

# Project Experience List



TRANS-AFRICA PROJECTS

Client	Assignment name	Main Deliverables/output	Duration (Months)	Country Region	Voltage (kV)	Services
Botswana Power Corporation	Isang 400/220 kV substation integration	Major expansion project. New 400/220kV substation. Typical EPCM project, design, compiling of tender documents, tender evaluation on behalf of BPC and providing all project management and construction supervision services up to commissioning and handover.	30	Botswana	440/220 kV	EPCM - Engineering, Project Management and Site Supervision
Botswana Power Corporation	BPC - Morupule B to Isang 400kv Line	420 km of 400kV line and associated substation work	24	Botswana	400 kV	EPCM - Engineering, Project Management and Site Supervision
Botswana Power Corporation	Mmakudumo Dam-Lobatse 50km 132kV line, Woodhall (new) 132/11kV substation and Lobatse Substation re-arrangements	In order to cater for load growth in the Lobatse area, as well as improving the reliability of supply, Botswana Power Corporation (BPC) decided to install new 132 kV Transmission infrastructure comprising:1. Woodhall 132/11 kV Substation (new 2 x 20 MVA substation with capability for 4 x 40MVA transformers) 2. Lobatse 132/11 kV Substation Extension (two new line bays and changes to existing layout) 3. ± 48 km of 132 kV transmission line linking Mmakudumo Dam Substation to Lobatse Substation. 4. ± 2km of 132kV Double Circuit turn-ins from Gaborone South-Lobatse 132kV line to new Woodhall Substation	27	Botswana	132/11 kV	Engineering
Fluor	Orapa / Botswana 66kv Overhead Line Route	Route Selection and Design for 44km of 66kV Overhead Line, with special clearances required on the mine.	3	Botswana	66 kV	Engineering
MuliloThermal - Botswana	Mabesekwa Power Station Integration Study	Engineering Grid Studies for the establishment of o Thermal Project Developments in Botswana. A staged development of the plant is considered to meet demand in Botswana and/or export power to South Africa. Initial installed capacity (gross) is proposed to be either a 2 x 150 MW = 300 MW or a 2 x 300 MW/4 x 150 MW = 600 MW (design decision still to be made). The studies include grid integration of the power plant.	5	Botswana	132 kV	Engineering studies
BHP Billiton	Concept study for the BHP Billiton Smelter and transmission system required by Inga III	Determine the lines and substations that must be built to export the energy generated at Inga III (3200 MW as per Tractebel Study) to supply the smelter at Muanda and the mining loads in the Katanga; prepare a cost reflective tariff for each supply point.	5	DRC	500 kV	Studies

Client	Assignment name	Main Deliverables/output	Duration (Months)	Country Region	Voltage (kV)	Services
BNP Paribas	Inga III 4200 MW Power Station Integration	The Inga III Power Station will be a 'run-of-river' hydro-electric power station in the DRC. According to the SNC Lavalin study it will be capable of generating 4320 MW. The power will be used in the DRC for the mines and the domestic sector. There was also the project of an aluminium smelter at Muanda. The balance can be exported to SAPP countries, including South Africa.	10	DRC	500 kV	Technical Feasibility Study
Ingerop	Ruzizi 1 & 2 Inspection	Ingérop is appointed by the Power Utility in the DRC to rehabilitate two Hydro Power Stations. The scope of work entailed design and refurbishment of existing aged Power Stations Ruzizi 1 and 2 equipment including the two substations equipment.	7	DRC	220 kV	EPCM - Engineering, Project Management and Site Supervision
