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CURRICULUM VITAE OF KHOMOTJO REUBEN MAROGA

Profession :Environmental ConsultantSpecialisation:Environmental Impact Assessments, Basic Assessments, Site Visits, Compilation of
Environmental Management Programmes and Liaison with authoritiesWork Experience:2.5 years of experience in the environmental management field

VOCATIONAL EXPERIENCE

Khomotjo Reuben Maroga has two years of experience in the environmental field. He has worked on a mining infrastructure project in compiling environmental control officer's reports and conducting air and groundwater monitoring using the DustTrak DRX Aerosol Monitor and a Bailer as apparatuses. Additionally, he has provided assistance to Eco-Elementum & Engineering on WUL applications and ElAs.

SKILLS BASE AND CORE COMPETENCIES

- ECO Report writing
- Environmental monitoring
- Administrative tasks

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc. (Hons) Geology, University of Johannesburg, 2016
- B.Sc. Geology and Environmental Management, University of Johannesburg, 2015

Courses:

- Business Communication, ProEarth Learning Academy (Pty) in Middelburg (2018)
- Describe the functions of a Health and Safety representative, Elite Training (Pty) Ltd in Middelburg (2017)
- Basic Fire Fighting, Elite Training (Pty) Ltd in Middelburg (2017)
- Combined OSHAS 18001: 2007 and ISO 14001: 2015 Introduction, NOSA in eMalahleni (2017)
- Combined OSHAS 18001: 2007 and ISO 14001: 2015 Implementation (2017), NOSA in eMalahleni (2017)
- Emotional Intelligence, LearnMe (Pty) Ltd in Middelburg (2017)

EMPLOYMENT

Date	Company	Roles and Responsibilities
October 2018 - current	Savannah Environmental (Pty) Ltd	Environmental Consultant
		<u>Tasks include:</u> Applying applicable legislation, research of related environmental policy documentation required for EIAs, efficient and quality report writing, liaison with relevant environmental authorities, site visits, compilation of application forms, environmental management programmes (EMPrs) and public participation include documentation. Other related tasks include undertaking water use license applications, environmental auditing (Environmental Control Officer – ECO work) and any other related authorisation, permitting and licensing tasks (on an as and when required
		basis).
September 2016 - October 2018	Yoctolux Collieries (Pty) Ltd	Environmental Management Intern
		<u>Tasks included</u> : Drafting monthly ECO reports, conducting monthly environmental monitoring, providing assistance on WULAs and EIAs to Eco- Elementum & Engineering (Pty) Ltd and providing oversight on IAPs eradication and management programme.
January – September	University of Johannesburg	Second-year Practical Demonstrator
2016	Auckland Park, Kingsway Campus	Tasks included: Marking of practical's, attending to any ad-hoc administrative duties and liaising with designated lecturers.

PROJECT EXPERIENCE

MINING PROJECTS: COAL MINING

Water Use Licence Application

Project Name & Location	Client Name	Role
Compiling a water use licence report for an	Diepsoils Investments (Pty) Ltd	Assistant
underground coal mining development (Tala	Vernon Siemelink: 072 196	
Bethal Coal) in Hendrina, Mpumalanga.	9928	

WASTE TREATMENT WORKS

Project Name & Location	Client Name	Role
Kriel Power Station Lime Plant Upgrade, Kriel,	Eskom Holdings SOC Limited	Junior EAP
Mpumalanga	Khuliso Rasimphi : 017 615 2634	

RENEWABLE ENERGY

Basic Assessments

Project Name & Location	Client Name	Role
Basic Assessment Process for Sirius 2x 100MW Solar	SOLA Future Energy (Pty) Ltd	Junior EAP
Photovoltaic facilities, Upington, Northern Cape	Tseliso Mahao: 076 067 8221	
Basic Assessment Process for Aggeneys 2x 100MW	Atlantic Energy Partners (Pty)	Junior EAP
Solar Photovoltaic facilities, Aggeneys, Northern	Ltd and ABO Wind AG	
Cape.	Sonia Miszczak: 021 418 2596	

Section 53 Applications

Project Name & Location	Client Name	Role
Section 53 applications for the Veld PV North and	Veld Renewables (Pty) Ltd	EAP
PV South, Northern Cape.	Jason Cope: 021 020 1044/ 082 598 1123	
	082 398 1123	

