

# INTELLIRPO CONSULTING



## LIST OF PREVIOUS PROJECTS

## ELECTRIFICATION PROJECT DESIGN

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
New electrification design consisting of 378 stands - Ga Magongoa Village	Professional Engineering Services- Electrification	Eskom Distribution	R5.4 M	Electrical	2017	Eskom Dx Sydney Mamosadi 015 299 0641
New electrification design consisting of 534 stands - Ga Selala Village	Professional Engineering Services- Electrification	Eskom Distribution	R6.9 M	Electrical	2017	Eskom Dx Sydney Mamosadi 015 299 0641
New electrification design consisting of 237 stands - Khutsong Village	Professional Engineering Services- Electrification	Eskom Distribution	R3.8 M	Electrical	2017	Eskom Dx Sydney Mamosadi 015 299 0641
New electrification design consisting of 175 Stands - Shenyaneng Village	Site verification, Design, Technical & Investment evaluations for electrification	Eskom Distribution	R0.2M	Electrical	2016	Eskom Dx Mpho Mulaudzi 015 299 0067
New electrification design consisting of 595 Stands -Ga Puka Village	Site verification, Design, Technical & Investment evaluations for electrification	Eskom Distribution	R0.5M	Electrical	2016	Eskom Dx Mpho Mulaudzi 015 299 0067
New electrification design consisting of 534 Stands - Apiesdoring Village	Site verification, Design, Technical & Investment evaluations for electrification	Eskom Distribution	R0.4M	Electrical	2016	Eskom Dx Mpho Mulaudzi 015 299 0067
New electrification design consisting of 45 Stands - Santeng	Site verification, Design, Technical & Investment evaluations for electrification	Eskom Distribution	R0.1M	Electrical	2015	Eskom Dx Mpho Mulaudzi 015 299 0067
New electrification design consisting of 515 Stands - Ngove Village	Site verification, Design, Technical & Investment evaluations for electrification	Eskom Distribution	R0.5M	Electrical	2015	Eskom Dx Mpho Mulaudzi 015 299 0067
New electrification design consisting of 185 stands - Shakadza Village	Professional Engineering Services- Electrification	Eskom Distribution	R2 M	Electrical	2014	Eskom Dx Mpho Mulaudzi 015 299 0067
New electrification design consisting of 70 stands - Moshongo Ext.	Professional Engineering Services- Electrification	Eskom Distribution	R2 M	Electrical	2014	Eskom Dx Mpho Mulaudzi 015 299 0067
New electrification design consisting of 122 stands - New Stand Village	Professional Engineering Services- Electrification	Eskom Distribution	R2 M	Electrical	2014	Eskom Dx Mpho Mulaudzi 015 299 0067

