

Email	info@jrenergy.com
Phone	+64 274646859
Nationality	South African, New Zealand Resident
Current Position	Lead Electrical
Areas of Expertise	<ul style="list-style-type: none">- Diverse technical and commercial experience.- Experienced in binary and geothermal steam plant construction and commissioning- Management of teams of specialised professionals, technical staff and multicultural work forces.- Experienced in construction site supervision and verification of the quality of installation processes, physical construction, testing and inspection- Commercial and procurement contract development experience.- Experienced in the management of contractors, subcontractors and multidiscipline engineering groups of resources.- Comprehensive knowledge design and codes for construction and installation.- Ability to monitor, supervise, coordinate and manage junior staff- Attention to detail with excellent communication and project management skills- Possess sound organizational and analytical skills.
Qualifications	<p>Kwazulu University, Natal, South Africa (1984)</p> <ul style="list-style-type: none">▪ Bachelor of Engineering - Electrical <p>Waikato University (2004)</p> <ul style="list-style-type: none">▪ Master of Business Administration (MBA)
Training	Working at Heights, Confined Space, First Aid, Emergency Management and Microsoft Office.
Languages	English, Afrikaans

Professional Experience**JRG Energy Consultants*****2014- Present******Lead Electrical Engineer***

I am a commercially astute engineer with 28 years of diverse work experience primarily in the field of energy, mining and commercial construction sectors. I am experienced in the full gamut of project engineering, management and commissioning.

- Project management delivery across all facets of the project lifecycle.
- Project planning and approval
- Provide technical and installation expertise and support to asset team leaders.
- Manage or contribute to design and modifications, including FEED, technical reviews and HAZOP's, specifications, PI&D's, functional descriptions and witnessing FAT and SAT.

G and C Industries***2013-2014******Lead Electrical Engineer***

G and C Industries provide clients contracting and construction services in the energy, mining and commercial business sectors. With revivification of service in July 2013 G and C Industries now focuses on providing project management, engineering and consultancy services to clients.

- Seconded to NZ Steel
- Manage project execution in accordance with scope, control, technical and administration processes.
- Construction management and commissioning of installations including overseeing site works, testing and commissioning, training and operational handover.
- Preparation of procedures for installation test & commissioning.
- Develop project plans, schedules, execution plans, commissioning and QA/HSE plans.
- Development of a PLC Sports Lighting Management™ application utilised nationally and internationally.
- Project Manager - 33 kV ODID Conversion substation.
- Project development manager 22 kV Kingsland Substation construction.
- Project Proposal and Estimation Development Manager; NEC3 proposal to overhaul and upgrade a Haywards synchronous generator and switch board and transformer protection upgrades.

Contact Energy Limited – New Zealand***2007-2013******Electrical Lead***

I was employed as the electrical lead engineering within the major project delivery group, based at the Wairakei Geothermal Power Station in Taupo, New Zealand. Over the course of my employment with Contact, I had exposure to a variety of geothermal

energy projects including station development and planning, binary station design, construction and commissioning along with steam field development.

- Project development for geothermal direct heat applications
- Development and execution manager for geothermal steamfield electrical upgrades.
- Project Manager - Ohaaki Geothermal Power Station Steam Development to provide additional geothermal heating to increase power generation. Total project value \$64 million.
- Project Manager; Tauhara Water Intake a 350,000 litre concrete dual chamber construction capable delivering 20,000 tonnes/day and HDPE rising main and synthetic pond lining. Requiring consent application and negotiations and agreements with Ngāti Tūwharetoa. Project value \$8.3 million.
- Project Engineer - 28 MW Te Huka Geothermal Power Station. Responsible for E, C & I works.
- Project Engineer - Bioreactor construction, responsible for installation of all E, C&I works and equipment installations.
- Project Manager – outsourcing of PLC constructions (>10) required for the WIP capital investment initiative, value >\$2.5 million.
- Project Manager; 11 kV line installation and substation constructions including C&I equipment, remote well site Elpro communication units, building services installation and stand by generation with automatic change over; project value \$23 million.
- Lead Electrical Project Engineer - Steamfield development for a 165 MW geothermal power station; E, C&I equipment installations including, 11 kV spur connections, service transformers, switch rooms constructions, building services and commissioning.
- Te Mihi 220KV HV yard and equipment installation. Included was geographic positioning, concept an detailed design review, power station interface, QA, contract management, oversee technical installation, dispute resolution and offer technical guidance.