Ruashi Mining	Ruashi 220 kV Substation & Transmission Line	Assistance to Ruashi for the negotiation of the Finance Agreement, Admin Agreement and the PPA with SNEL; The design, procurement, construction & management of a 220/15kV plant substation at the copper mine to supply their new SX/EW process plant as well as their phase 1 crusher and mining operation. The substation included two 50MVA, 220/15kV transformers and a 8km, 220kV overhead line from the utility to supply the plant substation.	26	DRC	220 kV	EPCM - Engineering, Project Management and Site Supervision
SAF Energie	Inga-Cabinda	Supply of 200 MW from Inga power station to Angola's Cabinda Province. A 220 kV circuit had to be installed on the vacant side of the 120 kV Inga-Boma line (150 km) and a new 220 kV line had to be built from Boma to Cabinda. (70 km) plus a 220/15 kV substation at Muanda.	7	DRC	220 kV	Technical Feasibility, Pre-Engineering
SNEL	Anvil Mining	The design, construct & management of two 150MVA, 220/120kV transformers for NR substation. These transformers were installed at the new NR substation to strengthen the SNEL 120kV network and to supply Anvil Mining's new process plant.	26	DRC	220/120 kV	EPCM
Power Grid & National Thermal Power Corporation of India	Power Grid & National Thermal Power Corporation of India 765 kV substation	The design and construction of the necessary 765 kV Transmission Line and Substation Infrastructure to evacuate 3600 MW from the NTPC Super Power Station into the transmission grid of Power Grid Corporation and the establishment of 765 kV as new backbone transmission voltage in India.	20	India	765 kV	Engineering
PT Newmont	Indonesia 150 kV Line Deviation	Design approximately 1.6 km line deviation route of the existing 150kV power line and perform Construction Management	27	Indonesia	150 kV	EPCM - Engineering, Project Management and Site Supervision
USACE, CETAC III (Fluor)	Restoration of Iraqi Electricity	Constructing 132 kV DC line from Erbil - Qara Qosh - Debis during USA operation Desert Storm. Project received highest award from US CE for project execution.	3	Iraq	132 kV	Engineering, Construction Management

Client	Assignment name	Main Deliverables/output	Duration (Months)	Country Region	Voltage (kV)	Services
Oyu Tolgoi LLC	220 kV Interface with IMPC	Consulting Services to the Oyu Tolgoi Mining company in the South Gobi Desert of Mongolia. The services included the design review of Power System Studies for the interconnection between China and the mine site in Mongolia to inter alia identify performance criteria, line capacities, equipment ratings, MVAR compensation requirements for SVC and harmonic filters, including protection and control plant. Review of Substation equipment and Power transformer specifications for the 220/35 kV substations feeding the mining complex. Site inspection to verify correct installation according to the design specifications and safety requirements. The duration of this assignment was for three months.	3	Mongolia	220/35 kV	Engineering
Electricidade De Mozambique	Maputo Upgrade 66 kV and 275 kV Overhead lines and cable routes	Route Selection and Design for the new upgrade of the Maputo Electricity network. New 275kV and 66kV overhead lines. New 275kV and 66kV cable routes	15	Mozambique	66/275 kV	Consulting
Electricidade De Mozambique	Maputo Grid Strengthening	Trans Africa Projects was requested to complete the Overhead Powerline designs for all upgrades to the Maputo grid in line with their 20 year upgrade strategy	4	Mozambique	66 kV	Consulting
Electricidade De Mozambique	Maputo & Infulene Substation Upgrades	Maputo Substation: Add 1 x 400MVA, 400/275kV Transformer including transformer bay. Install 275kV double busbar for 5 bays, including a 275kV line bay, Bus Coupler and 3 spare bays and convert the existing 275kV busbar (4 bays) to double busbar. Infulene Substation: Replace an existing 60MVA transformer with a 250MVA, 275/66kV transformer, including primary and secondary equipment.	29	Mozambique	400 kV	EPCM
