CURRICULUM VITAE OF CHANTELLE GEYER

Comprehensive CV

Profession: Junior Environmental Consultant

Specialisation: Environmental Management; Project-related GIS mapping; Public Participation

Administration; General Geology and Geochemistry.

Work Experience: Six (6) months in the environmental field.

VOCATIONAL EXPERIENCE

Chantelle is a conscientious and ambitious junior Environmental Consultant who holds a BSc(Hons) degree in Environmental Geology. She recently graduated from the North-West University where she consistently stayed in the top 3 of her class. She joined a group of passionate academic peers in her third year to create the first North-West University Geoscience Society to teach young earth scientists about the environment and introduce them to professional mentors, thus bridging the gap between university and a professional career. She was appointed as project manager for this society for two consecutive terms and organized career talks, academic game shows, alumni talks, clean-up initiatives, and numerous team-building events.

She has special interests in geological formations, geochemistry, minerals, contamination studies, rehabilitation and restoration of disturbed areas, as well as hydrology. However, she found her passion for Environmental Management during an environmental internship where she gained experience in:

- Environmental Impact Assessments
- Project-related GIS mapping
- Water use licences
- Public participation processes

Chantelle is a loyal and enthusiastic individual who is dedicated to further her studies in Environmental Management, Environmental Legislation, GIS-mapping, and studies on the renewable energy sector of South Africa. Her goal is to gain knowledge in the processes of Basic Assessments, EIAs, Environmental Compliance, public participation, screening assessments, and environmental authorisation applications. She aims to use this knowledge to strategically consult clients and undertaking projects efficiently and to the highest standard.

SKILLS BASE AND CORE COMPETENCIES

- Great organisational skills
- Good at time management
- Passionate about the environment
- Compilation of Basic Assessment Reports in compliance with environmental legislation.
- Project management for environmental-related events and projects.
- Water Use Licences
- Aiding with public participation processes.
- Experience with South African environmental legislation.

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- BSc Environmental Sciences, North-West University, Potchefstroom (2021)
- BSc Honours Environmental Geology, North-West University, Potchefstroom (2022)

Short Courses:

• Advanced Microsoft Excel Qualification, Lead Academy (2020)

Professional Society Affiliations:

• Registered with the International Association for Impact Assessment South Africa (IAIAsa)

EMPLOYMENT

Date	Company	Roles and Responsibilities	
July 2022 - Current:	Savannah Environmental (Pty) Ltd	Junior Environmental Consultant	
		<u>Tasks include</u> :	
		Environmental Assessment Practitioner (EAP);	
		Specialising in project-related GIS mapping.	
		Performing Basic Assessment Reports and	
		Environmental Impact Assessments,	
		Assisting on administrative public participation	
		documents.	
September 2021 –	Prescali Environmental (Pty)	Environmental Intern	
November 2021		<u>Tasks included:</u>	
		Liaising with senior management on	
		environmental concerns,	
		Preparing Water Use Licence (WUL) audits,	
		Taking minutes during meetings,	
		Public Participation tasks.	

PROJECT EXPERIENCE

Project experience includes renewable energy projects, grid connection infrastructure, and access roads.

RENEWABLE POWER GENERATION PROJECTS: SOLAR ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Mutsho Solar PV (4x100MW projects, Limpopo)	Cri-Eagle	Junior EAP & GIS Specialist
Harmony One Plant Solar PV Facility (30MW), Free	ENGP	Junior EAP & GIS Specialist
State		
Harmony Target Solar PV Facility (30MW), Free State	ENGP	Junior EAP & GIS Specialist
Harmony Joel Solar PV Facility (18MW), Free State	ENGP	Junior EAP & GIS Specialist
Ummbila Emoyeni SEF (150MW), Mpumalanga	Windlab Developments South	Junior EAP & GIS Specialist
	Africa (Pty) Ltd	

Basic Assessments

Project Name & Location	Client Name	Role
Harmony Central Plant Solar PV Facility (14MW), Free	ENGP	Junior EAP & GIS Specialist
State		
Harmony Moab Khotsong Solar PV Facility (100MW),	ENGP	Junior EAP & GIS Specialist
Free State		
Highveld Solar PV Facility (150MW), North West	WKN Windcurrent	Junior EAP & GIS Specialist
Komsberg Solar PV Facility (200MW), Western and	Salika SA	Junior EAP & GIS Specialist
Northern Cape		
Klipfontein Solar PV Facility (500MW), Western and	Salika SA	Junior EAP & GIS Specialist
Northern Cape		

RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ummbila Emoyeni WEF (666MW), Mpumalanga	Windlab Developments South	Junior EAP & GIS Specialist
	Africa (Pty) Ltd	

GRID INFRASTRUCTURE PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ummbila Emoyeni EGI, Mpumalanga	Windlab Developments South	Junior EAP & GIS Specialist
	Africa (Pty) Ltd	

Basic Assessments

Project Name & Location	Client Name	Role
Mutsho Solar Grid Connection, Limpopo	Cri-Eagle	Junior EAP & GIS Specialist
Highveld Grid Connection, North West	WKN Windcurrent	Junior EAP & GIS Specialist
Komsberg Grid Connection, Western and Northern	Salika SA	Junior EAP & GIS Specialist
Cape		
Klipfontein Grid Connection, Western and Northern	Salika SA	Junior EAP & GIS Specialist
Cape		

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

Basic Assessments

Project Name & Location	Client Name	Role
Witberg WEF Access Road, Western Cape	Red Rocket South Africa (Pty)	Junior EAP and GIS
	Ltd	Specialist

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CURRICULUM VITAE OF ANSONE' ESTERHUIZEN

Profession: Environmental Assessment Practitioner

Specialisation: Environmental Management; Strategic environmental advice; Environmental compliance advice &

monitoring; Environmental Impact Assessments; Policy, strategy & guideline formulation; Project Management, Environmental Compliance, Public Participation, Various licensing, cartography (GIS), environmental sensitivity analysis for renewable energy project (wind and solar). Socio Economic analysis and Report writing, Climate change analysis, mitigation and adaptation analysis and

reporting.

Work Experience: 4 years' experience in Environmental Management, Sustainable development, Climate change

analysis, Impact Assessment & GIS

VOCATIONAL EXPERIENCE

An innovative and dependable individual specializing in Environmental Management with Bachelor of Arts and currently pursuing BSc (Hons) from the University of South Africa, with sound knowledge of Environmental Management principles as well as adherence to Environmental legislation regulations, in-depth knowledge of GIS and EIA Processes

Professional experience in conducting a range of environmental studies in the broad fields of Environmental Management. This includes but is not limited to Basic Assessments, Environmental Impact Assessments, Scoping and EIR, General Authorizations, Auditing, Water Use Licenses, permits & licencing, GIS Mapping, Public Participation and Environmental Management plans

Responsibilities include report writing, compilation of project specific mapping, project management, review of specialist studies and the identification and assessment of potential negative environmental impacts and benefits. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation.

Experience in conducting environmental impact assessments for agricultural development, Infrastructure expansion, energy developments, industrial and residential development, licencing for projects as well as undertaking environmental audits.

Passionate about Low carbon economy and Green Energy technology development and implementation; Waste to Energy & Wastewater treatment technology rollout; Solar PV technology designs and training; ability to Advice on Climate Change adaptation and resilience.

SKILLS BASE AND CORE COMPETENCIES

- Compilation of environmental impact assessment reports and environmental management programmes in accordance with relevant environmental legislative requirements, Environmental Compliance and Audits
- Licencing applications
- GIS analysis and mapping as per project specifications
- 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
- MS Office Package (Word, PowerPoint, and Excel)
- Google Earth
- Project management for a variety of projects
- Public participation process for a variety of projects

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc. (Hons) Environmental Management (2022), University of South Africa (UNISA)
- B.A. Environmental Management (2020), University of South Africa (UNISA)

Short Courses:

- ISO 14001:2015 Environmental Management Systems Christina Lupa (Udemy)
- QGIS and Google Earth Engine for environmental applications Kate Alison (Udemy)
- Environmental Education: Climate Change the science Alison Courses
- Diploma in Energy economics, Energy systems and Environmental Impact Alison Courses

Professional Society Affiliations:

- South African Council for Natural Scientific Professionals Candidate Natural Scientist: Environmental Scientist
- Environmental Assessment Practitioners Association of South Africa Environmental Assessment Practitioner
- International Association of Impact Assessment South Africa

- Institute of Waste Management of Southern Africa
- Society of South African Geographers
- Sustainable Procurement & Supply Chain (SPSC) Ambassador

Other Relevant Skills:

- Water Use Licensing on EWULAAS
- Air emissions licencing
- Waste emissions licencing
- Compiling project budgets and proposals
- ISO implementation and adaptation

