a>
	Bryan Fisher	Northern Cape Department of Environment and Nature Conservation	Email: <a href="mailto:BFisher@ncpg.gov.za">BFisher@ncpg.gov.za</a>
	Elias Ntoba	Dawid Kruiper Local Municipality	Email: <a href="mailto:manager@kharahais.gov.za">manager@kharahais.gov.za</a>



## **environmental affairs**

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**DEA Reference:** 14/12/16/3/3/2/1107

**Enquiries:** Mr Thando Booï

**Telephone:** (012) 399 9387 **E-mail:** TBooi@environment.gov.za

Karen Jodas  
Savannah Environmental (Pty) Ltd  
P.O. Box 148  
Sunninghill  
2157

Telephone Number: (011) 656 3237  
Email Address: karen@savannahsa.com

### **PER E-MAIL / MAIL**

Dear Ms Jodas

### **COMMENTS ON THE DRAFT SCOPING REPORT FOR PROPOSED ALLEPAD PV THREE, 100 MW PHOTOVOLTAIC SOLAR ENERGY GENERATION FACILITY AND ASSOCIATED INFRASTRUCTURE NEAR UPINGTON, NORTHERN CAPE PROVINCE**

The application form and draft Scoping Report (SR) dated October 2018 as received by this Department on 12 October 2018 refers.

This Department has the following comments on the abovementioned application:

#### **Alternatives**

It has been noted that the location, design and layout as well as no-go alternatives have been included in the draft report, taking into consideration the advantages and disadvantages as why the site is believed to be the preferred. Therefore, should there be any other alternatives considered, you are required to include the information in the final SR.

#### **Impacts Assessment**

This Department requests the EAP to familiarise themselves with the requirements of Appendix 2 of GNR 982 of the EIA Regulations, 2014 (as amended) and ensure that the final SR submitted to this Department for consideration meets the requirements in terms of identifying, assessing and providing mitigation measures of the impacts on the alternatives and preferred site.

#### **Maps**

Please provide the following maps depicting the footprint of each project specific site, instead of maps that are illustrating the whole site for all four proposed projects. Note that this request applies for the four applications, i.e.1105; 1106; 1107 and 1108 respectively.

- **Locality Map**

An A3 locality map. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map).

The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any; indication of all the alternatives identified; closest town(s)
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow; a legend and locality: GPS co-ordinates must indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates must be provided in degrees, minutes and seconds. The projection that must be used in all cases is the Hartebeesthoek94 WGS84 co-ordinate system, in line with Regulation 5(6) of the EIA Regulations, 2014 as amended.

- **A3 Layout map**

A copy of the final site layout map. All available biodiversity information must be used in the finalisation of the layout map. Existing infrastructure must be used as far as possible e.g. roads. The layout map must indicate the following:

- Photovoltaic facility footprint and its associated infrastructure;
- Temporary construction camp;
- Permanent laydown area footprint;
- Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible);
- Wetlands, drainage lines, rivers, stream and water crossing of roads and cables indicating the type of bridging structures that will be used;
- The location of sensitive environmental features on site e.g. CBAs, heritage sites, wetlands, drainage lines etc. that will be affected by the facility and its associated infrastructure;
- Substation(s) and/or transformer(s) sites including their entire footprint;
- Connection routes (including pylon positions) to the distribution/transmission network;
- All existing infrastructure on the site, especially roads;
- Buffer areas;
- Buildings, including accommodation; and
- All "no-go" areas.

- **A3 Sensitivity Map**

The layout plan as indicated above must be overlain with a sensitivity map that indicates all the sensitive areas associated with the site, including, but not limited to:

- Watercourses, drainage lines
- the 1:100 year flood line (where available or where it is required by DWS);
- ridges;
- cultural and historical features;
- areas with indigenous vegetation (even if it is degraded or infested with alien species);
- critical biodiversity areas
- Buffer areas; and
- No-go areas.

