Wolmaransstad 75mw Solar Energy Facility, North West Province

DEA REF: 14/12/16/3/3/2/576

External Environmental Compliance Audit Report of the Environmental Management Programme (EMPr), in accordance with Regulation 54(A) of the EIA Regulations (2017)

December 2019



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REPORT DETAILS

DEA Reference No.	:	14/12/16/3/3/2/576
Environmental Assessment Practitioner (EAP)		Karen Jodas (Savannah Environmental)
Title	:	External Environmental Compliance Report for the Wolmaransstad 75MW Solar Energy Facility (SEF), North West Province
Author	:	Savannah Environmental (Pty) Ltd Kritanya Naidoo
Internal Review		Jo-Anne Thomas
Client	:	Bluewave Capital SA (Pty) Ltd
Report Revision	:	Final
Date	:	December 2019

When used as a reference this report should be cited as: Savannah Environmental (2019) External Environmental Compliance Report for Wolmaransstad 75MW Solar Energy Facility, North West Province.

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DECLARATION OF INTEREST

I, <u>Kritanya Naidoo</u>, declare that:

- » I act as the independent environmental auditor for the environmental compliance audit (November 2019).
- » I have performed the work relating to the audit in an objective manner, even if this results in views and findings that are not favourable to the applicant.
- » I declare that there are no circumstances that may compromise my objectivity in performing such work.
- » I have expertise in conducting independent environmental audits, including knowledge of NEMA, the 2014 ElA Regulations (GNR 326) and any guidelines that have relevance to the activity.
- » I have complied with NEMA, the 2014 EIA Regulations (GNR 326) and all other applicable legislation.
- » I have no, and have not engaged in, conflicting interests in the undertaking of the audit.
- » I have undertaken 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 project by the competent authority; and – the objectivity of any report, plan or document prepared by myself for submission to the competent authority.
- » All the particulars furnished by me in this report are true and correct.
- » I realise that a false declaration is an offence in terms of Regulation 48 and is punishable in terms of section 24F of the Act.
- » I do not have and will not have any vested interest (either business, financial, personal or other) in the project other than remuneration for work performed.

Kritanya Naidoo (Auditor)

Signature

December 2019

Date

Jo-Anne Thomas (Internal Reviewer, SACNASP Membership No: 400024/2000)

Signature

December 2019 Date

ACRONYMS AND ABBREVIATIONS

DEA	Department of Environmental Affairs (National)
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- DoE Department of Energy
- EA Environmental Authorisation
- EAP Environmental Assessment Practitioner
- ECO Environmental Control Officer
- EIA Environmental Impact Assessment
- EMPr Environmental Management Programme
- I&AP Interested and Affected Party
- IPP Independent Power Producer
- MW Megawatts

TABLE OF CONTENTS

PAGE

REPORT	DETAILS	i
DECLAR	ATION OF INTEREST	ii
ACRONY	MS AND ABBREVIATIONS	iii
TABLE OI	CONTENTS	iv
1.	INTRODUCTION AND BACKGROUND	1
1.1.	Project Background	1
2.	OBJECTIVE OF THE AUDIT	2
3.	PURPOSE AND SCOPE	2
4.	OVERVIEW OF THE INDEPENDENT ENVIRONMENTAL AUDITORS	4
5.	ASSUMPTIONS AND LIMITATIONS	4
6.	APPROACH TO CONDUCTING THE AUDIT	4
6.1.	Pre-audit planning	4
6.2.	Conducting the Audit	5
6.3.	Post Audit	5
7.	FINDINGS OF THE AUDIT	4
8.	AUDIT RESULTS AND RECOMMENDATIONS	16
8.1.	Overview of Audit Findings and Conclusion	16
9.	EVALUATION OF THE EMPR	16
9.1.	Ongoing impact avoidance, management and mitigation	16
9.2.	Closure impact avoidance, management and mitigation	17
9.3.	Ensuring compliance with provisions of the EMP	17
10.	CONCLUSIONS AND RECOMMENDATIONS	17
11.	STAKEHOLDER CONSULTATION	17
11.1.	Notification of all potential and registered interested and affected parties	17

APPENDICES

- Appendix A: CVs of Independent Auditor/s and Report Reviewer
- Appendix B: Advertisement of submission of the Audit Report
- Appendix C: Notification to registered I&APs of submission of the Audit Report
- Appendix D: Confirmation letter on current status of the project

1. INTRODUCTION AND BACKGROUND

Savannah Environmental (Pty) Ltd has been appointed by Bluewave Capital SA (Pty) Ltd to undertake an external environmental compliance audit and prepare an external environmental compliance audit report in accordance with the requirements of Regulation 54(a) of the EIA Regulations, 2014, as amended, for the Wolmaransstad 75MW Solar Energy located north-west of the town of Wolmaransstad, within the North West Province. The external environmental compliance audit was conducted to demonstrate Bluewave Capital SA (Pty) Ltd's compliance with the EMPr applicable to the project.

1.1. Project Background

Bluewave Capital SA (Pty) Ltd is proposing the establishment of a commercial solar electricity generating facility and associated infrastructure on the remainder of Portion 2 of the Farm Wolmaransstad and Townlands 184, situated north-west of the town of Wolmaransstad, within the North West Province. The proposed project is proposed to be developed on the

The proposed Wolmaransstad 75MW SEF will make use of photovoltaic (PV) technology with a generating capacity of up to 75MW and will comprise of the following infrastructure:

- » Photovoltaic (PV) panels of between 4m 6m in height (fixed or tracking technology) with a contracted capacity of up to 75MW
- » Mounting structures to be either rammed steel piles or piles with pre-manufactured concrete footing to support the PV panels
- » Cabling between the project components, to be lain in trenches ~ 1-2m deep
- » Power inverters between the PV arrays (±4.5m²)
- » Overhead power line to evacuate the power into the Eskom grid via the existing Goat DS 132/88kV Substation or the Wolmaransstad Municipality 88/11kV Substation
- » Main and internal access roads (up to 7m wide)
- » Water storage facility/ reservoir
- » Office, workshop area for maintenance and storage
- » Temporary laydown area
- » Perimeter fencing

Construction has not yet commenced for the Wolmaransstad 75MW SEF (refer to **Appendix D** for a letter from the applicant confirming the project status). This external environmental compliance report was completed on the 2nd of December 2019 and focuses on the pre-construction conditions of the project EMPr dated April 2015.

2. OBJECTIVE OF THE AUDIT

The objective of this environmental audit as contained in Appendix 7 of the 2014 Environmental Impact Assessment (EIA) Regulations (GNR 326) and Regulation 54(a) is to:

- » Report on:
 - The level of compliance with the conditions of the EMPr.

- * The extent to which the avoidance, management and mitigation measures provided for in the EMPr, achieve the objectives and outcomes of the EMPr.
- » Identify and assess any new impacts and risks as a result of undertaking the activity.
- » Evaluate the effectiveness of the EMPr.
- » Identify shortcomings in the EMPr.
- » Identify the need for any changes to the avoidance, management and mitigation measures provided for in the EMPr.

This Environmental Audit Report has been prepared in accordance with Appendix 7 of the 2014 EIA Regulations (GNR 326). An overview of the contents of the Environmental Compliance Audit Report, as prescribed by Appendix 7 of the 2014 EIA Regulations (GNR 326), and where the corresponding information can be found within the report is provided in **Table 1**.

Table 1:Summary of where the requirements of Appendix 7 of the 2014 EIA Regulations (GNR 326) are
provided in this Environmental Compliance Audit Report.

Requirement	Location in Report
 (a) Details of the - (i) Independent person who prepared the environmental audit report. (ii) Expertise of the independent person that compiled the environmental audit report. 	Refer to Section 4 Refer to Appendix A
(b) A declaration that the independent auditor is independent in a form as may be specified by the competent authority.	Refer to Declaration of Interest
(c) An indication of the scope of, and the purpose for which, the environmental audit report was prepared.	Refer to Section 3
(d) A description of the methodology adopted in preparing the environmental audit report.	Refer to Section 6
 (e) An indication of the ability of the EMPr, and where applicable, the closure plan to - (i) Sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an on-going basis. (ii) Sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the closure of the facility. (iii) Ensure compliance with the provisions of environmental authorisation, EMPr, and where applicable, the closure plan. 	Refer to Section 10
(f) A description of any assumptions made, and any uncertainties or gaps in knowledge.	Refer to Section 5
(g) A description of any consultation process that was undertaken during the course of carrying out the environmental audit report.	Refer to Section 6
(h) A summary and copies of any comments that were received during any consultation process.	Refer to Section 6
(i) Any other information requested by the competent authority.	N/A

3. PURPOSE AND SCOPE

This Environmental Audit has been conducted to determine Bluewave Capital SA (Pty) Ltd compliance with applicable environmental management requirements, as per the requirements of Section 54(A)(3) of the

EIA Regulations, GNR 326 of 2017. The scope of the Environmental Audit is confined to an assessment of those environmental management requirements contained within the project EMPr.

4. OVERVIEW OF THE INDEPENDENT ENVIRONMENTAL AUDITORS

Wolmaransstad 75MW SEF was initially authorised through Karen Jodas of Savannah Environmental as the Environmental Assessment Practitioner. This independent environmental compliance audit was however undertaken by Kritanya Naidoo (refer to **Table 2**), and reviewed by Jo-Anne Thomas (refer to **Table 3**).

Tuble 2.	Defails of the independ	beidils of the independent environmental Additors for this section 54 dual report.				
Name		Kritanya Naidoo				
Position:		Environmental Consultant				
Company:		Savannah Environmental (Pty) Ltd				
Qualification:		BSS Honours Environmental Management				
Professional Re	egistration:	None				
Experience:		1 year				
Contact:		011 656 3237				
Email:		kritanya@savannahsa.com				

 Table 2:
 Details of the Independent Environmental Auditors for this Section 54 audit report.

Table 3:	Details of the Report Reviewer.				
Name:		Jo-Anne Thomas			
Position:		Project Manager and Director			
Company:		Savannah Environmental (Pty) Ltd			
Qualification:		M.Sc. Botany			
Professional R	egistration:	Professional Natural Scientist (400166/11) (SACNASP)			
Experience:		21 years			
Contact:		011 656 3237			
Email:		joanne@savannahsa.com			

A signed Declaration of Interest confirming the auditors' independence is included in this Environmental Audit Report. CVs of the Independent Environmental Auditor and Report Reviewer are attached as **Appendix A** to this report.