## OVERHEAD LINE DESIGN

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
Mapoch Blue Ridge 88/11kV – Line Design	Provision of detail design and construction monitoring services for the refurbishment of 30km 88kV O/H line and installation of OPGW.	Eskom Distribution	R30.4 M	Electrical	2014	Eskom Distribution Bones Lubisi 015 299 4449
Matambo-Moatize 66kV line design	Design of 39km 132kV Rail conductor overhead line from Matambo 220/66kV substation to Moatize substation to be operated a 66kV. The 247 structure series was utilised and the design included a crossing over the Zambezi river.	ABB	R40 M	Electrical	2011	ABB Michiel Strydom 083 381 2056
Adams IPP 132kV line designs	Design of 132kV Overhead Line	Plantech	R20 M	Electrical	2014	Plantech JD Voigt 012 349 2253
Pulida IPP 132kV line designs	Design of 132kV Overhead Line	Plantech	R15 M	Electrical	2014	Plantech JD Voigt 012 349 2253
Witkop IPP 132kV line 300m	Design of 132kV line from Witkop MTS to adjacent PV Solar Park	ABB	R1.5 M	Electrical	2011	ABB Michiel Strydom 083 381 2056
Dikgale 33kV 14km line	Design of 14km 33kV line.	Eskom Distribution	R 32.3 M	Electrical	2011	Eskom Distribution Julian Allison 083 4144 4177
Kinross T Project	Representing client on self build project. Design of the new Kinross 8km 132kV line.	African Exploration Mining and Finance Company	R 70 M	Electrical	Cancelled	AEMFC Phathu Maisha 010 010 6102
Argent Siding: 11kV & 132kV line clearance	Representing client on the lift of 11kV and relocation of 132kV line at Argent Traction.	Canyon Coal	R 0.15 M	Electrical	2018	Canyon Coal Melissa Pillay 011 783 7996
City of Cape Town; Mitchells Plain - Steenbras 132kV line deviation	132kV line deviation concept design	BVI Consulting Engineers	R 2.7 M	Electrical	2019	BVI Gernot Halberstad 076 735 4950
Solgas 5MW PV Plant - Cross Mabale in Hwange, Zimbabwe	Design of 84km 33kV line grid connection.	Solgas Energy	(USD) \$1.2 M	Electrical	Current	Tafadzwa Mundicha +263 71 939 8973
Richaw Solar	Richaw Solar 33kV 2.2km overhead line design - (ZETDC connection – Zimbabwe)	New Sahara Ventures	(USD) \$1.2 M	Electrical	Current	Trymore Sharata +263 77 343 6391

## SUBSTATION DESIGN

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
Transalloys Substation Upgrade	Design of the 88kV substation upgrade.	Eskom Distribution	R 45m	Electrical	2012	Eskom Dx Gary Abrahams 012 421 3111
Mathambo Substation Design of extension of existing Substation	Design of the 2x45MVA 220/66kV Matambo Substation Extension.	ABB	R60m	Electrical	2011	ABB Michiel Strydom 083 381 2055
Brits Industries & Rural Cap Banks (40MVar & 30MVar)	Provision of detail design, supply, delivery, erection & commissioning of capacitor bank at Brits Rural substation	Eskom Distribution	R20m	Electrical	2013	Eskom Distribution Jan le Roux 012 421 3086
Dikgale S/S	Design of Dikgale 2x10MVA substation and 14km 33kV line.	Eskom Distribution	R 32.3m	Electrical	2011	Eskom Distribution Julian Allison 083 4144 4177
Uitkoms Substation refurbishment	Design of the substation upgrade.	Eskom Distribution	R 23.2m	Electrical	2010	Eskom Distribution Alex Ndlela 031 710 5422
Koster Substation – Network Upgrade	Design of the new Koster 4x20MVA 88/22&11kV substation.	Eskom Distribution	R 74.2m	Electrical	2010	Eskom Dx Jan le Roux 012 421 3085
Kinross T Project	Representing client on self build project. Design of the new Kinross 2x20MVA 132/11kV substation.	African Exploration Mining and Finance Company	R 70m	Electrical	Cancelled	AEMFC Phathu Maisha 010 010 6102
Harava 20MW PV Plant	Harava Solar 132/22kV 30MVA substation design (ZETDC connection – Zimbabwe)	Exess Africa	(USD) \$4.1m	All	2020	George Beukes 083 556 7169
Richaw Solar	Richaw Solar 33kV Substation design - (ZETDC connection – Zimbabwe)	New Sahara Ventures	(USD) \$1.2m	Electrical	Current	Trymore Sharata +263 77 343 6391
Magnetic 132kV Switching Station	132kV Switching Station design (Eskom self build)	AWS	-	Electrical	Current	Alex Hernandus +352 691 111 675