### **Public Participation Process**

- Please ensure that all issues raised and comments received during the circulation of the SR from the registered I&APs and organs of state which have jurisdiction (including this Department's Biodiversity Section) in respect of the proposed activity are adequately addressed in the final SR.

- Proof of correspondence with the various stakeholders must be included in the final SR, should you be unable to obtain comments, proof of the attempts that were made to obtain comments must be submitted to the Department.
- The Public Participation Process must be conducted in terms of Regulations 39, 40, 41, 42, 43 & 44 of the EIA Regulations 2014, as amended.

**General Comments**

You are further reminded that the final SR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of Scoping Reports in accordance with Appendix 2 and Regulation 21(1) of the amended EIA Regulations, 2014.

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

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

Yours faithfully



Mr Sabelo Malaza

**Chief Director: Integrated Environmental Authorisations**

**Department of Environmental Affairs**

**Signed by: Ms Olivia Letlalo**

**Designation: Control Environmental Officer: Strategic Infrastructure Developments**

**Date: 02/11/2018**

cc:	Louise van Heerden	ILEnergy Developments (Pty) Ltd	Tel: (072) 793 9133	Email: louis@lenergysa.com
	Bryan Fischer	Northern Cape: DENC	Tel: (054) 307 7431	Email: BFisher@ncpg.gov.za
	Elias Ntoba	Dawid Kruiper Local Municipality	Tel: (054) 338 7001	Email:manager@kharais.gov.za



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DEA Reference: 14/12/16/3/3/2/1107

Enquiries: Ms Salome Mambane

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

Sarah Watson  
Savannah Environmental (Pty) Ltd  
P.O Box 148  
**SUNINGHILL**  
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Tel: 011 656 3237

Email: [info@savannahsa.com](mailto:info@savannahsa.com) / [karen@savannahsa.com](mailto:karen@savannahsa.com)

**PER EMAIL / MAIL**

Dear Sir/Madam

### **ACKNOWLEDGEMENT OF RECEIPT OF THE SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF ALLEPAD PV THREE, A PV FACILITY AND ASSOCIATED INFRASTRUCTURE, ON A SITE NEAR UPINGTON, NORTHERN CAPE PROVINCE**

The Department confirms having received the final Scoping Report (SR) for the abovementioned project on 19 November 2018. We further confirm that you have submitted these documents to comply with the Environmental Impact Assessment (EIA) Regulations, 2014, as amended.

All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Office Hours which is visible on the Departmental gate. EIA related documents (includes application forms, reports or any EIA related submissions) that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted.

You are hereby reminded of Section 24F of the National Environmental Management Act (NEMA), (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 Azrah Essop**

**Designation: Environmental Officer Specialized Production: EIA Coordination, Strategic Planning and Support**

**Date:** 22 November 2018



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Environmental Affairs  
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DEA Reference: 14/12/16/3/3/2/1107

Enquiries: Mr Thando Booï

Telephone: (012)399 9387 E-mail: TBooi@environment.gov.za

Karen Jodas  
Savannah Environmental (Pty) Ltd  
P.O. Box 148  
**SUNNINGHILL**  
2157

Telephone Number: (011) 656 3237  
Email Address: karen@savannahsa.com

### PER EMAIL / MAIL

Dear Ms Jodas

### **ACCEPTANCE OF THE SCOPING REPORT FOR PROPOSED ALLEPAD PV THREE, 100MW PHOTOVOLTAIC (PV) SOLAR ENERGY GENERATION FACILITY AND ASSOCIATED INFRASTRUCTURE NEAR UPINGTON, NORTHERN CAPE PROVINCE**

The Scoping Report (SR) and Plan of Study for Environmental Impact Assessment (PoSEIA) dated November 2018 and received by this Department on 19 November 2018 refer.