5. ASSUMPTIONS AND LIMITATIONS

The following limitations are applicable to this Environmental Audit Report:

The results of the Environmental Audit Report are limited due to the fact that Wolmaransstad 75MW SEF is currently not operational, and no construction activities have commenced to date (i.e. no authorised activities have commenced), and therefore all the conditions contained in the EMPr relating to any development phase of the facility are not currently applicable. Commenting on the compliance of the project is therefore limited.

6. APPROACH TO CONDUCTING THE AUDIT

6.1. Pre-audit planning

Prior to undertaking the audit, the scope and objectives of the audit were determined through a review of relevant information applicable to the project.

Following the review of existing information, an audit checklist was prepared for use as a tool during the audit to identify any issues of non-compliance and / or areas where action plans may be required to be implemented to address any identified issues of concern.

The audit checklist was prepared based on the licensing and management specifications contained within the Environmental Management Programme (EMPr) for Wolmaransstad 75MW SEF (April 2015) (DEA Reference No.: 14/12/16/3/3/2/576).

As the Wolmaransstad 75MW is currently not operational, and no construction activities have commenced to date (i.e. no authorised activities have commenced), all the conditions contained in the EMPr relating to commencement, construction, operation and decommissioning of the facility are not currently applicable. As such, these conditions have been omitted from the audit checklist and are not shown or reported on in this report. Should these activities commence in future, these conditions must be included into future audit checklists and reported on within the audit.

6.2. Conducting the Audit

As no activities have commenced to date, a desktop audit was conducted of the relevant and applicable EMPr conditions only. This included a review of all information relating to the compliance of relevant EMPr pre-construction conditions.

6.3. Post Audit

Following the audit, an Environmental Compliance Audit Report was compiled in accordance with the requirements of Appendix 7 of the EIA Regulations, 2014, as amended (GNR326). A copy of this Audit Report was submitted to the Department of Environmental Affairs (DEA) in accordance with the requirements of Section 54(A)(3) prior to the 7th of December 2019.

7. FINDINGS OF THE AUDIT

Compliance ratings were provided for each element of the audit checklist using the 4-point rating scale described below:

Compliance status	Rating	Description of compliance
Compliant	3	Compliant with no further action required to maintain compliance
Compliant	2	Compliant apart from minor or immaterial recommendations to improve the strength internal controls to maintain compliance

Compliance status	Rating	Description of compliance
Compliant	1	Compliant with major or material recommendations to improve the strength of internal controls to maintain compliance
Non-Compliant	0	Does not meet minimum requirements

Table 4 provide details of the findings of the audit.

Objective	Mitigation: Action/control	Responsibility	Timeframe	Compliance Rating (0 – 3)	Audit Finding
	Limit development from occurring in the south western section of the site where Acacia erioloba trees occur in high densities (areas of high to very high sensitivity) as far as possible.	Developer / Contractor	Design phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	Consider design level mitigation measures recommended by the specialists, especially with respect to visual aesthetics, noise, flora, ecology, avifauna and bats as detailed within the EIA report and relevant appendices.	Engineering Design Consultant/Developer	Tender design, design review stage	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
To ensure that the design of the facility responds to the identified environmental constraints and opportunities	Access roads to be carefully planned to minimise the impacted area and prevent unnecessary over compaction of soil.	Contractor	Design phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	A comprehensive stormwater management plan must be compiled that details how storm-water will be managed to reduce velocities and volumes of water that could lead to erosion of surfaces.	Developer	Design phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	A detailed geotechnical investigation is required for the design phase. This should be undertaken with due regard for all environmental legislative requirements.	Developer	Design phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.

Table 4: Audit Checklist for Compliance with the Conditions Contained in EMPr (April 2015) (DEA Reference No. 14/12/16/3/3/2/576)

Objective	Mitigation: Action/control	Responsibility	Timeframe	Compliance Rating (0 – 3)	Audit Finding
	Submit a final layout to DEA prior to the commencement of construction. This layout should provide information on all components of the project.	Developer	Pre-construction	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	Obtain all relevant permits (e.g. permits for impacting on protected plants and trees, water use license) prior to construction in an area.	Developer	Pre-construction	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	A traffic management plan must be prepared for site access roads to minimise or where possible avoid the hazards which could result from increased traffic and to ensure that traffic flow is not adversely affected. This document would be a working document to be updated as and when required.	Contractor	Pre-construction	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
The mitigation and possible negation of visual impacts associated with the planning of the Proposed	Retain and maintain natural and / or cultivated vegetation in all areas outside of the development footprint.	Developer / design consultant	Early in the planning phase.	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.

Objective	Mitigation: Action/control	Responsibility	Timeframe	Compliance Rating (0 – 3)	Audit Finding
Wolmaransstad 75MW Solar Energy Facility.	Consolidate infrastructure and make use of already disturbed sites rather than undeveloped areas.	Developer / design consultant	Early in the planning phase.	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	Where sensitive visual receptors are likely to be affected, such as residents along the un-screened northern periphery of Wolmaransstad, it is recommended that the developer enter into negotiations regarding the potential screening of visual impacts at the receptor site. This may entail the planting of vegetation, trees or even the construction of built screens. Ultimately, visual screening is most effective when placed at the receptor itself.	Developer	Early in the planning phase.	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.

Objective	Mitigation: Action/control	Responsibility	Timeframe	Compliance Rating (0 – 3)	Audit Finding
	Consult a lighting engineer in the design and planning of lighting to ensure the correct specification and placement of lighting and light fixtures for the solar energy facility and the ancillary infrastructure. The following is recommended: * Shield the sources of light by physical barriers (walls, vegetation, or the structure itself); * Limit mounting heights of fixtures, or use footlights or bollard lights; * Make use of minimum lumen or wattage in fixtures; * Making use of down-lighters or shielded fixtures; * Make use of Low-Pressure Sodium lighting or other low impact lighting. Make use of motion detectors on security lighting, so allowing the site to remain in darkness until lighting is required for security or maintenance purposes.		Early in the planning phase.	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
Ensure the selection of the best environmental option for the alignment of development areas, laydown areas and access	 Avoid, as far as possible: » Vegetation Units indicated to be of very high sensitivity within the Ecological EIA study undertaken. 	Developer	Design phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status
roads	Use design-level mitigation measures recommended in respect of habitat and	Developer	Prior to submission of final	N/A	Action/control measure is not applicable considering the status of

Objective	Mitigation: Action/control	Responsibility	Timeframe	Compliance Rating (0 – 3)	Audit Finding
	ecosystem intactness and prevention of species loss as detailed within the EIA Report		construction layout plan		the project. This measure will become applicable once the project receives preferred bidder status.
	Utilise existing roads as far as possible. Where new access roads must be implemented, plan these and machinery turning points to minimise the impacted area, avoid the initiation of accelerated soil erosion and prevent unnecessary compaction and disturbance of topsoil, prevent obstruction or alteration of natural water flow	Developer	Design phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	Compile a comprehensive stormwater management and erosion control plan for the footprint area as part of the final design of the project	Developer and relevant specialist	Design phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	 Permissible biodiversity: » Depending on the final PV array and mechanism developed and taking all potential impacts, fire risks and maintenance requirements into consideration, it has to be decided upon and made clear: o Permissible vegetation: maximum height, desirable density and composition 	Developer, in consultation with relevant specialist	Design phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.

Objective	Mitigation: Action/control	Responsibility	Timeframe	Compliance Rating (0 – 3)	Audit Finding
	 Maintenance of this vegetation – mowing, small livestock grazing 				
	After the permissible biodiversity has been determined, compile a comprehensive vegetation and habitat rehabilitation management plan.	Developer and relevant specialist	Design phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
Search and Rescue of All Translocatable Indigenous Plants	Ecological footprint investigation and recording by GPS of localities of all red data species and indication of presence of other species of conservation concern. The final footprint investigation (walkthrough) is aimed to fully inform the developer, responsible conservation authority (that will issue the relevant destruction permits), contractors, EO and ECO regarding: * Protected and red data species that will be affected by the development * Location of protected plant species within the footprint area – either individually mapped or approximate areas of occurrence, especially dense patches (alternatively, for linear structures, between which structures or other markers) * Identification of the affected species by providing a representative photo	Developer, carried out by Specialist	Design review phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.

Objective	Mitigation: Action/control	Responsibility	Timeframe	Compliance Rating (0 – 3)	Audit Finding
	 record that enables EO/ECOs and contractors to identify such plants > How many specimens per species may be affected –estimate based on random transect surveys. > Which species can be successfully relocated, which and how many will have to be destroyed > Location and nature of any nesting sites or active burrows of vertebrate species (birds, amphibians, reptiles and mammals), that will have to be inspected and cleared/relocated prior to construction by the contractor or duly appointed person(s) > Approximate location and nature of any other significant environmental concerns, e.g. extreme gully erosion, that will need to be addressed by the contractor to prevent any unnecessary (further) degradation of the development footprint 				
	Obtain permits for protected plant removal and/or relocation prior to	·	Pre- commencement	N/A	Action/control measure is not applicable considering the status of the project. This measure will become

Objective	Mitigation: Action/control	Responsibility	Timeframe	Compliance Rating (0 – 3)	Audit Finding
	commencement of any activity related to this development	responsible for vegetation clearing			applicable once the project receives preferred bidder status.
	Vegetation clearing to commence only after walk through has been conducted and necessary permits obtained.	ECO and horticultural Contractor	Prior to construction	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	Rescue and replanting to be undertaken in accordance with relevant permits.	ECO and horticultural Contractor	Prior to construction	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
To ensure effective communication mechanisms	Compile and implement a grievance mechanism procedure for the public (as outlined in Appendix A) to be implemented during both the construction and operational phases of the facility. This procedure should include details of the contact person who will be receiving issues raised by interested and affected parties, and the process that will be followed to address issues. This procedure should be in line with the South African Labour Law.	Developer	Pre-construction (construction procedure) Pre-operation (operation procedure)	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	Liaison with landowner is to be undertaken prior to the commencement of construction in order to provide sufficient time for him to plan agricultural activities.	Developer / Contractor	Pre-construction	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.

