

## CURRICULUM VITAE OF JO-ANNE THOMAS

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

### VOCATIONAL EXPERIENCE

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

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

### SKILLS BASE AND CORE COMPETENCIES

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

## EDUCATION AND PROFESSIONAL STATUS

### Degrees:

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

### Short Courses:

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

### Professional Society Affiliations:

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

## EMPLOYMENT

| Date                   | Company                          | Roles and Responsibilities   |
|------------------------|----------------------------------|--|
| January 2006 - Current | Savannah Environmental (Pty) Ltd | Director<br>Project manager<br>Independent specialist environmental consultant,<br>Environmental Assessment Practitioner (EAP) and<br>advisor. |
| 1997 – 2005            | Bohlweki Environmental (Pty) Ltd | Senior Environmental Scientist at. Environmental<br>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 |
| Karoshhoek CPV facility on site 2 as part of the larger Karoshhoek Solar Valley Development East of Upington, Northern Cape | FG Emvelo                  | Project Manager & EAP |

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

#### Basic Assessments

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

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

### Screening Studies

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

### Environmental Compliance, Auditing and ECO

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

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

#### Compliance Advice and ESAP Reporting

| Project Name & Location                                     | Client Name                              | Role                  |
|---|--|-----------------------|
| Aggeneys Solar Farm, Northern Cape                          | BioTherm Energy                          | Environmental Advisor |
| Airies II PV Facility SW of Kenhardt, Northern Cape         | BioTherm Energy                          | Environmental Advisor |
| Kalahari SEF Phase II in Kathu, Northern Cape               | 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 Cape       | MedEnergy                                | Environmental Advisor |
| 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, Northern Cape | African Clean Energy Developments (ACED) | Environmental Advisor |
| RustMo1 PV Plant near Buffelspoort, North West              | Momentous Energy                         | Environmental Advisor |
| Scuitdrift 1 SEF & Scuitdrift 2 SEF, Limpopo                | Building Energy                          | Environmental Advisor |
| Sirius PV Plants, Northern Cape                             | Aurora Power Solutions                   | Environmental Advisor |
| Upington Airport PV Power Project, Northern Cape            | Sublunary Trading                        | Environmental Advisor |
| Upington SEF, Northern Cape                                 | Abengoa Solar                            | Environmental Advisor |
| Ofir-ZX PV SEF near Keimoes, Northern Cape                  | Networx S28 Energy                       | Environmental Advisor |
| Steynsrus PV1 & PV2 SEF's, Northern Cape                    | Cronimet Power Solutions                 | Environmental Advisor |
| Heuningspruit PV SEF, Northern Cape                         | Cronimet Power Solutions                 | Environmental Advisor |

#### Due Diligence Reporting

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

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

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

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

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

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

| <b>Project Name &amp; Location</b>                                   | <b>Client Name</b> | <b>Role</b>           |
|--|--------------------|-----------------------|
| Ilanga CSP 2, 3, 4, 5, 7 & 9 Facilities near Upington, Northern Cape | Emvelo Holdings    | Project Manager & EAP |
| Ilanga CSP near Upington, Northern Cape                              | Ilangethu Energy   | Project Manager & EAP |
| Ilanga Tower 1 Facility near Upington, Northern Cape                 | Emvelo Holdings    | Project Manager & EAP |

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

#### Environmental Compliance, Auditing and ECO

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

#### Screening Studies

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

#### Compliance Advice and ESAP reporting

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

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

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

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

#### Environmental Impact Assessments and Environmental Management Programmes

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

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

#### Basic Assessments

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

#### Screening Studies

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



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

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

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

#### **Compliance Advice**

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

#### **Due Diligence Reporting**

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

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

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

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

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

| 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 Lephalale, Limpopo           | Axia              | Project Manager & EAP |
| Transalloys Coal-fired Power Station, Mpumalanga                           | Transalloys       | Project Manager & EAP |
| Tshivasho IPP Coal-fired Power Station (with WML), near Lephalale, Limpopo | Cennergi          | Project Manager & EAP |
| Umbani Coal-fired Power Station, near Kriel, Mpumalanga                    | ISS Global Mining | Project Manager & EAP |
| Waterberg IPP Coal-Fired Power Station near Lephalale, Limpopo             | Exxaro Resources  | Project Manager & EAP |