This Department has evaluated the submitted final SR and the PoSEIA dated November 2018 and is satisfied that the documents comply with the minimum requirements of the Environmental Impact Assessment (EIA) Regulations 2014, as amended. The final SR is hereby accepted by the Department in terms of Regulation 22(a) of the EIA Regulations 2014, as amended.

You may proceed with the EIA process in accordance with the tasks contemplated in the PoSEIA and the requirements of the EIA Regulations 2014, as amended. However, you must take note of the following comments from the Department:

#### Technical Details of the proposed facility and design alternative

- The EIAR must provide the technical details for the proposed facility in a table format as well as their description and/or dimensions. A sample for the minimum information required is listed under point 2 of the EIA information required for PV facilities below.
- Further, the EIAR must include the design alternative for the proposed 100MW PV facility.

#### Application for re-zoning

The EIAR must include proof indicating that an application for the re-zoning has been lodged with the relevant authority as the proposed development will take place in an area zoned for agricultural uses.

#### The EIAR must also provide the following:

- Provide a clear indication of the proposed development footprint of the PV solar facility as well as the all associated infrastructure; i.e. placement of photovoltaic (PV) panels.
- Clear description of all associated infrastructure. This description must include, but not limited to the following:

- Power lines;
- Internal roads infrastructure; and;
- All supporting onsite infrastructure such as laydown area, guard house and control room etc.
- All necessary details regarding all possible locations and sizes of the proposed satellite substation and the main substation.
- Information on services required on the site, e.g. sewage, refuse removal, water and electricity, agreements with suppliers and confirmation of capacity been obtained must be provided.

#### Need and Desirability of the proposed development

The Department has noted that there are other projects of similar nature in the area, therefore; your EIA must provide detailed description of the need and desirability taking into account cumulative impacts of the proposed development in the area.

#### A copy of the final site layout map and alternatives.

All available biodiversity information must be used in the finalisation of the layout map.

- The **layout map must indicate the following:**
  - PV positions and its associated infrastructure;
  - Permanent laydown area footprint;
  - Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible);
  - Wetlands, drainage lines, rivers, stream and water crossing of roads and cables indicating the type of bridging structures that will be used;
  - The location of sensitive environmental features on site e.g. CBAs, heritage sites, wetlands, drainage lines etc. that will be affected by the facility and its associated infrastructure;
  - Substation(s) and/or transformer(s) sites including their entire footprint;
  - Connection routes (including pylon positions) to the distribution/transmission network;
  - All existing infrastructure on the site, especially roads;
  - Buffer areas;
  - Buildings, including accommodation; and
  - All "no-go" areas.

#### Topographical and sensitive Maps

- An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process must be on an A3 page and must have a clear legend.
- A topographical map combining the final layout map superimposed (overlain) on the environmental sensitivity map must be submitted with the final EIA.

#### Shapefile of the preferred Development layout

- A shapefile of the preferred development layout/footprint must be submitted to this Department.
- The shapefile must be created using the Hartebeesthoek 94 Datum and the data should be in Decimal Degree Format using the WGS 84 Spheroid.
- The shapefile must include at a minimum the following extensions i.e. .shp; .shx; .dbf; .prj; and, .xml (Metadata file). If specific symbology was assigned to the file, then the .avl and/or the .lyr file must also be included.
- Data must be mapped at a scale of 1:10 000 (please specify if an alternative scale was used). The metadata must include a description of the base data used for digitizing.
- The shapefile must be submitted in a zip file using the EIA application reference number as the title.