Objective	Mitigation: Action/control	Responsibility	Timeframe	Compliance Rating (0 – 3)	Audit Finding
	A local procurement policy to be adopted by the developer to maximise the benefit to the local economy	Developer & EP Contractor	C Pre-construction & construction phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
Enhancement of economic multiplier effects	Develop a database of local companies, specifically Historically Disadvantaged (HD) which qualify as potential service providers (e.g. construction companies, catering companies, waste collection companies, security companies etc.) prior to the commencement of the tender process for construction contractors. These companies should be notified of the tender process and invited to bid for project-related work where applicable.		C Pre-construction & construction phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.
	Source as many goods and services as possible from the local area. Engage with local authorities and business organisations to investigate the possibility of procurement of construction materials, goods and products from local suppliers where feasible	Developer	Pre-construction & construction phase	N/A	Action/control measure is not applicable considering the status of the project. This measure will become applicable once the project receives preferred bidder status.

8. AUDIT RESULTS AND RECOMMENDATIONS

8.1. Overview of Audit Findings and Conclusion

Considering that the Wolmaransstad 75MW solar facility is currently not operational, and no construction activities have commenced to date (i.e. no authorised activities have commenced), all the conditions contained in the EMPr relating to any development phase of the facility are not currently applicable. It is therefore not possible to comment on the compliance with these specifications until such time that the facility receives preferred bidder status under the Department of Energy's REIPPP Programme (or an alternative Power Purchase Agreement (PPA) as may be relevant) which would enable the commencement of the development phases for the project.

Based on the fact that none of the conditions contained in the EMPr are currently applicable, it is not possible to calculate the overall compliance percentage of the Wolmaransstad 75MW SEF 2 (refer to **Table 5**). A rating of N/A (not applicable at this time) has been allocated.

Table 5:	Table 5: Overview of the Wolmaransstad 75MW SEF overall compliance.					
Compliance	Rating Description of compliance		EMPr			
status			Results	%		
Compliant	3	Compliant with no further action required to maintain compliance.	N/A	N/A		
Compliant	2	Compliant apart from minor or immaterial recommendations to improve the strength internal controls to maintain compliance.	N/A	N/A		
Compliant	1	Compliant with major or material recommendations to improve the strength of internal controls to maintain compliance.	N/A	N/A		
Non-Complian	† 0	Does not meet minimum requirements.	N/A	N/A		
TOTAL:			N/A	N/A		

9. EVALUATION OF THE EMPR

As per Appendix 7 of the EIA Regulations, GNR 326 of 2017, an external audit report must include "an indication of the ability of the EMPr to:

- (i) sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an on going basis;
- (ii) Sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the closure of the facility; and
- (iii) Ensure compliance with the provisions of the EMPr;"

9.1. Ongoing impact avoidance, management and mitigation

Based on the audit outcomes and results reported above, the auditor is satisfied that the EMPr is sufficient and able to provide for the avoidance, management and mitigation of the environmental impacts associated with the undertaking of the activity on an ongoing basis, and that no further amendment or alteration to the EMPr is required in order to maintain this reliability of the EMPr. The recommendations of Chapter 10 of the EMPr regarding the inclusion of site-specific information into subsequent revisions of the EMPr must however be implemented once a final design has been completed and prior to construction.

9.2. Closure impact avoidance, management and mitigation

The facility has not started with any of the listed activities (i.e. no construction activities has commenced) and will therefore not be decommissioned or closed in the foreseeable future, and therefore no decommissioning activities are applicable to this audit. The current EMPr is not considered sufficient to address the decommissioning phase of the project. An EMPr for decommissioning would need to be developed at the stage in the project life-cycle when this is applicable

9.3. Ensuring compliance with provisions of the EMPr

Based on the audit outcomes and results reported above, the auditor is satisfied that the EMPr is sufficient and able to ensure compliance with the provisions of the environmental authorisation and EMPr, and that no further amendment or alteration to the EMPr is required in order to maintain this reliability of the EMPr.

No additional impacts or risks have been identified to be associated with the undertaking of the proposed activities based on the desk-top audit.

Considering that Wolmaransstad 75MW solar facility is currently not operational, and no construction activities have commenced to date (i.e. no authorised activities have commenced), all the conditions contained in the EMPr relating to any development phase of the facility are not currently applicable. It is therefore not possible to comment on the compliance with these specifications until such time that the facility receives preferred bidder status under the Department of Energy's REIPPP Programme (or an alternative Power Purchase Agreement (PPA) as may be relevant) which would enable the commencement of the development phases for the project.

10. CONCLUSIONS AND RECOMMENDATIONS

This Chapter provides an overview of the results and recommendations of the environmental audit of the Wolmaransstad 75MW SEF with the specifications of the project EMPr.

No non-compliances were recorded as part of the independent external environmental compliance audit. As a result, no recommendations are considered applicable.

It is the opinion of the independent auditor that the project EMPr (April 2015), and its supporting documentation sufficiently provides for the avoidance, management and mitigation of environmental impacts associated with the project (DEA Reference No.: 14/12/16/3/3/2/576) amendments thereto. The current EMPr is not considered sufficient to address the decommisoning phase of the project. An EMPr for decommissioning would need to be developed at the stage in the project life-cycle when this is applicable

11. STAKEHOLDER CONSULTATION

11.1. Notification of all potential and registered interested and affected parties

In accordance with the requirements of Section 34(6) of the EIA Regulations (GNR 326 of 2017), the following consultation must form part of the audit report submission:

- » Within 7 days of the date of submission of an environmental audit report to the competent authority, the holder of an environmental authorisation must notify all potential and registered interested and affected parties of the submission of that report, and make such report immediately available
 - * (a) to anyone on request; and
 - * (b) on a publicly accessible website, where the holder has such a website.

In order to be remain compliant with these requirements, all potential and registered interested and affected parties have been notified of the submission of the external compliance audit report by:

- » The placement of an advertisement with a local newspaper, the Stellalander, on the 4th of December 2019 and (Appendix B)
- » Notification of all registered I&APs via email on 3 December 2019 (refer to Appendix C); and
- » Uploading the audit report onto the Savannah Environmental website (www.savannahsa.com) for download upon request.

APPENDIX A:

CVS OF INDEPENDENT AUDITOR/S AND REPORT REVIEWER



Email: kritanya@savannahsa.com Tel: +27 (11) 656 3237

CURRICULUM VITAE OF KRITANYA NAIDOO

Profession:Environmental Compliance ConsultantSpecialisation:Environmental, Health and Safety compliance audits. ISO management system audits,
implementation and monitoring, Compilation of monthly SHEQ reports for projects in the
infrastructure and service provider sectors.Work Experience:4 years' experience in the SHEQ field.

VOCATIONAL EXPERIENCE

Kritanya hold a Master's degree in Population Studies and 4 years SHEQ experience in conducting Environmental Compliance Audits, Environmental, Quality and Health and Safety Management System Audits, implementation and maintenance of ISO 14001: 2015 and ISO 9001:2015 systems.

SKILLS BASE AND CORE COMPETENCIES

- Report writing
- Environmental Compliance and System Audits
- Understanding the implementation of NEMA and NEMWA
- Maintaining and implementation of ISO 14001 and ISO 9001 and OHSAS standards

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- M. (Masters) Population Studies (2013), University of KwaZulu-Natal, KZN
- B.SS. (Hons.) Geography and Environmental Management (2011), University of KwaZulu-Natal, KZN
- B.SS. Geography and Environmental Management (2010), University of KwaZulu-Natal, KZN

Courses:

- First aider (2015)
- SHE Representative Course (2015)
- ISO 9001:2015 Internal Auditor Training (2016)
- ISO 14001:2015 Environmental Management System Training (2017)

EMPLOYMENT

Date	Company	Roles and Responsibilities
March 2019 - Current	Savannah Environmental (Pty) Ltd	Environmental Compliance Consultant
		Tasks include: Scheduled and Ad-hoc ECO audits and checklists. Statutory audits and audits against permits/licences in accordance with legislative requirements. Management system audits checklists & report writing. Environmental Management Programme Revisions. Environmental Authorisation amendments. Review and comment on monthly ECO reports. Review of permits and licences. Assist with identifying new opportunities
October 2017-August	Stefanutti Stocks, KZN Building	Environmental and Quality Officer
2018	Division	Tasks included: Conduct Environmental Compliance and System Audits. Monitor/Review all environmental statistics. Implement and maintain the Quality Management Systems (QMS). Conduct QMS audits. Write monthly reports on the status of the Quality and Environmental Systems. SHEQ document controller. Involvement in the development and implementation of the Quality Electronic System (Plumbum).
September 2016- September 2017	3 Energy Renewables	Environmental Officer Tasks included: Carry out Environmental and Social Audits based on the Environmental Authorisation, Environmental Management Plan, Environmental Aspects and Social Concerns at varies Renewable Energy Power Plants. Assist in conducting internal Health and Safety inspections and audits at various Renewable Energy Power Plants. Assist with HSE incidents at the Renewable Energy Power Plants. Develop and implement ISO 9001:2015, Quality Management System (QMS).Conduct QMS internal audits, document control and corrective action.

PROJECT EXPERIENCE

Renewable Power Generation Projects: Wind Energy Facilities

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Amakhala Emoyeni WEF, Eastern Cape	Cennergi	Environmental Officer
Tsitsikamma WEF, Eastern Cape	Cennergi	Environmental Officer
Koega WEF, Eastern Cape	Koega Wind Power	Environmental Officer
Metrowind Van Staadens WEF Eastern Cape	Rubicept	Environmental Officer
Roggeveld WEF, Northern and Western Cape	Building Energy	ECO

Infrastructure Development Projects (bridges, pipelines, roads, waste etc)

Basic Assessments

Project Name & Location	Client Name	Role
Nigel Gas Pipeline and associated infrastructure,	Energy Group	Compliance Consultant
Gauteng Province		



Email: joanne@savannahsa.com Tel: +27 (11) 656 3237

CURRICULUM VITAE OF JO-ANNE THOMAS

Profession:	Environmental Management and Compliance Consultant; Environmental Assessment
	Practitioner
Specialisation:	Environmental Management; Strategic environmental advice; Environmental compliance
	advice & monitoring; Environmental Impact Assessments; Policy, strategy & guideline
	formulation; Project Management; General Ecology
Work experience:	Twenty one (21) years in the environmental field

VOCATIONAL EXPERIENCE

Provide technical input for projects in the environmental management field, specialising in Strategic Environmental Advice, Environmental Impact Assessment studies, environmental auditing and monitoring, environmental permitting, public participation, Environmental Management Plans and Programmes, environmental policy, strategy and guideline formulation, and integrated environmental management. Key focus on integration of the specialist environmental studies and findings into larger engineering-based projects, strategic assessment, and providing practical and achievable environmental management solutions and mitigation measures. Responsibilities for environmental studies include project management (including client and authority liaison and management of specialist teams); review and manipulation of data; identification and assessment of potential negative environmental impacts and benefits; review of specialist studies; and the identification of mitigation measures. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation.