	<u>EMPLOYMENT</u>				
Date	Company	Roles and Responsibilities			
07 February		Environmental Assessment Practitioner			
2022 -					
Current:		Tasks include:			
		Undertake environmental screening assessments, environmental permitting, and			
		environmental authorisation applications.			
		 Undertake water use authorisation applications on the e-WULAA system. Complete Part 1 and Part 2 EA amendment applications and prepare motivation reports in 			
		support of applications for Part 2 EA amendments.			
	Savannah	 Undertake environmental compliance audits and provide ECO services. 			
	Environmental	 Efficient and quality report writing to execute and manage the delivery of environmental 			
	(Pty) Ltd	impact assessment (EIA) reports and Environmental Management Programmes in line with			
	(11)	the requirements of the National Environmental Management Act and EIA Regulations.			
		Liaison with relevant environmental authorities.			
		Execution of the public participation process.			
		Professional client liaison.			
		Project management.			
		Manage third parties or sub-consultants to which functions have been outsourced.			
		Preparation of proposals and budgets.			
January		Freelance Environmental Consultant			
2021 -					
February		Tasks included:			
2022		Implementing procedural, reporting, and monitoring requirements as prescribed by Environmental Legislation and applicable Regulations Environmental Management Output Description The procedural and applicable Regulations Environmental Management The procedural and applicable Regulations and applicable Regula			
		Environmental Legislation and applicable Regulations, Environmental Management, Compliance and Monitoring.			
		License application, amendments, and renewal - WUL, AEL, WML, EMPr			
		IWWMPs, Waste Management Licenses, Financial Provision Reporting for mining projects,			
		Public Participation, Specialist liaison, Auditing, Site Assessments and Gap Analysis			
		BA, EMPs, EIA, Environmental Authorization assistance and drafting of various reports, where			
		relevant, review of EIA/ESIA and permits to ensure compliance Standards and applicable			
		legislation			
		Waste Management, Mine Health and Safety, Environmental Awareness and Training,			
	VARIOUS	Administration and Reporting			
	ENVIRONMENTAL	Environmental Management System - ISO14001:2015			
	AGENCIES	Permits: FLORA and FAUNA			
	7102110120	Review bid documents to understand the requirement and deliverables of the tender.			
		Review and approve monthly ECO reports to ensure the report is accurate and reflective			
		of site conditions.			
		Experience working with renewable energy projects			
		Prepare technical reports and inputs for programme preparation and documentation, and relevance of information.			
		ensuring accuracy, timeliness, and relevance of information. Prepare required documentations/materials to facilitate and review processes.			
		 Prepare required documentations/materials to facilitate and review processes. Work collaboratively with internal and external colleagues and partners to collect/analyse 			
		share information on implementation issues, suggest solutions on routine implementation o			
		relevant projects and alert appropriate officials and stakeholders for higher-level			
		interventions and/or decision.			
		Keep record of reports and assessments for easy reference.			
		Monitor and report on the use of sectorial program resources (administrative and other			
		assets), verify compliance with approved allocations based on regulations/procedures			
		commitments with standards of accountability and integrity.			

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		 Undertake field visits and surveys, collect, and share reports with partners/stakeholders. Report critical issues, bottlenecks, and potential problems to supervisor, for timely action. Support the project team/s in the design, development, implementation, management, and monitoring of renewable interventions, as needed. Client liaison, site visits and ensure completion of projects / project deliverables as per the agreed project plans and budget Community engagement as the community is one of the major stakeholders in the project. Project tracking and weekly/monthly process reports and manage key relations with key stakeholders.
2018 - 2021	NALI SUSTAINABILITY SOLUTIONS, SOUTH AFRICA	 Environmental Control Officer Implementing procedural, reporting, and monitoring requirements as prescribed by Environmental Legislation and applicable Regulations. Implementing, assessing, and monitoring performance, commitments, and recommendations of the Site's Environ-mental Management Program, authorizations, and assessments. Compiling and Implementing of Environmental Standard Operating Procedures (SOPs). Managing small team of workers that aids in ensuring environmental compliance also compiling and Implementing Environmental Awareness Program. Ensuring daily Environmental risk assessments, hazard identification and rectification. Forecast necessary budgets to bring the potential project in compliance with best practice to support Project Finances offer preparation Implementing, maintaining, and monitoring an environmental management system based on the operations' approved EMP, Water licensing and Authorization. Compiling monthly reports on pertinent environmental monitoring data and maintaining a system of reporting environmental incidents and reviewing recommendations to rectify deviations. Identifying, classifying, and rehabilitating indigenous and invasive Fauna and/or Flora. Updating and maintaining operation's environmental aspect register and monitoring management programs/actions for significant aspects. Directing employees and sub-contractors regarding implementation of environmental requirements such as pollution control, waste reduction, best environmental management practices as well as other requirements listed in the ap- proved EMP, Environmental Authorization (EA), and Integrated Water Use License (IWUL). Conducting regular environmental audits to ensure that environmental requirements are adhered to. Managing Waste Collection on site and keeping records of waste disposal certificates. Maintaining
2017 - 2021		Junior Environmental Assessment Practitioner
	O2 Environmental Consulting	 Training and experience in applying the principles of Integrated Environmental Management (IEM), and in applying the Environmental Impact Assessment (EIA) Regulations to a number of development projects and initiatives in South Africa that trigger the National Environmental Management Act and/ or the National Environmental Management: Waste Act. Facilitation, co-ordination, and management of all aspects of the EIA process. Liaising with specialists and all members of the project team to ensure a full understanding of the scope of work required throughout the process. The compilation of reports: Constraints Analysis, Basic Assessment Reports, Scoping and Environmental Impact Assessment Reports, and Damage Assessment Reports (24G Applications) WULA, waste management plans, environmental audits etc. Liaising with interested and affected parties and facilitating the public participation process required in terms of the EIA Regulations Environmental Management Programmer Environmental Authorizations processes Site inspection and compliance monitoring Develop and compile climate change response plans for Department of Agriculture, Land Reform and Rural Development Subcontractor audits and Supplier Due Diligence audits.

		•	Action Plan Compilation for Environmental Control Officer Reports Findings. Update and maintain Environmental Performance Tracker. Appointing relevant specialists for different environmental disciplines (such as biodiversity specialist, aquatic specialists, avifaunal specialist etc.); Reviewing and commenting on specialists' reports;
2014 – 2016	Various	•	Administrative Roles at various organizations

PROJECT EXPERIENCE

Ansone' has expertise in environmental project management, drafting & reporting, conducting site environmental inspections, resource management, rehabilitation, conservation, waste management, environmental awareness facilitating, vegetation analysis, public participation, and Environmental Management systems such as ISO14001:2015

RENEWABLE POWER GENERATION PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client	Role
4x Pixley Park Solar PV Cluster & 4x Grid	Mulilo Energy Development	EAP and Team Lead
Connection infrastructure, Northern Cape		
Ummbila Wind and Solar PV	Windlab Development SA (Pty) Ltd	EAP
developments, Mpumalanga		
3x Sibanye Stillwater Cluster, North West	Sibanye Stillwater PGM	EAP and Team Lead
Pivot Development and Expansion, Free	JN Venter Boerdery (Pty) Ltd	EAP
State		
6x Harmony Gold Phase 2 Solar PV	Harmony Gold (Pty) Ltd	EAP and Team Lead
developments, Free State & North West		
4x Goldfields Wind and Solar Renewable	Goldfields Mining and Development (Pty)	EAP and Team Lead
Energy Development, Gauteng	Ltd	

Basic Assessments and Environmental Management Programmes

Project Name & Location	Client	Role
3x ZEN Gridlines, Western Cape	FE Bonne (Pty) Ltd	EAP and Team Lead
Orkney SEF, North West	Genesis Eco Energy Development	EAP
Highveld Solar and Grid connection,	Genesis Eco Energy Development	EAP and Team Lead
North West		

Environmental Permitting

Project Name & Location	Client	Role
Sibanye Stillwater Cluster, 3X WUL, North	Sibanye Stillwater PGM	EAP and Team Lead
West.		

