

## CURRICULUM VITAE OF MMAKOENA MMOLA

<b>Profession :</b>	Environmental Assessment Practitioner
<b>Specialisation:</b>	Environmental Permitting, Environmental Assessments, and Compliance
<b>Work Experience:</b>	3.5 years

### VOCATIONAL EXPERIENCE

Mmakoena is an Environmental Consultant with 3.5 years of experience in the environmental field. She holds a B.Sc. (Hons) in Geochemistry from the University of the Witwatersrand and is currently completing her B.Sc. (Hons) in Environmental Management with the University of South Africa.

Mmakoena's experience includes undertaking environmental permitting and environmental authorisation applications, compiling basic assessment reports, scoping and environmental impact assessment reports and environmental management programmes, executing the public participation process, undertaking environmental compliance audits, providing environmental control officer services, conducting environmental screening assessments, managing sub-consultants, project management and preparing proposals and budgets in response to requests for quotations.

### SKILLS BASE AND CORE COMPETENCIES

- Well-developed communication and report writing skills
- Adaptability and ability to handle pressure
- Organisational skills
- Ability to build and maintain client relationships
- Loyalty, dedication and dependability
- Ability to coordinate and synthesize environmental information
- Ability to work to tight deadlines and on multiple projects
- Thorough knowledge of environmental legislation and the environmental impact assessment process
- Quality focus and attention to detail
- Ability to deliver high quality work to agreed budgets
- MS Office Package (Word, PowerPoint and Excel)
- Adobe Acrobat
- Google Earth
- ArcGIS

## EDUCATION AND PROFESSIONAL STATUS

### Degrees:

- Bachelor of Science (Hons) Environmental Management, in progress, University of South Africa
- Bachelor of Science (Hons) Geochemistry, 2016, University of the Witwatersrand
- Bachelor of Science Geology, 2015, University of the Witwatersrand

### Short Courses:

- Environmental Management and Regulations, 2018, Kuvimbika
- Research Methodology and Report Writing, 2017, Imsimbi Training

### Professional Society Affiliations:

- Candidate Natural Scientist, Environmental Science, South African Council for Natural and Scientific Professions – Registration Number: 126748

## EMPLOYMENT

Date	Company	Roles and Responsibilities
2021 - Current:	Savannah Environmental (Pty) Ltd	<i>Environmental Consultant</i> <u>Tasks include:</u> <ul style="list-style-type: none"><li>• Undertake environmental permitting, environmental authorisation applications, and compliance advice and assurance.</li><li>• Efficient and quality report writing to execute and manage the delivery of environmental impact assessment (EIA) reports and Environmental Management Programmes in line with the requirements of the National Environmental Management Act and EIA Regulations.</li><li>• Liaison with relevant environmental authorities, site visits and execution of public participation.</li><li>• Professional client liaison.</li><li>• Manage third parties or sub-consultants to which functions have been outsourced.</li><li>• Preparation of proposals and budgets.</li><li>• Undertake the public participation process.</li></ul>
2019 - 2020	Golder Associates Africa (Pty) Ltd	<i>Junior Environmental Consultant</i> <u>Tasks included:</u> <ul style="list-style-type: none"><li>• Water use license applications</li><li>• Environmental compliance and water use license audits</li><li>• Environmental control officer services</li><li>• Annual integrated water and waste management plan updates</li><li>• Assist with wetland assessments</li><li>• Assist with mine closure and rehabilitation plans</li><li>• Liaise with clients and competent authorities</li></ul>

Date	Company	Roles and Responsibilities
		<ul style="list-style-type: none"> <li>• Provide assistance on local environmental and social impact assessments</li> <li>• Undertake site visits</li> <li>• Compile environmental reports</li> <li>• Generate environmental screening reports</li> <li>• Undertake administrative tasks</li> </ul>
2017 - 2019	Shango Solutions	<p>Junior Consultant</p> <p>Tasks included:</p> <ul style="list-style-type: none"> <li>• Conduct environmental compliance and financial provision audits for prospecting sites as per the MPRDA</li> <li>• Environmental authorisation applications</li> <li>• Prospecting right and mining permit applications</li> <li>• Basic assessment reports</li> <li>• Environmental management programmes/plans</li> <li>• Execute the public participation process</li> <li>• Section 102 amendment applications as per the MPRDA</li> <li>• Prepare maps</li> <li>• Liaise with sub-consultants/specialists</li> <li>• Undertake administrative tasks</li> </ul>

## PROJECT EXPERIENCE

### RENEWABLE POWER GENERATION PROJECTS: SOLAR ENERGY FACILITIES AND WIND ENERGY FACILITIES

#### **Environmental Impact Assessments and Environmental Management Programmes**

Project Name & Location	Client Name	Role
700MW (7x 100MW) Mutsho Solar PV, Limpopo Province (project in progress)	CRI Eagle	EAP
Angora Wind Energy Facility, Northern Cape Province (project in progress)	Great Karoo Renewable Energy (Pty) Ltd	EAP
Merino Wind Energy Facility, Northern Cape Province (project in progress)	Great Karoo Renewable Energy (Pty) Ltd	EAP
Vrede and Rondavel Solar PV Facilities, Free State Province	Mainstream Renewable Energy Developments (Pty) Ltd	Assistant EAP

#### **Basic Assessments**

Project Name & Location	Client Name	Role
Northam Solar Photovoltaic (PV) Facility, Limpopo Province	Northam Platinum Limited	EAP
Hamlett Wind Energy Facility, Eastern Cape Province (project in progress)	Hamlett (Pty) Ltd	EAP

#### **Screening Studies**

Project Name & Location	Client Name	Role
Environmental Screening for the Proposed Secunda and Sasolburg Solar PV Facilities, Free State Province and Mpumalanga Province	The SOLA Group	EAP

**Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Biodiversity Permitting and General Authorisation Applications for the Harmony Tshepong, Nyala and Eland Solar PV Facilities, Free State Province	Nyala Photovoltaic (Pty) Ltd Tshepong Photovoltaic (Pty) Ltd Eland Photovoltaic (Pty) Ltd	EAP
General Authorisation Application for the Northam Solar PV Facility, Limpopo Province	Northam Platinum Limited	EAP

**Environmental Authorisation Amendment Applications**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Part I Amendment: Proposed 75MW Sannaspos PV Plant (Phase 1) and its associated infrastructure, Free State Province	ENGIE BU Africa	EAP
Part I Amendment: Construction of the 140MW Korana Wind Energy Facility, Northern Cape Province	Mainstream Renewable Energy Developments (Pty) Ltd	EAP
Part I Amendment: Construction of the 75MW Korana Solar Energy Facility, Northern Cape Province	Mainstream Renewable Energy Developments (Pty) Ltd	EAP
Part I Amendment: Construction of the 140MW Khai-Ma Wind Energy Facility, Northern Cape Province	Mainstream Renewable Energy Developments (Pty) Ltd	EAP

**GRID INFRASTRUCTURE PROJECTS****Basic Assessments**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Electrical Grid Infrastructure for the Kolkies and Sadawa PV clusters, Western Cape Province	Mainstream Renewable Energy Developments (Pty) Ltd	EAP
Electrical Grid Infrastructure for the Vrede and Rongava Solar PV Facilities, Free State Province	Mainstream Renewable Energy Developments (Pty) Ltd	EAP
Sadawa Collector Substation, Western Cape Province	Mainstream Renewable Energy Developments (Pty) Ltd	EAP
Main Transmission Substation (MTS) associated with the Choje Wind Farm cluster, Eastern Cape Province (project in progress)	Wind Relic (Pty) Ltd	EAP