Undertaking of numerous environmental management studies has resulted in a good working knowledge of environmental legislation and policy requirements. Recent projects have been undertaken for both the public- and private-sector, including compliance advice and monitoring, electricity generation and transmission projects, various types of linear developments (such as National Road, local roads and power lines), waste management projects (landfills), mining rights and permits, policy, strategy and guideline development, as well as general environmental planning, development and management.

SKILLS BASE AND CORE COMPETENCIES

- Project management for a range of projects
- Identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data and specialist studies
- Identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Compilation of environmental reports in accordance with relevant environmental legislative requirements
- External and peer review of environmental reports & compliance advice and monitoring
- Formulation of environmental policies, strategies and guidelines
- Strategic and regional assessments; pre-feasibility & site selection
- Public participation processes for a variety of projects
- Strategic environmental advice to a wide variety of clients both in the public and private sectors
- Working knowledge of environmental planning processes, policies, regulatory frameworks and legislation

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc Earth Sciences, University of the Witwatersrand, Johannesburg (1993)
- B.Sc Honours in Botany, University of the Witwatersrand, Johannesburg (1994)
- M.Sc in Botany, University of the Witwatersrand, Johannesburg (1996)

Short Courses:

- Environmental Impact Assessment, Potchefstroom University (1998)
- Environmental Law, Morgan University (2001)
- Environmental Legislation, IMBEWU (2017)
- Mining Legislation, Cameron Cross & Associates (2013)
- Environmental and Social Risk Management (ESRM), International Finance Corporation (2018)

Professional Society Affiliations:

- Registered with the South African Council for Natural Scientific Professions as a Professional Natural Scientist: Environmental Scientist (400024/00)
- Registered with the International Associated for Impact Assessment South Africa (IAIAsa): 5601
- Member of the South African Wind Energy Association (SAWEA)

EMPLOYMENT

Date	Company	Roles and Responsibilities
January 2006 - Current	Savannah Environmental (Pty) Ltd	Director Project manager Independent specialist environmental consultant, Environmental Assessment Practitioner (EAP) and advisor.
1997 – 2005	Bohlweki Environmental (Pty) Ltd	Senior Environmental Scientist at. Environmental Management and Project Management
January – July 1997	Sutherland High School, Pretoria	Junior Science Teacher

PROJECT EXPERIENCE

Project experience includes large infrastructure projects, including electricity generation and transmission, wastewater treatment facilities, mining and prospecting activities, property development, and national roads, as well as strategy and guidelines development.

RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Christiana PV 2 SEF, North West	Solar Reserve South Africa	Project Manager & EAP
De Aar PV facility, Northern Cape	iNca Energy	Project Manager & EAP
Everest SEF near Hennenman, Free State	FRV Energy South Africa	Project Manager & EAP
Graafwater PV SEF, Western Cape	iNca Energy	Project Manager & EAP
Grootkop SEF near Allanridge, Free State	FRV Energy South Africa	Project Manager & EAP
Hertzogville PV 2 SEF with 2 phases, Free State	SunCorp / Solar Reserve	Project Manager & EAP
Karoshoek CPV facility on site 2 as part of the larger	FG Emvelo	Project Manager & EAP
Karoshoek Solar Valley Development East of		
Upington, Northern Cape		

Project Name & Location	Client Name	Role
Kgabalatsane SEF North-East for Brits, North West	Built Environment African	Project Manager & EAP
	Energy Services	
Kleinbegin PV SEF West of Groblershoop, Northern	MedEnergy Global	Project Manager & EAP
Саре		
Lethabo Power Station PV Installation, Free State	Eskom Holdings SoC Limited	Project Manager & EAP
Majuba Power Station PV Installation, Mpumalanga	Eskom Holdings SoC Limited	Project Manager & EAP
Merapi PV SEF Phase 1 – 4 South-East of Excelsior,	SolaireDirect Southern Africa	Project Manager & EAP
Free State		
Sannaspos Solar Park, Free State	SolaireDirect Southern Africa	Project Manager & EAP
Ofir-Zx PV Plant near Keimoes, Northern Cape	S28 Degrees Energy	Project Manager & EAP
Oryx SEF near Virginia, Free State	FRV Energy South Africa	Project Manager & EAP
Project Blue SEF North of Kleinsee, Northern Cape	WWK Development	Project Manager & EAP
S-Kol PV Plant near Keimoes, Northern Cape	S28 Degrees Energy	Project Manager & EAP
Sonnenberg PV Plant near Keimoes, Northern Cape	S28 Degrees Energy	Project Manager & EAP
Tutuka Power Station PV Installation, Mpumalanga	Eskom Transmission	Project Manager & EAP
Two PV sites within the Northern Cape	MedEnergy Global	Project Manager & EAP
Two PV sites within the Western & Northern Cape	iNca Energy	Project Manager & EAP
Upington PV SEF, Northern Cape	MedEnergy Global	Project Manager & EAP
Vredendal PV facility, Western Cape	iNca Energy	Project Manager & EAP
Waterberg PV plant, Limpopo	Thupela Energy	Project Manager & EAP
Watershed Phase I & II SEF near Litchtenburg, North	FRV Energy South Africa	Project Manager & EAP
West		
Alldays PV & CPV SEF Phase 1, Limpopo	BioTherm Energy	Project Manager & EAP
Hyperion PV Solar Development 1, 2, 3, 4, 5 & 6	Building Energy	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Aberdeen PV SEF, Eastern Cape	BioTherm Energy	Project Manager & EAP
Christiana PV 1 SEF on Hartebeestpan Farm, North-	Solar Reserve South Africa	Project Manager & EAP
West		
Heuningspruit PV1 & PV 2 facilities near Koppies,	Sun Mechanics	Project Manager & EAP
Free State		
Kakamas PV Facility, Northern Cape	iNca Energy	Project Manager & EAP
Kakamas II PV Facility, Northern Cape	iNca Energy	Project Manager & EAP
Machadodorp 1 PV SEF, Mpumalanga	Solar To Benefit Africa	Project Manager & EAP
PV site within the Northern Cape	iNca Energy	Project Manager & EAP
PV sites within 4 ACSA airports within South Africa,	Airports Company South Africa	Project Manager & EAP
National	(ACSA)	
RustMo1 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
RustMo2 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
RustMo3 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
RustMo4 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
Sannaspos PV SEF Phase 2 near Bloemfontein, Free	SolaireDirect Southern Africa	Project Manager & EAP
State		
Solar Park Expansion within the Rooiwal Power	AFRKO Energy	Project Manager & EAP
Station, Gauteng		
Steynsrus SEF, Free State	SunCorp	Project Manager & EAP

Project Name & Location	Client Name	Role
Sirius Solar PV Project Three and Sirius Solar PV	SOLA Future Energy	Project Manager & EAP
Project Four (BA in terms of REDZ regulations),		
Northern Cape		

Screening Studies

Project Name & Location	Client Name	Role
Allemans Fontein SEF near Noupoort, Northern Cape	Fusion Energy	Project Manager & EAP
Amandel SEF near Thabazimbi, Limpopo	iNca Energy	Project Manager & EAP
Arola/Doornplaat SEF near Ventersdorp, North West	FRV & iNca Energy	Project Manager & EAP
Bloemfontein Airport PV Installation, Free State	The Power Company	Project Manager & EAP
Brakspruit SEF near Klerksorp, North West	FRV & iNca Energy	Project Manager & EAP
Carolus Poort SEF near Noupoort, Northern Cape	Fusion Energy	Project Manager & EAP
Damfontein SEF near Noupoort, Northern Cape	Fusion Energy	Project Manager & EAP
Everest SEF near Welkom, Free State	FRV & iNca Energy	Project Manager & EAP
Gillmer SEF near Noupoort, Northern Cape	Fusion Energy	Project Manager & EAP
Grootkop SEF near Allansridge, Free State	FRV & iNca Energy	Project Manager & EAP
Heuningspruit PV1 & PV 2 near Koppies, Free State	Cronimat	Project Manager & EAP
Kimberley Airport PV Installation, Northern Cape	The Power Company	Project Manager & EAP
Kolonnade Mall Rooftop PV Installation in Tshwane,	Momentous Energy	Project Manager & EAP
Gauteng		
Loskop SEF near Groblersdal, Limpopo	S&P Power Unit	Project Manager & EAP
Marble SEF near Marble Hall, Limpopo	S&P Power Unit	Project Manager & EAP
Morgenson PV1 SEF South-West of Windsorton,	Solar Reserve South Africa	Project Manager & EAP
Northern Cape		
OR Tambo Airport PV Installation, Gauteng	The Power Company	Project Manager & EAP
Oryx SEF near Virginia, Free State	FRV & iNca Energy	Project Manager & EAP
Rhino SEF near Vaalwater, Limpopo	S&P Power Unit	Project Manager & EAP
Rustmo2 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
Spitskop SEF near Northam, Limpopo	FRV & iNca Energy	Project Manager & EAP
Steynsrus PV, Free State	Suncorp	Project Manager & EAP
Tabor SEF near Polokwane, Limpopo	FRV & iNca Energy	Project Manager & EAP
UpingtonAirport PV Installation, Northern Cape	The Power Company	Project Manager & EAP
Valeria SEF near Hartebeestpoort Dam, North West	Solar to Benefit Africa	Project Manager & EAP
Watershed SEF near Lichtenburg, North West	FRV & iNca Energy	Project Manager & EAP
Witkop SEF near Polokwane, Limpopo	FRV & iNca Energy	Project Manager & EAP
Woodmead Retail Park Rooftop PV Installation, Gauteng	Momentous Energy	Project Manager & EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO and bi-monthly auditing for the construction of	Enel Green Power	Project Manager
the Adams Solar PV Project Two South of Hotazel,		
Northern Cape		
ECO for the construction of the Kathu PV Facility,	REISA	Project Manager
Northern Cape		
ECO and bi-monthly auditing for the construction of	Enel Green Power	Project Manager
the Pulida PV Facility, Free State		
ECO for the construction of the RustMo1 SEF, North	Momentous Energy	Project Manager
West		
ECO for the construction of the Sishen SEF, Northern	Windfall 59 Properties	Project Manager

Project Name & Location	Client Name	Role
Саре		
ECO for the construction of the Upington Airport PV	Sublanary Trading	Project Manager
Facility, Northern Cape		
Quarterly compliance monitoring of compliance	REISA	Project Manager
with all environmental licenses for the operation		
activities at the Kathu PV facility, Northern Cape		
ECO for the construction of the Konkoonsies II PV SEF	BioTherm Energy	Project Manager
and associated infrastructure, Northern Cape		
ECO for the construction of the Aggeneys PV SEF	BioTherm Energy	Project Manager
and associated infrastructure, Northern Cape		