##### **Basic Assessments**

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

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

#### Screening Studies

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

#### Environmental Compliance, Auditing and ECO

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

#### Compliance Advice

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

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

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

### CONVENTIONAL POWER GENERATION PROJECTS (GAS)

#### Environmental Impact Assessments and Environmental Management Programmes

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

## Screening Studies

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

## GRID INFRASTRUCTURE PROJECTS

### Environmental Impact Assessments and Environmental Management Programmes

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

### Basic Assessments

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

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

#### Environmental Compliance, Auditing and ECO

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

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

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

#### MINING SECTOR PROJECTS

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

| 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 |
| Grootegeeluk Coal Mine for coal transportation infrastructure between the mine and Medupi Power Station (EMPr amendment) , Limpopo | Eskom Holdings            | Project Manager & EAP |
| Waterberg Coal Mine (EMPr amendment), Limpopo  | Sesoko Resources          | Project Manager & EAP |
| Aluminium Plant WML & AEL, Gauteng   | GfE-MIR Alloys & Minerals | Project Manager & EAP |
| Zero Waste Recovery Plant at Highveld Steel, Mpumalanga  | Anglo African Metal       | Project Manager & EAP |

##### Basic Assessments

| Project Name & Location | Client Name | Role |
|-------------------------|-------------|------|
|-------------------------|-------------|------|

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

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

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

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

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

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

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

| <b>Project Name &amp; Location</b>   | <b>Client Name</b> | <b>Role</b>           |
|--|--------------------|-----------------------|
| Bridge across the Ngotwane River, on the border of South Africa and Botswana   | Eskom Holdings     | Project Manager & EAP |
| Chemical Storage Tanks, Metallurgical Plant Upgrade & Backfill Plant upgrade at South Deep Gold Mine, near Westonaria, Gauteng | Goldfields         | Project Manager & EAP |

| Project Name & Location  | Client Name                              | Role                  |
|--|--|-----------------------|
| Expansion of the existing Welgedacht Water Care Works, Gauteng                                 | ERWAT                                    | Project Manager & EAP |
| Golden Valley WEF Access Road near Cookhouse, Eastern Cape                                     | BioTherm Energy                          | Project Manager & EAP |
| Great Fish River Wind Farm Access Roads and Watercourse Crossings near Cookhouse, Eastern Cape | African Clean Energy Developments (ACED) | Project Manager & EAP |
| Ilanga CSP Facility Watercourse Crossings near Upington, Northern Cape                         | Karoshhoek Solar one                     | Project Manager & EAP |
| Modification of the existing Hartebeestfontein Water Care Works, Gauteng                       | ERWAT                                    | Project Manager & EAP |
| N10 Road Realignment for the Ilanga CSP Facility, East of Upington, Northern Cape              | SANRAL                                   | Project Manager & EAP |
| Nxuba (Bedford) Wind Farm Watercourse Crossings near Cookhouse, Eastern Cape                   | African Clean Energy Developments (ACED) | Project Manager & EAP |
| Pollution Control Dams at the Medupi Power Station Ash Dump & Coal Stockyard, Limpopo          | Eskom                                    | Project Manager & EAP |
| Qoboshane borrow pits (EMPr only), Eastern Cape  | 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, near Keimoes, Northern Cape    | Networx S28 Energy                     | Project Manager & EAP |
| Qoboshane bridge & access roads, Eastern Cape  | Emalahleni Local Municipality          | Project Manager & EAP |
| Relocation of the Assay Laboratory near Carletonville, Gauteng                         | Sibanye Gold                           | Project Manager & EAP |
| Richards Bay Harbour Staging Area, KwaZulu-Natal                                       | Eskom Holdings                         | Project Manager & EAP |
| S-Kol Watercourse Crossing for the Solar PV Facility, East of Keimoes, Northern Cape   | Networx S28 Energy                     | Project Manager & EAP |
| Sonnenberg Watercourse Crossing for the Solar PV Facility, West Keimoes, Northern Cape | Networx S28 Energy                     | Project Manager & EAP |
| Kruisvallei Hydroelectric Power Generation Scheme, Free State                          | Building Energy                        | Project Manager & EAP |
| Masetjaba Water Reservoir, Pump Station and Bulk Supply Pipeline near Nigel, Gauteng   | Naidu Consulting Engineers             | Project Manager & EAP |
| Access Road for the Dwarsug Wind Farm, Northern Cape Province                          | South Africa Mainsteam Renewable Power | Project Manager & EAP |
| Upgrade of the Cooling Water Treatment Facility at the Kriel Power Station, Mpumalanga | Eskom                                  | Project Manager & EAP |