**Environmental Authorisation Amendment Applications**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Part I Amendment: Construction of a 132kV power lines associated with the Poortjies Wind Energy Facility, Northern Cape Province	Mainstream Renewable Energy Developments (Pty) Ltd	EAP
Part I Amendment: Construction of a 132kV power lines associated with the Khai-Ma Wind Energy Facility, Northern Cape Province	Mainstream Renewable Energy Developments (Pty) Ltd	EAP

## **GAS EXPLORATION PROJECTS**

### **Environmental Impact Assessments and Environmental Management Programmes**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
<i>Kroonstad Gas Exploration Right and Environmental Authorisation, Free State Province</i>	<i>Western Allen Ridge Gold Mines (Pty) Ltd</i>	<i>Assistant EAP and Public Participation Consultant</i>

## **MINING PROJECTS**

### **Environmental Impact Assessments and Environmental Management Programmes**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
<i>Pure Source Mine Mining Right Application, Free State Province</i>	<i>Monte Cristo Commercial Park (Pty) Ltd</i>	<i>Assistant EAP and Public Participation Consultant</i>

### **Basic Assessments**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
<i>Basic Assessment for the Western Margin Gap West Prospecting Right, Free State Province</i>	<i>White Rivers Exploration (Pty) Ltd</i>	<i>Assistant EAP</i>
<i>Basic Assessment for the Ventersburg Consolidated Prospecting Right, Free State Province</i>	<i>White Rivers Exploration (Pty) Ltd</i>	<i>Assistant EAP</i>
<i>Basic Assessment for the Nkuzana Prospecting Right, KwaZulu-Natal Province</i>	<i>WRE Base Metals (Pty) Ltd</i>	<i>Junior EAP</i>
<i>Basic Assessment for the Kroonstad North Prospecting Right, Free State Province</i>	<i>White Rivers Exploration (Pty) Ltd</i>	<i>Junior EAP</i>
<i>Basic Assessment for the Vredefort West Extension Prospecting Right, Free State Province</i>	<i>White Rivers Exploration (Pty) Ltd</i>	<i>Junior EAP</i>
<i>Basic Assessment for the Beisa North Prospecting Right, Free State Province</i>	<i>Sunshine Mineral Reserves (Pty) Ltd</i>	<i>EAP</i>
<i>Basic Assessment for the Palmietfontein Mining Permit, North-West Province</i>	<i>Palm Chrome (Py) Ltd</i>	<i>Assistant EAP</i>

### **Specialist Studies**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
<i>New Largo Mine Closure and Rehabilitation Plan, Mpumalanga Province</i>	<i>Seriti Coal</i>	<i>Junior Environmental Consultant</i>
<i>Smarty Minerals Integrated Environmental Authorisation: Wetland Impact Assessment Report, Limpopo Province</i>	<i>Smarty Minerals Investment (Pty) Ltd</i>	<i>Junior Environmental Consultant</i>
<i>Glencore Water Treatment Plant Pipeline: Wetland Monitoring, Mpumalanga Province</i>	<i>Glencore</i>	<i>Junior Environmental Consultant</i>

### **Environmental Compliance, Auditing and ECO**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
<i>Glencore Merafe Wonderkop Smelter, Regulation 34 Audit, North West Province</i>	<i>Glencore</i>	<i>Auditor</i>
<i>Tshipi Borwa Mine Water Use Licence Audit, Northern Cape Province</i>	<i>Tshipi Borwa Mine</i>	<i>Auditor</i>
<i>Samancor Middelburg Ferrochrome: Construction of ore dryer, Mpumalanga Province</i>	<i>Samancor Middelburg Ferrochrome</i>	<i>ECO</i>
<i>Various Annual Financial Provision and Environmental Compliance Audits for prospecting</i>	<i>White River's Exploration (Pty) Ltd</i>	<i>Auditor</i>

sites as per the MPRDA, Free State and KwaZulu-Natal Province		
Impala Platinum Limited – Springs annual external Water Use Licence Audit, Gauteng Province	Impala Platinum Limited	Auditor

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

#### **Specialist Studies**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Closure cost model estimate and closure cost report for the Proposed Surface Pipeline and Associated Infrastructure, Gauteng Province	AngloGold Ashanti	Junior Environmental Consultant
Wetland Impact Assessment report for Proposed Surface Pipeline and Associated Infrastructure, Gauteng Province	AngloGold Ashanti	Junior Environmental Consultant

#### **Environmental Compliance, Auditing and ECO**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
MWCAP-2A Environmental Management Audit, Limpopo Province	Nexia SAB&T	Auditor

### **AGRICULTURE PROJECTS**

#### **Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Dew Crisp Water Use Licence Application, Gauteng Province	Dew Crisp (Pty) Ltd	Junior Environmental Consultant (providing assistance)

### **OTHER**

#### **Environmental Impact Assessments and Environmental Management Programmes**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Anglo African Metals Zero Waste Recovery Solution, Mpumalanga Province	Anglo African Metals (Pty) Ltd	EAP
Eskom Majuba Landfill, Mpumalanga Province (project in progress)	Eskom	EAP

## CURRICULUM VITAE OF JO-ANNE THOMAS

<b>Profession:</b>	Environmental Management and Compliance Consultant; Environmental Assessment Practitioner
<b>Specialisation:</b>	Environmental Management; Strategic environmental advice; Environmental compliance advice & monitoring; Environmental Impact Assessments; Policy, strategy & guideline formulation; Project Management; General Ecology
<b>Work experience:</b>	Twenty four (24) 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 EAP with the Environmental Assessment Practitioners Association of South Africa (EAPASA) (2019/726)
- Registered with the South African Council for Natural Scientific Professions as a Professional Natural Scientist: Environmental Scientist (400024/00)
- Registered with the International Association 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



<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Karoshhoek CPV facility on site 2 as part of the larger Karoshhoek Solar Valley Development East of Upington, Northern Cape	FG Emvelo	Project Manager & EAP
Kgabalatsane SEF North-East for Brits, North West	Built Environment African Energy Services	Project Manager & EAP
Kleinbegin PV SEF West of Groblershoop, Northern Cape	MedEnergy Global	Project Manager & EAP
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, Free State	SolaireDirect Southern Africa	Project Manager & EAP
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 West	FRV Energy South Africa	Project Manager & EAP
Alldays PV & CPV SEF Phase 1, Limpopo	BioTherm Energy	Project Manager & EAP
Hyperion PV Solar Development 1, 2, 3, 4, 5 & 6, Northern Cape	Building Energy	Project Manager & EAP
Vrede & Rondavel PV, Free State	Mainstream Renewable Energy Developments	Project Manager & EAP

#### **Basic Assessments**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Aberdeen PV SEF, Eastern Cape	BioTherm Energy	Project Manager & EAP
Christiana PV 1 SEF on Hartebeestpan Farm, North-West	Solar Reserve South Africa	Project Manager & EAP
Heuningspruit PV1 & PV 2 facilities near Koppies, Free State	Sun Mechanics	Project Manager & EAP
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, National	Airports Company South Africa (ACSA)	Project Manager & EAP
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