Compliance Advice and ESAP Reporting

Project Name & Location	Client Name	Role
Aggeneys Solar Farm, Northern Cape	BioTherm Energy	Environmental Advisor
Airies II PV Facility SW of Kenhardt, Northern Cape	BioTherm Energy	Environmental Advisor
Kalahari SEF Phase II in Kathu, Northern Cape	Engie	Environmental Advisor
Kathu PV Facility, Northern Cape	Building Energy	Environmental Advisor
Kenhardt PV Facility, Northern Cape	BioTherm Energy	Environmental Advisor
Kleinbegin PV SEF West of Groblershoop, Northern	MedEnergy	Environmental Advisor
Саре		
Konkoonises II SEF near Pofadder, Northern Cape	BioTherm Energy	Environmental Advisor
Konkoonsies Solar Farm, Northern Cape	BioTherm Energy	Environmental Advisor
Lephalale SEF, Limpopo	Exxaro	Environmental Advisor
Pixley ka Seme PV Park, South-East of De Aar,	African Clean Energy	Environmental Advisor
Northern Cape	Developments (ACED)	
RustMo1 PV Plant near Buffelspoort, North West	Momentous Energy	Environmental Advisor
Scuitdrift 1 SEF & Scuitdrift 2 SEF, Limpopo	Building Energy	Environmental Advisor
Sirius PV Plants, Northern Cape	Aurora Power Solutions	Environmental Advisor
Upington Airport PV Power Project, Northern Cape	Sublunary Trading	Environmental Advisor
Upington SEF, Northern Cape	Abengoa Solar	Environmental Advisor
Ofir-ZX PV SEF near Keimoes, Northern Cape	Networx S28 Energy	Environmental Advisor
Steynsrus PV1 & PV2 SEF's, Northern Cape	Cronimet Power Solutions	Environmental Advisor
Heuningspruit PV SEF, Northern Cape	Cronimet Power Solutions	Environmental Advisor

Due Diligence Reporting

Project Name & Location	Client Name	Role
5 PV SEF projects in Lephalale, Limpopo	iNca Energy	Environmental Advisor
Prieska PV Plant, Northern Cape	SunEdison Energy India	Environmental Advisor
Sirius Phase One PV Facility near Upington, Northern	Aurora Power Solutions	Environmental Advisor
Саре		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Biodiversity Permit & WULA for the Aggeneys SEF	BioTherm Energy	Project Manager & EAP
near Aggeneys, Northern Cape		
Biodiversity Permit for the Konkoonises II SEF near	BioTherm Energy	Project Manager & EAP
Pofadder, Northern Cape		
Biodiversity Permitting for the Lephalale SEF,	Exxaro Resources	Project Manager & EAP
Limpopo		

Project Name & Location	Client Name	Role
Environmental Permitting for the Kleinbegin PV SEF	MedEnergy	Project Manager & EAP
West of Groblershoop, Northern Cape		
Environmental Permitting for the Upington SEF,	Abengoa Solar	Project Manager & EAP
Northern Cape		
Environmental Permitting for the Kathu PV Facility,	Building Energy	Project Manager & EAP
Northern Cape		
Environmental Permitting for the Konkoonsies Solar	BioTherm Energy	Project Manager & EAP
Farm, Northern Cape		
Environmental Permitting for the Lephalale SEF,	Exxaro Resources	Project Manager & EAP
Limpopo		
Environmental Permitting for the Scuitdrift 1 SEF &	Building Energy	Project Manager & EAP
Scuitdrift 2 SEF, Limpopo		
Environmental Permitting for the Sirius PV Plant,	Aurora Power Solutions	Project Manager & EAP
Northern Cape		
Environmental Permitting for the Steynsrus PV1 & PV2	Cronimet Power Solutions	Project Manager & EAP
SEF's, Northern Cape		
Environmental Permitting for the Heuningspruit PV	Cronimet Power Solutions	Project Manager & EAP
SEF, Northern Cape		
Permits for the Kleinbegin and UAP PV Plants,	MedEnergy Global	Project Manager & EAP
Northern Cape		
S53 Application for Arriesfontein Solar Park Phase 1 –	Solar Reserve / SunCorp	Project Manager & EAP
3 near Danielskuil, Northern Cape		
\$53 Application for Hertzogville PV1 & PV 2 SEFs, Free	Solar Reserve / SunCorp	Project Manager & EAP
State		
\$53 Application for the Bloemfontein Airport PV	Sublunary Trading	Project Manager & EAP
Facility, Free State		
\$53 Application for the Kimberley Airport PV Facility,	Sublunary Trading	Project Manager & EAP
Northern Cape		
\$53 Application for the Project Blue SEF, Northern	WWK Developments	Project Manager & EAP
Cape		
\$53 Application for the Upington Airport PV Facility,	Sublunary Trading	Project Manager & EAP
Free State		
WULA for the Kalahari SEF Phase II in Kathu, Northern	Engie	Project Manager & EAP
Саре		
Environmental Permitting for the Steynsrus PV1 & PV2	Cronimet Power Solutions	Project Manager & EAP
SEF's, Northern Cape		
Environmental Permitting for the Heuningspruit PV	Cronimet Power Solutions	Project Manager & EAP
SEF, Northern Cape		

RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ilanga CSP 2, 3, 4, 5, 7 & 9 Facilities near Upington,	Emvelo Holdings	Project Manager & EAP
Northern Cape		
llanga CSP near Upington, Northern Cape	llangethu Energy	Project Manager & EAP
llanga Tower 1 Facility near Upington, Northern	Emvelo Holdings	Project Manager & EAP
Саре		

Project Name & Location	Client Name	Role
Karoshoek CPVPD 1-4 facilities on site 2 as part of	FG Emvelo	Project Manager & EAP
the larger Karoshoek Solar Valley Development East		
of Upington, Northern Cape		
Karoshoek CSP facilities on sites 1.4; 4 & 5 as part of	FG Emvelo	Project Manager & EAP
the larger Karoshoek Solar Valley Development East		
of Upington, Northern Cape		
Karoshoek Linear Fresnel 1 Facility on site 1.1 as part	FG Emvelo	Project Manager & EAP
of the larger Karoshoek Solar Valley Development		
East of Upington, Northern Cape		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the !Khi CSP Facility,	Abengoa Solar	Project Manager
Northern Cape		
ECO for the construction of the Ilanga CSP 1 Facility	Karoshoek Solar One	Project Manager
near Upington, Northern Cape		
ECO for the construction of the folar Park, Northern	Kathu Solar	Project Manager
Саре		
ECO for the construction of the KaXu! CSP Facility,	Abengoa Solar	Project Manager
Northern Cape		
Internal audit of compliance with the conditions of	Karoshoek Solar One	Project Manager
the IWUL issued to the Karoshoek Solar One CSP		
Facility, Northern Cape		

Screening Studies

Project Name & Location	Client Name	Role
Upington CSP (Tower) Plant near Kanoneiland,	iNca Energy and FRV	Project Manager & EAP
Northern Cape		

Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
llanga CSP Facility near Upington, Northern Cape	llangethu Energy	Environmental Advisor
llangalethu CSP 2, Northern Cape	FG Emvelo	Environmental Advisor
Kathu CSP Facility, Northern Cape	GDF Suez	Environmental Advisor
Lephalale SEF, Limpopo	Cennergi	Environmental Advisor
Solis I CSP Facility, Northern Cape	Brightsource	Environmental Advisor

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Environmental Permitting for the Ilanga CSP Facility	llangethu Energy	Project Manager & EAP
near Upington, Northern Cape		
Environmental Permitting for the Kathu CSP, Northern	GDF Suez	Project Manager & EAP
Саре		
WULA for the Solis I CSP Facility, Northern Cape	Brightsource	Project Manager & EAP

RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

•	2	
Project Name & Location	Client Name	Role
Sere WEF, Western Cape	Eskom Holdings SoC Limited	EAP

Project Name & Location	Client Name	Role
Aberdeen WEF, Eastern Cape	Eskom Holdings SoC Limited	Project Manager & EAP
Amakhala Emoyeni WEF, Eastern Cape	Windlab Developments	Project Manager & EAP
EXXARO West Coast WEF, Western Cape	EXXARO Resources	Project Manager & EAP
Goereesoe Wind Farm near Swellendam, Western	iNca Energy	Project Manager & EAP
Саре		
Hartneest WEF, Western Cape	Juwi Renewable Energies	Project Manager & EAP
Hopefield WEF, Western Cape	Umoya Energy	EAP
Kleinsee WEF, Northern Cape	Eskom Holdings SoC Limited	Project Manager & EAP
Klipheuwel/Dassiesfontein WEF within the Overberg	BioTherm Energy	Project Manager & EAP
area, Western Cape		
Moorreesburg WEF, Western Cape	iNca Energy	Project Manager & EAP
Oyster Bay WEF, Eastern Cape	Renewable Energy Resources	Project Manager & EAP
	Southern Africa	
Project Blue WEF, Northern Cape	Windy World	Project Manager & EAP
Rheboksfontein WEF, Western Cape	Moyeng Energy	Project Manager & EAP
Spitskop East WEF near Riebeeck East, Eastern Cape	Renewable Energy Resources	Project Manager & EAP
	Southern Africa	
Suurplaat WEF, Western Cape	Moyeng Energy	Project Manager & EAP
Swellendam WEF, Western Cape	IE Swellendam	Project Manager & EAP
Tsitsikamma WEF, Eastern Cape	Exxarro	Project Manager & EAP
West Coast One WEF, Western Cape	Moyeng Energy	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Amakhala Emoyeni Wind Monitoring Masts, Eastern	Windlab Developments	Project Manager & EAP
Cape		
Beaufort West Wind Monitoring Masts, Western Cape	Umoya Energy	Project Manager & EAP
Hopefield Community Wind Farm near Hopefield,	Umoya Energy	Project Manager & EAP
Western Cape		
Koekenaap Wind Monitoring Masts, Western Cape	EXXARO Resources	Project Manager & EAP
Koingnaas WEF, Northern Cape	Just Palm Tree Power	Project Manager & EAP
Laingsburg Area Wind Monitoring Masts, Western	Umoya Energy	Project Manager & EAP
Саре		
Overberg Area Wind Monitoring Masts, Western	BioTherm Energy	Project Manager & EAP
Cape		
Oyster Bay Wind Monitoring Masts, Eastern Cape	Renewable Energy Systems	Project Manager & EAP
	Southern Africa (RES)	