Electricidade De Mozambique	Restoration of the 220kV Transmission line section devastated by floods at Mocuba in Zambezia province	The EPCM services for the normalization of the Quelimane - Mocuba 220kV single circuit, Twin Condor ACSR line on self-supporting steel lattice structures, which traverses from the town of Mocuba, south to Quelimane in the Zambezia province of Mozambique. During the rainy season in January 2015, the powerline was damaged by flooding in the Mocuba area where the line crosses the Rio Licungo River. In total eight structures were damaged over 3.5km of line length.	6	Mozambique	220 kV	EPCM - Engineering, Project Management and Site Supervision
Electricidade De Mozambique	Mocuba Emergency Line Restoration	To normalize the Quelimane - Mocuba 220kV single circuit, Twin Condor ACRS line on self-supporting steel lattice structures. In total eight structures were damaged over 3.5km of line length. The final solution for the proposed restoration include 2 x pile foundations on extended tower structures to cross the Rio Licungo River. A slight route deviation has been approved to reduce outage durations during commissioning.	12	Mozambique	220 kV	EPCM - Engineering, Project Management and Site Supervision

Client	Assignment name	Main Deliverables/output	Duration (Months)	Country Region	Voltage (kV)	Services
Electricidade De Mozambique	Infulene Matola Gare Beluluane 66kV lines. Upgrade of the network	Design and construction supervision of new Infulene - Matola Gare 66kV 14km line including upgrade of existing line from 38MVA thermal limit to 120MVA. Upgrade of existing Matola Gare - Beluluane 7km line to 120MVA. Design and Integration of new 66kV line bay and 66/33 kV 40MVA Transformer bay at Matola Gare. Design and construct 33kV extension of 66kV Busbar for additional eight 33kV feeders.	24	Mozambique	66 kV	EPCM - Engineering, Project Management and Site Supervision
Hidroelectrica De Cahora Bassa (HCB)	Cahora Bassa emergency repair	Trans Africa Projects was requested to complete an emergency design for the failure of the HCB Cahora Bassa powerline.	2	Mozambique	535 kV HVDC	Engineering, Construction Management
Hidroelectrica De Cahora Bassa (HCB)	Strengthening of River Crossings on Cahora Bassa HVDC Line	During January 2013 the Limpopo River came down in flood. This flooding destroyed a tower on the East Pole of the 533kV HVDC link between Cahora Bassa and Apollo converting station. TAP was asked to provide immediate/temporary repairs to restore the line to service. After the line was returned to service HCB requested that this and other line crossings be re-built in a more robust manner to prevent similar failures from occurring in the future. The crossings are those over the Limpopo, Nuanetse and Save Rivers.	15	Mozambique	533 kV	EPCM
Hydro-Cahora Bassa (HCB)	Strengthening of River Crossings on Cahora Bassa HVDC Line	This flooding destroyed a tower on the East Pole of the 533kV HVDC link between Cahora Bassa and Apollo converting station. TAP was asked to provide immediate/temporary repairs to restore the line to service.		Mozambique	533 kV	EPCM - Engineering, Project Management and Site Supervision
Kenmare Moma Mining	Kenmare Moma Mining	Repair of four 110kV Structures at the Meluli river crossing	12	Mozambique	110 kV	EPCM - Engineering, Project Management and Site Supervision
Kenmare Moma Mining (Mauritius) Pty Ltd.	Kenmare 110KV HV Line repair, Meluli river crossing	Repair of four 110kV Structures at the Meluli river crossing		Mozambique	110 kV	EPCM - Engineering, Project Management and Site Supervision