Project Name & Location	Client Name	Role
Sannaspos PV SEF Phase 2 near Bloemfontein, Free State	SolaireDirect Southern Africa	Project Manager & EAP
Solar Park Expansion within the Rooiwal Power Station, Gauteng	AFRKO Energy	Project Manager & EAP
Steynsrus SEF, Free State	SunCorp	Project Manager & EAP
Sirius Solar PV Project Three and Sirius Solar PV Project Four (BA in terms of REDZ regulations), Northern Cape	SOLA Future Energy	Project Manager & EAP
Northam PV, Limpopo Province	Northam Platinum	Project Manager & EAP
Kolkies PV Suite (x 6 projects) and Sadawa PV Suite (x 4 projects), Western Cape	Mainstream Renewable Energy Developments	Project Manager & EAP

### Screening Studies

Project Name & Location	Client Name	Role
Allemans Fontein SEF near Noupoot, Northern Cape	Fusion Energy	Project Manager & EAP
Amandel SEF near Thabazimbi, Limpopo	iNca Energy	Project Manager & EAP
Arola/Doomplaat SEF near Ventersdorp, North West	FRV & iNca Energy	Project Manager & EAP
Bloemfontein Airport PV Installation, Free State	The Power Company	Project Manager & EAP
Brakspuit SEF near Klerksorp, North West	FRV & iNca Energy	Project Manager & EAP
Carolus Poort SEF near Noupoot, Northern Cape	Fusion Energy	Project Manager & EAP
Damfontein SEF near Noupoot, Northern Cape	Fusion Energy	Project Manager & EAP
Everest SEF near Welkom, Free State	FRV & iNca Energy	Project Manager & EAP
Gillmer SEF near Noupoot, 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, Gauteng	Momentous Energy	Project Manager & EAP
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, Northern Cape	Solar Reserve South Africa	Project Manager & EAP
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
Upington Airport 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 the Adams Solar PV Project Two South of Hotazel,	Enel Green Power	Project Manager

Project Name & Location	Client Name	Role
Northern Cape		
ECO for the construction of the Kathu PV Facility, Northern Cape	REISA	Project Manager
ECO and bi-monthly auditing for the construction of the Pulida PV Facility, Free State	Enel Green Power	Project Manager
ECO for the construction of the RustMo1 SEF, North West	Momentous Energy	Project Manager
ECO for the construction of the Sishen SEF, Northern Cape	Windfall 59 Properties	Project Manager
ECO for the construction of the Upington Airport PV Facility, Northern Cape	Sublary Trading	Project Manager
Quarterly compliance monitoring of compliance with all environmental licenses for the operation activities at the Kathu PV facility, Northern Cape	REISA	Project Manager
ECO for the construction of the Konkoonsies II PV SEF and associated infrastructure, Northern Cape	BioTherm Energy	Project Manager
ECO for the construction of the Aggeneys PV SEF and associated infrastructure, Northern Cape	BioTherm Energy	Project Manager

#### 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	Engle	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 Cape	MedEnergy	Environmental Advisor
Konkoonsies 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, Northern Cape	African Clean Energy Developments (ACED)	Environmental Advisor
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	Sublary Trading	Environmental Advisor
Upington SEF, Northern Cape	Abengoa Solar	Environmental Advisor
Ofir-ZX PV SEF near Keimoes, Northern Cape	Network S28 Energy	Environmental Advisor
Environmental Permitting for the Steynsrus PV1 & PV2 SEF's, Northern Cape	Cronimet Power Solutions	Environmental Advisor
Environmental Permitting for the 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 Cape	Aurora Power Solutions	Environmental Advisor

**Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications**

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

**RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)**

**Environmental Impact Assessments and Environmental Management Programmes**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Ilanga CSP 2, 3, 4, 5, 7 & 9 Facilities near Upington, Northern Cape	Emvelo Holdings	Project Manager & EAP
Ilanga CSP near Upington, Northern Cape	Ilangethu Energy	Project Manager & EAP

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

#### Environmental Compliance, Auditing and ECO

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

#### Screening Studies

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

#### Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
Ilanga CSP Facility near Upington, Northern Cape	Ilangethu Energy	Environmental Advisor
Ilangalethu 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, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Environmental Permitting for the Ilanga CSP Facility near Upington, Northern Cape	Ilangethu Energy	Project Manager & EAP
Environmental Permitting for the Kathu CSP, Northern Cape	GDF Suez	Project Manager & EAP
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**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Sere WEF, Western Cape	Eskom Holdings SoC Limited	EAP
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 Cape	iNca Energy	Project Manager & EAP
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 area, Western Cape	BioTherm Energy	Project Manager & EAP
Moorreesburg WEF, Western Cape	iNca Energy	Project Manager & EAP
Oyster Bay WEF, Eastern Cape	Renewable Energy Resources Southern Africa	Project Manager & EAP
Project Blue WEF, Northern Cape	Windy World	Project Manager & EAP
Rhebokfontein WEF, Western Cape	Moyeng Energy	Project Manager & EAP
Spitskop East WEF near Riebeeck East, Eastern Cape	Renewable Energy Resources Southern Africa	Project Manager & EAP
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**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Amakhala Emoyeni Wind Monitoring Masts, Eastern Cape	Windlab Developments	Project Manager & EAP
Beaufort West Wind Monitoring Masts, Western Cape	Umoya Energy	Project Manager & EAP
Hopefield Community Wind Farm near Hopefield, Western Cape	Umoya Energy	Project Manager & EAP
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 Cape	Umoya Energy	Project Manager & EAP
Overberg Area Wind Monitoring Masts, Western Cape	BioTherm Energy	Project Manager & EAP
Oyster Bay Wind Monitoring Masts, Eastern Cape	Renewable Energy Systems Southern Africa (RES)	Project Manager & EAP
Wind Garden & Fronteer WEFs, Eastern Cape	Wind Relc	Project Manager & EAP

### **Screening Studies**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
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

Project Name & Location	Client Name	Role
Various WEFs within an identified area in the Overberg area, Western Cape	BioTherm Energy	Project Manager & EAP
Various WEFs within an identified area on the West Coast, Western Cape	Investec Bank Limited	Project Manager & EAP
Various WEFs within an identified area on the West Coast, Western Cape	Eskom Holdings Limited	Project Manager & EAP
Various WEFs within the Western Cape	Western Cape Department of Environmental Affairs and Development Planning	Project Manager & EAP
Velddrift WEF, Western Cape	VentuSA Energy	Project Manager & EAP
Wind 1000 Project	Thabo Consulting on behalf of Eskom Holdings	Project Manager & EAP
Wittekleibosch, Snylip & Doriskraal WEFs, Eastern Cape	Exxarro Resources	Project Manager & EAP

#### Environmental Compliance, Auditing and ECO

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

#### Compliance Advice

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

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**

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

#### **Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Biodiversity Permitting for the Power Line between the Tsitsikamma Community WEF & the Diep River Substation, Eastern Cape	Cennergi	Project Manager & EAP
Biodiversity Permitting for the West Coast One WEF, Western Cape	Aurora Wind Power	Project Manager & EAP
Environmental Permitting for the Excelsior WEF, Western Cape	BioTherm Energy	Project Manager & EAP
Plant Permits & WULA for the Tsitsikamma Community WEF, Eastern Cape	Cennergi	Project Manager & EAP
S24G and WULA for the Rectification for the commencement of unlawful activities on Ruimsig AH in Honeydew, Gauteng	Hossam Soror	Project Manager & EAP
S24G Application for the Rheboksfontein WEF, Western Cape	Ormonde - Theo Basson	Project Manager & EAP
S53 Application & WULA for Suurplaat and Gemini WEFs, Northern Cape	Engie	Project Manager & EAP
S53 Application for the Hopefield Community Wind Farm near Hopefield, Western Cape	Umoya Energy	Project Manager & EAP
S53 Application for the Project Blue WEF, Northern Cape	WWK Developments	Project Manager & EAP
S53 for the Oyster Bay WEF, Eastern Cape	RES	Project Manager & EAP
WULA for the Great Karoo Wind Farm, Northern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP

