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# CURRICULUM VITAE OF KAREN JODAS

Profession:Environmental Management and Compliance Consultant; Environmental Assessment<br/>Practitioner. Professional Natural Scientist: Environmental Science since 1999.Specialisation:Strategic environmental assessment and advice; development of plans and guidelines;<br/>environmental compliance advise and monitoring; Environmental Impact Assessment;<br/>environmental management; project management and co-ordination of environmental<br/>projects; peer review; policy, strategy and guideline formulation; renewable energy<br/>projects; water resources management.

#### **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 years (20) of experience in the environmental management, impact assessment and compliance fields
- Eighteen (18) years of experience in Project Management Project management of large environmental assessment and management projects
- Strategic and compliance advise for all aspects of environmental assessment and management
- 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
- Experienced in environmental compliance advise, monitoring and reporting for construction projects
- 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
- Experienced in assessments for both linear developments and nodal developments
- Key experience in the assessment of impacts associated with renewable energy projects
- Wide range of experience for public and private sector projects
- Experienced consultant in projects in Sub-Saharan Africa.

#### 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 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 (2003)

## EMPLOYMENT

Date	Company	Roles and Responsibilities
2006 - Current:	Savannah Environmental (Pty) Ltd	Director
		Independent specialist environmental consultant,
		Environmental Assessment Practitioner (EAP) and
		advisor
1997 – 2005:	Bohlweki Environmental (Pty) Ltd	Associate
		Environmental Management Unit: Manager;
		Principle Environmental Scientist focussing on
		Environmental Management and Project
		Management

# PROJECT EXPERIENCE

Experience includes projects associated with 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
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
	African Clean Energy	
De Aar PV SEF, Northern Cape	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	BEEEntropie Renewable	Project Manager & EAD
State	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	Aurora Power Solutions	Draig at Managar & EAD
Саре	Autora 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	Kotulo Tsatsi Energy and	
province	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		

Project Name & Location	Client Name	Role
Tiger Kloof PV SEF near Vryburg, North West	Kabi Energy	Project Manager & EAP
Tiger Solar PV SEF, Northern Cape	Kabi Energy	Project Manager & EAP
Vaalkop and Witkop PV SEF's, North West	Kabi Solar	Project Manager & EAP
Wagnbietjiespan PV SEF, Free State	VentuSA	Project Manager & EAP
Wolmaransstad Municipality PV SEF, North West	BlueWave	Project Manager & EAP
Woodhouse PV 1 & PV 2 SEF's, North West	Genesis Eco-Energy	Project Manager & EAP
Zuurwater PV SEF's (x4), Northern Cape	Solafrica / BlueWave	Project Manager & EAP
Three PV SEF facilities in Lichtenburg, North West	Atlantic Energy Partners	Project Manager & EAP

## **Basic Assessments**

Project Name & Location	Client Name	Role
Amandla Welanga & Dida PV SEF's near Noupoort,	Tarra Calar	
Northern Cape	Terra Solar	Project Manager & EAP
Carolusberg PV SEF, Northern Cape	Ilio Energy (SARGE)	Project Manager & EAP
Gosforth Park and Kynoch Rooftop PV SEF's Northern		
Саре	Building Energy	Project Manager & EAP
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, Northern Cape	Brax Energy	Project Manager & EAP
Middelburg PV SEF, Mpumalanga	African Clean Energy Developments (ACED)	Project Manager & EAP
Nigramoep PV Solar Energy Plant, Northern Cape	SARGE	Project Manager & EAP
Noupoort (Kleinfontein and Toitdale) CPV, Northern Cape	Terra Power	Project Manager & EAP
O'Kiep 1 PV Solar Energy Plant, Northern Cape	Ilio 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 Cape	Southern Farms	Project Manager & EAP

#### **Screening Studies**

Project Name & Location	Client Name	Role
Allemans, Wonderheuwel, Damfontein & Dida PV SEF's, Northern Cape	Terra Solar	Project Manager & EAP
Amandla Welang, Gillmer & Inkululeko PV SEF's, Northern Cape GeoSolar/TerraSolar		Project Manager & EAP
Blouputs PV, Onseepkans PV, Hoogelegen PV & Boegoeberg PV projects, Northern Cape	Engineering Development Industrial Projects (EDIP)	Project Manager & EAP
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 proposed Tambo Springs Freight Hub, Gauteng	SMEC South Africa (on behalf of Gauteng Department of Roads & Transport)	Project Manager & EAP
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
Proposed Solar Project near Hotazel, Northern Cape province	ABO Wind	Project Manager & EAP
Proposed Solar Project near Beaufort West, Western Cape	ABO Wind	Project Manager & EAP
Proposed Solar Project near Lichtenburg, North West province	ABO Wind	Project Manager & EAP
PV SEF's (x15) for the projects for the REIPP small scale BID, Nationwide	Building Energy	Project Manager & EAP
Senekal 1 & 2, Pongola & Newcastle PV SEF's, Kwa- 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