#### Screening Studies

| Project Name & Location   | Client Name                | Role                  |
|---|----------------------------|-----------------------|
| Roodepoort Open Space Optimisation Programme (OSOP) Precinct, Gauteng | TIMAC Engineering Projects | Project Manager & EAP |

|   |                             |                       |
|---|-----------------------------|-----------------------|
| Vegetable Oil Plant and Associated Pipeline, Kwa-Zulu Natal | Wilmar Oils and Fats Africa | Project Manager & EAP |
|---|-----------------------------|-----------------------|

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

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

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

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

#### **HOUSING AND URBAN PROJECTS**

##### **Basic Assessments**

| <b>Project Name &amp; Location</b>             | <b>Client Name</b> | <b>Role</b>           |
|--|--------------------|-----------------------|
| Postmasburg Housing Development, Northern Cape | Transnet           | Project Manager & EAP |

##### **Compliance Advice and reporting**



| Project Name & Location   | Client Name               | Role                  |
|---|---------------------------|-----------------------|
| Kampi ya Thude at the Olifants West Game Reserve, Limpopo                   | Nick Elliot               | Environmental Advisor |
| External Compliance Audit of WUL for the Johannesburg Country Club, Gauteng | Johannesburg Country Club | Project Manager       |

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

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

#### **ENVIRONMENTAL MANAGEMENT TOOLS**

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

## **PROJECTS OUTSIDE OF SOUTH AFRICA**

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

## CURRICULUM VITAE OF ARLENE SINGH

- Profession :** Environmental Assessment Practitioner (EAP)
- Specialisation:** Environmental Assessments, report writing, report reviewing, development of project proposals for procuring new projects and project administration.
- Work Experience:** 6 years' experience in Environmental Assessments and 1 year in Sustainability Consulting.

### VOCATIONAL EXPERIENCE

Professional execution of consulting services for projects in the environmental management field, specialising in Environmental Impact Assessment studies, environmental permitting, public participation, compilation of Environmental Management Plans and Programmes, environmental policy, and integrated environmental management. Responsibilities include report writing, 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 infrastructure development projects (roads, stormwater, pipelines), Mixed Use Developments and Section 24G Applications for complex projects. She has extensive experience in managing and monitoring ECO functions and compliance on relevant projects. She has gained the ability to conduct sustainability assurance audits for non-financial environmental KPI's through her experience with listed mining corporations.

### SKILLS BASE AND CORE COMPETENCIES

- Compilation of environmental impact assessment reports and environmental management programmes in accordance with relevant environmental legislative requirements;
- Identification and assessment of potential negative environmental impacts and benefits through the review of specialist studies;
- Key experience in the assessment of impacts associated with complex Section 24G Applications.
- Review of environmental impact assessment reports, impacts matrices and environmental management programme reports;
- Conducting of ECO audits, managing ECO staff, review of ECO reports and liaison with the client;
- Review of Carbon Footprint Analysis report and provision of recommendations for industry;
- Developing Business Development Plans, action plans and carrying out Business Development initiatives;
- Compilation of Integrated Reports in line with King IV;
- Conducting Mining Permit Applications with the DMR and the associated Basic Assessment process in line with the MPRDA;
- Extensive experience in compilation and submission of Tenders and Proposals;