#### **CONVENTIONAL POWER GENERATION PROJECTS (COAL)**

##### **Environmental Impact Assessments and Environmental Management Programmes**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
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 Lephalale, Limpopo	Axia	Project Manager & EAP
Transalloys Coal-fired Power Station, Mpumalanga	Transalloys	Project Manager & EAP
Tshivasho IPP Coal-fired Power Station (with WML), near Lephalale, Limpopo	Cennergi	Project Manager & EAP
Umbani Coal-fired Power Station, near Kriel, Mpumalanga	ISS Global Mining	Project Manager & EAP



Project Name & Location	Client Name	Role
Waterberg IPP Coal-Fired Power Station near Lephallale, Limpopo	Exxaro Resources	Project Manager & EAP

#### Basic Assessments

Project Name & Location	Client Name	Role
Coal Stockyard on Medupi Ash Dump Site, Limpopo	Eskom Holdings	Project Manager & EAP
Biomass Co-Firing Demonstration Facility at Arnot Power Station East of Middleburg, Mpumlanaga	Eskom Holdings	Project Manager & EAP

#### Screening Studies

Project Name & Location	Client Name	Role
Baseload Power Station near Lephallale, 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 Lephallale, Limpopo	Axia	Environmental Advisor

#### Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

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

#### 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 transmission power line between Ankerlig and the Omega Substation, Western Cape	Eskom Holdings SoC Limited	Project Manager & EAP
Gourikwa OCGT to CCGT Conversion project & 400kV transmission power line between Gourikwa & Proteus Substation, Western Cape	Eskom Holdings SoC Limited	Project Manager & EAP
Richards Bay Gas to Power Combined Cycle Power Station, KwaZulu-Natal	Eskom Holdings SoC Limited	Project Manager & EAP
Richards Bay Gas to Power Plant, KwaZulu-Natal	Richards Bay Gas Power 2	Project Manager & EAP
Decommissioning & Recommissioning of 3 Gas Turbine Units at Acacia Power Station & 1 Gas Turbine Unit at Port Rex Power Station to the existing	Eskom Holdings	Project Manager & EAP

Project Name & Location	Client Name	Role
Ankerlig Power Station in Atlantis Industria, Western Cape		
320MW gas-to-power station in Richards Bay, KwaZulu-Natal	Phinda Power Projects	Project Manager & EAP

#### Screening Studies

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

#### GRID INFRASTRUCTURE PROJECTS

##### Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Aggeneis-Oranjemond Transmission Line & Substation Upgrade, Northern Cape	Eskom Transmission	Project Manager & EAP
Ankerlig-Omega Transmission Power Lines, Western Cape	Eskom Transmission	Project Manager & EAP
Karoshhoek Grid Integration project as part of the Karoshhoek Solar Valley Development East of Upington, Northern Cape	FG Emvelo	Project Manager & EAP
Koeberg-Omega Transmission Power Lines,, Western Cape	Eskom Transmission	Project Manager & EAP
Koeberg-Stikland Transmission Power Lines, Western Cape	Eskom Transmission	Project Manager & EAP
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 Power Station site, Western Cape	Eskom Transmission	Project Manager & EAP
Tshwane Strengthening Project, Phase 1, Gauteng	Eskom Transmission	Project Manager & EAP
Main Transmission Substation (MTS) associated with the Choje Wind Farm cluster, Eastern Cape	Wind Relic	Project Manager & EAP

#### Basic Assessments

Project Name & Location	Client Name	Role
Dassenberg-Koeberg Power Line Deviation from the Koeberg to the Ankerlig Power Station, Western Cape	Eskom Holdings	Project Manager & EAP
Golden Valley II WEF Power Line & Substation near Cookhouse, Eastern Cape	BioTherm Energy	Project Manager & EAP
Golden Valley WEF Power Line near Cookhouse, Eastern Cape	BioTherm Energy	Project Manager & EAP
Karoshhoek Grid Integration project as part of the Karoshhoek Solar Valley Development East of Upington, Northern Cape	FG Emvelo	Project Manager & EAP

Project Name & Location	Client Name	Role
Konkoonsies II PV SEF Power Line to the Paulputs Substation near Pofadder, Northern Cape	BioTherm Energy	Project Manager & EAP
Perdekraal West WEF Powerline to the Eskom Kappa Substation, Western Cape	BioTherm Energy	Project Manager & EAP
Rheboksfontein WEF Powerline to the Aurora Substation, Western Cape	Moyeng Energy	Project Manager & EAP
Soetwater Switching Station near Sutherland, Northern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
Solis Power I Power Line & Switchyard Station near Upington, Northern Cape	Brightsource	Project Manager & EAP
Stormwater Canal System for the Ilanga CSP near Upington, Northern Cape	Karoshhoek Solar One	Project Manager & EAP
Tsitsikamma Community WEF Powerline to the Diep River Substation, Eastern Cape	Eskom Holdings	Project Manager & EAP
Two 132kV Chickadee Lines to the new Zonnebloem Switching Station, Mpumalanga	Eskom Holdings	Project Manager & EAP
Electrical Grid Infrastructure for the Kolkies and Sadawa PV clusters, Western Cape	Mainstream Renewable Energy Developments	Project Manager & EAP
Sadawa Collector substation, Western Cape	Mainstream Renewable Energy Developments	Project Manager & EAP
Electrical Grid Infrastructure for the Vrede and Rondavel PV facilities, Free State	Mainstream Renewable Energy Developments	Project Manager & EAP

#### Environmental Compliance, Auditing and ECO

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

#### Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

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

## **MINING SECTOR PROJECTS**

### **Environmental Impact Assessments and Environmental Management Programmes**

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

### **Basic Assessments**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Rare Earth Separation Plant in Vredendal, Western Cape	Rareco	Project Manager & EAP
Decommissioning and Demolition of Kilns 5 & 6 at the Slurry Plant, Kwa-Zulu Natal	PPC	Project Manager & EAP

### **Environmental Compliance, Auditing and ECO**

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

### **Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Waste Licence Application for the Rare Earth Separation Plant in Vredendal, Western Cape	Rareco	Project Manager & EAP

WULA for the Expansion of the Landfill site at Exxaro's Namakwa Sands Mineral Separation Plant, Western Cape	Exxaro Resources	Project Manager & EAP
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**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Bridge across the Ngotwane River, on the border of South Africa and Botswana	Eskom Holdings	Project Manager & EAP
Chemical Storage Tanks, Metallurgical Plant Upgrade & Backfill Plant upgrade at South Deep Gold Mine, near Westonia, Gauteng	Goldfields	Project Manager & EAP
Expansion of the existing Welgedacht Water Care Works, Gauteng	ERWAT	Project Manager & EAP
Golden Valley WEF Access Road near Cookhouse, Eastern Cape	BioTherm Energy	Project Manager & EAP
Great Fish River Wind Farm Access Roads and Watercourse Crossings near Cookhouse, Eastern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
Ilanga CSP Facility Watercourse Crossings near Upington, Northern Cape	Karoshhoek Solar one	Project Manager & EAP
Modification of the existing Hartebeestfontein Water Care Works, Gauteng	ERWAT	Project Manager & EAP
N10 Road Realignment for the Ilanga CSP Facility, East of Upington, Northern Cape	SANRAL	Project Manager & EAP
Nxuba (Bedford) Wind Farm Watercourse Crossings near Cookhouse, Eastern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
Pollution Control Dams at the Medupi Power Station Ash Dump & Coal Stockyard, Limpopo	Eskom	Project Manager & EAP
Qoboshane borrow pits (EMPr only), Eastern Cape	Emalaheni Local Municipality	Project Manager & EAP
Tsitsikamma Community WEF Watercourse Crossings, Eastern Cape	Cennergi	Project Manager & EAP
Clayville Central Steam Plant, Gauteng	Bellmall Energy	Project Manager & EAP
Msenge Emoyeni Wind Farm Watercourse Crossings and Roads, Eastern Cape	Windlab	Project Manager & EAP