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

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client	Role
New Wave Dam, Northern Cape	New wave farming (Pty) Ltd	EAP

Basic Assessments and Environmental Management Programmes

Project Name & Location	Client	Role
KZN Road Development	KZN Road Agency	EAP
Various Cell phone Masts within the	Various	EAP
Western and Northern Cape		
Motsoaledi Filling Station, Limpopo	Tshikovha green	EAP
Nylstene Bricks, North West	Nylstene Pty Ltd	
Tugela Filling Station Expansion		EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client	Role
Kwaggas Nek ECO, KZN	Green mined (Pty) Ltd	ECO
Middelburg Quarry EPA, Mpumalanga	Green mined (Pty) Ltd	ECO
Wit Kloof Quarry, EPA, Mpumalanga	Green mined (Pty) Ltd	ECO
Pick n Pay warehouse, Gauteng	Nail Sustainability Solutions (Pty) Ltd	ECO

The Development and Preventative Maintenance of Road D1483 (R572), Limpopo	Roads Agency Limpopo	ECO
EMP Borrow pits for Upgrading of Road from Modioli to Mabatlane, Limpopo	Roads Agency Limpopo	ECO

Environmental Permitting

Project Name & Location	Client	Role
New Wave Dam, WUL, Northern Cape	New wave farming (Pty) Ltd	EAP

Other

Project Name & Location	Client	Role
Substantive Amendment to EIA for Road	Private Client	EAP & Public Participation
development, Western Cape		
Melk boom Dam 24G application,	Melk boom Farming (Pty)Ltd	EAP
Kimberly		
Warmbokkeveld pipeline rehabilitation,	EnviroAfrica CC	EAP &Author
Northern Cape		
Vyeboom Mission Rehabilitation, Western	EnviroAfrica CC	EAP & Author
Cape		
Ceres Pipeline Maintenance	EnviroAfrica CC	EAP & Author
Management Plan, Western Cape		
Springbok Northern Cape Water Pipeline	EnviroAfrica CC	ECO & Author
ECO and Rehabilitation work, Northern		
Cape		
Henkries Pipeline, Northern Cape	Henkries Local Municipality	ECO
Kathu Filling Station, Northern Cape	EnviroAfrica CC	ECO
Lambertsbaai Desalination plant, Western	Lambertsbaai Local municipality	ECO
Cape		
Feldspar Mine, Western Cape	Feldspar Mine (Pty) Ltd	ECO

INDUSTRIAL, FARMING AND RESIDENTIAL DEVELOPMENT PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client	Role
Balfour Fuel Depot Expansion,	Barabara Road Binders (Pty)	EAP
Mpumalanga		
Styerkraal Agricultural Holdings, Western	Styerkraal Agricultural Holdings CC	Project Manager and EAP
Cape		

Basic Assessments and Environmental Management Programmes

Project Name & Location	Client	Role
Prodipix Shopping mall and Filling station,	Prodipix Pty Ltd	Project Manager & EAP
Mpumalanga		
Loyebo Shopping complex, KZN	Mboma Property Ltd	Project Manager & EAP
Alberton Piggery Expansion, Gauteng	Tshikovha Green	EAP & Public Participation
Upington Crematorium, Northern Cape	Upington Crematorium	EAP & Public Participation
Ramotswe Housing Development,	Makepise Filling Station (Pty) Ltd	EAP
Limpopo		
Nkateko Housing Development, Limpopo	Nkateko Properties cc	EAP
Homu Shopping Centre	Makepise Filling Station (Pty) Ltd	EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client	Role
River sand Massmart, Gauteng	Massmart (Pty) Ltd	ECO & Compile EMP

Environmental Permitting

Project Name & Location	Client	Role
Styerkraal Agricultural Holdings, WUL	Styerkraal Agricultural Holdings CC	EAP and Team Lead
Application, Western Cape		
Upington Crematorium, AEL, Northern	Upington Crematorium	EAP & Public Participation
Cape	\circ	

Other

Project Name & Location	Client	Role
Strysbaai Church 24G Application,	Church of the Latter-day Saints	EAP
Western Cape		

Mining

Project Name & Location	Client	Role
MPH Mining Prospecting Right Renewal,	MPH MINING (Pty) Ltd	Project Lead & Report Compiler
Northern Cape		
Vengablox De Klerks Kraal Social Labour	Vengablox (Pty) Ltd	Project Lead & Report Compiler
Plan (SLP) & Mine Charter Report (MCR,		
Northern Cape		
Zandberg SLP & MCR, North West	Zandberg Mine (Pty) Ltd	Project Lead & Report Compiler
Wansley SLP & MCR, Gauteng	B&E International	Project Lead & Report Compiler
De Aar Stone Crushers SLP & MCR,	De Aar Empowerment CC	Project Lead & Report Compiler
Northern Cape		
Bridge Town SLP & MCR, Northern Cape	Lime Sales (Pty) Ltd	Project Lead & Report Compiler
Affordable Outcome Prospecting right	Invest in Property 99 (Pty) Ltd	Project Lead & Report Compiler
Renewal, Free State		
Ouwerf Mining right renewal, Western	Ouwerf Boerdery CC	Project Lead & Report Compiler
Cape		
Aroms Mining right renewal, Northern	Lime Sales (Pty) Ltd	Project Lead & Report Compiler
Cape		
Orchards Mining right Renewal, Eastern	Marikana Brick (Pty) Ltd	Project Lead & Report Compiler
Cape		

ENVIRONMENTAL, SUSTAINABILITY OR GIS PROJECTS

Project Name & Location	Client	Role
National Climate Change Adaption and	Department of Agriculture, Land Reform	Environmental Advisor
Mitigation Strategy	and Rural Development	
KCM Environmental	KCM Environmental	Environmental Advisor
GIS Mapping	MKD Environmental	GIS Specialist
GIS Mapping	Matavha Environmental	GIS Specialist
Socio-Economic analysis	Toma-Now	Soico-Economic Analyst





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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 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 Associated for Impact Assessment South Africa (IAIAsa): 5601
- Member of the South African Wind Energy Association (SAWEA)

EMPLOYMENT

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

PROJECT EXPERIENCE

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

RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Christiana PV 2 SEF, North West	Solar Reserve South Africa	Project Manager & EAP
De Aar PV facility, Northern Cape	iNca Energy	Project Manager & EAP
Everest SEF near Hennenman, Free State	FRV Energy South Africa	Project Manager & EAP
Graafwater PV SEF, Western Cape	iNca Energy	Project Manager & EAP
Grootkop SEF near Allanridge, Free State	FRV Energy South Africa	Project Manager & EAP
Hertzogville PV 2 SEF with 2 phases, Free State	SunCorp / Solar Reserve	Project Manager & EAP

Project Name & Location	Client Name	Role
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		
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
Cape		
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		2.512
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
Northern Cape		
Vrede & Rondavel PV, Free State	Mainstream Renewable	Project Manager & EAP
	Energy Developments	

Basic Assessments

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

Project Name & Location	Client Name	Role
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
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		
Northam PV, Limpopo Province	Northam Platinum	Project Manager & EAP
Kolkies PV Suite (x 6 projects) and Sadawa PV Suite	Mainstream Renewable	Project Manager & EAP
(x 4 projects), Western Cape	Energy Developments	

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,	Momentous Energy	Project Manager & EAP
Gauteng		

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,		

Project Name & Location	Client Name	Role
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
Cape		
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
Cape		
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 \$28 Energy	Environmental Advisor
Environmental Permitting for the Steynsrus PV1 & PV2	Cronimet Power Solutions	Environmental Advisor
SEF's, Northern Cape		
Environmental Permitting for the Heuningspruit PV	Cronimet Power Solutions	Environmental Advisor
SEF, Northern Cape		

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
Cape		

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		
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		
S53 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		
S53 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
Cape		

RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
llanga 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

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

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the !Khi CSP Facility,	Abengoa Solar	Project Manager
Northern Cape		
ECO for the construction of the llanga 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
Cape		
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	Ilangethu 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
Cape		/
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

Project Name & Location	Client Name	Role
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	iNca Energy	Project Manager & EAP
Cape		
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
Cape		
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)	
Wind Garden & Fronteer WEFs, Eastern Cape	Wind Relc	Project Manager & EAP

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

Project Name & Location	Client Name	Role
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		
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
Cape		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the West Coast One	Aurora Wind Power	Project Manager
WEF, Western Cape		
ECO for the construction of the Gouda WEF,	Blue Falcon	Project Manager
Western Cape		
EO for the Dassiesklip Wind Energy Facility, Western	Group 5	Project Manager
Cape		
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		
S53 Application for the Project Blue WEF, Northern	WWK Developments	Project Manager & EAP
Cape		
S53 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		

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

Basic Assessments

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

Screening Studies

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

Environmental Compliance, Auditing and ECO

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

Compliance Advice

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

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

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

CONVENTIONAL POWER GENERATION PROJECTS (GAS)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ankerlig OCGT to CCGT Conversion project &400 kV	Eskom Holdings SoC Limited	Project Manager & EAP
transmission power line between Ankerlig and the		
Omega Substation, Western Cape		
Gourikwa OCGT to CCGT Conversion project &	Eskom Holdings SoC Limited	Project Manager & EAP
400kV 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 Power 2	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		

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	Globeleq Advisors Limited	Project Manager & EAP
establishment of a 500MW CCGT Power Station		
Richards Bay Gas to Power Combined Cycle Power	Eskom Holdings SoC Limited	Project Manager & EAP
Station, KwaZulu-Natal		

GRID INFRASTRUCTURE PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

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

Basic Assessments

Project Name & Location	Client Name	Role
Dassenberg-Koeberg Power Line Deviation from the	Eskom Holdings	Project Manager & EAP
Koeberg to the Ankerlig Power Station, Western		
Cape		
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		

Project Name & Location	Client Name	Role
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		
Two 132kV Chickadee Lines to the new Zonnebloem	Eskom Holdings	Project Manager & EAP
Switching Station, Mpumalanga		
Electrical Grid Infrastructure for the Kolkies and	Mainstream Renewable	Project Manager & EAP
Sadawa PV clusters, Western Cape	Energy Developments	
Sadawa Collector substation, Western Cape	Mainstream Renewable	Project Manager & EAP
	Energy Developments	
Electrical Grid Infrastructure for the Vrede and	Mainstream Renewable	Project Manager & EAP
Rondavel PV facilities, Free State	Energy Developments	