**EDUCATION AND PROFESSIONAL STATUS****Degrees:**

- B.Sc. (Hons.) Environmental Management (2016), University of South Africa (UNISA);
- B.Sc. Environmental Science (2012), University of Kwa-Zulu Natal, Westville

**Short Courses:**

- Official DWS Section 21 (c) and (i) Water Use Authorisation Course (2018)- Dr Wietsche Roets, Specialist Scientist: (In Stream Water Use);
- SMME Green Building Face to Face Workshop (2018)- GBCSA hosted by JP Morgan;
- ArcGISBasic 10,3 (2016)- Esri South Africa

**Professional Society Affiliations:**

- South African Council for Natural Scientific Professionals - Candidate Natural Scientist: Environmental Scientist) – Reg No. 118872
- Environmental Assessment Practitioners Association of South Africa- Application accepted

**Other Relevant Skills:**

- Compiling and submission of invoices on projects;
- Registration of Waste Management Facilities on GWIS

**EMPLOYMENT**

| <b>Date</b>                           | <b>Company</b>                          | <b>Roles and Responsibilities</b>  |
|---------------------------------------|---|--|
| <b>08 April 2019- Current:</b>        | Savannah Environmental (Pty) Ltd        | Environmental Assessment Practitioner<br><br><i>Tasks include:</i><br>Compilation of Environmental Impact Assessment (EIA) reports; Basic Assessment (BA) reports and Environmental Management Programmes; Environmental Screening reports; Co-ordination of the public participation process; Project management; project proposals and tenders; Client liaison and Marketing; Process EIA Applications.  |
| <b>01 January 2016- 05 April 2019</b> | Triplo4 Sustainable Solutions (Pty) Ltd | Environmental Consultant/Gauteng Office Manager<br><br><i>Tasks included:</i><br>Review of Basic Assessment reports, Environmental Management Programme reports, Impact Matrices. Review of Environmental Control Officer functions, report and planning of site visits. Compiling Waste Management License Applications and Section 24G Application with reports for review by company Director. Review of specialist reports. Compilation of tenders, proposals and fee proposals. Co-ordinate public participation processes. Liaison with clients, |

| <b>Date</b>                               | <b>Company</b>                          | <b>Roles and Responsibilities</b>  |
|---|---|--|
|   |   | <i>stakeholders and competent authorities. Business Development, Integrated reporting. Strategy, policy and procedure development. Planning of staff on engagements and Invoicing of clients.</i>  |
| <b>01 October 2014 – 31 December 2015</b> | PricewaterHouse Coopers (PwC)           | Sustainability Consultant 2<br><br><u>Tasks included:</u><br><i>Non-financial auditing of Environmental KPI's (Primary water, Total Waste, Total Electricity, Total CDP Calc, Scope 1, 2 and 3 emissions, Total CSI spend, Total Environmental incidents and Total Rock waste generated) for listed mining companies. Role included, testing of controls, applications of audit standards and guidelines, preparation and conclusions of audit papers and files, reporting to management and preparation of audit reports.</i> |
| <b>01 January 2013- 30 September 2014</b> | Triplo4 Sustainable Solutions (Pty) Ltd | Junior Environmental Consultant<br><br><u>Tasks included:</u><br><i>Conducting Environmental Control Officer audits and drafting of ECO reports for review. Drafting of Basic Assessment (BA) reports, Environmental Management Programme reports for review by Environmental Consultant. Conducting public participation by liaison with competent authorities and stakeholders. Assisting with compiling of Basic Assessment documents.</i>  |

## **PROJECT EXPERIENCE**

Arlene has experience in conducting environmental impact assessments for infrastructure development projects (roads, stormwater, pipelines), Mixed Use Developments and Section 24G Applications for complex projects. She has extensive experience in managing and monitoring ECO functions and compliance on relevant projects. She has gained the ability to conduct sustainability assurance audits for non-financial environmental KPI's through her experience with listed mining corporations. She has also been involved in undertaking Part 2 Amendment Applications for Renewable Energy Projects.