#### **Basic Assessments**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Harmony Gold WWTW at Doornkop Mine, Gauteng	Harmony Doornkop Plant	Project Manager & EAP
Ofir-ZX Watercourse Crossing for the Solar PV Facility, near Keimoes, Northern Cape	Networx S28 Energy	Project Manager & EAP
Qoboshane bridge & access roads, Eastern Cape	Emalaheni Local Municipality	Project Manager & EAP
Relocation of the Assay Laboratory near Carletonville, Gauteng	Sibanye Gold	Project Manager & EAP
Richards Bay Harbour Staging Area, KwaZulu-Natal	Eskom Holdings	Project Manager & EAP
S-Kol Watercourse Crossing for the Solar PV Facility, East of Keimoes, Northern Cape	Networx S28 Energy	Project Manager & EAP
Sonnenberg Watercourse Crossing for the Solar PV Facility, West Keimoes, Northern Cape	Networx S28 Energy	Project Manager & EAP

Project Name & Location	Client Name	Role
Kruisvallei Hydroelectric Power Generation Scheme, Free State	Building Energy	Project Manager & EAP
Masetjaba Water Reservoir, Pump Station and Bulk Supply Pipeline near Nigel, Gauteng	Naidu Consulting Engineers	Project Manager & EAP
Access Road for the Dwarsug Wind Farm, Northern Cape Province	South Africa Mainsteam Renewable Power	Project Manager & EAP

#### Screening Studies

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

#### Environmental Compliance, Auditing and ECO

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

#### Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
WULA for the Izubulo Private Nature Reserve, Limpopo	Kjell Bismeyer, Jann Bader, Laurence Saad	Project Manager & EAP
WULA for the Masodini Private Game Lode, Limpopo	Masodini Private Game Lodge	Environmental Advisor
WULA for the Ezulwini Private Nature Reserve, Limpopo	Ezulwini Investments	Project Manager & EAP
WULA for the Masodini Private Game Lode, Limpopo	Masodini Private Game Lodge	Project Manager & EAP
WULA for the N10 Realignment at the Ilanga SEF, Northern Cape	Karoshhoek Solar One	Project Manager & EAP
WULA for the Kruisvallei Hydroelectric Power Generation Scheme, Free State	Building Energy	Project Manager & EAP

Project Name & Location	Client Name	Role
S24G and WULA for the illegal construction of structures within a watercourse on EFF 24 Ruimsig Agricultural Holdings, Gauteng	Sorrer Language Services	Project Manager & EAP

## **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, Limpopo	Nick Elliot	Environmental Advisor
External Compliance Audit of WUL for the Johannesburg Country Club, Gauteng	Johannesburg Country Club	Project Manager

### **Environmental Compliance, Auditing and ECO**

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

## **ENVIRONMENTAL MANAGEMENT TOOLS**

Project Name & Location	Client Name	Role
Development of the 3rd Edition Environmental Implementation Plan (EIP)	Gauteng Department of Agriculture and Rural Development (GDARD)	Project Manager & EAP
Development of Provincial Guidelines on 4x4 routes, Western Cape	Western Cape Department of Environmental Affairs and Development Planning	EAP
Compilation of Construction and Operation EMP for the Braamhoek Transmission Integration Project, Kwazulu-Natal	Eskom Holdings	Project Manager & EAP
Compilation of EMP for the Wholesale Trade of Petroleum Products, Gauteng	Munaca Technologies	Project Manager & EAP
Operational Environmental Management Programme (OEMP) for Medupi Power Station, Limpopo	Eskom Holdings	Project Manager & EAP
Operational Environmental Management Programme (OEMP) for the Dube TradePort Site Wide Precinct	Dube TradePort Corporation	Project Manager & EAP
Operational Environmental Management Programme (OEMP) for the Kusile Power Station, Mpumalanga	Eskom Holdings	Project Manager & EAP
Review of Basic Assessment Process for the Wittekleibosch Wind Monitoring Mast, Eastern Cape	Exxaro Resources	Project Manager & EAP
Revision of the EMP for the Sirius Solar PV	Aurora Power Solutions	Project Manager & EAP

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
State of the Environment (SoE) for Emalahleni Local Municipality, Mpumalanga	Simo Consulting on behalf of Emalahleni Local Municipality	Project Manager & EAP
Aspects and Impacts Register for Salberg Concrete Products operations	Salberg Concrete Products	EAP
First State of Waste Report for South Africa	Golder on behalf of the Department of Environmental Affairs	Project Manager & EAP
Responsibilities Matrix and Gap Analysis for the Kruisvallei Hydroelectric Power Generation Scheme, Free State Province	Building Energy	Project Manager
Responsibilities Matrix and Gap Analysis for the Roggeveld Wind Farm, Northern & Western Cape Provinces	Building Energy	Project Manager

### **PROJECTS OUTSIDE OF SOUTH AFRICA**

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



## CURRICULUM VITAE OF DANIE BRUMMER

<b>Profession :</b>	Principal Environmental Consultant
<b>Specialisation:</b>	Environmental, Health and Safety compliance and due diligence, statutory and management system compliance audits, management system and ISO standards implementation and integration, routine compliance investigations and compilation of reports for projects in the infrastructure sector.
<b>Work Experience:</b>	21 years in the Environmental field of which the past 18 years was as an Environmental consultant. Conducted audits as lead auditor since 2012 and as auditor since 2010.

### VOCATIONAL EXPERIENCE

Danie holds an M.Sc degree in Environmental Management and Science from the North West University (NWU), and has fifteen (15) years of post-graduate experience. He gained experience as consultant within a variety of fields including Environmental Impact Assessments and Environmental Management, Risk Assessments, Environmental and Health & Safety Management Systems, Audits, Closure Plans, Biodiversity Assessments, Water/Waste and Atmospheric Emissions Licences etc. He has been registered as a Professional Natural Scientist with SACNASP for the past nine (9) years and EAPASA since the beginning of 2020. He has experience working on a range of projects across a variety of industries. Danie also completed a second honours degree in Environmental Monitoring and remote sensing and he is well skilled in Geographical Information Systems.