# 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	3010111636176	
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		

# Due Diligence Reporting

Project Name & Location	Client Name	Role
Kabi Kimberley PV Plant, Northern Cape	Enertis Solar	Environmental Advisor

Project Name & Location	Client Name	Role
Sishen Solar Farm, Northern Cape	Acciona (Windfall 59	Environmental Advisor
	Properties)	
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
\$53 application for Kabi Kimberley De Beers PV	Kabi Energy	Project Manager & EAD
Plant, Northern Cape	Kubi Lileigy	Project Manager & EAP
\$53 application for the Blackwood PV SEF, Free State	VentuSA Energy	Project Manager & EAP
\$53 application for the Boundary PV SEF, Northern	VentuSA Energy	Project Manager & EAP
Саре	veniusa energy	hojeci manager & LA
\$53 application for Vaalkop & Witkop PV SEF's, North	Kabi Energy	Project Manager & EAP
West	Kubi Energy	hojeci Manager & LA
\$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		
Саре		
WUL application for the Woodhouse PV1 & PV2	Genesis Eco-Energy	Project Manager & EAP
SEF's, North West	Concis Leo Energy	

# 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 Developments (ACED)	Project Manager & EAP
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 Cape province	SolarReserve	Project Manager & EAP
SolarReserve Kotulo Tsatsi CSP1 facility, Northern Cape	Kotulo Tsatsi Energy and SolarReserve South Africa	Project Manager & EAP
SolarReserve Kotulo Tsatsi CSP2 facility, Northern Cape	Kotulo Tsatsi Energy and SolarReserve South Africa	Project Manager & EAP
SolarReserve Kotulo Tsatsi CSP3 facility, Northern Cape	Kotulo Tsatsi Energy and SolarReserve South Africa	Project Manager & EAP
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	Soldikeselve	
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	Ventu\$A 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 & EAR
Soerwarer wind Farm, Normern Cape	Development	Project Manager & EAP
Springfontein WEF, Northern Cape	Mainstream Renewable	Project Manager & EAP
Stormberg WEF, Eastern Cape	Networx / Prana Energy	Project Manager & EAP
Suurplaat WEF, Western & Northern Cape	Moyneg 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

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
Cookhouro WEE Eastern Cano	African Clean Energy	
Cookhouse WEF, Eastern Cape	Developments (ACED)	Project Manager & EAP
Do Agr WEE Northorn Cano	African Clean Energy	Draig at Managar & EAD
De Aar WEF, Northern Cape	Developments (ACED)	Project Manager & EAP
Developments within identified areas in the	PioThorm Enorgy	Project Manager & EAR
Overberg, Western Cape	BioTherm Energy	Project Manager & EAP
Hanafield WEE Western Cana	African Clean Energy	
Hopefield WEF, Western Cape	Developments (ACED)	Project Manager & EAP
Juno WEF, Western Cape	AMDA Developments	Project Manager & EAP
Lambert's Bat WEF, Western Cape	Vaayu Energy SA	Project Manager & EAP
Process of Sites for various WEE's	Thabo Consulting (on behalf	Draig at Managar & EAD
Prospect Sites for various WEF's	of Eskom Holdings)	Project Manager & EAP
Struis Baai area WEF, Western Cape	Richards Young	Project Manager & EAP
Suurplat 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)	FTOJECT MUNUGEL& EAF

## 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
	African Clean Energy	Environmental Advisor
Cookhouse II WEF, Eastern Cape	Developments	
Cookbourg WEE Eastern Cano	African Clean Energy	Environmental Advisor
Cookhouse WEF, 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
Lliddon Vallov WEE Northorn Cano	African Clean Energy	Environmental Advisor
Hidden Valley WEF, Northern Cape	Developments (ACED)	
Hopefield WEF, Western Cape	Umoya Energy	Environmental Advisor
Karusa Wind Farm Northern Cana	African Clean Energy	Environmental Advisor
Karusa Wind Farm, Northern Cape	Development	
Loperberg WEF, Eastern Cape	Rainmaker Energy	Environmental Advisor
Nobelsfontein WEF, Northern Cape	Coria / SARGE	Environmental Advisor
Naiali WEE Eastarn Cana	African Clean Energy	Environmental Advisor
Nojoli WEF , Eastern Cape	Developments (ACED)	
Nyuba WEE Eastern Cape	African Clean Energy	Environmental Advisor
Nxuba WEF , Eastern 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
Secturator Wind Form Northern Case	African Clean Energy	Environmental Advisor
Soetwater Wind 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
r ennining for the cookhoose wer, Eastern Cape	Developments (ACED)	
Permitting for the Karusa Wind Farm, Northern Cape	African Clean Energy	Project Manager & EAP
remining for the kalosa wind ram, Normen Cape	Development	
Permitting for the Sere WEF, Western Cape	Eskom	Project Manager & EAP
Permitting for the Soetwater Wind Farm, Northern	African Clean Energy	Project Manager & EAP
Саре	Development	
Permitting Riverbank WEF, Eastern Cape	Electrawinds	Project Manager & EAP
S24G for the Klipheuwel / Dassiesfontein WEF,		Project Manager & EAP
Western Cape		riojeci manager & LA
\$53 application for the Nxuba Wind Farm, Eastern	African Clean Energy	Project Manager & EAP
Саре	Developments (ACED)	riojeci manager & LA
\$53 Application for the Zen WEF, Western Cape	VentuSA Energy	Project Manager & EAP
WUL application for the Oyster Bay WEF, Eastern	RES	Project Manager & EAP
Саре	INLO	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, Mpumalanga	ISS Global	Project Manager & EAP
Indwe Power Station, Eastern Cape	IPSA	Project Manager & EAP
IPP Base Load Power Station Development in Lephalale, Limpopo	Exxaro	Project Manager & EAP