### **MINING SECTOR PROJECTS**

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

| <b>Project Name &amp; Location</b>                     | <b>Client Name</b> | <b>Role</b> |
|--|--------------------|-------------|
| <i>Yzermyn Coal Mine EMPr, Piet Retief, Mpumalanga</i> | <i>Atha Group</i>  | <i>EAP</i>  |

#### ***Basic Assessments***

| <b>Project Name &amp; Location</b>                                     | <b>Client Name</b>       | <b>Role</b>            |
|--|--------------------------|------------------------|
| <i>Shaya Quarry Basic Assessment process, Empangeni, Kwazulu-Natal</i> | <i>Mbavuzza Minerals</i> | <i>Project Manager</i> |

|  |                           |                 |
|--|---------------------------|-----------------|
| Umvoti River Sand Mining Basic Assessment process, Kwazulu-Natal | Izimbiwe Minerals Pty Ltd | Project Manager |
|--|---------------------------|-----------------|

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

| Project Name & Location   | Client Name               | Role            |
|---|---------------------------|-----------------|
| Shaya Quarry Mining Permit Application, Empangeni, Kwazulu-Natal  | Mbavuzza Minerals         | Project Manager |
| Umvoti River Sand Mining Mining Permit Application, Kwazulu-Natal | Izimbiwe Minerals Pty Ltd | Project Manager |
| Newark Quarry, Ilembe Municipality, Kwazulu-Natal                 | iLembe Concrete Pty Ltd   | Junior EAP      |

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

**Basic Assessments**

| Project Name & Location   | Client Name                         | Role            |
|---|-------------------------------------|-----------------|
| Replacement of Nseleni Bridge- Empangeni, Kwazulu-Natal                                 | RHDHV                               | EAP             |
| Construction of the 60ML Ntuzuma Reservoir, Ntuzuma, Kwazulu-Natal                      | eThekwini Metropolitan Municipality | Project Manager |
| Upgrade of the Nyathikazi box culvert, Darnell, Kwazulu- Natal                          | KwaDukuza Municipality              | Junior EAP      |
| Upgrade and Expansion Provincial Main Road D887, Kwazulu-Natal                          | RHDHV                               | Junior EAP      |
| Expansion of LOX and Diesel Storage at the Air Products Facility in Coega, Eastern Cape | Air Products South Africa (Pty) Ltd | EAP             |

**Environmental Compliance, Auditing and ECO**

| Project Name & Location  | Client Name            | Role                          |
|--|------------------------|-------------------------------|
| ECO Monitoring for Construction of Offtake 1 Reservoir, KwaDukuza, Kwazulu-Natal                       | KwaDukuza Municipality | Project Manager               |
| ECO Monitoring for Construction of Offtake 6A2, 6D, 8C, 8D, 9, 11D Pipelines, KwaDukuza, Kwazulu-Natal | KwaDukuza Municipality | Project Manager               |
| ECO Monitoring for the Construction of the Jozini RCWSS Phase 1A, Jozini, Kwazulu-Natal                | RHDHV                  | ECO (1 year), Project Manager |
| ECO Monitoring for the Greytown BWSS, Greytown, Kwazulu-Natal  | RHDHV                  | Project Manager               |
| ECO Monitoring for the Kranskop Water Supply Scheme, Kranskop, Kwazulu-Natal                           | RHDHV                  | ECO                           |
| ECO Monitoring for the Zulti South Access Road, Richards Bay, Kwazulu-Natal                            | RHDHV                  | Project Manager               |

**Compliance Advice and ESAP reporting**

| Project Name & Location   | Client Name            | Role |
|---|------------------------|------|
| Ethafeni Cemetery Environmental Assessment Report, KwaDukuza, Kwazulu-Natal | KwaDukuza Municipality | EAP  |