Screening Studies

Project Name & Location	Client Name	Role
Albertinia WEF, Western Cape	BioTherm Energy	Project Manager & EAP
Koingnaas WEF, Northern Cape	Just Pal Tree Power	Project Manager & EAP
Napier Region WEF Developments, Western Cape	BioTherm Energy	Project Manager & EAP
Tsitsikamma WEF, Eastern Cape	Exxarro Resources	Project Manager & EAP
Various WEFs within an identified area in the	BioTherm Energy	Project Manager & EAP
Overberg area, Western Cape		
Various WEFs within an identified area on the West	Investec Bank Limited	Project Manager & EAP
Coast, Western Cape		
Various WEFs within an identified area on the West	Eskom Holdings Limited	Project Manager & EAP
Coast, Western Cape		

Project Name & Location	Client Name	Role
Various WEFs within the Western Cape	Western Cape Department of	Project Manager & EAP
	Environmental Affairs and	
	Development Planning	
Velddrift WEF, Western Cape	VentuSA Energy	Project Manager & EAP
Wind 1000 Project	Thabo Consulting on behalf of	Project Manager & EAP
	Eskom Holdings	
Wittekleibosch, Snylip & Doriskraal WEFs, Eastern	Exxarro Resources	Project Manager & EAP
Саре		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the West Coast One	Aurora Wind Power	Project Manager
WEF, Western Cape		
ECO for the construction of the Gouda WEF,	Blue Falcon	Project Manager
Western Cape		
EO for the Dassiesklip Wind Energy Facility, Western	Group 5	Project Manager
Саре		
Quarterly compliance monitoring of compliance	Blue Falcon	Project Manager
with all environmental licenses for the operation		
activities at the Gouda Wind Energy facility near		
Gouda, Western Cape		
Annual auditing of compliance with all	Aurora Wind Power	Project Manager
environmental licenses for the operation activities at		
the West Coast One Wind Energy facility near		
Vredenburg, Western Cape		
External environmental and social audit for the	Cennergi	Project Manager
Amakhala Wind Farm, Eastern Cape		
External environmental and social audit for the	Cennergi	Project Manager
Tsitsikamma Wind Farm, Eastern Cape		
ECO for the construction of the Excelsior Wind Farm	BioTherm Energy	Project Manager
and associated infrastructure, Northern Cape		
External compliance audit of the Dassiesklip Wind	BioTherm Energy	Project Manager
Energy Facility, Western Cape		

Compliance Advice

Project Name & Location	Client Name	Role
Amakhala Phase 1 WEF, Eastern Cape	Cennergi	Environmental Advisor
Dassiesfontein WEF within the Overberg area,	BioTherm Energy	Environmental Advisor
Western Cape		
Excelsior Wind Farm, Western Cape	BioTherm Energy	Environmental Advisor
Great Karoo Wind Farm, Northern Cape	African Clean Energy	Environmental Advisor
	Developments (ACED)	
Hopefield Community WEF, Western Cape	African Clean Energy	Environmental Advisor
	Developments (ACED)	
Rheboksfontein WEF, Western Cape	Moyeng Energy	Environmental Advisor
Tiqua WEF, Western Cape	Cennergi	Environmental Advisor
Tsitsikamma WEF, Eastern Cape	Cennergi	Environmental Advisor
West Coast One WEF, Western Cape	Moyeng Energy	Environmental Advisor

Due Diligence Reporting

Project Name & Location	Client Name	Role
Witteberg WEF, Western Cape	EDPR Renewables	Environmental Advisor
IPD Vredenburg WEF within the Saldanha Bay area,	IL&FS Energy Development	Environmental Advisor
Western Cape	Company	

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Biodiversity Permitting for the Power Line between	Cennergi	Project Manager & EAP
the Tsitikamma Community WEF & the Diep River		
Substation, Eastern Cape		
Biodiversity Permitting for the West Coast One WEF,	Aurora Wind Power	Project Manager & EAP
Western Cape		
Environmental Permitting for the Excelsior WEF,	BioTherm Energy	Project Manager & EAP
Western Cape		
Plant Permits & WULA for the Tsitsikamma	Cennergi	Project Manager & EAP
Community WEF, Eastern Cape		
S24G and WULA for the Rectification for the	Hossam Soror	Project Manager & EAP
commencement of unlawful activities on Ruimsig AH		
in Honeydew, Gauteng		
S24G Application for the Rheboksfontein WEF,	Ormonde - Theo Basson	Project Manager & EAP
Western Cape		
\$53 Application & WULA for Suurplaat and Gemini	Engie	Project Manager & EAP
WEFs, Northern Cape		
\$53 Application for the Hopefield Community Wind	Umoya Energy	Project Manager & EAP
Farm near Hopefield, Western Cape		
\$53 Application for the Project Blue WEF, Northern	WWK Developments	Project Manager & EAP
Cape		
\$53 for the Oyster Bay WEF, Eastern Cape	RES	Project Manager & EAP
WULA for the Great Karoo Wind Farm, Northern	African Clean Energy	Project Manager & EAP
Cape	Developments (ACED)	

CONVENTIONAL POWER GENERATION PROJECTS (COAL)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Mutsho Power Station near Makhado, Limpopo	Mutsho Consortium	Project Manager & EAP
Coal-fired Power Station near Ogies, Mpumalanga	Ruukki SA	Project Manager & EAP
Thabametsi IPP Coal-fired Power Station, near	Axia	Project Manager & EAP
Lephalale, Limpopo		
Transalloys Coal-fired Power Station, Mpumalanga	Transalloys	Project Manager & EAP
Tshivasho IPP Coal-fired Power Station (with WML),	Cennergi	Project Manager & EAP
near Lephalale, Limpopo		
Umbani Coal-fired Power Station, near Kriel,	ISS Global Mining	Project Manager & EAP
Mpumalanga		
Waterberg IPP Coal-Fired Power Station near	Exxaro Resources	Project Manager & EAP
Lephalale, Limpopo		

Basic Assessments

Project Name & Location	Client Name	Role
Coal Stockyard on Medupi Ash Dump Site, Limpopo	Eskom Holdings	Project Manager & EAP

Project Name & Location	Client Name	Role
Biomass Co-Firing Demonstration Facility at Arnot	Eskom Holdings	Project Manager & EAP
Power Station East of Middleburg, Mpumlanaga		

Screening Studies

Project Name & Location	Client Name	Role
Baseload Power Station near Lephalale, Limpopo	Cennergi	Project Manager & EAP
Coal-Fired Power Plant near Delmas, Mpumalanga	Exxaro Resources	Project Manager & EAP
Makhado Power Station, Limpopo	Mutsho Consortium, Limpopo	Project Manager & EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the Camden Power Station, Mpumalanga	Eskom Holdings	Project Manager

Compliance Advice

Project Name & Location	Client Name	Role
Thabametsi IPP Coal-fired Power Station, near	Axia	Environmental Advisor
Lephalale, Limpopo		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Permit application for the Thabametsi Bulk Water	Axia	Project Manager & EAP
Pipeline, near Lephalale, Limpopo		
\$53 & WULA for the Waterberg IPP Coal-Fired Power	Exxaro Resources	Project Manager & EAP
Station near Lephalale, Limpopo		
S53 Application for the Tshivasho Coal-fired Power	Cennergi	Project Manager & EAP
Station near Lephalale, Limpopo		

CONVENTIONAL POWER GENERATION PROJECTS (GAS)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ankerlig OCGT to CCGT Conversion project &400 kV	Eskom Holdings SoC Limited	Project Manager & EAP
transmission power line between Ankerlig and the		
Omega Substation, Western Cape		
Gourikwa OCGT to CCGT Conversion project & 400	Eskom Holdings SoC Limited	Project Manager & EAP
kV transmission power line between Gourikwa &		
Proteus Substation, Western Cape		
Richards Bay Gas to Power Combined Cycle Power	Eskom Holdings SoC Limited	Project Manager & EAP
Station, KwaZulu-Natal		
Richards Bay Gas to Power Plant, KwaZulu-Natal	Richards Bay Gas	Project Manager & EAP
Decommissioning & Recommissioning of 3 Gas	Eskom Holdings	Project Manager & EAP
Turbine Units at Acacia Power Station & 1 Gas		
Turbine Unit at Port Rex Power Station to the existing		
Ankerlig Power Station in Atlantis Industria, Western		
Cape		
Two 132kV Chickadee Lines to the new Zonnebloem	Eskom Holdings	Project Manager & EAP
Switching Station, Mpumalanga		

Screening Studies

Project Name & Location	Client Name	Role
Fatal Flaw Analysis for 3 area identified for the	Globeleq Advisors Limited	Project Manager & EAP
establishment of a 500MW CCGT Power Station		
Richards Bay Gas to Power Combined Cycle Power	Eskom Holdings SoC Limited	Project Manager & EAP
Station, KwaZulu-Natal		

GRID INFRASTRUCTURE PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Aggeneis-Oranjemond Transmission Line &	Eskom Transmission	Project Manager & EAP
Substation Upgrade, Northern Cape		
Ankerlig-Omega Transmission Power Lines, Western	Eskom Transmission	Project Manager & EAP
Cape		
Karoshoek Grid Integration project as part of the	FG Emvelo	Project Manager & EAP
Karoshoek Solar Valley Development East of		
Upington, Northern Cape		
Koeberg-Omega Transmission Power Lines,, Western	Eskom Transmission	Project Manager & EAP
Саре		
Koeberg-Stikland Transmission Power Lines, Western	Eskom Transmission	Project Manager & EAP
Саре		
Kyalami Strengthening Project, Gauteng	Eskom Transmission	Project Manager & EAP
Mokopane Integration Project, Limpopo	Eskom Transmission	Project Manager & EAP
Saldanha Bay Strengthening Project, Western Cape	Eskom Transmission	Project Manager & EAP
Steelpoort Integration Project, Limpopo	Eskom Transmission	Project Manager & EAP
Transmission Lines from the Koeberg-2 Nuclear	Eskom Transmission	Project Manager & EAP
Power Station site, Western Cape		
Tshwane Strengthening Project, Phase 1, Gauteng	Eskom Transmission	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Dassenberg-Koeberg Power Line Deviation from the	Eskom Holdings	Project Manager & EAP
Koeberg to the Ankerlig Power Station, Western		
Саре		
Golden Valley II WEF Power Line & Substation near	BioTherm Energy	Project Manager & EAP
Cookhouse, Eastern Cape		
Golden Valley WEF Power Line near Cookhouse,	BioTherm Energy	Project Manager & EAP
Eastern Cape		
Karoshoek Grid Integration project as part of the	FG Emvelo	Project Manager & EAP
Karoshoek Solar Valley Development East of		
Upington, Northern Cape		
Konkoonsies II PV SEF Power Line to the Paulputs	BioTherm Energy	Project Manager & EAP
Substation near Pofadder, Northern Cape		
Perdekraal West WEF Powerline to the Eskom Kappa	BioTherm Energy	Project Manager & EAP
Substation, Westnern Cape		
Rheboksfontein WEF Powerline to the Aurora	Moyeng Energy	Project Manager & EAP
Substation, Western Cape		
Soetwater Switching Station near Sutherland,	African Clean Energy	Project Manager & EAP
Northern Cape	Developments (ACED)	