#### 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		

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

# 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	Eskom Holdings	Project Manager
in the Clayville, Nigel, and Wadeville areas,		
Gauteng		

# 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 Substation, Eastern Cape	Cennergi	Project Manager & EAP
Bon Espirange Substation & Overhead Power Line for	Building Energy (G7	Project Manager & EAP
the Roggeveld Wind Farm, Northern Cape	Renewable Energies)	
Castle WEF Powerline, Northern Cape	Juwi Renewable Energies	Project Manager & EAP
Cuprum-Burchell; Burchell-Mooidraai Power Line, Nothern Cape	Eskom	Project Manager & EAP
Expansion of the Komsberg Main Transmission Substation, Northern Cape	Enel Green Power	Project Manager & EAP
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 Infrastructure, Northern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
llanga Lethemba-Hydra, Northern Cape	Solar Capital	Project Manager & EAP
Iziduli Emoyeni WEF on-site substation, Power Line & Switching station, Access Roads & Watercourse Crossings, Eastern Cape	Windlab	Project Manager & EAP
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 Cape	Coria / SARGE	Project Manager & EAP
Nojoli WEF Substation & Power Line Grid Connection,	African Clean Energy	Droig of Manager & EAD
Eastern Cape	Developments (ACED)	Project Manager & EAP
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, Northern Cape	VentuSA Energy	Project Manager & EAP

Power Line & Substation for the Khobab WEF in Loeriesfontein, Northern Cape	Mainstream Renewable	Project Manager & EAP
Power Line Connecting the Sishen SEF to the Ferrum MTS-UMTU Klip Kop Power Line, Northern Cape	Acciona (Windfall 59 Properties)	Project Manager & EAP
Power Line for the Grid Connection of the 2 SEF's near 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 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	

## 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
Саре		
Dilokong Transport Facility, Limpopo	South African National Roads	Project Manager & EAP
	Agency Limited (SANRAL)	
Neopak Water Tratment Plant, Gauteng	Neopak	Project Manager & EAP

Project Name & Location	Client Name	Role
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, \$53 & 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



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

# CURRICULUM VITAE OF LISA OPPERMAN

Profession :Environmental Assessment Practitioner and GIS ConsultantSpecialisation:Environmental Impact Assessments, Basic Assessments, Site Screening and Site Selection<br/>reporting, compilation of maps through the use of ArcGIS, Social Impact Assessments<br/>4 years and 10 months of experience in the environmental management and GIS field

#### **VOCATIONAL EXPERIENCE**

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

#### SKILLS BASE AND CORE COMPETENCIES

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

#### EDUCATION AND PROFESSIONAL STATUS

#### Degrees:

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

#### Courses:

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

# EMPLOYMENT

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

## **PROJECT EXPERIENCE**

#### **Renewable Power Generation Projects: Solar Energy Facilities**

#### **Screening Studies**

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

## Environmental Impact Assessments and Environmental Management Programmes

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

#### **Basic Assessments**

Project Name & Location	Client Name	Role
Harmony Gold 3x PV Facilities, Welkom, Free State	BBEntropie	EAP and GIS Consultant
Khunab Solar Development, consisting of Klip Punt	Atlantic Energy Partners and	Project management,
PV1, McTaggarts PV1, McTaggarts PV2,	Abengoa	Social Impact Assessment
McTaggarts PV3 and the Khunab solar Grid		

Connection near Upington, Northern Cape		Specialist and GIS
Province		Consultant
Sirius Solar PV3 and PV4, near Upington, Northern	Solal	Co-author to Social Impact
Cape Province		Assessments