Motraco	Motraco Mozal II Extension	Extension of the existing Motraco 400/132 kV Transmission system in order to supply the second potline of the Mozal aluminium smelter in Maputo. The extent of the additional requirements was determined by TAP studies and comprised an additional transformer feeder bay at Maputo Substation, Series and Shunt Capacitor Banks and an additional 132 kV transmission line between Maputo 400/275/132 kV substation and Mozal substation.	17	Mozambique	400/132 kV	Engineering, Construction Management
NamPower	Khan 220 kV substation	Project consists of a new 220kV substation with 7 bays for NamPower next to the existing Khan substation. This substation will function as a switch station on the NamPower grid and the new Uramin mine will be fed from this substation.	26	Namibia	220 kV	Engineering, Construction Management

Client	Assignment name	Main Deliverables/output	Duration (Months)	Country Region	Voltage (kV)	Services
NamPower	350 kV, 950 km, Zambezi-Gerus HVDC Line Engineering	The project is required to link the network of Namibia with the network of Zambia, as well as ultimately with Zimbabwe. Due to the remoteness of the area, a 350 kV HVDC link of 950 km provides the best techno-economic solution.	18	Namibia	350 kV	Engineering
NamPower	Zambezi & Gerus 400 kV AC Substations Engineering	The project is required to link the network of Namibia with the network of Zambia, as well as ultimately with Zimbabwe.	18	Namibia	400 kV	Engineering
NamPower	220 kV Van Eck – Walvis Bay Transmission Line	220kV Van Eck - Walvis Bay Transmission Line with a total length of 320 km connecting Van Eck Power Station to the new Kuiseb substation and existing Walmand substation.	23	Namibia	220 kV	Engineering and Project Management
NamPower	OST & West 220kV Feeder Protection Refurbishment	Development of Out of Step Tripping Protection schemes for the NamPower Transmission Network, review of Feeder Protection Schemes developed by a third party and refurbishment of eight 220kV Feeder Protection Schemes in Namibia	24	Namibia	220 kV	EPCM - Engineering, Project Management and Site Supervision
NamPower	NamPower Skorpion Project	The establishment of a two substations near Rosh Pinah in Namibia for the electrical supply to the new Skorpion Zinc Mine, namely Obib Substation (400/132kV) and Skorpion Substation (132/11kV)	16	Namibia	400/132/11 kV	Engineering, Project Management, Construction Management, Commissioning
NamPower	NamPower Kokerboom – Obib 400 kV Transmission System	The establishment of a new 400kV Transmission Line from Kokerboom Substation near Keetmanshoop to Obib Substation near Rosh Pinah in Namibia and a new 400kV Feeder Bay at Kokerboom Substation	17	Namibia	400 kV	Engineering, Procurement, Project Management, Construction Management
UraMin Namibia (Pty) Ltd	Trekkopje Mine Integration into NamPower Network	Project consists of four substations (one x 220/132/33kV and three x 132/33kV subs) and 105km of 220kV and 132kV transmission lines to integrate Areva's Trekkopje mine into the NamPower transmission network.	26	Namibia	220/132 kV	Engineering, Construction Management
National Electric Power Authority	Nigeria System Compensation	The installation of capacitor banks on the NEPA transmission system to provide required compensation	17	Nigeria	330 kV	Consulting
Abiensa/Abengoa	!Khi! Solar	Eskom portion of Substation and 5.5km Double Circuit 132 kV Line Turn-in	15	Republic of South Africa	132 kV	EPCM - Engineering, Project Management and Site Supervision
ADC - Independent Power Producer	Kuwaninga Generation integration into the national grid	Construct the HV Yard for the new gas powered power station, as well as the 110 kV HV line between Kuwaninga power station and Lionde substation	11	Republic of South Africa	110 kV	EPCM - Engineering, Project Management and Site Supervision
AVENG EPC	Gouda Wind	IPP and Eskom portion of Substation and 40km Double Circuit 132 kV Line from Windmill SS to Labonne SS	26	Republic of South Africa	132 kV	EPCM