Environmental Compliance, Auditing and ECO

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 llanga-Gordonia	Karoshoek Solar One	Project Manager
132kV power line, Northern Cape		

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

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

MINING SECTOR PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

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

Basic Assessments

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

Environmental Compliance, Auditing and ECO

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		
Cape		
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		
Cape		
S24G & WML for an Aluminium Plant, Gauteng	GfE-MIR Alloys & Minerals	Project Manager & EAP

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

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Bridge across the Ngotwane River, on the border of South Africa and Botswana	Eskom Holdings	Project Manager & EAP
Chemical Storage Tanks, Metallurgical Plant Upgrade & Backfill Plant upgrade at South Deep Gold Mine, near Westornaria, 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
llanga CSP Facility Watercourse Crossings near Upington, Northern Cape	Karoshoek Solar one	Project Manager & EAP
Modification of the existing Hartebeestfontein Water Care Works, Gautng	ERWAT	Project Manager & EAP
N10 Road Realignment for the llanga 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	Emalahleni 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

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 \$28 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 \$28 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		

Project Name & Location	Client Name	Role
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	

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		

Environmental Compliance, Auditing and ECO

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 llanga SEF,	Karoshoek Solar One	Project Manager & EAP
Northern Cape		
WULA for the Kruisvallei Hydroelectric Power	Building Energy	Project Manager & EAP
Generation Scheme, Free State		

Project Name & Location	Client Name	Role
S24G and WULA for the Ilegal 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		
External Compliance Audit of WUL for the	Johannesburg Country Club	Project Manager
Johannesburg Country Club, Gauteng		

Environmental Compliance, Auditing and ECO

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

Project Name & Location	Client Name	Role
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 KAREN JODAS

Profession: Environmental Management and Compliance Consultant; Environmental Assessment

Practitioner.

Professional Natural Scientist: Environmental Science since 1999.

Specialisation: Strategic environmental assessment and advice; development of plans and guidelines;

environmental compliance advise and monitoring; Environmental Impact Assessment; environmental management; project management and co-ordination of environmental projects; peer review; policy, strategy and guideline formulation; renewable energy

projects; water resources management.

Years work experience: 25 years (in the field since 1997)

VOCATIONAL EXPERIENCE

Provide technical input for projects in the environmental management field, specialising in strategic evaluation, Environmental Impact Assessment studies, environmental management plans, programmes and guidelines, integrated environmental management, environmental compliance monitoring; peer review of EIA reports and processes, strategy and guideline development, and public participation. Key focus on overall Project Management, integration of environmental studies and environmental processes into larger engineering-based projects, strategic assessment, and the identification of environmental management solutions and mitigation/risk minimising measures.

Excellent working knowledge of environmental legislation, strategies, guidelines and policies. Compilation of the reports for environmental studies are in accordance with the all relevant environmental legislation under the National Environmental Management Act. Due consideration of Equator Principles and compliance with IFC performance standards is now a part of all projects.

SKILLS BASE AND CORE COMPETENCIES

Provide technical input for projects in the environmental management field, specialising in strategic evaluation, Environmental Impact Assessment studies, environmental management plans, programmes and guidelines, integrated environmental management, environmental compliance monitoring; peer review of EIA reports and processes, strategy and guideline development, and public participation. Key focus on overall Project Management, integration of environmental studies and environmental processes into larger engineering-based projects, strategic assessment, and the identification of environmental management solutions and mitigation/risk minimising measures.

Excellent working knowledge of environmental legislation, strategies, guidelines and policies. Compilation of the reports for environmental studies are in accordance with the all relevant environmental legislation under the National Environmental Management Act. Due consideration of Equator Principles and compliance with IFC performance standards is now a part of all projects.

SKILLS BASE AND CORE COMPETENCIES

- Twenty five years (25) of experience in the environmental management, environmental permitting, impact assessment and compliance fields
- Twenty three (23) years of experience in Project Management of large environmental assessment and environmental management projects
- Strategic and compliance advise for all aspects of environmental assessment and management

- Wide range of experience for public and private sector projects
- Key experience in the assessment of impacts associated with renewable energy projects
- Experienced in assessments for both linear developments and nodal developments
- Experienced consultant in projects in Sub-Saharan Africa
- Experienced in environmental compliance advice, monitoring and reporting for construction and operation projects
- Due diligence auditing and reporting
- External and peer review of environmental assessment and compliance reporting as well as EIA processes
- Working knowledge of environmental planning policies, regulatory frameworks and legislation
- Input and review of Environmental Management Plans and Programmes, including Invasive Species Monitoring,
 Control and Eradication Plans
- Identification and assessment of potential environmental impacts and benefits
- Development of practical and achievable mitigation measures and management plans and evaluation of risk to project execution
- Compilation and review of the reports in accordance with all relevant environmental legislation
- Public participation/involvement and stakeholder consultation
- Environmental strategy, policy and guidelines development.

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc Earth Sciences, majoring in Geography and Zoology, Rhodes University, Grahamstown, 1993
- B.Sc Honours in Geography (in Environmental Water Management), Rhodes University, Grahamstown, 1994.
 Major subjects included Water Resources Management, Streams Ecology, Fluvial Geomorphology and Geographic Information Systems.
- M.Sc in Geography (Geomorphology), Rhodes University, Grahamstown, 1996

Short Courses:

- Environmental and Social Risk Management (ESRM), International Finance Corporation, 2018
- Integrated Water Resource Management, the National Water Act, and Water Use Authorisations, CSBSS, 2017
- WindFarmer Wind Farm Design course, Garrad Hassan, 2009
- Environmental Law Course, Aldo Leopold Institute, 2002
- Water Quality Management, Potchefstroom University, 1998

Professional Society Affiliations:

- Registered EAP with the Environmental Assessment Practitioners Association of South Africa (EAPASA) (2022/5499)
- Registered with the South African Council for Natural Scientific Professions as a Professional Natural Scientist: Environmental Science (400106/99)
- Registered with the International Associated for Impact Assessment South Africa (IAIAsa): 5888

Other Relevant Skills:

• Xtrack Extreme - Advanced Off-Road Driving Course

EMPLOYMENT

Date	Company	Roles and Responsibilities
2006 - Current:	Savannah Environmental (Pty) Ltd	Director
		Independent specialist environmental consultant,
		Environmental Assessment Practitioner (EAP) and advisor
		<u>Tasks include</u> :
		Project management.

Date	Company	Roles and Responsibilities	
		Environmental screening assessments, environmental	
		permitting and environmental authorisation applications.	
		Due Diligence reporting	
		Water use authorisation applications on the e-WULAA system.	
		EA amendment applications.	
		Environmental compliance audits.	
		Efficient and quality reporting in line with the requirements of	
		the National Environmental Management Act, EIA Regulations,	
		and other relevant environmental legislation.	
		Execution of the public participation process.	
		Professional client liaison.	
1997 – 2005:	Bohlweki Environmental (Pty) Ltd	Associate	
	(later known as Royal Haskoning	Environmental Management Unit: Manager; Principle	
	DHV; or RHDHV)	Environmental Scientist focussing on Environmental	
	,	Management and Project Management	

PROJECT EXPERIENCE

Proven track record of successfully consulting on a range of development projects in all nine Provinces of South Africa, as well as in neighbouring southern African countries.

Her experience includes projects in the energy generation and transmission sector, as well as wastewater treatment facilities, mining and prospecting activities, property development, national roads, as well as strategy and guidelines development.

Karen Jodas has played a significant role in the energy sector since 2007, specifically in the roll-out of renewable energy projects throughout southern Africa. She has provided consulting services to over 400 renewable and baseload energy applications submitted by Independent Power Producers (IPPs) to the Department of Forestry, Fisheries and the Environment in South Africa for authorisation, as well as to Eskom on their renewable energy and gas-to-energy projects. In addition, she has concluded the environmental permitting and/or due diligence auditing for the development and implementation of 42 projects selected as preferred bidders by the Department of Energy under the Renewable Energy Independent Power Producers Procurement (REIPPP) Programme (small- and large-scale projects).