### Renewable power generation projects: Wind Energy Facilities

# **Screening Studies**

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

# Environmental Impact Assessments and Environmental Management Programmes

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

## Grid Infrastructure Projects

#### **Basic Assessments**

Project Name & Location	Client Name	Role
132/11kV Olifantshoek Substation and Power Line,	Eskom	EAP and GIS Consultant
Northern Cape		
Grid connection infrastructure for the Namas Wind	Genesis Namas Wind (Pty) Ltd	EAP and GIS Consultant
Farm, Northern Cape Province		
Grid connection infrastructure for the Zonnequa	Genesis Zonnequa Wind (Pty)	EAP and GIS Consultant
Wind Farm ,Northern Cape Province	Ltd	
Khunab Solar Grid Connection, near Upington,	Atlantic Energy Partners and	Project management,
Northern Cape Province	Abengoa	Social Impact Assessment
		Specialist and GIS
		Consultant

## <u>Gas Projects</u>

#### Environmental Impact Assessments and Environmental Management Programmes

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

#### **Basic Assessments**

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

#### **Screening Studies**

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

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

#### **Basic Assessments**

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

#### Housing and Urban Projects

## Environmental Impact Assessments and Environmental Management Programmes

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

# Environmental Management Tools

#### **Environmental Management Programmes**

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

# Environmental and Social Management System (ESMS)

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



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

# CURRICULUM VITAE OF NICOLENE VENTER

Profession :	Public Participation and Social Consultant
Specialisation:	Public participation process; stakeholder engagement; facilitation (workshops, focus group and public meetings; public open days; steering committees); monitoring and evaluation of public participation and stakeholder engagement processes
Work Experience:	21 years' experience as a Public Participation Practitioner and Stakeholder Consultant

#### VOCATIONAL EXPERIENCE

Over the past 21 years Nicolene established herself as an experienced and well recognised public participation practitioner, facilitator and strategic reviewer of public participation processes. She has experience in managing public participation projects and awareness creation programmes. Her experience includes designing and managing countrywide public participation and awareness creation projects, managing multi-project schedules, budgets and achieving project goals. She has successfully undertaken several public participation processes for EIA, BA and WULA projects. The EIA and BA process include linear projects such as the NMPP, Eskom Transmission and Distribution power lines as well as site specific developments such as renewable energy projects i.e. solar, photo voltaic and wind farms. She also successfully managed stakeholder engagement projects which were required to be in line with the Equator Principles.

#### SKILLS BASE AND CORE COMPETENCIES

- Project Management
- Public Participation, Stakeholder Engagement and Awareness Creation
- Public Speaking and Presentation Skills
- Facilitation (workshops, focus group meetings, public meetings, public open days, working groups and committees)
- Social Assessments (Stakeholder Analysis / Stakeholder Mapping)
- Monitoring and Evaluation of Public Participation and Stakeholder Engagement Processes
- Community Liaison
- IFC Performance Standards
- Equator Principles
- Minute taking, issues mapping, report writing and quality control

#### EDUCATION AND PROFESSIONAL STATUS

#### Degrees:

• Higher Secretarial Certificate, Pretoria Technicon (1970)

#### Short Courses:

- Techniques for Effective Public Participation, International Association for Public Participation, IAP2 (2008)
- Foundations of Public Participation (Planning and Communication for Effective Public Participation, IAP2 (2009)
- Certificate in Public Relations, Public Relation Institute of South Africa, Damelin Management School (1989)

# Professional Society Affiliations:

• Board Member of International Association for Public Participation (IAP2): Southern Africa

# EMPLOYMENT

Date	Company	Roles and Responsibilities
November 2018 –	Savannah Environmental (Pty) Ltd	Public Participation and Social Consultant
current		<b>T</b> - 1 - 1 - 1 - 1
		<u>Tasks include:</u>
	Tasks include: Drafting of a Plan with key deliverable date to be followed, Backgr Document, Letters to Stakehol and/or Affected Parties (I&A project deliverables and resp concerns raised; Stakehol facilitating stakeholder works and public meetings; con consultation with Commun Chiefs, affected landowners, e	
		Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved.
2016 – October 2018	Imaginative Africa (Pty) Ltd	Independent Consultant
	(company owned by Nicolene Venter)	Consulting to various Environmental Assessment Practitioners for Public Participation and Stakeholder Engagements:
		<u>Tasks include:</u>
		Tasks include: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.
		Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project