Part 1 Amendments

Project Name & Location	Client Name	Role
20MW Konkoonsies Solar Photovoltaic facility,	Biotherm Energy (Pty) Ltd	Junior EAP
Pofadder, Northern Cape.	Michael Barnes: 011 367 4600	
10MW Aries Solar PV Photovoltaic facility, near	Biotherm Energy (Pty) Ltd	Junior EAP
Kenhardt, Northern Cape.	Michael Barnes: 011 367 4600	
27MW Klipheuwel/Dassiefontein Wind Energy facility	Biotherm Energy (Pty) Ltd	Junior EAP
near Calendon, Western Cape.	Michael Barnes: 011 367 4600	
Matzikama Solar PV Photovoltaic facility, near	SolaireDirect (Pty) Ltd	EAP
Vredendal, Western Cape.	Reggie Niemand: 082 674	
	1233	
Grootspruit Solar PV Photovoltaic facility, near	SolaireDirect (Pty) Ltd	EAP
Welkom, Free State.	Reggie Niemand: 082 674	
	1233	
Reddersburg Solar PV Photovoltaic facility, near	SolaireDirect (Pty) Ltd	EAP
Reddersburg, Free State.	Reggie Niemand: 082 674	
	1233	
Graspan Solar PV Photovoltaic facility, near	SolaireDirect (Pty) Ltd	EAP
Hopetown, Northern Cape	Reggie Niemand: 082 674	
	1233	

INFRASTRUCTURE DEVELOPMENT

Basic Assessments

Project Name & Location	Client Name	Role
Basic Assessment Process for the Wilmar Vegetable	Wilmar Processing (Pty) Ltd	Junior EAP
Oil Pipeline, Richards Bay, Kwa-Zulu Natal.	Aidan Dowdle: 082 872 3628	

WASTE MANAGEMENT

Project Name & Location	Client Name	Role
Decommissioning of the Asbestos landfill at the Kriel	Eskom Holdings SOC Limited	EAP
Power Station, Mpumalanga	Khuliso Rasimphi : 017 615	
	2634	



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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

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

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)

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		

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

•	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		

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		

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)

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 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 &	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

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

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)

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		



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CURRICULUM VITAE OF LISA OPPERMAN

Profession :	Environmental Assessment Practitioner and GIS Consultant
Specialisation:	Environmental Impact Assessments, Basic Assessments, Site Screening and Site Selection reporting, compilation of maps through the use of ArcGIS
Work Experience:	4 years of experience in the environmental management and GIS field

VOCATIONAL EXPERIENCE

Lisa Opperman has four years of experience in the environmental field. She has worked on a variety of EIA processes including renewable energy projects, as well as industrial developments. She has also been involved in the undertaking of public participation for projects located in South Africa which has included the undertaking of public meetings, focus group meetings and key stakeholder meetings in both Afrikaans and English. She also has experience in working with ArcGIS 10 for the compilation of maps, the manipulation of data and screening for environmental sensitivities within areas with the potential for development.

SKILLS BASE AND CORE COMPETENCIES

- GIS Mapping
- EIA Report Writing
- Conducting of public involvement processes
- Administrative tasks
- Analysis and manipulation of geographical information and technical experience with the use of ArcGIS

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc. (Hons) Environmental Management (2014), North-West University, Potchefstroom
- B.A Psychology, Geography and Environmental Studies (2013), North-West University, Potchefstroom

Courses:

 Environmental Legal Compliance and Auditing (2017), Janice Tooley at the Protea Hotel OR Thambo, Johannesburg

EMPLOYMENT

Date	Company	Roles and Responsibilities	
February 2015 – current	Savannah Environmental (Pty) Ltd	Environmental Assessment Practitioner and GIS	
		Consultant	
		Tasks include: Compilation of Environmental	
		Scoping Reports, Plan of Study, Environmental	
		Impact Assessment Reports, Basic Assessments	
		and Environmental management programmes;	
		Environmental Screening Reports; Specialist	
		management; project proposals and tenders;	
		Client liaison and Marketing; Process EIA	
		Applications, GIS Mapping and data analysis and	
		manipulation	

PROJECT EXPERIENCE

Renewable Power Generation Projects: Solar Energy Facilities

Screening Studies

Project Name & Location	Client Name	Role
Pre-feasibility Desktop Screening and Fatal Flaw	ABO Wind AG	EAP and GIS Consultant
Scan for a Solar PV Project near Lichtenburg, North		
West Province		
Pre-feasibility Desktop Screening and Fatal Flaw	ABO Wind AG	EAP and GIS Consultant
Scan for a Solar PV Project neat Aggeneys, Northern		
Cape Province		