GRID INFRASTRUCTURE PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Kyalami/Midrand Substation and 3 Transmission Lines, Gauteng	Eskom Transmission	Project Manager & EAP
Steelpoort Integration Project, Limpopo	Eskom Transmission	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Amakhala Emoyeni Power Line & Kopleegte	Cennergi	Project Manager & EAP
Substation, Eastern Cape	Cermergi	Troject Manager & LAI
Bon Espirange Substation & Overhead Power Line for	Building Energy (G7	Project Manager & EAP
the Roggeveld Wind Farm, Northern Cape	Renewable Energies)	Troject Manager & LAI
Castle WEF Powerline, Northern Cape	Juwi Renewable Energies	Project Manager & EAP
Cuprum-Burchell; Burchell-Mooidraai Power Line,	Eskom	Project Manager & EAP
Nothern Cape	ESKOITI	Froject Manager & EAF

Expansion of the Komsberg Main Transmission	Enel Green Power	Project Manager & EAP
Substation, Northern Cape		
Garob-Kronos Power Line, Northern Cape	Juwi Renewable Energies	Project Manager & EAP
Golden Valley Dx-Poseidon Power Line Substation & Golden Valley-Kopleegte Power Line, Eastern Cape	BioTherm Energy	Project Manager & EAP
Gunstfontein Switching Station, Power Line & Ancillary	African Clean Energy	Project Manager & EAP
Infrastructure, Northern Cape	Developments (ACED)	Troject Mariager & E/T
llanga Lethemba-Hydra, Northern Cape	Solar Capital	Project Manager & EAP
Iziduli Emoyeni WEF on-site substation, Power Line &		
Switching station, Access Roads & Watercourse	Windlab	Project Manager & EAP
Crossings, Eastern Cape		
Khai-Ma WEF Power Line, Northern Cape	Mainstream Renewable	Project Manager & EAP
Korana WEF Power Line, Northern Cape	Mainstream Renewable	Project Manager & EAP
Korana SEF Power Line, Northern Cape	Mainstream Renewable	Project Manager & EAP
Nobelsfontein WEF Power Line & Substation, Northern	Coria / SARGE	Project Manager & EAP
Cape	Africana Classa Francis	
Nojoli WEF Substation & Power Line Grid Connection,	African Clean Energy	Project Manager & EAP
Eastern Cape	Developments (ACED)	Drain at Maragan & EAD
Olifantshoek Substation & Powerline, Northern Cape	Eskom Holdings	Project Manager & EAP
Poortjies WEF Power Line, Northern Cape	Mainstream Renewable	Project Manager & EAP
Power Line & Substation for the Blackwood WEF,	VentuSA Energy	Project Manager & EAP
Northern Cape		
Power Line & Substation for the Khobab WEF in	Mainstream Renewable	Project Manager & EAP
Loeriesfontein, Northern Cape Power Line Connecting the Sishen SEF to the Ferrum	Acciona (Windfall 59	
MTS-UMTU Klip Kop Power Line, Northern Cape	Properties)	Project Manager & EAP
Power Line for the Grid Connection of the 2 SEF's near	110pernes)	
Kath and Dibeng, Northern Cape	VentuSA Energy	Project Manager & EAP
Power Line for the Rheboksfontein WEF, Western		
Cape	Moyeng Energy	Project Manager & EAP
Power Line from Aggeneys Solar One to Aggeneis		
MTS Substation, Northern Cape	BlueWave	Project Manager & EAP
Re-alignment of 3 Eskom Power Line Servitudes within		
the Hopefield WEF, Western Cape	Umoya Energy	Project Manager & EAP
Re-alignment of the Power Line & Watercourse		
Crossings for the Loeriesfontein 2 WEF, Northern Cape	Mainstream Renewable	Project Manager & EAP
Re-alignment of the Power Line from Loeriesfontein 1		
WEF to the Helios Substation, Northern Cape	Mainstream Renewable	Project Manager & EAP
Re-alignment of the Power Line from Loeriesfontein 3		
WEF to the Helios Substation, Northern Cape	Mainstream Renewable	Project Manager & EAP
Substation for the Aggeneys PV SEF, Northern Cape	BioTherm Energy	Project Manager & EAP
Substation, Power Line & Watercourse Crossings for		, ,
the Springfontein WEF, Free State	Mainstream Renewable	Project Manager & EAP
Wesley-Peddie (Riverbank Phase 2) Power Line for the	List Engrave	Project Manager 9 FAD
Uncedo Lwethu WEF, Eastern Cape	Just Energy	Project Manager & EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
EO for the construction of the Neptune-Vuyani	Trans-Africa Projects on behalf	Project Manager
Transmission Line, Western Cape	of Eskom	

RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Aggeneys PV Plant, Northern Cape	Solar Capital	Project Manager & EAP
Blackwood PV SEF, Free State	VentuSA Energy	Project Manager & EAP
Bloemsmond PV 1 & PV 2 SEF's, Northern Cape	Atlantic Energy Partners	Project Manager & EAP
Bosjesmansberg PV SEF, Northern Cape	Networx	Project Manager & EAP
Boundary PV SEF, Northern Cape	VentuSA Energy	Project Manager & EAP
Buffels PV 1 & PV 2 SEF's, North West	Kabi Energy	Project Manager & EAP
De Aar PV SEF, Northern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
De Aar PV Solar Energy Plant, Northern Cape	Solar Capital	Project Manager & EAP
Gihon& Kison PV SEF's, Limpopo	Networx	Project Manager & EAP
Gunstfontein PV SEF, Northern Cape	Networx / Prana Energy	Project Manager & EAP
Harmony Eland, Nyala & Tshepong PV SEF's, Free State	BEEEntropie Renewable Innovation	Project Manager & EAP
Hibernia SEF, North West	EA Energy	Project Manager & EAP
Iziko PV SEF, Mpumalanga	VentuSA Energy	Project Manager & EAP
Kabi Kimberley PV Facility at DeBeers, Northern Cape	Kabi Solar	Project Manager & EAP
Karoo Renewables PV SEF, Northern Cape	SARGE	Project Manager & EAP
Kheis Phase 1, 2 & 3 PV SEF, Northern Cape	GeStamp Solar	Project Manager & EAP
Klipgat PV SEF, Northern Cape	Terra Solar	Project Manager & EAP
Loeriesfontein/Helios PV SEF, Northern Cape	Solar Capital	Project Manager & EAP
Naauwpoort PV SEF , Northern Cape	Terra Solar	Project Manager & EAP
Orkney PV SEF, North West	Genesis Eco-Energy	Project Manager & EAP
Pofadder SEF, Northern Cape	Mainstream Renewable	Project Manager & EAP
Prieska North PV SEF, Northern Cape	VentuSA Energy	Project Manager & EAP
Prieska PV SEF, Northern Cape	VentuSA Energy	Project Manager & EAP
Ritchie PV SEF, Northern Cape	Solar Capital	Project Manager & EAP
San Solar PV SEF, Northern Cape	VentuSA Energy	Project Manager & EAP
Sirius (Tungston Lodge) PV Solar Plants (x2, Northern Cape	Aurora Power Solutions	Project Manager & EAP
Sol Invictus x4 PV Developments, Northern Cape	Building Energy	Project Manager & EAP
Solar Plant at Kathu (Wincanton), Northern Cape	REISA	Project Manager & EAP
Solar Plant at Sishen (Wincanton), Northern Cape	VentuSA Energy	Project Manager & EAP
Solar Plant at Sishen (Wincanton), Northern Cape	VentuSA Energy	Project Manager & EAP
SolarReserve Kotulo Tsatsi PV1 SEF, Northern Cape	Kotulo Tsatsi Energy and SolarReserve South Africa	Project Manager & EAP
SolarReserve Kotulo Tsatsi PV2 Facility, Northern Cape orovince	Kotulo Tsatsi Energy and SolarReserve South Africa	Project Manager & EAP
Stormberg Solar PV SEF, Eastern Cape	Networx / Prana Energy	Project Manager & EAP
Tewa Isitha (Grootdrink/Albany) PV SEF, Northern Cape	Africoast Engineers	Project Manager & EAP
Figer Kloof PV SEF near Vryburg, North West	Kabi Energy	Project Manager & EAP
Figer Solar PV SEF, Northern Cape	Kabi Energy	Project Manager & EAP
0		
Vaalkop and Witkop PV SEF's, North West	Kabi Solar	Project Manager & EAP