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

| Project Name & Location  | Client Name | Role |
|--|-------------|------|
| General Authorisation for the Replacement of the Nseleni Bridge, Empangeni, Kwzulu-Natal | RHDHV       | EAP  |

|   |                           |     |
|---|---------------------------|-----|
| Water Use Licence Amendment for Country Club Johannesburg | Country Club Johannesburg | EAP |
|---|---------------------------|-----|

## **HOUSING AND URBAN PROJECTS**

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

| <b>Project Name &amp; Location</b>  | <b>Client Name</b>         | <b>Role</b>                     |
|---|----------------------------|---------------------------------|
| Ethafeni Precinct Project Section 24G Application-Groutvill , Kwazulu- Natal.                 | KwaDukuza Municipality     | Project Manager/Lead Consultant |
| Environmental Management Programme report Brettenwood Residential Development, Kwazulu-Natal. | Brettenwood Coastal Estate | EAP                             |
| Environmental Management Programme report for CTM Ballito, Ballito, Kwazulu-Natal             | CTM                        | EAP                             |

### **Basic Assessments**

| <b>Project Name &amp; Location</b>  | <b>Client Name</b>     | <b>Role</b>     |
|---|------------------------|-----------------|
| Upgrade of residential dwelling on Colwyn Drive, Salt Rock, Kwazulu-Natal           | Mike Graham            | Junior EAP      |
| Ethafeni Precinct Project Basic Assessment, Groutville, Kwazulu-Natal               | KwaDukuza Municipality | Project Manager |
| 105 Nkwazi Drive Single Residential House Basic Assessment, Zinkwazi, Kwazulu-Natal | Ituwiz Pty Ltd         | Project Manager |

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

| <b>Project Name &amp; Location</b>  | <b>Client Name</b>    | <b>Role</b>                         |
|---|-----------------------|-------------------------------------|
| 88 Compensation ECO Audits – Ballito, Kwazulu-Natal                           | Imali Corp            | Environmental Control Officer (ECO) |
| Oceans Umhlanga Hotel & Residential Development, Umhlanga, Kwazulu-Natal      | Edison Property Group | Project Manager                     |
| Inoxa Cookware Factory Warehouse, Woodmead Estate, Shakaskraal, Kwazulu-Natal | Shree Property        | Project Manager                     |
| Woodmead Estate Warehousing, Gauteng  | Shree Property        | Project Manager                     |
| Ridgeside Commercial Development, Umhlanga, Kwazulu-Natal                     | Shree Property        | Project Manager                     |
| Construction of Jozini Shopping Centre, Jozini, Kwazulu-Natal                 | GK Projects           | ECO                                 |
| Birdhaven Residential Development, Ballito, Kwazulu-Natal                     | Mike Graham Trust     | ECO                                 |
| Foxhill Church and Residential Development, Ballito, Kwazulu-Natal            | M&C Janigh Trust      | ECO                                 |
| Beema Bamboo Plantation Site (Bamboo to Energy project, Kwazulu-Natal         | Green Grid Energy     | ECO                                 |

## **OTHER PROJECTS**

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

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

|   |                            |                |
|---|----------------------------|----------------|
| Beema Bamboo Plantation Site (Bamboo to Energy project, Kwazulu-Natal             | Green Grid Energy          | ECO            |
| Mkondeni Medical Waste External Waste Management License Audit , Pietermaritzburg | Ecocycle Waste Solutions   | Auditor        |
| Dube Tradeport External Audit, eThekwini  | Dube Tradeport Corporation | Junior Auditor |

### **Carbon Footprint Analysis**

| <b>Project Name &amp; Location</b>  | <b>Client Name</b>         | <b>Role</b> |
|---|----------------------------|-------------|
| Carbon footprint analysis of Newcastle and Sasolburg Plants, (Kwazulu Natal & North West  | Karbochem Pty Ltd          | EAP         |
| Measure Carbon Emissions and provide updated baseline that would enable DTPC to quantify, monitor and assess carbon footprint and its climate change impact for DTPC, eThekwini | Dube Tradeport Corporation | Junior EAP  |