The shape file must be submitted to:

**Postal Address:** Department of Environmental Affairs  
Private Bag X447  
Pretoria  
0001

**Physical address:** Environment House  
473 Steve Biko Road  
Pretoria

**For Attention:** Muhammad Essop  
Integrated Environmental Authorisations  
Strategic Infrastructure Developments

**Telephone Number:** (012) 399 9406

**Email Address:** [MEssop@environment.gov.za](mailto:MEssop@environment.gov.za)

#### The Environmental Management Programme (EMPr)

The EMPr to be submitted as part of the EIAr must include the following:

- i. All recommendations and mitigation measures recorded in the EIAr and the specialist studies conducted.
- ii. A good quality final site layout map with clear legend.
- iii. Measures as dictated by the final site layout map and micro-siting.
- iv. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- v. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- vi. An alien invasive management plan to be implemented during construction and operation of the facility. The plan must include mitigation measures to reduce the invasion of alien species and ensure that the continuous monitoring and removal of alien species is undertaken.
- vii. A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site and be implemented prior to commencement of the construction phase.
- viii. A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility. Restoration must be undertaken as soon as possible after completion of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats.
- ix. A traffic management plan for the site access roads to ensure that no hazards would result from the increased truck traffic and that traffic flow would not be adversely impacted. This plan must include measures to minimize impacts on local commuters e.g. limiting construction vehicles travelling on public roadways during the morning and late afternoon commute time and avoid using roads through densely populated built-up areas so as not to disturb existing retail and commercial operations.
- x. A storm water management plan to be implemented during the construction and operation of the facility. The plan must ensure compliance with applicable regulations and prevent off-site migration of contaminated storm water or increased soil erosion. The plan must include the construction of appropriate design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.
- xi. A fire management plan to be implemented during the construction and operation of the facility.
- xii. Measures to protect archaeological sites, artefacts, paleontological fossils or graves from construction and operational impacts.

The EAP must provide detailed motivation if any of the above requirements is not required by the proposed development and not included in the EMPr.

You are hereby reminded that should the EIA fail to comply with the requirements of this acceptance letter, the proposed Allepad PV Three 100MW photovoltaic (PV) solar energy generation facility and associated infrastructure near Upington project will be refused in terms of the EIA Regulations 2014, as amended.

### Public Participation

Ensure that all relevant stakeholders' comments are submitted to the Department with the final EIA. This includes but is not limited to the Department of Environmental Affairs: Biodiversity and Conservation Directorate, the Department of Agriculture, Forestry and Fisheries (DAFF), Department of Environment and Nature Conservation, the South African Civil Aviation Authority (SACAA), the Department of Transport, The Dawid Kruiper Local Municipality, Department of Water and Sanitation (DWS), the South African National Roads Agency Limited (SANRAL), the South African Heritage Resources Agency (SAHRA), the Endangered Wildlife Trust (EWT), Department of Mineral Resources, National Energy Regulator of South Africa (NERSA), National Department of Energy, Eskom, Cape Nature and Birdlife South Africa.

Proof of all correspondence must be included in the EIA. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.

The applicant is hereby reminded to comply with the requirements of Regulation 45 with regard to the time period allowed for complying with the requirements of the Regulations, and Regulations 43 and 44 with regard to the allowance of a comment period for interested and affected parties on all reports submitted to the competent authority for decision-making. The reports referred to are listed in Regulation 43(1).

Furthermore, it must be reiterated that, should an application for Environmental Authorisation be subject to the provisions of Chapter II, Section 38 of the National Heritage Resources Act, Act 25 of 1999, then this Department will not be able to make nor issue a decision in terms of your application for Environmental Authorisation pending a letter from the pertinent heritage authority categorically stating that the application fulfils the requirements of the relevant heritage resources authority as described in Chapter II, Section 38(8) of the National Heritage Resources Act, Act 25 of 1999. Comments from SAHRA and/or the provincial department of heritage must be provided in the EIA.

You are requested to submit two (2) electronic copies (CD/DVD) and one (1) hard copies of the EIA to the Department as per Regulation 23(1) of the EIA Regulations, 2014 as amended.

Please also find below attached information that must be used in the preparation of the EIA. This will enable the Department to speedily review the EIA and make a decision on the application.