Project Name & Location	Client Name	Role
Wolmaransstad Municipality PV SEF, North West	BlueWave	Project Manager & EAP
Woodhouse PV 1 & PV 2 SEFs, North West	Genesis Eco-Energy	Project Manager & EAP
Zuurwater PV SEFs (x4), Northern Cape	Solafrica / BlueWave	Project Manager & EAP
Lichtenburg 1, 2 & 3 PV Facilities, North West	Atlantic Energy Partners & ABO Wind	Project Manager & EAP
Allepad PV One, Two, Three and Four PV SEFs	ILEnergy Development	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Amandla Welanga & Dida PV SEFs near Noupoort,	Terra Solar	Project Manager & EAP
Northern Cape	Terra solai	110ject Manager & LAI
Carolusberg PV SEF, Northern Cape	llio Energy (SARGE)	Project Manager & EAP
Gosforth Park and Kynoch Rooftop PV SEF's Northern	Building Energy	Project Manager & EAP
Cape	Bollaing Energy	110jeet Manager & EA
Hennenman PV SEF, Free State	BlueWave	Project Manager & EAP
Hibernia PV SEF near Lichtenburg, North West	EA Energy	Project Manager & EAP
Inkulukelo PV SEF, Northern Cape	Terra Solar	Project Manager & EAP
Kabi Kimberley PV SEF, Northern Cape	Kabi Energy	Project Manager & EAP
Kokerboom & Boabab PV Solar Energy Plants,	Brax Energy	Project Manager & EAP
Northern Cape	Brax Ericity	110jeet Manager & EA
Middelburg PV SEF, Mpumalanga	African Clean Energy	Project Manager & EAP
Middeborg 1 V 3L1, Mportidianga	Developments (ACED)	
Nigramoep PV Solar Energy Plant, Northern Cape	SARGE	Project Manager & EAP
Noupoort (Kleinfontein and Toitdale) CPV, Northern	Terra Power	Project Manager & EAP
Cape	Terra i ower	110ject Manager & LAI
O'Kiep 1 PV Solar Energy Plant, Northern Cape	llio Energy (SARGE)	Project Manager & EAP
O'Kiep 2 PV Solar Energy Plant, Northern Cape	BluePort Trade 118 (SARGE)	Project Manager & EAP
O'Kiep 3 PV Solar Energy Plant, Northern Cape	llio Energy (SARGE)	Project Manager & EAP
Rodicon PV SEF, Mpumalanga	VentuSA Energy	
Slurry PV SEF, North West	PPC	Project Manager & EAP
Small projects for PV SEF's, North West	BlueWave	Project Manager & EAP
Son Sitrus Rooftop PV Installation, Eastern Cape	Building Energy	Project Manager & EAP
Tollie PV SEF, Northern Cape	Terra Solar	Project Manager & EAP
x2 Southern Farms PV Solar Energy Plants, Northern	Southern Farms	Project Manager & EAP
Cape	300mem ams	110ject Muliagel & LAF
Moeding Solar PV Facility (BA in terms of REDZ regs),	Kabi Energy	Project Manager & EAP
North West	Kabi Lileigy	Hojech Manager & EAP

Screening Studies

Project Name & Location	Client Name	Role
Allemans, Wonderheuwel, Damfontein & Dida PV	Terra Solar	Project Manager & EAD
SEF's, Northern Cape	Terra solar	Project Manager & EAP
Amandla Welang, Gillmer & Inkululeko PV SEF's,	GeoSolar/TerraSolar	Project Manager & EAP
Northern Cape	Geosolar, retrasolar	Project Manager & EAP
Blouputs PV, Onseepkans PV, Hoogelegen PV &	Engineering Development	Project Manager & EAP
Boegoeberg PV projects, Northern Cape	Industrial Projects (EDIP)	110ject Mariager & LAI
Bobididi PV SEF, Limpopo	Root 60Four Energy	Project Manager & EAP
Boshof-Les Marais / Buitenfontein SEF, Free State	Bluewave Capital	Project Manager & EAP
Bosjesmansberg PV SEF, Northern Cape	Networx	Project Manager & EAP

Project Name & Location	Client Name	Role
Class 2 & Class 3 Road Networks in the vicinity of the	SMEC South Africa (on behalf	
proposed Tambo Springs Freight Hub, Gauteng	of Gauteng Department of	Project Manager & EAP
proposed rambo springs freight hob, Gabrerig	Roads & Transport)	
Hibernia SEF, North West	EA Energy	Project Manager & EAP
Lephalale PV SEF, Limpopo	Exxaro	Project Manager & EAP
Prieska PV SEF, Northern Cape	Terra SOlar	Project Manager & EAP
Solar Project near Vryburg, North West province	ABO Wind	Project Manager & EAP
PV SEF's (x15) for the projects for the REIPP small scale	Puilding Engray	Project Manager & EAD
BID, Nationwide	Building Energy	Project Manager & EAP
Senekal 1 & 2, Pongola & Newcastle PV SEF's, Kwa-	Ruilding Engray	Project Manager & EAP
Zulu-Natal	Building Energy	Project Manager & EAP
Small scale PV SEF project - 2nd Stage One	Bluewave Capital	Project Manager & EAP
Small scale PV SEF project - 2nd Stage One	Building Energy	Project Manager & EAP
Stella Helpmekaar SEF, North West	Bluewave Capital	Project Manager & EAP
Wolmaransstad Municipality SEF, North West	Bluewave Capital	Project Manager & EAP
Solar Project near Beaufort West, Western Cape	ABO Wind	Project Manager & EAP
Solar Project near Lichtenburg, Western Cape	ABO Wind	Project Manager & EAP
Solar Project near Hotazel, Western Cape	ABO Wind	Project Manager & EAP
Small-scale solar PV development site in Ekurhuleni	Genesis Eco-Energy	Project Manager & EAD
Metropolitan Municipality, Gauteng	Developments	Project Manager & EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the Contraction of the De Aar & Prieska PV	GeStamp	Project Manager
Facilities, Northern Cape		
ECO for the Construction of the Kathu PV Facility,	REISA / Building Energy	Project Manager
Northern Cape		

Compliance Advice and ESAP Reporting

Project Name & Location	Client Name	Role
ACWA Power SolarReserve Redstone Solar Plant,	SolarReserve	Environmental Advisor
Northern Cape	30Idi Kesel ve	Environmental Advisor
Bokpoort PV SEF, Northern Cape	Solafrica	Environmental Advisor
Boshof PV SEF, Free State	BlueWave	Environmental Advisor
Hennenman PV SEF, Free State	BlueWave	Environmental Advisor
Kathu II SEF, Northern Cape	Building Energy	Environmental Advisor
Kathu PV SEF, Northern Cape	Building Energy / REISA	Environmental Advisor
Prieska PV SEF, Northern Cape	VentuSA	Environmental Advisor
San Solar SEF, Northern Cape	VentuSA / Acciona	Environmental Advisor
Sishen PV SEF Phase 1, Northern Cape	Aveng / Acciona	Environmental Advisor
Wolmaransstad Municipality Solar PV SEF, North West	BlueWave	Environmental Advisor
ESAP reporting for the opertaion phase of the Mulilo	Mulilo and X-Elio	Environmental Advisor
Solar PV De Aar and Mililo Solar PV Prieska	Wolld Aria A Lilo	Environmental / (avisor

Due Diligence Reporting

Project Name & Location	Client Name	Role
Kabi Kimberley PV Plant, Northern Cape	Enertis Solar	Environmental Advisor
Sishen Solar Farm, Northern Cape	Acciona (Windfall 59 Properties)	Environmental Advisor
Vaal River Solar 1 PV plant, North West	Enertis Solar	Environmental Advisor

Environmental Permitting & Water Use License (WUL) Applications

Project Name & Location	Client Name	Role
Permitting for the Kathu PV SEF, Northern Cape	Abengoa Solar	Project Manager & EAP
S53 application for Kabi Kimberley De Beers PV	Kabi Energy	Project Manager & EAP
Plant, Northern Cape	Rabi Lileigy	
S53 application for the Blackwood PV SEF, Free State	VentuSA Energy	Project Manager & EAP
\$53 application for the Boundary PV SEF, Northern	Vantus A Engrav	Project Manager & EAP
Cape	VentuSA Energy	Project Manager & EAP
S53 application for Vaalkop & Witkop PV SEF's, North	Kabi Energy	Project Manager & EAP
West	Rabi Lifelgy	Project Manager & EAP
\$53 applications for various projects (Amandla		
Welang, Didar, Inkululeko, Kleinfontein, Klip Gat,	Terra Solar	Project Manager & EAP
Naau Poort, Toitdale & Tollie PV SEF's), Northern	Terra Solar	1 Toject Manager & LAI
Cape		
WUL application for the Woodhouse PV1 & PV2	Genesis Eco-Energy	Project Manager & EAP
SEF's, North West	Octions Eco-Energy	1 Tojoci Mariager & LAI

RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
De Aar CSP Energy facility, Northern Cape	African Clean Energy	Project Manager & EAP
De Adi Csi Eriergy (dciiiry, Norment Cape	Developments (ACED)	
Khi Solar One CSP facility, Northern Cape	Abengoa Solar	Project Manager & EAP
Noupoort CSP facility, Northern Cape	Cresco	Project Manager & EAP
Paulputs CSP facility, Northern Cape	Abengoa Solar	Project Manager & EAP
Pofadder & Upington CSP facilities, Northern Cape	Abengoa Solar	Project Manager & EAP
SolarReserve Kotulo Tsatsi CSP facility, Northern	SolarReserve	Project Manager & EAP
Cape province	Soldikeserve	Troject Manager & LAI
SolarReserve Kotulo Tsatsi CSP1 facility, Northern	Kotulo Tsatsi Energy and	Project Manager & EAP
Cape	SolarReserve South Africa	Troject Manager & LAI
SolarReserve Kotulo Tsatsi CSP2 facility, Northern	Kotulo Tsatsi Energy and	Project Manager & EAP
Cape	SolarReserve South Africa	Troject Manager & LAI
SolarReserve Kotulo Tsatsi CSP3 facility, Northern	Kotulo Tsatsi Energy and	Project Manager & EAP
Cape	SolarReserve South Africa	Troject Manager & LAI
Upington 2 CSP facility, Northern Cape	Abengoa Solar	Project Manager & EAP
Upington 3 CSP facility, Northern Cape	Abengoa Solar	Project Manager & EAP
Xina Solar One CSP facility, Northern Cape	Abengoa Solar	Project Manager & EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
KaXu Solar One facility, Northern Cape	Abengoa Solar	Project Manager
Khi Solar One facility, Northern Cape	Abengoa Solar	Project Manager
Xina Solar One facility, Northern Cape	Abengoa Solar	Project Manager