**PROJECT EXECUTION MANAGEMENT**

<b>PROJECT NAME</b>	<b>DESCRIPTION</b>	<b>CLIENT</b>	<b>VALUE (Rm)</b>	<b>DISCIPLINE</b>	<b>COMPLETED</b>	<b>CONTACT</b>
New Big Tree 132kV Substation and Fairfield Bigtree 132kV line.	Project Execution Management during construction through to commissioning.	Eskom Distribution	R 29.5m	Electrical	2010	Eskom Dx Jan le Roux 012 421 3085
Phokeng – Replacement of 11kV indoor Substation switchgear	Provision of Project Management Services for the replacement and normalisation of the 11kV indoor switchgear at Phokeng 132/11kV Substation.	Eskom Distribution	R10m	Electrical	2014	Eskom Distribution Jan le Roux 012 421 3085
Mapoch Blue Ridge 88/11kV – Line Design	Provision of Project Management Services for the refurbishment of 30km 88kV O/H line and installation of OPGW.	Eskom Distribution	R30.4m	Electrical	2014	Eskom Distribution Bones Lubisi 015 299 4449
Kusile Rail Power Supply – Professional Engineering services	Provision of Project Management Services for the project engineering and construction of 2x 6MVA 88kV Traction substations.	Eskom Distribution	R70m	Electrical	2013	Eskom Distribution Jan le Roux 012 421 3086
Dithabaneng Substation (& 9 interdependent projects)	Provision of project management services for the construction of a 132/33/11kV substation, 30km 132kV overhead line, 35km 33kV O/H line and various 11kV feeders.	Eskom Distribution	R135m	Electrical	2013	Eskom Distribution Julian Allison 015 299 0169
Brits Industries & Rural Cap Banks (40MVar & 30MVar)	Provision of detail design, supply, delivery, erection & commissioning of capacitor bank at Brits Rural substation	Eskom Distribution	R20m	Electrical	2013	Eskom Distribution Jan le Roux 012 421 3086
Koster Substation – Network Upgrade	Design, project engineering and project management of the new Koster 4x20MVA 88/22&11kV substation.	Eskom Distribution	R 74.2m	Electrical	2010	Eskom Dx Jan le Roux 012 421 3085
Uitkoms Substation refurbishment	Design, project engineering and project management of the substation upgrade.	Eskom Distribution	R 23.2m	Electrical	2010	Eskom Distribution Alex Ndlela 031 710 5422

## GEOTECHNICAL STUDIES AND PLATFORM DESIGN

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
Redhill Substation	Investigation of failing platform and redesign of platform and drainage systems.	Eskom Distribution	R 5m	Electrical	2013	Eskom Distribution Frans Wahl 012 421 3327
Dikgale Substation	Geotechnical investigation and 2x10MVA 33/11kV substation platform design.	Eskom Distribution	R 0.3m	Electrical	2013	Eskom Distribution Frans Wahl 012 421 3327
Veeplaas Substation	Geotechnical investigation platform storm water drainage design	Eskom Distribution	R 0.3m	Electrical	2013	Eskom Distribution Frans Wahl 012 421 3327
Mataffin Substation	Geotechnical investigation, platform storm water drainage design.	Eskom Distribution	R 0.3m	Electrical	2013	Eskom Distribution Frans Wahl 012 421 3327
Mathambo Substation	Platform design	ABB	R0.3m	Electrical	2009	ABB Michiel Strydom 083 381 2054
Dithabaneng-Middelpunt 132kV line	Geotechnical investigation for 30km 132kV line.	Eskom Distribution	R 0.3m	Electrical	2013	Eskom Distribution Frans Wahl 012 421 3327
Thulamela Substation	Geotechnical investigation, platform storm water drainage design. Project Development up to execution phase	Eskom Distribution	R 0.3m	Electrical	2013	Eskom Distribution Frans Wahl 012 421 3327
Adams & Pulida Platform Design	Geotechnical investigation, platform & storm water drainage design	Plantech	R 0.3m	Electrical	2014	Plantech JD Voigt 012 349 2253
Dithabaneng Substation	Geotechnical investigation, platform & storm water drainage design	Eskom Distribution	R 0.3m	Electrical	2013	Eskom Distribution Frans Wahl 012 421 3327
Witkop Substation	Design Geotechnical investigation, platform storm water drainage design. Project Development up to execution phase.	ABB	R0.3m	Electrical	2011	ABB Michiel Strydom 083 381 2054