### SKILLS BASE AND CORE COMPETENCIES

- Environmental Assessments
- Environmental Management Programmes
- Permit and licence applications
- Environmental management
- Due diligence assessments
- Biodiversity/Ecological specialist studies
- Closure plans and costing
- Risk assessments
- Management system implementation and integration
- Compliance and ISO audits and guidance
- Report writing
- Geographic Information System (GIS)
- Stakeholder Engagement

## EDUCATION AND PROFESSIONAL STATUS

### Degrees:

- Second B.Sc (Hons) in Environmental Monitoring & Modelling, UNISA (2011 - 2013)
- M.Sc in Environmental Management and Science (Ecology), North West University (2006 – 2010)
- B.Sc (Hons) Biodiversity & Conservation Biology, North West University (2004 – 2006)
- B.Sc (Majors : Botany & Zoology), UNISA (1996 – 2003)

### Short Courses:

- ISO45001:2018 Lead Auditors Course
- ISO14001:2015 Lead Auditors transition course
- SAMTRAC, NOSA (2017)
- Agile Project Management, CBM Training (2017)
- Introduction to SAMTRAC, NOSA (2017)
- Five-day Management Program, CBM Training (2015)
- Project Management Professional (PMP course) for Certified Project Managers, SQDC Business school (2014)
- ISO14001 Lead Auditors Course, Centre for Environmental Management (CEM), (2012)
- Environmental Law for Environmental Managers, CEM (2006)
- Environmental Impact Assessment, CEM (2006)
- Environmental Risk Assessment, CEM (2006)
- Integrated Waste Management, CEM (2006)
- ISO 14001 EMS & Auditing, CHEMC Environmental (2004)
- HAZMAT, Department of Defence (DOD), (1998)
- MS Office Advanced, DOD (1996)
- ICDL, UNISA (1996)
- Ecological Management Program (DOD); Various National Defence Force Development & Functional Courses

### Professional Society Affiliations:

- Professional Natural Scientist (Pr.Sci.Nat.), Environmental scientist since 2006 (No. 400166/11) South African Council for Natural Scientific Professions (SACNASP) (2011)
- Founding member EAPSA (2010)
- Certified Environmental Assessment Practitioner (EAP) with the Interim Board, Environmental Assessment Practitioners of South Africa (EAPASA) (2014)
- Certified Environmental Assessment Practitioner (EAP) with EAPASA 2020/1426
- Technical Professional member, South African Institute for Occupational Safety and Health (SAIOSH) (2017)
- Member of International Association of Impact Assessments (IAIA) & World Wide Fund (WWF) (2016)

**Other Relevant Skills:**

- Computer literate MS Office (Advanced level) – Department of Defence
- ICDL (Unisa)
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**EMPLOYMENT**

<b>Date</b>	<b>Company</b>	<b>Roles and Responsibilities</b>
<b>January 2018 – Current</b>	Savannah Environmental (Pty) Ltd	Principal Environmental Consultant  <u>Tasks include:</u> Personnel management, Management of all the ECO's on site, Environmental and health and safety compliance and due diligence, statutory and management system compliance audits, management system and ISO standards implementation and integration, routine compliance investigations and compilation of reports for projects in the infrastructure sector. Environmental and Social management system implementation and audits based on the IFC Performance Standards and the Equator Principles, manage business acquisition.
<b>December 2013 – December 2017</b>	Lidwala Consulting Engineers (Pty) Ltd	Head of Department  <u>Tasks included:</u> Executing Environmental Impact Assessment (EIA) and Basic Assessment (BA) processes, Permit and licence applications, GIS work, Environmental Due Diligence, and Environmental Management and auditing, Personnel Management, Mentoring, Business Development, Quality Assurance (maintenance of QMS), Strategic Guidance to the Department, Manage Business Acquisition, Project Management, Budget – Cash flows, forecasts, invoicing etc. Consult with clients/subcontractors, Draft quotations/proposals/tenders, Report writing (specialist/general).
<b>April 2013 – November 2013</b>	Marsh Risk Consulting	Business Unit Manager  <u>Tasks included:</u> Project Management, Budget – Cash flows, forecasts, invoicing etc. Personnel Management, Consult with clients/subcontractors, Draft quotations, Report writing, Mentoring, Audits, Applications for environmental authorizations, Water use license applications, Biodiversity studies, ISO 14001 Audits / Implementation, Risk Assessments.
<b>September 2007 – March 2013</b>	CHEMC Environmental (Pty) Ltd	Manager (EIA Division)  <u>Tasks included:</u> Environmental Manager for Randgold (subcontracted) for the Loulo Gold Mine in (Mali, West

Date	Company	Roles and Responsibilities
		Africa, Project Management, Consult with clients/subcontractors, Draft quotations, Report writing, Applications for environmental authorizations, Water use license applications, Biodiversity studies, ISO 14001 Audits / Implementation, Risk Assessments, Mentoring, Personnel Management.
<b>March 1991 – August 2007</b>	Department of Defence	Environmental assistant and manager at air force bases Waterkloof, Swartkop and Langebaanweg.

## PROJECT EXPERIENCE

### Renewable Power Generation Projects: Solar Energy Facilities

#### Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
500MW solar farm at Odendaalsrus, Free State	Sunelex	Project director and Ecological specialist
Upington Solar Park, Northern Cape	CEF	Project director and Ecological specialist

#### Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Audit on the Environmental Authorisation, EMPr, Water Use Licence and the compliance with the Equator Principles and the IFC performance standards for Amakhala and Tsitsikamma wind farms – Western Cape	Cennergi	Lead Auditor
ECO compliance verification for the Prieska and De Aar PV facilities – Northern Cape	Xelio South Africa	ECO
ECO compliance verification for the Xina and Khi solar sites – Northern Cape	Abengoa	ECO
EA and EMPr compliance audit for the Dorper Wind Farm - Molteno	Dorper	Lead Auditor
Audit on the Environmental Authorisation, EMPr and the compliance with the Equator Principles and the IFC performance standards for Mocuba PV facility in Mozambique	Scatec	ECO
ECO compliance verification for the West Coast 1 wind farm – Western Cape	Aurora	Auditor
ECO compliance verification for the Sishen PV facility – Northern Cape	Acciona	ECO
ECO compliance verification for the Gouda WEF – Western Cape	Acciona	ECO

**Conventional Power Generation Projects (Coal/Nuclear)**

**Environmental Impact Assessments and Environmental Management Programmes**

Project Name & Location	Client Name	Role
Hendrina Power Station Ash Dams extension WML/EIA and EMPr, Hendrina, Mpumalanga	Eskom	Overall Environmental Project Manager
Tutuka Power Station Ash Dam extension WML/EIA and EMPr, Tutuka, Mpumalanga	Eskom	Overall Environmental Project Manager
Majuba Power Station Ash Dam extension WML/EIA and EMPr, Majuba, Mpumalanga	Eskom	Overall Environmental Project Manager
Koeberg 400KV Busbar Reconfiguration EIA, Koeberg, Western Cape	Eskom	Project Director and Manager

**Basic Assessments**

Project Name & Location	Client Name	Role
Retrofit of the FFP at the Tutuka power station, Tutuka, Mpumalanga	Eskom	Project Manager

**Environmental Compliance, Auditing and ECO**

Project Name & Location	Client Name	Role
EHS legal audit at Tutuka power station (2020)	Eskom	Lead Auditor
WUL compliance audit at Hendrina power station (2020)	Eskom	Lead Auditor
Legal audit at the Komati power station, Mpumalanga (2016 & 2021)	Eskom	Lead Auditor
ISO14001 audit at the Komati power station, Mpumalanga (2015)	Eskom	Lead Auditor
Environmental Legal audit at the Grootvlei power station, Mpumalanga (2016)	Eskom	Lead Auditor
ISO14001 audit at the Grootvlei power station, Mpumalanga (2017)	Eskom	Lead Auditor
Komati power station WULA audit (2015)	Eskom	Lead Auditor
SHE Compliance monitoring for the emergency Environmental management - transport of coal at the Duvha power station, Mpumalanga (2014)	Eskom	SHE Consultant
ISO14001:2015 Audit for Hendrina Power Station (2018)	Eskom	Auditor