		affected areas, attend to the level of technical
		information communicated to and consultation
		with all level of stakeholders involved
		<u>Clients</u> :
		SiVEST Environmental, Savannah Environmental,
		Baagi Environmental; Royal Haskoning DHV
0012 0017	7itheololo Course this st	(previously SSI)
2013 - 2016	Zitholele Consulting	Senior Public Participation Practitioner and
		Project Manager
	Contact person: Dr Mathys Vosloo	
	Contact number: 011 207 2060	Tasks included:
		Project managed public participation process for
		EIA/BA/WULA/EAL projects. Manages two Public
		Participation Administrators. Public Participation
		tasks as outlined as above and including financial
		management of public participation processes.
2011 - 2013	Imaginative Africa (Pty) Ltd	Independent Consultant
	(company owned by Nicolene	Consulting to various Environmental Assessment
	Venter)	Practitioners for Public Participation and
		Stakeholder Engagements
		Tasks included:
		Drafting of a Public Participation Plan with key
		deliverable dates and methodology to be
		followed, Background Information Document,
		Letters to Stakeholders and Interested and/or
		Affected Parties (I&APs) inclusive of key project
		deliverables and responses to questions /
		concerns raised; Stakeholder identification;
		facilitating stakeholder workshops, focus group
		and public meetings; conduct one-on-one
		consultation with Community Leaders, Tribal
		Chiefs, affected landowners, etc.
		Managing interaction between Stakeholders and
		Team Members, liaising with National, Provincial
		and Local Authorities, managing community
		consultation and communications in project
		affected areas, attend to the level of technical
		information communicated to and consultation
		with all level of stakeholders involved
		<u>Clients</u> :
		Bohlweki Environmental, Bembani Sustainability
		(Pty) Ltd; Naledzi Environmental
2007 – 2011	SiVEST SA (Pty) Ltd	Unit Manager: Public Participation Practitioner
	Contact person: Andrea Gibb	Tasks included:
	Contact number: 011 798 0600	Project managed public participation process for
		EIA/BA projects. Manages two Junior Public
		Participation Practitioners. Public Participation
		ramelpanon nacimoneis. rublic ramelpation

		tasks as outlined as above and including financial
		management of public participation processes.
2005 – 2006	Imaginative Africa (Pty) Ltd (company owned by Nicolene Venter)	Independent Consultant Public Participation and Stakeholder Engagement Practitioner
		<u>Tasks included:</u> Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.
		Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved.
		<u>Clients</u> : Manyaka-Greyling-Meiring (previously Greyling Liaison and currently Golder Associates)
1997 - 2004	Imaginative Africa (Pty) Ltd (company owned by Nicolene Venter)	Independent Consultant: Public Participation Practitioner.
		Tasks included:
		Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, affected landowners, etc.
		Managing interaction between Stakeholders and Team Members, liaising with National, Provincial Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical

	information communicated to and consultation with all level of stakeholders involved.	
	<u>Clients</u> : Greyling Liaison (currently Golder Associates); Bembani Sustainability (Pty) Ltd; Lidwala Environmental; Naledzi Environmental	

# PROJECT EXPERIENCE

## RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

## Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Lichtenburg PVs (3 PVs) & Power Lines (grid	Atlantic Energy Partners	Project Manage the Public
connection), Lichtenburg, North West Province	EAP: Savannah Environmental	Participation Process
		Facilitate all meetings
Allepad PVs 4 PVs) & Power Lines (grid	IL Energy	Consultation with
connection), Upington, Northern Cape Province	EAP: Savannah Environmental	Government Officials, Key
		Stakeholders, Landowners &
Hyperion Solar PV Developments (4 PVs) and	Building Energy	Community Leaders
Associated Infrastructures, Kathu, Northern Cape	EAP: Savannah Environmental	
Province		
Aggeneys Solar PV Developments (2 PVs) and	Atlantic Energy Partners and	1
Associated Infrastructures, Aggeneys, Northern	ABO Wind	
Cape Province	EAP: Savannah Environmental	

Project Name & Location	Client Name	Role
Tlisitseng PV, including Substations & Power Lines,	BioTherm Energy	Public Participation,
Lichtenburg, North West Province	EAP: SiVEST	Landowner and Community
Sendawo PVs, including Substations & Power Lines,		Consultation
Vryburg, North West Province		
Helena Solar 1, 2 and 3 PVs, Copperton, Northern		
Cape Province		
Farm Spes Bona 23552 Solar PV Plants,	Surya Power	Public Participation,
Bloemfontein, Free State Province	EAP: SiVEST	Landowner and Community
		Consultation
De Aar Solar Energy Facility, De Aar, Northern	South Africa Mainstream	Public Participation,
Cape Province	Renewable Power	Landowner and Community
Droogfontein Solar Energy Facility, Kimberley,	Developments	Consultation
Northern Cape Province	EAP: SIVEST	
Kaalspruit Solar Energy Facility, Loeriesfontein,		
Northern Cape Province		
Platsjambok East PV, Prieska, Northern Cape		
Province		
Renosterburg PV, De Aar, Northern Cape Province	Renosterberg Wind Energy	Public Participation,
	Company	Landowner and Community
	EAP: SIVEST	Consultation