Solis Power I Power Line & Switchyard Station near	Brightsource	Project Manager & EAP
Upington, Northern Cape		
Stormwater Canal System for the Ilanga CSP near	Karoshoek Solar One	Project Manager & EAP
Upington, Northern Cape		
Tsitsikamma Community WEF Powerline to the Diep	Eskom Holdings	Project Manager & EAP
River Substation, Eastern Cape		

Project Name & Location	Client Name	Role
ECO for the construction of the Ferrum-Mookodi	Trans-Africa Projects on behalf	Project Manager
Transmission Line, Northern Cape and North West	of Eskom	
EO for the construction of the Gamma-Kappa	Trans-Africa Projects on behalf	Project Manager
Section A Transmission Line, Western Cape	of Eskom	
EO for the construction of the Gamma-Kappa	Trans-Africa Projects on behalf	Project Manager
Section B Transmission Line, Western Cape	of Eskom	
EO for the construction of the Hydra IPP Integration	Trans-Africa Projects on behalf	Project Manager
project, Northern Cape	of Eskom	
EO for the construction of the Kappa-Sterrekus	Trans-Africa Projects on behalf	Project Manager
Section C Transmission Line, Western Cape	of Eskom	
EO for the construction of the Namaqualand	Trans-Africa Projects on behalf	Project Manager
Strengthening project in Port Nolloth, Western Cape	of Eskom	
ECO for the construction of the Neptune Substation	Eskom	Project Manager
Soil Erosion Mitigation Project, Eastern Cape		
ECO for the construction of the Ilanga-Gordonia	Karoshoek Solar One	Project Manager
132kV power line, Northern Cape		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Environmental Permitting and WULA for the	Eskom Holdings	Project Manager & EAP
Rockdale B Substation & Loop in Power Lines,		
Environmental Permitting and WULA for the	Eskom Holdings	Project Manager & EAP
Steelpoort Integration project, Limpopo		
Environmental Permitting for Solis CSP near Upington,	Brightsource	Project Manager & EAP
Northern Cape		

MINING SECTOR PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Elitheni Coal Mine near Indwe, Eastern Cape	Elitheni Coal	Project Manager & EAP
Groot Letaba River Development Project Borrow Pits	liso	Project Manager & EAP
Grootegeluk Coal Mine for coal transportation	Eskom Holdings	Project Manager & EAP
infrastructure between the mine and Medupi Power		
Station (EMPr amendment) , Limpopo		
Waterberg Coal Mine (EMPr amendment), Limpopo	Seskoko Resources	Project Manager & EAP
Aluminium Plant WML & AEL, Gauteng	GfE-MIR Alloys & Minerals	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Rare Earth Separation Plant in Vredendal, Western	Rareco	Project Manager & EAP
Саре		

Decommissioning and Demolition of Kilns 5 & 6 at	PPC	Project Manager & EAP
the Slurry Plant, Kwa-Zulu Natal		

Project Name & Location	Client Name	Role
ECO for the construction of the Duhva Mine Water	Eskom Holdings SoC Limited	Project Manager
Recovery Project, Mpumalanga		
External compliance audit of Palesa Coal Mine's	HCI Coal	Project Manager
Integrated Water Use License (IWUL), near		
KwaMhlanga, Mpumalanga		
External compliance audit of Palesa Coal Mine's	HCI Coal	Project Manager
Waste Management License (WML) and EMP, near		
KwaMhlanga, Mpumalanga		
External compliance audit of Mbali Coal Mine's	HCI Coal	Project Manager
Integrated Water Use License (IWUL), near Ogies,		
Mpumalanga		
Independent External Compliance Audit of Water	Tronox Namakwa Sands	Project Manager
Use License (WUL) for the Tronox Namakwa Sands		
(TNS) Mining Operations (Brand se Baai), Western		
Саре		
Independent External Compliance Audit of Water	Tronox Namakwa Sands	Project Manager
Use License (WUL) for the Tronox Namakwa Sands		
(TNS) Mineral Separation Plant (MSP), Western Cape		
Independent External Compliance Audit of Water	Tronox Namakwa Sands	Project Manager
Use License (WUL) for the Tronox Namakwa Sands		
(TNS) Smelter Operations (Saldanha), Western Cape		
Compliance Auditing of the Waste Management	PetroSA	Project Manager
Licence for the PetroSA Landfill Site at the GTL		
Refinery, Western Cape		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Waste Licence Application for the Rare Earth	Rareco	Project Manager & EAP
Separation Plant in Vredendal, Western Cape		
WULA for the Expansion of the Landfill site at Exxaro's	Exxaro Resources	Project Manager & EAP
Namakwa Sands Mineral Separation Plant, Western		
Саре		
S24G & WML for an Aluminium Plant, Gauteng	GfE-MIR Alloys & Minerals	Project Manager & EAP

INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, ROADS, WATER RESOURCES, STORAGE, ETC)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Bridge across the Ngotwane River, on the border of	Eskom Holdings	Project Manager & EAP
South Africa and Botswana		
Chemical Storage Tanks, Metallurgical Plant	Goldfields	Project Manager & EAP
Upgrade & Backfill Plant upgrade at South Deep		
Gold Mine, near Westornaria, Gauteng		
Expansion of the existing Welgedacht Water Care	ERWAT	Project Manager & EAP
Works, Gauteng		

Project Name & Location	Client Name	Role
Golden Valley WEF Access Road near Cookhouse,	BioTherm Energy	Project Manager & EAP
Eastern Cape		
Great Fish River Wind Farm Access Roads and	African Clean Energy	Project Manager & EAP
Watercourse Crossings near Cookhouse, Eastern	Developments (ACED)	
Саре		
Ilanga CSP Facility Watercourse Crossings near	Karoshoek Solar one	Project Manager & EAP
Upington, Northern Cape		
Modification of the existing Hartebeestfontein Water	ERWAT	Project Manager & EAP
Care Works, Gautng		
N10 Road Realignment for the Ilanga CSP Facility,	SANRAL	Project Manager & EAP
East of Upington, Northern Cape		
Nxuba (Bedford) Wind Farm Watercourse Crossings	African Clean Energy	Project Manager & EAP
near Cookhouse, Eastern Cape	Developments (ACED)	
Pollution Control Dams at the Medupi Power Station	Eskom	Project Manager & EAP
Ash Dump & Coal Stockyard, Limpopo		
Qoboshane borrow pits (EMPr only), Eastern Cape	Emalahleni Local Municipality	Project Manager & EAP
Tsitsikamma Community WEF Watercourse Crossings,	Cennergi	Project Manager & EAP
Eastern Cape		
Clayville Central Steam Plant, Gauteng	Bellmall Energy	Project Manager & EAP
Msenge Emoyeni Wind Farm Watercourse Crossings	Windlab	Project Manager & EAP
and Roads, Eastern Cape		

Basic Assessments

Project Name & Location	Client Name	Role
Harmony Gold WWTW at Doornkop Mine, Gauteng	Harmony Doornkop Plant	Project Manager & EAP
Ofir-ZX Watercourse Crossing for the Solar PV Facility,	Networx S28 Energy	Project Manager & EAP
near Keimoes, Northern Cape		
Qoboshane bridge & access roads, Eastern Cape	Emalahleni Local Municipality	Project Manager & EAP
Relocation of the Assay Laboratory near	Sibanye Gold	Project Manager & EAP
Carletonville, Gauteng		
Richards Bay Harbour Staging Area, KwaZulu-Natal	Eskom Holdings	Project Manager & EAP
S-Kol Watercourse Crossing for the Solar PV Facility,	Networx S28 Energy	Project Manager & EAP
East of Keimoes, Northern Cape		
Sonnenberg Watercourse Crossing for the Solar PV	Networx \$28 Energy	Project Manager & EAP
Facility, West Keimoes, Northern Cape		
Kruisvallei Hydroelectric Power Generation Scheme,	Building Energy	Project Manager & EAP
Free State		
Masetjaba Water Reservoir, Pump Station and Bulk	Naidu Consulting Engineers	Project Manager & EAP
Supply Pipeline near Nigel, Gauteng		
Access Road for the Dwarsug Wind Farm, Northern	South Africa Mainsteam	Project Manager & EAP
Cape Province	Renewable Power	
Upgrade of the Cooling Water Treatment Facility at	Eskom	Project Manager & EAP
the Kriel Power Station, Mpumalanga		

Screening Studies

Project Name & Location	Client Name	Role
Roodepoort Open Space Optimisation Programme	TIMAC Engineering Projects	Project Manager & EAP
(OSOP) Precinct, Gauteng		
Vegetable Oil Plant and Associated Pipeline, Kwa-	Wilmar Oils and Fats Africa	Project Manager & EAP
Zulu Natal		