Client	Assignment name	Main Deliverables/output	Duration (Months)	Country Region	Voltage (kV)	Services
Building Energy	Roggeveld Wind	132kV Substation design for 140MW wind farm. 132kV Line design (6km)	9	Republic of South Africa	132 kV	Engineering
CONCO	Mainstream IPP : Khobab & Loeriesfontein 140 MW Wind Generation	Two x 140MW wind farms connected to the Eskom Transmission network at Helios substation via 2 x 132kV Lines.	5	Republic of South Africa	132 kV	Engineering
Eskom Holdings SOC Ltd	Eskom Medupi Power Station: Electrical and civil substation engineering design, detailing and integration of 756kV, 400kV, and 132kV substations: Design projects: Total of 14 Projects and Integration Projects: Total of 39 Projects.	Services: Station electric design drawings; key plan design drawings; asset specifications; concept design engineering reports; concept design reviews; foundation designs; steelwork marking design and drawings; bailout design and schedules; earth wire arrangement design and drawings; terrace design and drawings; drainage design and drawings; substation road design and drawings; transformer plinth design and drawings; equipment and main steelwork design and drawings; detail design engineering reports; reviews and verification	36	Republic of South Africa	400 kV, 765 kV	EPCM - Engineering, Project Management and Site Supervision
Eskom Holdings SOC Ltd	Kusile Power Station 400 kV Designs for Line Integrations:	Services: Profiling and review of all line crossings; Structural checks, constructability analysis and report; electrical design work; hardware solution design and review; conceptual foundation designs and checks; insulation coordination and design; design leader; site visits; and project co-ordinator.	12	Republic of South Africa	400 kV	EPCM - Engineering, Project Management and Site Supervision
Eskom Holdings SOC Ltd	Kouga 132kV Switching Station	1) Complete prelim design phase, which comprised compilation of project concepts and associated costs, followed by approvals at local Eskom (ECOU) FSOW, TEC and PIC forums to final DRA approval. 2) Complete detailed design phase, which entailed completion of all applicable design detail (drawings and documentation) incorporated in the production of a Final Design Package (FDP) encompassing both Power and Control Plant information necessary for the establishment of the asset. 3) The Kouga 132kV Switching Station basically comprised the following scope of work; i. A double 132kV busbar c/w with bus-coupler bay ii. One fully equipped 132kV "Melkhout" line bay c/w with breaker by-pass facility iii. Provision for a future 132kV line bay c/w with overhead stringer (future breaker by-pass) iv. Two "incomer" bays c/w overhead interface stringers to the WEF substation yard to facilitate the evacuation of the generated energy into Eskom's grid. v. A complete substation building to Eskom (ECOU) standards	19	Republic of South Africa	132 kV	Engineering

Client	Assignment name	Main Deliverables/output	Duration (Months)	Country Region	Voltage (kV)	Services
Eskom Holdings SOC Ltd	Grassridge/Kudu/Sunnyside/ Melkhout 132kV Double Circuit line	The scope was to compile a complete Line Design Package for a 93km Twin Tern Double Circuit 132kV line rebuild with OPGW and associated ADSS, using 247 Steel Lattice structures with line designation of Grassridge/Kudu/Sunnyside/ Melkhout.	11	Republic of South Africa	132 kV	Engineering
Eskom Holdings SOC Ltd	Design and detailing of 400kV, 765kV and 400/132kV multi circuit tower extension in sugar cane areas.	Profiling and review of all line crossings; Structural reviews, constructability analysis and report; electrical design work; hardware solution design and review; conceptual foundation designs and checks; insulation coordination and design	36	Republic of South Africa	400 kV, 765 kV	Solo assignment: EPCM - Engineering, Project Management and Site Supervision