ſ	19MW Solar Power Plant on Farm 198 (Slypklip),	Solar Reserve South Africa	Public Participation,
	Danielskuil, Northern Cape Province	EAP: SIVEST	Landowner and Community
			Consultation

# Basic Assessments and Environmental Management Programmes – Located within the Renewable Energy Development Zones (REDZ)

Project Name & Location	Client Name	Role
Moeding Solar PV Solar Energy Facility, Vryburg,	Kabi Solar	Project Manage the Public
North West Province	EAP: Savannah Environmental	Participation Process Facilitate all meetings
Sirius Solar PV Solar Energy Facility, Upington, Northern Cape Province	SOLA Future Energy EAP: Savannah Environmental	Consultation with
Nonneni Cupe Hovince		Government Officials, Key Stakeholders, Landowners &
		Community Leaders

#### **RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES**

#### Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Aletta Wind Farm, Copperton, Northern Cape	BioTherm Energy	Public Participation
Province	EAP: SIVEST	
Eureka Wind Farm, Copperton, Northern Cape		
Province		
Loeriesfontein Wind Farm, Loeriesfontein, Northern	South Africa Mainstream	Public Participation
Cape Province	Renewable Power	
Droogfontein Wind Farm, Loeriesfontein, Northern	Developments	
Cape Province	EAP: SIVEST	
Four Leeuwberg Wind Farms, Loeriesfontein,		
Northern Cape Province		
Noupoort Wind Farm, Noupoort, Northern Cape		
Province		
Mierdam PV & Wind Farm, Prieska, Northern Cape		
Province		
Platsjambok West Wind Farm & PV, Prieska,		
Northern Cape Province		

# Basic Assessments and Environmental Management Programmes – Located within the Renewable Energy Development Zones (REDZ)

Project Name & Location	Client Name	Role
Nama Wind Energy Facility, Northern Cape	Genesis ECO	Project Manage the Public
Province	EAP: Savannah Environmental	Participation Process
		Facilitate all meetings
		Consultation with
		Government Officials, Key
Zonnequa Wind Energy Facility, Northern Cape		Stakeholders, Landowners
Province		& Community Leaders

# **Environmental Authorisation Amendments**

Project Name & Location	Client Name	Role

Beaufort West 280MW Wind Farm into two 140MW	South Africa Mainstream	Public Participation
Trakas and Beaufort West Wind Farms, Western	Renewable Power	
Саре	Developments	
	EAP: SIVEST	

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

#### Environmental Impact Assessments and Environmental Management Programmes

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Project Name & Location	Client Name	Role
Upington Concentrating Solar Plant and	Eskom Holdings	Public Participation
associated Infrastructures, Northern Cape	EAP: Bohlweki Environmental	
Provionce		

#### **GRID INFRASTRUCTURE PROJECTS**

#### Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Pluto-Mahikeng Main Transmission Substation and	Eskom Holdings	
400kV Power Line (Carletonville to Mahikeng),	EAP: Baagi Environmental	
Gauteng and North West Provinces		
Thyspunt Transmission Lines Integration Project,	Eskom Holdings	Public Participation,
Eastern Cape Province	EAP: SIVEST	Landowner and Community
		Consultation
Westrand Strengthening Project, Gauteng Province		
Mookodi Integration Project, North-West Province		Public Participation,
Transnet Coallink, Mpumalanga and KwaZulu-Natal		r oblic r dificipation,
Provinces		
Delarey-Kopela-Phahameng Distribution power line		
and newly proposed Substations, North-West		Public Participation,
Province		Landowner and Community
Invubu-Theta 400kV Eskom Transmission Power Line,	Eskom Holding	Consultation
KwaZulu-Natal Province	EAP: Bembani Environmental	

#### **Facilitation**

Project Name & Location	Client Name	Meeting Type
Bloemfontein Strengthening Project, Free State	Eskom Holdings	Public Meetings
Province	EAP: Baagi Environmental	
Mooidraai-Smitkloof 132kV Power Line and	Eskom Holdings	Focus Group Meetings
Substation, Northern Cape Province	EAP: SSI	
Aggeneis-Oranjemond 400kV Eskom Transmission	Eskom Holdings	Focus Group Meetings &
Power Line, Northern Cape Province	EAP: Savannah Environmental	Public Meetings
Ariadne-Eros 400kV/132kV Multi-Circuit Transmission	Eskom Holdings	Public Meetings
Power Line (Public Meetings)	EAP: ACER Africa	
Majuba-Venus 765kV Transmission Power Lines,	1	Public Meetings
Mpumlanaga Province		