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Buffels PV 1 & Buffels PV 2 Solar Energy Facilities near	Kabi Solar	EAP and GIS Consultant
Orkney, North West		
Woodhouse Solar 1 & Woodhouse Solar 2 PV	Genesis Eco-Energy	EAP and GIS Consultant
Facilities near Vryburg, North West	Developments	
Orkney Solar Farm, North West	Genesis Eco-Energy	EAP and GIS Consultant
	Developments	
Tewa Isitha Solar 1 & Tewa Isitha Solar 2 PV facilities	AfriCoast Energy	EAP and GIS Consultant
near Upington, Northern Cape		
Lichtenburg 1, Lichtenburg 2 and Lichtenburg 3 PV	ABO Wind AG	EAP and GIS Consultant
Facilities, near Lichtenburg, North West Province		
(EIA Phase)		

Project Name & Location	Client Name	Role
Harmony Gold 3x PV Facilities, Welkom, Free State	BBEntropie	EAP and GIS Consultant

Renewable power generation projects: Wind Energy Facilities

Screening Studies

Project Name & Location	Client Name	Role
Juno Wind Farm Screening Assessment Report near	AMDA Developments	EAP and GIS Consultant
Lamberts Bay, Western Cape Province		
Lamberts Bay Wind Farm Screening Assessment	Windy World	EAP and GIS Consultant
Report near Lamberts Bay, Western Cape Province		
Pre-feasibility Desktop Screening and Fatal Flaw	ABO Wind AG	EAP and GIS Consultant
Scan for the Kudusberg and Rondekop Wind Energy		
Facilities, Northern Cape and Western Cape		
Provinces		
Pre-feasibility Desktop Screening and Fatal Flaw	ABO Wind AG	EAP and GIS Consultant
Scan for Wind Projects near Touws River, Western		
Cape Province		

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Boulders Wind Farm, Western Cape Province	Vredenburg Windfarm	EAP and GIS Consultant
Namas Wind Farm, Northern Cape Province	Genesis Namas Wind (Pty) Ltd	EAP and GIS Consultant
Zonnequa Wind Farm, Northern Cape Province	Genesis Zonnequa Wind (Pty) Ltd	EAP and GIS Consultant

Grid Infrastructure Projects

Basic Assessments

Project Name & Location	Client Name	Role
132/11kV Olifantshoek Substation and Power Line,	Eskom	EAP and GIS Consultant
Northern Cape		
Grid connection infrastructure for the Namas Wind	Genesis Namas Wind (Pty) Ltd	EAP and GIS Consultant
Farm, Northern Cape Province		
Grid connection infrastructure for the Zonnequa	Genesis Zonnequa Wind (Pty)	EAP and GIS Consultant
Wind Farm ,Northern Cape Province	Ltd	

Gas Projects

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Richards Bay Combined Cycle Power Plant (CCPP)	Eskom	EAP (assistance) and GIS
power plant, KwaZulu-Natal (Scoping Phase)		Consultant

Basic Assessments

Project Name & Location	Client Name	Role
Neopak Combined Heat and Power (CHP) Plant,	Neopak	EAP, Public Participation
Rosslyn, Gauteng		and GIS Consultant

Screening Studies

Project Name & Location	Client Name	Role
Richards Bay Combined Cycle Power Plant (CCPP)	Eskom	EAP and GIS Consultant
power plant, near Richards Bay, KwaZulu-Natal		

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

Basic Assessments		
Project Name & Location	Client Name	Role
Water Treatment Plant at the Neopak Facility,	Neopak	EAP, Public Participation
Rosslyn, Gauteng		and GIS Consultant

Housing and Urban Projects

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Metals Industrial Cluster near Kuruman, Northern	Northern Cape Department	EAP and GIS Consultant
Cape	of Economic Development	
	and Tourism	

Environmental Management Tools

Environmental Management Programmes

Project Name & Location	Client Name	Role
Environmental Management Programme (EMPr) for	ACED	EAP
the Nxuba Wind Farm, Eastern Cape		
Operation Environmental Management	Cennergi	EAP
Programme (EMPr) for Phase 1 of the Amakhala		
Emoyeni Wind Energy Facility, Eastern Cape		
Operation Environmental Management	Cennergi	EAP
Programme (EMPr) for the Tsitsikamma Community		
Wind Energy Facility, Eastern Cape Province		
Environmental Management Programme (EMPr) for	Building Energy South Africa	EAP and GIS Consultant
the Skuitdrift 1 Solar PV Energy Facility near		
Augrabies, Northern Cape Province		
Environmental Management Programme (EMPr) for	Building Energy South Africa	EAP and GIS Consultant
the Skuitdrift 2 Solar PV Energy Facility near		
Augrabies, Northern Cape Province		

Environmental and Social Management System (ESMS)

Project Name & Location	Client Name	Role
Preparation of Policies and Plans for the Roggeveld	Building Energy South Africa	EAP assistance
Wind Farm, Western Cape Province		
Preparation of Policies and Plans for the Kruisvallei	Building Energy South Africa	EAP assistance
Hydro Scheme, Free State Province		