**Environmental Permitting & WUL Applications**

Project Name & Location	Client Name	Role
Integrated Waste and Water Management Plan revision – Komati Power Station, Mpumalanga	Eskom	Project Director
Hendrina integrated waste licence application, Mpumalanga	Eskom	Project Manager
Tutuka integrated waste licence application, Mpumalanga	Eskom	Project Manager
Majuba integrated waste licence application, Mpumalanga	Eskom	Project Manager

**Industrial**

**Environmental Compliance, Auditing and ECO**

Project Name & Location	Client Name	Role
EMPr compliance audit for Sea harvest – Saldanha (2019)	Sea harvest	Lead Auditor
Legal EHS audits for various plants NAMPAK (2013)	NAMPAK	Lead Auditor
Environmental compliance audit for McCain – Delmas (2012)	McCain	Auditor

**Mining Sector Projects**

**Environmental Impact Assessments and Environmental Management Programmes**

Project Name & Location	Client Name	Role
Environmental Authorization for a bio-disk sewage plant EIA, Marikana, North West (2009)	Lonmin Platinum	EAP
Legal permitting of water course alterations, Marikana, North West (2008)	Lonmin Platinum	EAP
EIA and EMPr for the re-opening of the Pering mine close to Reivilo, Northern Cape (2013)		Project Manager
Compile the Environmental closure plan and closure costing for Alpha mine close to Vryheid, Mpumalanga (2012)	Xstrata	Project Manager

#### Basic Assessments

Project Name & Location	Client Name	Role
Seismic Survey at Lonmin Marikana (2007-2009), North West	Lonmin Platinum	EAP
Basic Assessment for the Diesel tanks at the Rossi shaft - Lonmin Platinum – Marikana, North West (2009)	Lonmin Platinum	EAP
Basic Assessment for river diversions - Lonmin Platinum – Marikana, North West (2010)	Lonmin Platinum	EAP

#### Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Water Use Licence audit for the Smelter, Mine and the MSP – West Coast (2018)	Tronox Namakwa Sands	Lead Auditor
ISO14001:2004 internal audit. Loulo gold mine in Mali, West Africa (2012)	Randgold Resources	Lead Auditor
ISO14001:2004 internal audit. Goukoto gold mine in Mali West Africa (2012)	Randgold Resources	Lead Auditor
ISO14001:2004 audit. Eland Platinum Mine, North West (2010)	Xstrata	Auditor
Legal Compliance audit, Eland Platinum Mine, North West (2011)	Xstrata	Auditor
ISO14001:2004 audits for Xstrata mines and risk assessments, North West (2011)	Xstrata: Waterval, Horizon, Rietvlei and Kroondal	Auditor
IWUL audit at Waterval mine (2012)	Xstrata	Auditor
EMPr compliance audit at Waterval mine (2011)	Xstrata	Lead Auditor
Risk Assessments for Xstrata, North West (2012)	Xstrata: Waterval, Horizon, Rietvlei and Kroondal	EAP

#### Environmental Permitting & WUL and WML Applications

Project Name & Location	Client Name	Role
WULA for the dumping of slag waste in opencast mining pits – Lonmin – Marikana, North West	Lonmin Platinum	EAP
Closure Plan for Alpha mine – Vryheid, Mpumalanga	Xstarta	Project Manager
Pering mine, mining licence application, Northern Cape		Project Manager

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

**Basic Assessments**

Project Name & Location	Client Name	Role
Mokgalakwena mini scheme Basic Assessment for the services for the township establishment, Mpumalanga (2014)	Mokgalakwena Municipality	Project Director
Hartbeesfontein water reticulation system Basic Assessment – Mkhondo, Mpumalanga (2015)	Mkhondo municipality	Project Director
Basic Assessment for the Amsterdam WWTW – Mkhondo, Mpumalanga (2016)	Mkhondo municipality	Project Director
Basic Assessment for the Louisville pipeline – Baberton, Mpumalanga (2014)	FT Consultants	Project Director and EAP

**Environmental Compliance, Auditing and ECO**

Project Name & Location	Client Name	Role
N11 Road rehabilitation – Loskopdam, Mpumalanga (2017)	KPMM	Project Director
N14 Bridge Construction – Barberspan, North West (2017)	KPMM	Project Director
Hartbeesfontein reticulation (ECO) – Mkhondo, Mpumalanga (2017)	Mkhondo municipality	Project Director
Amsterdam WWTW (ECO) – Mkhondo, Mpumalanga (2017)	Mkhondo municipality	Project Director
COJ Zoo – Upgrade of parks, Gauteng (2016)	City of Johannesburg	Project Director
Chama access roads – Chama district, Eastern Zambia (2016)	Zambian Government	Project Director and ECO
R503 road upgrade, North West (2017)	HHO	Project Director

**Compliance Advice and ESAP reporting**

Project Name & Location	Client Name	Role
N7 Rehabilitation plan and implementation for the rehabilitation of the N7 borrow pit, Western Cape	KPMM	Project Manager

**Environmental Permitting & WUL and WML Applications**

Project Name & Location	Client Name	Role
WUL application for the N11 road upgrade Loskopdam, Mpumalanga	KPMM	Project Director and Quality Assurance



### Training

Project Name & Location	Client Name	Role
N11 road upgrade Loskopdam, Mpumalanga	KPMM	Project Director

### Housing and Urban Projects

#### Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
EIA for the Hammanskraal South residential development, Gauteng (2010)	Neotrend Property Developers	Project Manager
EIA for the Dirkiesdorp residential development, Mpumalanga (2016)	Mkhondo municipality	Project Director
EIA for the Amsterdam residential development, Mpumalanga (2016)	Mkhondo municipality	Project Director
EIA for the Retiefville residential development, Mpumalanga (2016)	Mkhondo municipality	Project Director
Closure of the existing Danielskuil landfill and licencing of the new landfill site – Danielskuil, Northern Cape (2017)	Kgatelopele Municipality	Project Manager
EIA for the Mooikloof filling station – Mooikloof/Pretoria East (2012)	PCN property developers	Project Manager

#### Basic Assessments

Project Name & Location	Client Name	Role
Mooiplaats residential development, Gauteng (2007)	Private	Project Manager
University of Mpumalanga – Series of Basic Assessments, Mpumalanga (2015)	Wits University	Project Director
Mbombela - West Acres BA for proposed repair of Dongas, Mpumalanga (2016)	Mbombela Municipality	Project Director
Inanda retail center – Durban, KwaZulu-Natal (2017)	Local Chief	Project Director and Biodiversity specialist
BA for the northern cape incinerator, Northern Cape (2016)	Freestate University	Project Director

#### Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Crystal Valley residential development – Springs, Gauteng	Group 5	ECO

#### Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
Rehabilitation plan for British American Tobacco, Gauteng (2011)	British American Tobacco (BAT)	EAP
Rehabilitation plan for Lucern Transport yard. – Johannesburg, Gauteng (2013)	Lucern Transport.	EAP

#### Due Diligence Reporting

Project Name & Location	Client Name	Role
Due Diligence assessment for the proposed plant in Rosslyn. Property to be bought from Nissan SA, Gauteng (2013)	Iveco	EAP

#### Environmental Management Tools

##### Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Environmental Management Framework (EMF) – Emfuleni, Gauteng (2016)	Emfuleni Local Municipality	Project Director

#### Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Integrated Waste and Water Management plan – Komati power station, Mpumalanga (2016)	Eskom	Project Director

#### Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
Implementation of ISO 14001 at Hulle's Tongaat (Xinavane – Mozambique, 2011 up to certification in 2013, Xinavane)	Hulle's	Project Manager
Full integration of the ISO14001; ISO9001; ISO18001; ISO22001 and the AMS systems into one integrated system at RSSC, Swaziland (2013)	Royal Swazi Sugar Corporation	Project Manager

#### Training

Project Name & Location	Client Name	Role
Presented the ISO14001 course to Hulle's employees, Mozambique, Xinavane (2012)	Hulle's	Facilitator



## CURRICULUM VITAE OF TUMELO MATHULWE

**Profession :** Public Participation Consultant  
**Specialisation:** Public Participation and Stakeholder Engagement  
**Work Experience:** 2.5 years in the Environmental field

### VOCATIONAL EXPERIENCE

Tumelo Mathulwe is a Public Participation Consultant at Savannah Environmental. Tumelo has two and a half (2.5) years working experience in environmental regulatory processes and environmental application. He holds a BSc in Geography from the University of Pretoria. Tumelo has experience in report writing for Basic Assessments, General Authorisations, Water Use Licence Applications, Public participation, Plant searching and marking, Social Surveying (Quantitative and Qualitative) and aiding in carrying out the duties of a Community Participation Consultant.