# Basic Assessments and Environmental Management Programmes Project Name & Location Client Name Role

Melkhout-Kudu-Grassridge 132kV Power Line Project (project not submitted to DEA), Eastern Cape Province Tweespruit-Welroux-Driedorp-Wepener 132Kv	Eskom Holdings EAP: SiVEST	Public Participation, Landowner and Community Consultation Public Participation,
Power Line, Free State Province		Landowner and Community Consultation
Kuruman 132Kv Power Line Upgrade, Northern	Eskom Holdings	Public Participation,
Cape Province	EAP: Zitholele	Landowner and Community
		Consultation
Vaalbank 132Kv Power Line, Free State Province		Public Participation,
		Landowner and Community
		Consultation
Pongola-Candover-Golela 132kV Power Line		Public Participation,
(Impact Phase), KwaZulu-Natal Province		Landowner and Community
		Consultation
Ndumo-Geziza 132kV Power Line, KwaZulu-Natal	1	Public Participation,
Province		Landowner and Community
		Consultation

#### **Screening Studies**

Project Name & Location	Client Name	Role
Potential Power Line Alternatives from Humansdorp	Nelson Mandela Bay	Social Assessment
to Port Elizabeth, Eastern Cape Province	Municipality	
	EAP: SIVEST	

# CONVENTIONAL POWER GENERATION PROJECTS (COAL, GAS AND ASSOCIATED INFRASTRUCTURE)

# Stakeholder Engagement

Project Name & Location	Client Name	Role
Determination, Review and Implementation of the	Department of Water and	Secretarial Services
Reserve in the Olifants/Letaba System	Sanitation	
Orange River Bulk Water Supply System	Golder Associates	
Levuvu-Letaba Resources Quality Objectives		

#### Facilitation

Project Name & Location	Client Name	Meeting Type
Thabametsi IPP Power Station, Limpopo Province	Thabametsi Power Company	Focus Group Meeting &
	EAP: Savannah Environmental	Public Meeting

## Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Richards Bay Combined Cycle Power Plant,	Eskom Holdings	Public Participation
Richards Bay, Kwa-Zulu Natal Province (Impact	EAP: Savannah Environmental	
Phase)		
Medupi Flue Gas Desulphurisation Project (up to	Eskom Holdings SOC Ltd	Public Participation,
completion of Scoping Phase), Limpopo Province	EAP: Zitholele Consulting	Landowner and Community
Kendal 30-year Ash Disposal Facility, Mpumalanga		Consultation
Province		
Kusile 60-year Ash Disposal Facility, Mpumalanga		
Province		

Camden Power Station Ash Disposal Facility,		
Mpumalanga Province		
Tutuka Fabric Filter Retrofit and Dust Handling Plant	Eskom Holdings SOC Ltd	Public Participation,
Projects, Mpumalanga Province	EAP: Lidwala Environmental	Landowner and Community
		Consultation
Eskom's Majuba and Tutuka Ash Dump Expansion,	]	Public Participation,
Mpumalanga Province		Landowner and Community
		Consultation
Hendrina Ash Dam Expansion, Mpumalanga	]	Public Participation,
Province		Landowner and Community
		Consultation

# INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, RAILWAY LINES, ROADS, WATER RESOURCES, STORAGE FACILITIES, ETC)

#### Facilitation

Project Name & Location	Client Name	Meeting Type
Determination, Review and Implementation of the	Department of Water and	Secretarial Services
Reserve in the Olifants/Letaba System	Sanitation	
	Golder Associates	
Orange River Bulk Water Supply System	Department of Water and	Secretarial Services
	Sanitation	
	Golder Associates	
Levuvu-Letaba Resources Quality Objectives	Department of Water and	Secretarial Services
	Sanitation	
	Golder Associates	
SmancorCR Chemical Plant (Public Meeting),	Samancor Chrome (Pty) Ltd	Public Meeting
Gauteng Province	EAP: Environment al Science	
	Associates	
SANRAL N4 Toll Highway Project (2 <sup>nd</sup> Phase),	Department of Transport	Public Meetings
Gauteng & North West Provinces	EAP:	

#### Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Transnet's New Multi-Products Pipeline traversing	Transnet	Public Participation
Kwa-Zulu Natal, Free State and Gauteng Provinces	EAP: Bohlweki Environmental	

#### **Basic Assessments**

Project Name & Location	Client Name	Role
Realignment of the Bulshoek Dam Weir near Klawer	Dept of Water and Sanitation	Public Participation
and the Doring River Weir near Clanwilliam,	EAP: Zitholele	
Western Cape Province		

#### MINING SECTOR

#### Environmental Impact Assessment and Environmental Management Programme

Project Name & Location	Client Name	Role
Zero Waste Recovery Plant at highveld Steel,	Anglo African Metals	Public Participation
Mpumalanga Province	EAP: Savannah Environmental	
Koffiefontein Slimes Dam, Free State Province	Petra Diamond Mines	Public Participation
	EAP: Zitholele	

Baobab Project: Ethenol Plant, Chimbanje, Middle	Applicant: Green Fuel	Public Participation &
Sabie, Zimbabwe	EAP: SIVEST	Community Consultation
BHP Billiton Energy Coal SA's Middelburg Water	BHP Billiton Group	Public Participation
Treatment Plant, Mpumalanga	EAP: Jones & Wagener	