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

Yours faithfully



**Mr Sabelo Malaza**

**Chief Director: Integrated Environmental Authorisations**

**Department of Environmental Affairs**

**Letter Signed by: Ms Olivia Letlalo**

**Designation: Control Environmental Officer: Strategic Infrastructure Developments**

**Date: 05/12/2018**

cc:	Mr L van Heerden	IL Energy (Pty) Ltd	Tel: (072) 448 6798	Email: louis@ilenergysa.com
	Mr B Fisher	(DENC)	Tel: (053) 807 7431	Email: BFisher@ncpg.gov.za
	Mr E Ntoba	David Kruiper Local Municipality	Tel: (054) 338 7001	Email: manager@kharahais.gov.za

## Annexure 1

Format for Comments and Response Trail Report:

<b>Date of comment, format of comment name of organisation/I&amp;AP,</b>	<b>Comment</b>	<b>Response from EAP/Applicant/Specialist</b>
27/01/2016 Email Department of Environmental Affairs: Strategic Infrastructure Development (John Soap)	Please record C&R trail report in this format  Please update the contact details of the provincial environmental authority	EAP: (Noted)The C&R trail report has been updated into the desired format, see Appendix K  EAP: Details of provincial authority have been updated, see page 16 of the Application form

### A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES

#### 1. General site information

The following general site information is required:

- Descriptions of all affected farm portions
- 21 digit Surveyor General codes of all affected farm portions
- Copies of deeds of all affected farm portions
- Photos of areas that give a visual perspective of all parts of the site
- Photographs from sensitive visual receptors (tourism routes, tourism facilities, etc.)
- Solar plant design specifications including:
  - Type of technology
  - Structure height
  - Surface area to be covered (including associated infrastructure such as roads)
  - Structure orientation
  - Laydown area dimensions (construction period and thereafter)
  - Generation capacity
- Generation capacity of the facility as a whole at delivery points

This information must be indicated on the first page of the EIAr. It is also advised that it be double checked as there are too many mistakes in the applications that have been received that take too much time from authorities to correct.

#### 2. Sample of technical details for the proposed facility

<b>Component</b>	<b>Description / dimensions</b>
Height of PV panels	
Area of PV Array	
Number of inverters required	
Area occupied by inverter / transformer stations / substations	
Capacity of on-site substation	
Area occupied by both permanent and construction laydown areas	
Area occupied by buildings	

Length of internal roads	
Width of internal roads	
Proximity to grid connection	
Height of fencing	
Type of fencing	

### 3. Site maps and GIS information

Site maps and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- All affected farm portions must be indicated
- The exact site of the application must be indicated (the areas that will be occupied by the application)
- A status quo map/layer must be provided that includes the following:
  - Current use of land on the site including:
    - Buildings and other structures
    - Agricultural fields
    - Grazing areas
    - Natural vegetation areas (natural veld not cultivated for the preceding 10 years) with an indication of the vegetation quality as well as fine scale mapping in respect of Critical Biodiversity Areas and Ecological Support Areas
    - Critically endangered and endangered vegetation areas that occur on the site
    - Bare areas which may be susceptible to soil erosion
    - Cultural historical sites and elements
  - Rivers, streams and water courses
  - Ridgelines and 20m continuous contours with height references in the GIS database
  - Fountains, boreholes, dams (in-stream as well as off-stream) and reservoirs
  - High potential agricultural areas as defined by the Department of Agriculture, Forestry and Fisheries
  - Buffer zones (also where it is dictated by elements outside the site):
    - 500m from any irrigated agricultural land
    - 1km from residential areas
  - Indicate isolated residential, tourism facilities on or within 1km of the site
- A slope analysis map/layer that include the following slope ranges:
  - Less than 8% slope (preferred areas for PV and infrastructure)
  - between 8% and 12% slope (potentially sensitive to PV and infrastructure)
  - between 12% and 14% slope (highly sensitive to PV and infrastructure)
  - steeper than 18 % slope (unsuitable for PV and infrastructure)
- A site development proposal map(s)/layer(s) that indicate:
  - Foundation footprint
  - Permanent laydown area footprint
  - Construction period laydown footprint
  - Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible)
  - River, stream and water crossing of roads and cables indicating the type of bridging structures that will be used
  - Substation(s) and/or transformer(s) sites including their entire footprint.
  - Cable routes and trench dimensions (where they are not along internal roads)
  - Connection routes to the distribution/transmission network (the connection must form part of the EIA even if the construction and maintenance thereof will be done by another entity such as ESKOM)