Tumelo has experience in conducting social surveys as part of project co-ordination for Environmental Impact Assessment and Water Use Licenses. Tumelo has worked in local projects taking part in resettlement action strategy, social surveys and environmental training.

## SKILLS BASE AND CORE COMPETENCIES

- Report Writing
- Stakeholder Engagement
- Public Participation
- Leadership
- MS Office
- Communication
- Organisational Skills
- Adaptability
- Analytical
- Google Earth
- Planet GIS
- Adobe Photoshop
- Adobe Premier Pro

## EDUCATION AND PROFESSIONAL STATUS

### Degrees:

- Bachelor of Sciences (Geography), 2016, University of Pretoria

### Professional Society Affiliations:

Candidate Natural Scientist, Environmental Science, South African Council for Natural and Scientific Professions  
– Registration Number: 130284

## EMPLOYMENT

Date	Company	Roles and Responsibilities
<b>July 2021 - Current:</b>	Savannah Environmental (Pty) Ltd	<i>Public Participation Consultant</i> <u>Tasks include:</u>
<b>Feb 2021 – July 2021</b>	Nemai Consulting	<i>Social &amp; Environmental Officer</i> <u>Tasks included:</u> <ul style="list-style-type: none"><li>• Social Surveying (data collection)</li><li>• Report Writing (Socioeconomic baseline, Resettlement Action Strategy)</li></ul>
<b>May 2019 – April 2020</b>	Golder Associates Africa	<i>Junior Environmental Consultant</i> <u>Tasks included:</u> <ul style="list-style-type: none"><li>• Stakeholder Engagement (Crack survey, public meetings, optimising site work)</li><li>• Report Writing (Basic Assessment, General Authorisation, Water Use License Application/ Renewal/ Audit/ Amendment)</li></ul>
<b>October 2017 – October 2018</b>	Nemai Consulting	<i>Environmental Assessment Practitioner Internship</i> <u>Tasks included:</u> <ul style="list-style-type: none"><li>• Public Participation (Database compilation, public meetings, PP material compilation)</li></ul>

Date	Company	Roles and Responsibilities
		<ul style="list-style-type: none"> <li>Social Consulting (data collection, community participation consulting,)</li> <li>Report Writing (Basic Assessment, General Authorisation, Water Use License Application, Environmental Screening)</li> </ul>
<b>July 2017 – October 2017</b>	Maru Africa	Systems Developer and Technical Sales <u>Tasks included:</u> Worked in the web development and design team where I was responsible for data migration, systems interfaces and the sale of technical services.
<b>March 2017-June 2017</b>	Kasipedia	Systems Developer <u>Tasks included:</u> Worked in the web development and design team where I was responsible for data migration, systems interfaces and the definition of developmental requirements.

## PROJECT EXPERIENCE

Project experience includes environmental impact assessments, permitting and stakeholder engagement for mining and construction projects.

Project Name & Location	Client Name	Role
New Vaal LifeX, Vanderbijlpark, Gauteng	Seriti	Compiling Forms
Generally Authorised Water Use for The Wetlands Interventions for Cluster 1 at Lakenvlei, Mpumalanga	Glencore	Report Writer
Generally Authorised Water Use for The Wetlands Interventions at Lakenvlei, Mpumalanga	Glencore	Report Writer
Socio-Economic Baseline Assessment for the Proposed K60 Road, Rabie Ridge/Tembisa, Gauteng	PHB/GDRT	Report Writer & Data collection
Resettlement Action Strategy for the Proposed K60 Road, Rabie Ridge/Tembisa, Gauteng	PHB/ Gauteng Department of Roads and Transport	Report Writer
Cullinan Crack Survey, gauteng	Petra Diamonds	Stakeholder Engagement
Impacts of Alcohol on the Community, Gauteng	Gauteng Department of Community Safety	Project co-coordinator & Data collection
The Assessment of Sanitation Facilities in Different Workplaces, South Africa	Water Research Commission	Assistant project co-coordinator & Data collection
Scoping & Environmental Impact Reporting Process: Application for A Mining Right for The Proposed Metsimaholo Underground Coal Mine, Free State	Seriti	Presenter at Public meetings
Surface water pipeline (GA), Carletonville, Gauteng	Anglo Gold Ashanti	Report Writer
External Water Use Licence Audit, Richards Bar, KZN	Grindrod RBT	Report Writer/ Auditor
Proposed Mookodi-Mahikeng 400kv Powerline, North West Province (EIA)	Eskom	Public Participation, Database compilation

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Emkhiweni Substation and 400kV Line from Emkhiweni Substation to Silimela, Groblersdal - Middelburg, Limpopo - Mpumalanga	Eskom	Public Participation
Phase 1B1 Thornhill Housing Development (BAR), Port Alfred, Eastern Cape	Bigen Africa Services (ABSA Development Company Holdings)	Public Participation
Greater Orange Farm Water Upgrade in Johannesburg (WULA), Orange Farm, Gauteng	Johannesburg Water	Public Participation
Abstraction of Groundwater for the ATNS Isando Property. Development (WULA), Johannesburg, Gauteng	Air Traffic Navigation Services (ATNS)	Public Participation
Raw Water Abstraction at the Masselspoort Water Treatment Works (WULA), Free State Province	Rand Water	Public Participation
Proposed Upgrade of The Existing Ship Repair Facility At The Port Of Mossel Bay, Western Cape (BAR)	Transnet National Ports Authority	Public Participation
Proposed Lanseria Outfall Sewer Pipeline in Johannesburg, Gauteng Province	Johannesburg Water	Public Participation
Stakeholder Perception Study on the Effect of CCTV Cameras in major CBDs in Gauteng	Gauteng Department of Community Safety	Project co-coordinator & Data collection
Stakeholder Perception Study, Gauteng	Gauteng Department of Roads and Transport	Assistant project co-coordinator & Data collection
Inner City Managed Lanes, Johannesburg, Gauteng	Johannesburg Development Agency	Community Participation Consultant (assisting)
Ivory Park Extension 7 and Kaalfontein Extension 7 Sewer Upgrade (BAR, WULA, EMPr), Johannesburg, Gauteng	Johannesburg Water	Report Writer
Cresta Peri-Urban Steel Water Pipelise Replacement (GA), Johannesburg, Gauteng	Johannesburg Water	Report Writer
Proposed Development of Portion 237 of Farm Hartebeestpoort 328 (Environmental Screening), Koedoespoort, Gauteng	Housing Development Agency	Report Writer
Proposed Haylon Hill Housing Resettlement (Environmental Screening), Laser Park, Johannesburg	Profica	Report Writer