Project Name & Location	Client Name	Role
ECO and bi-monthly auditing for the construction of	Department of Water and	Project Manager
the Olifants River Water Resources Development	Sanitation	Auditor
Project (ORWRDP) Phase 2A: De Hoop Dam, R555		
realignment and housing infrastructure		
ECO for the Rehabilitation of the Blaaupan & Storm	Airports Company of South	Project Manager
Water Channel, Gauteng	Africa (ACSA)	
Due Diligence reporting for the Better Fuel Pyrolysis	Better Fuels	Project Manager
Facility, Gauteng		
ECO for the Construction of the Water Pipeline from	Transnet	Project Manager
Kendal Power Station to Kendal Pump Station,		
Mpumalanga		
ECO for the Replacement of Low-Level Bridge,	South African National	Project Manager
Demolition and Removal of Artificial Pong, and	Biodiversity Institute (SANBI)	
Reinforcement the Banks of the Crocodile River at		
the Construction at Walter Sisulu National Botanical		
Gardens, Gauteng Province		
External Compliance Audit of the Air Emission	PetroSA	Project Manager
Licence (AEL) for a depot in Bloemfontein, Free		
State Province and in Tzaneen, Mpumalanga		
Province		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
WULA for the Izubulo Private Nature Reserve,	Kjell Bismeyer, Jann Bader,	Project Manager & EAP
Limpopo	Laurence Saad	
WULA for the Masodini Private Game Lode, Limpopo	Masodini Private Game Lodge	Environmental Advisor
WULA for the Ezulwini Private Nature Reserve,	Ezulwini Investments	Project Manager & EAP
Limpopo		
WULA for the Masodini Private Game Lode, Limpopo	Masodini Private Game Lodge	Project Manager & EAP
WULA for the N10 Realignment at the Ilanga SEF,	Karoshoek Solar One	Project Manager & EAP
Northern Cape		
WULA for the Kruisvallei Hydroelectric Power	Building Energy	Project Manager & EAP
Generation Scheme, Free State		
S24G and WULA for the llegal construction of	Sorror Language Services	Project Manager & EAP
structures within a watercourse on EFF 24 Ruimsig		
Agricultural Holdings, Gauteng		

HOUSING AND URBAN PROJECTS

Basic Assessments

Project Name & Location	Client Name	Role
Postmasburg Housing Development, Northern Cape	Transnet	Project Manager & EAP

Compliance Advice and reporting

Project Name & Location	Client Name	Role
Kampi ya Thude at the Olifants West Game Reserve,	Nick Elliot	Environmental Advisor
Limpopo		

Project Name & Location	Client Name	Role
External Compliance Audit of WUL for the	Johannesburg Country Club	Project Manager
Johannesburg Country Club, Gauteng		

Project Name & Location	Client Name	Role
Due Diligence Audit for the Due Diligence Audit	Delta BEC (on behalf of	Project Manager
Report, Gauteng	Johannesburg Development	
	Agency (JDA))	

ENVIRONMENTAL MANAGEMENT TOOLS

Project Name & Location	Client Name	Role
Development of the 3rd Edition Environmental	Gauteng Department of	Project Manager & EAP
Implementation Plan (EIP)	Agriculture and Rural	
	Development (GDARD)	
Development of Provincial Guidelines on 4x4 routes,	Western Cape Department of	EAP
Western Cape	Environmental Affairs and	
	Development Planning	
Compilation of Construction and Operation EMP for	Eskom Holdings	Project Manager & EAP
the Braamhoek Transmission Integration Project,		
Kwazulu-Natal		
Compilation of EMP for the Wholesale Trade of	Munaca Technologies	Project Manager & EAP
Petroleum Products, Gauteng		
Operational Environmental Management	Eskom Holdings	Project Manager & EAP
Programme (OEMP) for Medupi Power Station,		
Limpopo		
Operational Environmental Management	Dube TradePort Corporation	Project Manager & EAP
Programme (OEMP) for the Dube TradePort Site		
Wide Precinct		
Operational Environmental Management	Eskom Holdings	Project Manager & EAP
Programme (OEMP) for the Kusile Power Station,		
Mpumalanga		
Review of Basic Assessment Process for the	Exxaro Resources	Project Manager & EAP
Wittekleibosch Wind Monitoring Mast, Eastern Cape		
Revision of the EMPr for the Sirius Solar PV	Aurora Power Solutions	Project Manager & EAP
State of the Environment (SoE) for Emalahleni Local	Simo Consulting on behalf of	Project Manager & EAP
Municipality, Mpumalanga	Emalahleni Local Municipality	
Aspects and Impacts Register for Salberg Concrete	Salberg Concrete Products	EAP
Products operations		
First State of Waste Report for South Africa	Golder on behalf of the	Project Manager & EAP
	Department of Environmental	
	Affairs	
Responsibilities Matrix and Gap Analysis for the	Building Energy	Project Manager
Kruisvallei Hydroelectric Power Generation Scheme,		
Free State Province		
Responsibilities Matrix and Gap Analysis for the	Building Energy	Project Manager
Roggeveld Wind Farm, Northern & Western Cape		
Provinces		

PROJECTS OUTSIDE OF SOUTH AFRICA

Project Name & Location	Client Name	Role
Advisory Services for the Zizabona Transmission	PHD Capital	Advisor
Project, Zambia, Zimbabwe, Botswana & Namibia		
EIA for the Semonkong WEF, Lesotho	MOSCET	Project Manager & EAP
EMP for the Kuvaninga Energia Gas Fired Power	ADC (Pty) Ltd	Project Manager & EAP
Project, Mozambique		
Environmental Screening Report for the SEF near	Building Energy	EAP
Thabana Morena, Lesotho		
EPBs for the Kawambwa, Mansa, Mwense and	Building Energy	Project Manager & EAP
Nchelenge SEFs in Luapula Province, Zambia		
ESG Due Diligence for the Hilton Garden Inn	Vatange Capital	Project Manager
Development in Windhoek, Namibia		
Mandahill Mall Rooftop PV SEF EPB, Lusaka, Zambia	Building Energy	Project Manager & EAP
Monthly ECO for the PV Power Plant for the Mocuba	Scatec	Project Manager
Power Station		

APPENDIX B: ADVERTISEMENT OF SUBMISSION OF THE AUDIT REPORT

NOTICE OF EXTERNAL COMPLIANCE AUDIT (SECTION 54) PUBLIC PARTICIPATION PROCESS: 75MW SOLAR ENERGY FACILITY, WOLMARANSSTAD, NORTH WEST PROVINCE

DEA Reference(s): 14/12/16/3/3/2/716;

Activity: The proposed Wolmaransstad Solar Energy facility consists of photovoltaic (PV) panels with a capacity of up to 75MW and a proposed height of up to 4m, utilising tracking technology and other associated infrastructure. The pv panel development footprint will be approximately 270 ha in extent. Environmental Authorisation for this project was issued by the Department of Environmental Affairs (DEA) in July 2015. No activities related to the construction of the facility has commenced to date.

The property affected by the proposed facility is located on Remainder of Portion 2 of the Farm Wolmaransstad and Townlands 184 Maquassi Hills Local Municipality and Dr Kenneth Kaunda District Municipality, North West Province.

External Compliance Audit: In terms of Section 54(A)(3) of the EIA Regulations 2014 of GNR 326, Independent External Compliance Audits ("S54 Audit") are required to verify compliance towards the Environmental Management Programmes (EMPr) for the project. This advertisement hereby notifies all potential and registered interested and affected parties, including organs of state with applicable jurisdiction as well as the competent authority, of the submission of the external compliance audit report to the competent authority. The report is available at https://www.savannahsa.com/public-documents/other/ for 14 days from date of publication.

Please direct any queries, information requests or comments to the DEA compliance directorate, at the following: **Department of Environmental Affairs (DEA) Legal Authorisations and Compliance Inspectorate** E-mail: <u>compliance@environment.gov.za</u> APPENDIX C: NOTIFICATION TO REGISTERED I&APS OF SUBMISSION OF THE AUDIT REPORT



Savannah Environmental (Pty) Ltd | Directors: KM Jodas, J Thomas, M Matsabu Company Reg No.: 2006/000127/07 VAT Reg No.: 4780226736

04 December 2019

Dear Registered Interested and Affected Party,

NOTICE OF AN EXTERNAL COMPLIANCE AUDIT (SECTION 54) AND PUBLIC PARTICIPATION PROCESS: 75MW WOLMARANSSTAD SOLAR ENERGY FACILITY, WOLMARANSSTAD, NORTHEN WEST PROVINCE

Notification of Submission of Section 54(A)(3) Audit Reports to the Competent Authority

Development of the 75 MW Solar Energy Facility associated infrastructure located at Wolmaransstad which is located within Maquassi Hills Local Municipality and Dr Kenneth Kaunda District Municipality, North West Province has reference:

Environmental Authorisation for this project was issued by the Department of Environmental Affairs (DEA) in July 2015 (DEA Ref: 14/12/16/3/3/2/716). No activities related to the construction of the facility or related infrastructure has commenced to date.

The property affected by the proposed PV facility is the Remainder of Portion 2 of the Farm Wolmaransstad and Townlands 184, Maquassi Hills Local Municipality and Dr Kenneth Kaunda District Municipality.

In terms of Section 54(A)(3) of the EIA Regulations 2014 of GNR 326, Independent External Compliance Audits ("S54 Audit") are required to verify compliance towards the Environmental Management Programmes (EMPr) for the project. This advertisement hereby notifies all potential and registered interested and affected parties, including organs of state with applicable jurisdiction as well as the competent authority, of the submission of the external compliance audit report to the competent authority. The report is available at https://www.savannahsa.com/public-documents/other/ for 14 days from date of this notification.

Please direct any queries, information requests or comments to the DEA compliance directorate, at the following:

Department of Environmental Affairs (DEA) Legal Authorisations and Compliance Inspectorate E-mail: <u>compliance@environment.gov.za</u>

Kind regards

Nicolene Venter Public Participation and Social Consultant Email: publicprocess@savannahsa.com

+27 (0)11 656 3237
 +27 (0)86 684 0547
 info@savannahsa.com
 www.savannahsa.com
 First Floor, Block 2, 5 Woodlands Drive Office Park, Cnr Woodlands Drive & Western Service Road, Woodmead, 2191

APPENDIX D: CONFIRMATION LETTER ON CURRENT STATUS OF THE PROJECT BlueWave Capital SA (Pty) Ltd Registration Number: 2012/214431/07 Unit EB05 Tannery Park, 23 Belmont Rd Rondebosch, Cape Town, 7700 +27 (0)21 6851648 wcowie@bluewavesolar.com



27 November 2019

Department of Environmental Affairs Private Bag X447 Pretoria 0001

Dear Sir/Madam,

PROPOSED 75MW SOLAR FACILITY NEAR WOLMARANSSTAD, NORTH WEST PROVINCE

DEA Ref: 14/12/16/3/3/2/716

CONFIRMATION OF NO CONSTRUCTION ACTIVITIES

BlueWave Capital SA (Pty) Ltd as holder of the Environmental Authorisation (DEA Ref: 14/12/16/3/3/2/716) for the proposed 75MW solar energy facility near Wolmaransstad in the North West Province, hereby confirms that no construction or related activity has commenced on the site.

Kind regards

Wayne Cowie Director: BlueWave Capital SA (Pty) Ltd.