Eskom Holdings SOC Ltd	Muldersvlei Platteklouf 132 kV Line upgrade	Upgrade/replace 27km of existing 132 kV single circuit line with a new double circuit 132 kV Line.	39	Republic of South Africa	132kV	Solo assignment: EPCM - Engineering, Project Management and Site Supervision
Eskom Holdings SOC Ltd	Blackheath Substation Upgrade with new line turn ins	Upgrade 66:11kV Blackheath SS to 132:66:11 KV Substation. Develop new Line turn-ins at 132 kV from Bluedowns-Stikland 132 kV Line	12	Republic of South Africa	132 kV	Engineering
Eskom Holdings SOC Ltd	Grobbershoop Substation and 132 kV Line	New 132 kV Substation and 22km Single Circuit 132 kV Line from Garona MTS to Groblershoop	12	Republic of South Africa	132 kV	Engineering
Eskom Holdings SOC Ltd	Emphageni Masterplan	Develop a 20 year Sub-Transmission Masterplan (132 kV networks) for the identified area	19	Republic of South Africa	132 kV	Consulting
Eskom Holdings SOC Ltd	Witbank Masterplan	Develop a 20 year Masterplan for the Witbank Distribution area of Eskom	19	Republic of South Africa	132 kV	Consulting
Eskom Holdings SOC Ltd	Blanco-Knysna 132kV Upgrade	A brown-fields project for the upgrading (from single circuit 66kV to double circuit 132kV) of 80km's of power line from Blanco SS (George) to Knysna SS in the environmentally sensitive Southern Cape of South Africa. This included turn-ins and temporary bypass design to ensure that 6 en-route substations maintained supply.	55	Republic of South Africa	132 kV	EPCM
Eskom Holdings SOC Ltd	Mzintlava Substation Establishment, Dismantle Existing Substation and Turn in Lines	Establish a 132/22kV, 2 x 20MVA Loop In/Out substation with 6 x 22kV breakers in the vicinity of Mzintlava substation. Mzintlava NB11 and NB13 are to be fed from 2 of the bays with a 3rd accommodating the Kokstad NB3 conversion. The 3 remaining bays are to be used for surrounding electrification. Build approx. 500m 132kV turn in lines with two towers. Dismantle existing Mzintlava Substation.	46	Republic of South Africa	132/22 kV	Engineering
Eskom Holdings SOC Ltd	765 kV Expansion Mercury-Perseus 765 kV line, Hydra-Perseus 765 kV line, Mercury-Zeus 765 kV line, Beta-Hydra-Gamma-Kappa-Omega 765 kV lines	The construction of 1450 km of 765 kV lines by Eskom to expand their transmission system in the central part of the country.	17	Republic of South Africa	765 kV	Engineering, Construction Supervision

Client	Assignment name	Main Deliverables/output	Duration (Months)	Country Region	Voltage (kV)	Services
Eskom Holdings SOC Ltd	Duvha-Leseding 400 kV Transmission Line	Duvha-Leseding 400kV transmission line ± 205km long	38	Republic of South Africa	400 kV	Engineering, Construction Management
Eskom Holdings SOC Ltd	765 kV Expansion Majuba-Umfolozi 765 kV line	The construction of 210 km, 765 kV line by Eskom to expand their transmission system in the Kwa-Zulu Natal Province.	34	Republic of South Africa	765 kV	Engineering
Eskom Holdings SOC Ltd	765 kV Expansion Beta-Hydra-Gamma-Kappa-Omega 765 kV lines	The construction of four new portions of 765 kV lines by Eskom (totalling 700 km) to expand their transmission system throughout the Western Cape.	48	Republic of South Africa	765 kV	Engineering
Eskom Holdings SOC Ltd	Palmiet-Stikland 400 kV Line	The Construction of the Palmiet-Stikland 400 kV Line, 50 km in length	12	Republic of South Africa	400 kV	Engineering, Procurement, Project Management
Eskom Holdings SOC Ltd	Spencer Tabor 275 kV Line	The Construction of the Spencer Tabor 275 kV Line, 86 km in length.	12	Republic of South Africa	275 kV	Engineering, Procurement, Project Management