Screening Studies

Project Name & Location	Client Name	Role
Site Identification Tool for Proposed CSP Projects,	Exxaro	Environmental Advisor
Limpopo		

Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
Kaxu Solar One CSP facility, Northern Cape	Abengoa Solar	Environmental Advisor
Khi Solar One CSP facility, Northern Cape	Abengoa Solar	Environmental Advisor
SolarReserve Kotulo Tsatsi CSP facility, Northern	SolarReserve	Environmental Advisor
Cape province	30idikeseive	LITVII OTIITIETII AT ATVISOI
Xina One CSP facility, Northern Cape	Abengoa Solar	Environmental Advisor

RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
ABs WEF near Indwe, Eastern Cape	Rainmaker Energy	Project Manager & EAP
Amakhala Emoyeni WEF, Eastern Cape	Windlab Developments	Project Manager & EAP
Amatole (2 phases) WEF, Eastern Cape	Genesis ECO-Energy	Project Manager & EAP
Boulders Wind Farm, Western Cape	IPD Power	Project Manager & EAP
Britannia Bay WEF, Western Cape	Terra Power Solutions	Project Manager & EAP
Castle WEF in De Aar, Northern Cape	Juwi Renewable Energies	Project Manager & EAP
Cookhouse WEF, Eastern Cape	African Clean Energy Developments (ACED) & Tertia Waters	Project Manager & EAP
Deep River Wind Energy Facility, Eastern Cape	VentuSA Energy	Project Manager & EAP
Dorper Phase 1 WEF, Eastern Cape	Rainmaker Energy	Project Manager & EAP
Elliot WEF, Eastern Cape	Rainmaker Energy	Project Manager & EAP
Garob WEF, Northern Cape	Juwi Renewable Energies	Project Manager & EAP
Gouda WEF, Western Cape	VentuSA Energy	Project Manager & EAP
Great Karoo WEF, Northern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
Gunstfontein WEF, Northern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
Happy Valley WEF, Eastern Cape	REISA	Project Manager & EAP
Hidden Valley WEF, Northern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
Hopefield WEF, Western Cape	Umoya Energy	Project Manager & EAP
Karoo Renewable Energy Facility, Northern & Western Cape	SARGE	Project Manager & EAP
Karreebosch Wind Farm (Roggeveld Phase 2), Northern Cape & Western Cape	G7 Renewable Energies	Project Manager & EAP
Karusa Wind Farm, Northern Cape	African Clean Energy Development	Project Manager & EAP
Klipheuwel / Dassiesfontein WEF, Western Cape	BioTherm Energy	Project Manager & EAP
Nojoli WEF , Eastern Cape	African Clean Energy Developments	Project Manager & EAP
Nxuba WEF , Eastern Cape	African Clean Energy Developments	Project Manager & EAP
Olifants River WEF, Western Cape	SARGE	Project Manager & EAP

Project Name & Location	Client Name	Role
Oyster Bay WEF, Eastern Cape	RES	Environmental Advisor
Pofadder x3 WEF's, Northern Cape	Mainstream Renewable	Project Manager & EAP
Project Blue WEF, Northern Cape	Windy World	Project Manager & EAP
Rheboksfontein WEF, Western Cape	Moyeng Energy	Project Manager & EAP
Riverbank WEF near Wesley, Eastern Cape	Just Energy	Project Manager & EAP
Sere WEF, Western Cape	Eskom Generation	Project Manager & EAP
Soetwater Wind Farm, Northern Cape	African Clean Energy	Project Manager & EAP
3001Water Wind Family, Norment Cape	Development	Troject Manager & EAT
Springfontein WEF, Northern Cape	Mainstream Renewable	Project Manager & EAP
Stormberg WEF, Eastern Cape	Networx / Prana Energy	Project Manager & EAP
Suurplaat WEF, Western & Northern Cape	Moyeng Energy	Project Manager & EAP
Uiekraal WEF, Western Cape	Crenersol	Project Manager & EAP
West Coast One WEF, Western Cape	Moyeng Energy	Project Manager & EAP
West Coast WEF, Western Cape	Exxaro	Project Manager & EAP
Zen WEF near Gouda, Western Cape	VentuSA Energy	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Britannia Bay Wind Monitoring Mast, Western Cape	Terra Power Solutions	Project Manager & EAP
Caledon, Worcester & Tulbach Wind Monitoring Masts, Western Cape	SAGIT	Project Manager & EAP
Deep River Wind monitoring Mast, Eastern Cape	VentuSA Energy	Project Manager & EAP
Denhami Wind Farm, Western Cape	Richard Young	Project Manager & EAP
Dorper, Abs & Dobos Wind Monitoring Masts, Eastern Cape	Rainmaker Energy	Project Manager & EAP
Hopefield Wind Monitoring Mast, Western Cape	Umoya Energy	Project Manager & EAP
Klawer Wind Energy Facility, Western Cape	Vendiwell	Project Manager & EAP
Klipheuwel / Dassiesfontein Wind Monitoring Mast, Western Cape	BioTherm Energy	Project Manager & EAP
Riverbank Wind Monitoring Mast, Eastern Cape	Just Energy	Project Manager & EAP
Wind Monitoring Masts near Suurplaat, Western Cape	Investec Bank	Project Manager & EAP
Wind Monitoring Masts on the West Coast & Darling, Western Cape	Investec Bank	Project Manager & EAP

Screening Studies

Project Name & Location	Client Name	Role
Cookhouse WEF, Eastern Cape	African Clean Energy	Project Manager & EAP
Cookhoose Well, Easier Cape	Developments (ACED)	Troject Manager & LAI
De Aar WEF, Northern Cape	African Clean Energy	Project Manager & EAP
De Adi WLI, Normem Cape	Developments (ACED)	Troject Manager & LAI
Developments within identified areas in the	BioTherm Energy	Project Manager & EAP
Overberg, Western Cape	biomeim Energy	Flojeci Manager & EAF
Hopefield WEF, Western Cape	African Clean Energy	Project Manager & EAP
Hoperield WEI, Western Cape	Developments (ACED)	Troject Manager & LAI
Juno WEF, Western Cape	AMDA Developments	Project Manager & EAP
Lambert's Bat WEF, Western Cape	Vaayu Energy SA	Project Manager & EAP
Wind 500 – Eskom's investigation for new sites	Eskom Holdings	Project Manager & EAP
Struisbaai area WEF, Western Cape	Richard Young	Project Manager & EAP
Suurplaat WEF, Western Cape	Investec Bank	Project Manager & EAP
Theewaterskloof Municipality WEF, Western Cape	Theewaterskloof Municipality	Project Manager & EAP

Project Name & Location	Client Name	Role
WEF's on x2 site on the West Coast, Western Cape	Investec Bank	Project Manager & EAP
	Department of Environmental	
Various WEF's in the Western Cape	Affairs & Development	Project Manager & EAP
	Planning (DEA&DP)	
Van Reenens WEF, Kwa-Zulu Natal & Free State	4GREEN Development Africa	Project Manager & EAP
WEF Development within the Sandveld area,	Kovacs Investments (Nick	Project Manager & EAP
Western Cape	Prium)	Troject Manager & LAI

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the Construction of the Dorper Phase 1 WEF,	Rainmaker Energy	Project Manager
Eastern Cape		
ECO for the Construction of the Gouda Wind Farm,	Blue Falcon Trading	Project Manager
Western Cape		
EO for the Construction of the Dassiesklip WEF,	Group Five	Project Manager
Western Cape		