### **Waste Management**

| <b>Project Name &amp; Location</b>  | <b>Client Name</b>  | <b>Role</b> |
|---|---------------------|-------------|
| Waste Classification Assessment for Karbochem Newcastle facility , Kwazulu-Natal        | Karbochem Pty Ltd   | EAP         |
| Waste Management Licenses for Wadeville & Rosslyn Waste Management Facilities, Gauteng. | Planet Care Pty Ltd | EAP         |

### **Compliance Advice and ESAP reporting**

| <b>Project Name &amp; Location</b>  | <b>Client Name</b> | <b>Role</b> |
|---|--------------------|-------------|
| Environmental Opinion and Enquiry for the Rosslyn Tyre Pyrolysis Plant, Gauteng | Cosmic Energy      | EAP         |

### **Non-Financial Auditing**

| <b>KPI'S Audited</b>  | <b>Client Name &amp; Location</b>       | <b>Role</b>               |
|---|---|---------------------------|
| Total Primary Water Use, Total Electricity Used, Total Waste Generated, Scope 1, 2 & 3 Emissions and Total Number of Environmental Incidents. | Anglo Platinum (South Africa)           | Sustainability Consultant |
| Total Primary Water Use, Total Waste Generate and Total Number of Environmental Incidents.  | De Beers (Namibia)                      | Sustainability Consultant |
| Scope 1, 2 & 3 Emissions, Total Electricity Purchased, Total Primary Water Used.  | Harmony Gold (South Africa)             | Sustainability Consultant |
| Scope 1, 2 & 3 Emissions, Total Electricity Purchased, Total Primary Water Used and Total Rock Waste Generated.                               | Exxaro (South Africa, Papua New Guinea) | Sustainability Consultant |
| Total Corporate Social Investment fund spend by Barclays Group  | Barclays Group                          | Sustainability Consultant |
| Audit Environmental and Social Risk Finance Projects -Equator Principles  | MTN (South Africa & Nigeria)            | Sustainability Consultant |



## Renewable Energy Projects

### Part 2 Amendment Applications and Motivation Reports

| <b>Project Name &amp; Location</b>  | <b>Client Name</b>                   | <b>Role</b> |
|---|--------------------------------------|-------------|
| Transalloys Coal-Fired Power Station near Emalahleni, Mpumalanga Province | Transalloys (Pty) Ltd                | EAP         |
| Zen Wind Energy Facility, Western Cape                                    | Energy Team (Pty) Ltd                | EAP         |
| Hartebeest Wind Energy Facility, Western Cape                             | juwi Renewable Energies (Pty) Ltd    | EAP         |
| Khai-Ma and Korana Wind Energy Facilities                                 | Mainstream Renewable Power (Pty) Ltd | EAP         |

### Basic Assessments

| <b>Project Name &amp; Location</b>   | <b>Client Name</b>                | <b>Role</b> |
|--|-----------------------------------|-------------|
| Upilanga Solar Park, Northern Cape (x6 100MW PV's and x3 350MW PV Basic Assessments) | Emvelo Capital Projects (Pty) Ltd | EAP         |

### Environmental Impact Assessments

| <b>Project Name &amp; Location</b>                   | <b>Client Name</b>                | <b>Role</b> |
|--|-----------------------------------|-------------|
| Upilanga Solar Park, Northern Cape (350MW CSP Tower) | Emvelo Capital Projects (Pty) Ltd | EAP         |

### Section 54 Audits

| <b>Project Name &amp; Location</b>                             | <b>Client Name</b>             | <b>Role</b> |
|--|--------------------------------|-------------|
| Mulilo 20MW PV Facility, Prieska, Northern Cape                | Mulilo (Pty) Ltd               | Auditor     |
| Mulilo 10MW PV Facility, De Aar, Northern Cape                 | Mulilo (Pty) Ltd               | Auditor     |
| Karoshhoek CSP 1 Facility/ Solar One., Upington, Northern Cape | Karoshhoek Solar One (Pty) Ltd | Audit       |