- Cut and fill areas at PV sites along roads and at substation/transformer sites indicating the expected volume of each cut and fill
- Borrow pits
- Spoil heaps (temporary for topsoil and subsoil and permanently for excess material)
- Buildings including accommodation

With the above information authorities will be able to assess the strategic and site impacts of the application.

#### 4. Regional map and GIS information

The regional map and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- The map/layer must cover an area of 20km around the site
- Indicate the following:
  - roads including their types (tared or gravel) and category (national, provincial, local or private)
  - Railway lines and stations
  - Industrial areas
  - Harbours and airports
  - Electricity transmission and distribution lines and substations
  - Pipelines
  - Waters sources to be utilised during the construction and operational phases
  - A visibility assessment of the areas from where the facility will be visible
  - Critical Biodiversity Areas and Ecological Support Areas
  - Critically Endangered and Endangered vegetation areas
  - Agricultural fields
  - Irrigated areas
  - An indication of new road or changes and upgrades that must be done to existing roads in order to get equipment onto the site including cut and fill areas and crossings of rivers and streams

#### 5. Important stakeholders

Amongst other important stakeholders, comments from the National Department of Agriculture, Forestry and Fisheries must be obtained and submitted to the Department. Any application, documentation, notification etc. should be forwarded to the following officials:

Ms Mashudu Marubini  
 Delegate of the Minister (Act 70 of 1970)  
 E-mail: MashuduMa@daff.gov.za  
 Tel: (012) 319 7619

Ms Thoko Buthelezi  
 AgriLand Liaison office  
 E-mail: ThokoB@daff.gov.za  
 Tel: (012) 319 7634

All hardcopy applications / documentation should be forwarded to the following address:

Physical address:  
 Delpen Building  
 Cnr Annie Botha and Union Street  
 Office 270

Attention: Delegate of the Minister Act 70 of 1970

Postal Address:

Department of Agriculture, Forestry and Fisheries  
Private Bag X120

**PRETORIA**

0001

Attention: Delegate of the Minister Act 70 of 1970

In addition, comments must be requested from Eskom regarding grid connectivity and capacity. Request for comment must be submitted to:

Mr John Geeringh  
Eskom Transmission  
Megawatt Park D1Y38  
PO Box 1091  
**JOHANNESBURG**  
2000

Tel: (011) 516 7233

Fax: (086) 661 4064

John.geeringh@eskom.co.za

## **B. AGRICULTURE STUDY REQUIREMENTS**

- Detailed soil assessment of the site in question, incorporating a radius of 50 m surrounding the site, on a scale of 1:10 000 or finer. The soil assessment should include the following:
  - Identification of the soil forms present on site
  - The size of the area where a particular soil form is found
  - GPS readings of soil survey points
  - The depth of the soil at each survey point
  - Soil colour
  - Limiting factors
  - Clay content
  - Slope of the site
  - A detailed map indicating the locality of the soil forms within the specified area,
  - Size of the site
- Exact locality of the site
- Current activities on the site, developments, buildings
- Surrounding developments / land uses and activities in a radius of 500 m of the site
- Access routes and the condition thereof
- Current status of the land (including erosion, vegetation and a degradation assessment)
- Possible land use options for the site
- Water availability, source and quality (if available)
- Detailed descriptions of why agriculture should or should not be the land use of choice
- Impact of the change of land use on the surrounding area
- A shape file containing the soil forms and relevant attribute data as depicted on the map.