Eskom Holdings SOC Ltd Distribution	Firgrove-Helderberg-Lourensrivier 132 kV Double Circuit Line	Design the Firgrove-Lourensrivier 132kV double circuit line (7.1 km long). The project included the design of the 276 tower series (132kV double circuit – twin Kingbird conductors).	12	Republic of South Africa	132 kV	Engineering, Project Management
Eskom Holdings SOC Ltd Distribution	Sir Lowry's Pass – Storage 132/ 66 kV Double Circuit	Design the Sir Lowry's Pass- Storage double circuit line (9.5km long). One circuit to be run at 132kV and the other at 66kV.	12	Republic of South Africa	132/66 kV	Engineering, Project Management
Eskom Holdings SOC Ltd/GDF SUEZ Energy Southern Africa	Aurora-Fransvlei 132kV Line	A green-fields project of a 30km power line for connection of a 2.0MW wind farm in the Vredenberg area of the Western Cape.	12	Republic of South Africa	132 kV	EPCM
eThekweni Municipality	eThekweni Electricity	The engineering, project management, supervision and control of contract E8960 for the supply, delivery and erection of materials for the refurbishment of various 132kV and 275kV overhead transmission lines.	42	Republic of South Africa	132/275 kV	Engineering
GDF Suez/Moyeng	West Coast One Wind	Eskom portion of Substation and 33km Double Circuit 132 kV Line from Aurora to Fransvlei.	12	Republic of South Africa	132 kV	Engineering, Consulting
Group 5	CPVI Touwsrivier Powerline Design	132kV Overhead Powerline designs for the CPV 1 concentrated solar power plant. Eskom self-build basis.	3	Republic of South Africa	132/22 kV	EPCM
Mainstream : Independent Power Producer	Kagnas - IPP Generation integration into National grid at 132 kV	140MW wind farm with associated substation, connected via a S/C 132kV Line to the Eskom Transmission network at a new 220:132kV Substation (next to the existing) Nama-Gromis 220kV Line).	5	Republic of South Africa	132 kV	EPCM - Engineering, Project Management and Site Supervision
Mainstream : Independent Power Producer	Perdekraal East - IPP Generation integration into National grid at 132 kV	110MW wind farm with associated substation, connected via a 10km S/C 132kV Line to the Eskom Transmission KAPPA Substation.	5	Republic of South Africa	132 kV	EPCM - Engineering, Project Management and Site Supervision



Client	Assignment name	Main Deliverables/output	Duration (Months)	Country Region	Voltage (kV)	Services
Moyeng Energy	Suurplaat 300 MW Wind Energy Facility Integration	Engineering studies and high level design for the integration of a 300MW wind farm into the South African Grid	5	Republic of South Africa	132/400 kV	Studies, Engineering
Moyeng Energy	Rheboksfontein Powerline Design	Trans Africa Projects was requested to complete the Overhead Powerline designs for grid connection of the Rheboksfontein wind farm	3	Republic of South Africa	132 kV	Engineering
Scatec Independent Power Producer	Solar Plant integration into the South Africa National grid.	The projects are: · Sirius Solar PV Project 1 (75 MW, PV Project), · Dyason's Klip 1 (75 MW, PV Project), · Dyason's Klip 2 (75 MW, PV Project)	18	Republic of South Africa	132 kV	EPCM - Engineering, Project Management and Site Supervision
Sishen Mine/ DRA	132 kV Overhead Line Route	Route Selection and Design for 132kV Overhead Line, with special clearances required on the mine	2	Republic of South Africa	132 kV	Engineering
Swaziland Electricity Company	Lozitha 132kV Line Relocation	Relocation of a 132kV power line.	8	Swaziland	132kV	EPCM - Engineering, Project Management and Site Supervision
SAPP - Mozambique, Zimbabwe, South Africa	MoZiSa - Bankable feasibility Studies	Network integration studies and high level engineering for the South African Power pool. The MoZiSa project aims to interconnect the National Grids of Mozambique, Zimbabwe and South Africa.	16	Zimbabwe	400 kV	Technical specialist for bankable feasibility studies. In association with KPMG, Norton Rose and GIBB