## PROJECT DEVELOPMENT

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
Kimberly Strengthening Phase 2: Ferrum 400kV yard & 400kV O/H lines.	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R 1 855m	Electrical	2014	Eskom Tx A van der Walt 011 800 3917
Kimberley Strengthening Phase 3: Hotazel 400/132kV 2 x 500MVA MTS and 400kV O/H lines.	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R 2 290m	Electrical	2017	Eskom Tx A van der Walt 011 800 3917
Mookodi (Vryburg): 400/132kV 2 x 500MVA MTS & 400kV lines	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R 410m	Electrical	2014	Eskom Tx A van der Walt 011 800 3917
Ngwedi: 400/132kV 2 x 500MVA MTS	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R 700m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Aries - Nieuwehoop 400kV line	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R 642m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Borutho 400/132kV 2 x 500MVA MTS	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R 640m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Medupi Transmission Integration	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R 9 800m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Erica (Mitchells Plain) 400/132kV 2 x 500MVA MTS 12km 400kV D/C Line	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R1 165.17m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917
Pinotage (Firgrove) 400/132kV 2x500MVA MTS	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R573m	Electrical	2015	Eskom Tx A van der Walt 011 800 3917
Blanco Integration; 400/132kV 2x500MVA Narina MTS	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R776.71m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917
Houhoek Integration: Asteria 400/132kV 2x500MVA MTS and 400kV lines	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R885m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917
Ankerlig - Sterrekus 18km 400kV D/C line	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R436m	Electrical	2015	Eskom Tx A van der Walt 011 800 3917
Vryheid Network Strengthening: Agulhas 400/132kV 2x500MVA MTS & 400kV lines	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R656.72m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917

## PROJECT DEVELOPMENT

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
Replacement of under-insulated equipment in Transmission - Koeberg Substation	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R18.16m	Electrical	2013	Eskom Tx A van der Walt 011 800 3917
Cape Corridor 2nd 765kV line from Standardton to Cape Town.	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R38 000m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Tshwane Strengthening; Verwoerdburg 400/132kV 2x250MVA MTS	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R548m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Nuclear 1 (Thyspunt, Bantamsklip and Duynfontein) Transmission Integration	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R8 215m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Waterberg Stability Enhancement Project	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R1 784m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Various IPP Projects (Integration into the Eskom Grid)	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R500m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Acacia Koeberg 2nd 400kV line	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R117m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917
Droerivier - Narina - Gourikwa 400kV Line	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R1 573m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917
Koeberg New 2x250MVA 400/132kV GIS substation and deviation of associated 400kV & 132kV lines.	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R1 672m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917
Philippi MTS: Installation of 400kV busbar and 3rd 400/132kV 500MVA Trfr.	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R643m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917
Saldanha Bay Network Strengthening Bokkom 400/132kV 2x500MVA MTS and 400kV lines	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R446m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917
Aurora Ext 132kV feeder bay (Wind) Aurora Ext 132kV feeder bay (Wind). Aurora Wind Phase 1: Ext 132kV feeder bay	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R12.7m	Electrical	2014	Eskom Tx A van der Walt 011 800 3917