Compliance Advice & ESAP Reporting

Project Name & Location	Client Name	Role
Amakhala Emoyeni WEF, Eastern Cape	Windlab Developments	Environmental Advisor
Cookhouse II WEF, Eastern Cape	African Clean Energy	Environmental Advisor
Cookhouse II WEF, Eastern Cape	Developments	
Cookhouse WEF, Eastern Cape	African Clean Energy	Environmental Advisor
Cookhoose WELL, Eastern Cape	Developments	
Dorper Phase 1 WEF, Eastern Cape	Rainmaker Energy	Environmental Advisor
Garob WEF, Northern Cape	Juwi Renewable Energies	Environmental Advisor
Gouda WEF, Western Cape	Aveng / Acciona	Environmental Advisor
Happy Valley WEF, Eastern Cape	VentuSA Energy / EDPR	Environmental Advisor
Hidden Valley WEE Northern Cana	African Clean Energy	Environmental Advisor
Hidden Valley WEF, Northern Cape	Developments (ACED)	
Hopefield WEF, Western Cape	Umoya Energy	Environmental Advisor
Karusa Wind Farm, Northern Cape	African Clean Energy	Environmental Advisor
Kaiosa Willa Faith, Northern Cape	Development	
Loperberg WEF, Eastern Cape	Rainmaker Energy	Environmental Advisor
Nobelsfontein WEF, Northern Cape	Coria / SARGE	Environmental Advisor
Nojoli WEF , Eastern Cape	African Clean Energy	Environmental Advisor
Nojoli WEI , Eastern Cape	Developments (ACED)	
Nxuba WEF , Eastern Cape	African Clean Energy	Environmental Advisor
NAODA WEI , Easiein Cape	Developments	
Oyster Bay WEF, Eastern Cape	RES	Environmental Advisor
Riverbank Wind WEF, Eastern Cape	InnoWind	Environmental Advisor
Roggeveld Phase 1 WEF, Northern Cape	Building Energy	Environmental Advisor
Soetwater Wind Farm, Northern Cape	African Clean Energy	Environmental Advisor
Soetwarer Willia Farm, Northern Cape	Development	
Springfontein WEF, Northern Cape	Mainstream Renewable	Environmental Advisor
Zen WEF, Western Cape	VentuSA Energy	Environmental Advisor

Due Diligence Reporting

Project Name & Location	Client Name	Role
Gouda WEF, Western Cape	Blue Falcon Trading	Environmental Advisor

Project Name & Location	Client Name	Role
Loeriesfontein, Khobab & Noupoort WEF's, Northern Cape	Actis	Environmental Advisor
Roggeveld Wind Farm, Northern Cape	Building Energy	Environmental Advisor

Environmental Permitting & WUL Applications

Project Name & Location	Client Name	Role
Permitting for the Cookhouse WEF, Eastern Cape	African Clean Energy	Project Manager & EAP
Termining for the Cookhoose WLL, Eastern Cape	Developments (ACED)	110ject Manager & EAI
Permitting for the Karusa Wind Farm, Northern Cape	African Clean Energy	Project Manager & EAP
remining for the karosa wina rami, Northern Cape	Development	Froject Manager & EAF
Permitting for the Sere WEF, Western Cape	Eskom	Project Manager & EAP
Permitting for the Soetwater Wind Farm, Northern	African Clean Energy	Project Manager & EAP
Cape	Development	
Permitting Riverbank WEF, Eastern Cape	Electrawinds	Project Manager & EAP
S24G for the Klipheuwel / Dassiesfontein WEF,		Project Manager & EAD
Western Cape		Project Manager & EAP
S53 application for the Nxuba Wind Farm, Eastern	African Clean Energy	Project Manager & EAP
Cape	Developments (ACED)	Froject Manager & EAF
S53 Application for the Zen WEF, Western Cape	VentuSA Energy	Project Manager & EAP
WUL application for the Oyster Bay WEF, Eastern	RES	Project Manager & EAR
Cape	KES	Project Manager & EAP

CONVENTIONAL POWER GENERATION PROJECTS (COAL)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
H2 Energy Power Station, Mpumalanga	H2 Energy	Project Manager & EAP

Screening Studies

Project Name & Location	Client Name	Role
Coal fired power station in the Bethal area,	ISS Global	Project Manager & EAP
Mpumalanga	133 610001	Troject Manager & LAI
Indwe Power Station, Eastern Cape	IPSA	Project Manager & EAP
IPP Base Load Power Station Development in	Exxaro	Project Manager & EAP
Lephalale, Limpopo	Exalo	110ject Mariager & LAI

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ISO 14001:2015 Audit for the Hendrina Power Station,	Eskom Holdings	Project Manager
Mpumalanga		

GAS to POWER GENERATION PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ankerlig OCGT to CCGT Conversion project & the	Eskom Generation	Project Manager & EAP
Transmission Power Line between Ankerlig and the		
Omega Substation, Western Cape		
Gourikwa OCGT to CCGT Conversion project & the	Eskom Generation	Project Manager & EAP
Transmission Power Line between Gourikwa and the		

Proteus Substation, Western Cape		
Neopak Combined Heat and Power (CHP) Plant,	Neopak	Project Manager & EAP
Rosslyn, Gauteng		
Richards Bay Combined Cycle Gas Turbine (CCGT)	Eskom	Project Manager & EAP
Power Plant, Kwa-Zulu Natal		

Screening Studies

Project Name & Location	Client Name	Role
Environmental Analysis for Gas Transmission Pipelines	Energy Group	Project Manager
in the Clayville, Nigel and Wadeville areas, Gauteng		

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

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Afguns Road Realignment Project, Limpopo	Eskom Holdings	Project Manager & EAP
Expansion of the existing Welgedacht Water Care Works, Gauteng	ERWAT	Project Manager & EAP
Industrial Metals Cluster, Northern Cape	Northern Cape Department of Economic Development and Tourism	Project Manager & EAP
Modification of the existing Hartebeestfontein Water Care Works, Gauteng	ERWAT	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
New Raw Water Reservoir & Pipeline for the Medupi	Eskom Holdings	Project Manager & EAP
Power Station, Limpopo		
Msenge Emoyeni WEF Watercourse Crossings, Eastern	Windlab	Project Manager & EAP
Cape		
Dilokong Transport Facility, Limpopo	South African National Roads	Project Manager & EAP
	Agency Limited (SANRAL)	
Neopak Water Tratment Plant, Gauteng	Neopak	Project Manager & EAP
Realignment of MR73 Road for the Construction of	Abengoa Solar	Project Manager & EAP
the Paulputs CSP Facility, Northern Cape		
Biomass Storage Area in Support of the Mkuze	Building Energy	Project Manager & EAP
Biomass Power Station, KwaZulu-Natal		
Wastewater Dam & Pipeline in Support of the Mkuze	Building Energy	Project Manager & EAP
Biomass Power Station, Kwa-Zulu Natal		
Watercourse Crossings for the Klawer Wind Energy	Vendiwell	Project Manager & EAP
Facility, Western Cape		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the Construction of the Tiffindell Ski Resort,	Tiffindell Ski	ECO
Eastern Cape		
ECO for the Distribution centre & warehouse at Lords	Oliver & Partners	Project Manager
View Industrial Estate, Gauteng		
ECO for the Upgrade of the Waterval Wastewater	BCP Palace (on behalf of	Project Manager
Treatment Works, Gauteng	ERWAT)	

Compliance Advice and reporting

Project Name & Location	Client Name	Role
Mkuze Biomass Plant, Kwa-Zulu Natal	Building Energy	Environmental Advisor
Tiffindell Ski, Eastern Cape	Tiffindell Ski	Environmental Advisor

Environmental Permitting & WUL Applications

Project Name & Location	Client Name	Role
Permitting, S53 & WULA for the Mkuze Biomass Plant,	Building Energy	Project Manager & EAP
Kwa-Zulu Natal		
WULA for the Visserhok Waste Tyre Depot, Western	REDISA	Project Manager & EAP
Cape		
WULA for the Witbank Waste Tyre Depot,	REDISA	Project Manager & EAP
Mpumalanga		

MINING

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Compliance Audit for the Palesa Coal Mine WML,	HCI Coal	Project Manager
Mpumalanga province		
Compliance Audit Waste Use Licene for the Mbali	HCI Coal	Project Manager
Coal Mine, Mpumalanga province		

ENVIRONMENTAL MANAGEMENT TOOLS

Project Name & Location	Client Name	Role
Review the effectiveness & efficiency of the	National Department of	Environmental Advisor
environmental impact management (EIA) system in	Environmental Affairs	
South Africa, and formulate an environmental		
impact management strategy and action plan		
Drafting a Position Paper: Project Financing and	Standard Bank Group	Environmental Advisor
Environmental Risk Management (considering IFC		
Performance Standards & Equator Principles)		
EMP for the Phase 1 of the Elitheni Coal Mine	Elitheni Coal	Environmental Advisor
Project, Eastern Cape		
Gap Analysis of Environmental Management	Venture Diversified Products	Environmental Advisor
Systems (EMS) with ISO 14001:2004		
Development of Provincial Guidelines for 4x4 routes	Western Cape Department of	Environmental Advisor
	Environmental Affairs &	
	Development Planning	
Permitting Study on the Status of Renewable Energy	E.ON	Environmental Advisor
Projects in South Africa		
Practical review of EGI SEA	CSIR	Environmental Advisor
Development & Implementation of the	UBS AG	Environmental Advisor
Environmental Management Systems (EMS) with ISO		
14001:2004 for the UBS Office in Sandton, Gauteng		

Resource & Efficiency Plans for the operation phase	Mulilo and X-Elio	Environmental Advisor
of the Mulilo Solar PV De Aar and Mililo Solar PV		
Prieska		

TRAINING

Project Name & Location	Client Name	Role
Hendrina Power Station Environmental Law Training	Eskom Holding	Project Manager
Radar Training for NCC Biologists	EchoTracks	Project Manager