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# CURRICULUM VITAE OF JANA DE JAGER

Profession :	Environmental Assessment Practitioner	
Specialisation:	Environmental Assessments, report writing, and GIS	
Work Experience:	2.5 years' experience in Environmental Assessments & GIS	

#### **VOCATIONAL EXPERIENCE**

Professional execution of consulting services for projects in the environmental management field, specialising in Environmental Impact Assessment studies, water assessments, environmental permitting, public participation, compilation of Environmental Management Plans and Programmes, and integrated environmental management. 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 energy developments, industrial manufacturing projects (asphalt plants), waste treatment projects (HCRW), and water use licensing for Mixed-Use Developments.

#### SKILLS BASE AND CORE COMPETENCIES

- Compilation of environmental impact assessment reports and environmental management programmes in accordance with relevant environmental legislative requirements;
- GIS analysis and mapping as per project specifications

## EDUCATION AND PROFESSIONAL STATUS

#### Degrees:

- B.Sc. (Hons) Environmental Science & Geography (2017), University of Pretoria (UP)
- B.Sc. Environmental Science (2016), University of Pretoria (UP)

#### Short Courses:

- Beginning Project Management: Project Management Level 1 (2020) Joseph Phillips (Udemy)
- CBSS Water Governance Training Course (2019) Carin Bosman, Water use governance Specialist
- Environmental Law Update Workshop (2018) IMBEWU Sustainability Legal Specialists
- Official DWS Section 21 (c) and (i) Water Use Authorisation Course (2018) Dr Wietsche Roets, Specialist Scientist: (In Stream Water Use);

#### Professional Society Affiliations:



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

 South African Council for Natural Scientific Professionals - Candidate Natural Scientist: Environmental Scientist – Reg No. 120039

#### Other Relevant Skills:

- Water Use Licensing on EWULAAS
- Compiling project budgets and proposals

#### EMPLOYMENT

Date	Company	Roles and Responsibilities	
01 September 2020 -	Savannah Environmental (Pty) Ltd	Environmental Assessment Practitioner & GIS	
Current:		Consultant	
		Tasks include:Compilation of Environmental Impact Assessment(EIA) reports; Basic Assessment (BA) reports andEnvironmental Management Programmes;Environmental Screening reports; GIS mapping;Co-ordination of the public participation process;Project management; project proposals andtenders; Client liaison and Marketing; Process EIAApplications.	
16 January 2018 – 29 August 2020	AquaEco	Junior Environmental Consultant	
		Tasks included:DraftingEnvironmentalApplications;BasicAssessment & EnvironmentalImpact AssessmentReports,andEMPrforreview;assistinginenvironmentalaudits.Publicparticipationliaison.LoadingWaterUseLicenceinformationontoE-WUULASsystemKenterKenterKenterKenterKenter	

#### PROJECT EXPERIENCE

Jana has experience in conducting environmental impact assessments for industrial manufacturing projects (asphalt plants), waste treatment projects (HCRW), and water use licensing for Mixed-Use Developments. She has gained the ability to conduct project specific mapping and GIS analysis.

#### RENEWABLE ENERGY PROJECTS



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#### **Basic Assessments**

Project Name & Location	Client Name	Role
Establishment of various infrastructure at the Msenge	Amakhala Emoyeni	Junior EAP
Emoyeni WEF	Renewable Energy (Pty) Ltd	GIS
132kV power line for Hyperion Hybrid Facility	Hyperion Solar Hybrid (Pty) Ltd	Junior EAP
		GIS

#### **OTHER PROJECTS**

#### Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Atholl Square Construction Environmental	PIC	EMPr Author
Management Programme		
Roadspan Asphalt Plant, Belfast, Mpumalanga	Roadspan Surfaces	Junior EAP
Rooiberg Asphalt Plant, Pretoria Gauteng	Rooiberg Asphalt	Junior EAP

#### **Basic Assessments**

Project Name & Location	Client Name	Role
Buhle Waste HCRW Treatment Plant	Buhle Waste	Junior EAP

#### Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
TRAC N4 Toll Route Annual Audit	TRAC N4	Assistant Auditor
TRAC N4 Toll Route Annual Water Sampling	TRAC N4	ECO

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

Project Name & Location	Client Name	Role
Midrand Aquaculture Facility GEMF Registration	Private	Junior EAP
Kapama Game Reserve – WULA	Kapama Game Reserve	Junior EAP
Marataba Safari Lodge – WULA	Marataba Safari Lodge	Junior EAP
Lapalala Game Reserve – GA registration	Lapalala Game Reserve	Junior EAP
Ngwenya Lodge – WULA	Ngwenya Lodge	Junior EAP