## PROJECT DEVELOPMENT

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
Grassridge Innowind - 60MW Wind Farm Grassridge Innowind - 60MW Wind Farm. Feeder bay in Grassridge MTS	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R12.9m	Electrical	2014	Eskom Tx A van der Walt 011 800 3917
Kangnas IPP integration: IPP Self Build of establishing Groeipunt MTS on the Aggeneis Nama 220kV line by looping in and out (2 x 0.5km). 1 x 250MVA transformer. 1 x 132kV feeder. (Self build)	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R16.2m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Kathu IPP integration at Ferrum Protection and setting changes and installation of 3 x 132kV VTs on Umthu/Adams feeder.	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R25.1m	Electrical	2017	Eskom Tx A van der Walt 011 800 3917
Loeriesfontein Orange IPP: Helios 132kV busbar extension with 4 bays and 1 x 132kV feeder	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R24.9m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Longyuan Mulilo De Aar 2 North Wind Energy Facility:Hydra MTS: Extend 400kV and 132kV busbars and install a new 500MVA transformer replace under-rated equipment not conforming to the new fault levels. Install a new 132kV feeder bay	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R369m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Longyuan Mulilo De Aar Maanhaarberg Wind Energy Facility: Hydra MTS: Extend 400kV and install a new 500MVA transformer replace under-rated equipment. Install a new 132kV feeder bay	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission		Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Nojoli Wind Farm: 1 x 132kV feeder bay at Poseidon MTS	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R14.3m	Electrical	2016	Eskom Tx A van der Walt 011 800 3917
Redstone CSP Integration at Olien: Establish a 132kV feeder at Olien S/S and upgrade the 132kV bus coupler scheme	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R14.3m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917

## IPP INTEGRATION / RENEWABLE

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
Thabametsi Coal Power Station Integration: Establish the Thabametsi 400 kV MTS, 2 x 20 km 400 kV line to loop the Matimba Medupi 400 kV line into and out of the new Thabametsi MTS and related remote 400kV feeder bays.	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R826m	Electrical	2018	Eskom Tx A van der Walt 011 800 3917
Waterloo 75MW Solar: Waterloo 132kV Feeder at Mookodi Substation	Project Development and Project Management of the scope definition and design phases and cost estimation.	Eskom Transmission	R17.4m	Electrical	2019	Eskom Tx A van der Walt 011 800 3917
Witkop IPP 132kV line 300m	Design of 132kV line from Witkop MTS to adjacent PV Solar Park	ABB	R1.5m	Electrical	2011	ABB Michiel Strydom 083 381 2056
Adams & Pulida IPP's 132kV line designs Platform Substation	Design of the 132kV Line designs Platform Substation	Plantech	R35m	Electrical	2014	Plantech JD Voigt 012 349 2253
Harava 20MW PV Plant	Grid Code Studies, Grid Connection Design, Project Management	Exess Africa	(USD) \$4.1m	All	Current	George Beukes 083 556 7169
Solgas 5MW PV Plant - Cross Mabale in Hwange, Zimbabwe	Owner's Engineers	Solgas Energy	(USD) \$4.6m	All	Current	Tafadzwa Mundicha +263 71 939 8973
Eskom REIPPPP BW5	Appointed as Interconnection Project Engineer to assist with the Bid Window 5 of the Renewable Energy IPP Procurement	Enel Green Power	R0.288m	Electrical	2021	Nombulelo Mkhethi 27 10 344 0302
Eskom REIPPPP BW5	Basic Designs, SLD's, GA's and priced BOQ's for grid connections	Scatec	R0,38m	Electrical	2021	Greg Landwehr 27 21 2021230

**BUILDING SERVICES**

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
Zimbabwe Beitbridge Border post Upgrade	Site Reticulation and Building Electrical Design	Raubex	R 103m	Electrical	Current	Raubex Building Marius Kruger 082 579 5469

**MINING SERVICES**

PROJECT NAME	DESCRIPTION	CLIENT	VALUE (Rm)	DISCIPLINE	COMPLETED	CONTACT
Swartberg Open Pit Feasibility Study	Engineering Services for Electrical, Control & Instrumentation and Communication	Exess Africa	N/A	Electrical	2020	George Beukes 083 556 7169
Koornfontein Coal Mine	Rapid Load Terminal concept design and quantity estimation	Red Dune Engineering	N/A	Electrical	2021	la Ferreira 27 79 498 8229