Siemens Energy Services**2006-2007*****Regional Manager***

I was responsible for developing commercial structure, developing new business and directing business operations for power station and substation asset inspection and maintenance teams, electrical asset and line inspection teams, technical services and project delivery group.

Responsibilities:

- Promote best safe workplace practices and implementation of company health and safety policies.
- Coordinate training programs, promote and improve HSE consciousness and practices.
- Development of new systems and process on principles of value based management.
- Develop or facilitate Staff mentoring and staff training programs.

- Deliver operational and maintenance strategies in accordance with strategic asset plans.
- Seek new and alternative strategic relationships for the purpose of client diversification.
- Develop and promoted long term sustainable and enduring relationships with clients.
- Resource architecture supporting business and organisational strategic initiatives.
- Manage reports productively and efficiently and assigning of specific duties to personnel.
- Project delivery across the full lifecycle in accordance with the Conditions of Contract.
- Engage and manage sub-contractors and suppliers with applicable commercial contracts.
- Provide technical support and engineering expertise.
- Project Manager -Successful installation, and start-up management of the Waipapa power station spillway control upgrade, including communication, automation and controls, valued at \$2.5 million.
- Prepared agreements, cost estimates, drawings and scheme plans for consumer substations.

G and C Industries**1998 –2006*****Lead Electrical Engineer***

I acted as a consultant during this time and was involved mostly in planning and development of electrical installation projects and upgrades for clients within the geothermal industry.

Electrix Limited**1995-1998*****Regional Manager***

During my time at Electrix I had over 25 reports and responsibility for five divisions; power station and switchyard maintenance asset teams, telecommunications, electrical protection, industrial and building services and regional project teams.

- Demonstrate clear and strong goal orientated leadership including technical leadership and support.
- Engage and manage construction contractors, sub contractors and equipment suppliers.
- Focus and improve customer relationships and service deliverer with emphasis on regional growth.
- Establish and implement departmental policies, goals, objectives, and procedures.
- Resource architecture for the business unit, employee growth and development including manage staffing requirements, including hiring and training of new employees.
- Plan and execute key staff coaching requirements, career planning and resource management and the establishments of individual KPI's, monitoring and reporting.
- Overall financial and commercial performance for the business unit.
- Manage tendering and contract administration processes.

- Ensure optimum utilization of power system facilities by coordinating operation and maintenance activities.
- Provide technical expertise, maintenance and fault investigation support to teams and team leaders.

Projects:

- Project Manager - 220 kV HV switch yard construction Wairakei Power Station; de-commissioning air blast CB, civil works, installation and commissioning of Siemens 110 kV GIS CB's and associated electrical equipment in accordance with OEM requirements, standards and specifications.
- Project Manager - 110 KV Atiamuri HV outdoor switchyard, bus and protection upgrade. An EPC proposal incorporating design and reviews, construction, installation of Siemens GIS 110 kV CB's, upgrade of protection requirements, testing and commissioning and operational handover.
- Project Manager - 220 KV Aratiatia HV outdoor switchyard, bus and protection upgrade and 220 kV GIS machine and line breaker CB replacement; ABB SF6 (GIS) breakers included testing and commissioning in accordance with to OEM requirements, standards and specifications.
- EPC contract; engaged as the engineer to contract to replace four 220 kV generator CB's at Whakamaru Power; including design/design reviews, procurement contracts, preparation of bid documents, evaluation and recommendations, contract award and supervision.
- Project and Outage manager; class 3 and 4 overhauls at various hydro power stations requiring checks in accordance with client requirements, modifications, testing of electrical systems, PLC functional testing and interface testing and return the unit back into service.

Gordon's Construction Limited**1993-1995*****Site Engineer***

I specialised in project management, project engineering, development, electrical contracting and maintenance services.

- Site Engineer - Acacia Power Station –57MW (3) gas turbines; routine and breakdown maintenance and testing including maintaining the dedicated 135kV switch yard and dual circuits to Koeberg Nuclear power station.
- Project Manager/site Engineer - Electrical installations and modifications, oil Refinery, Cape Town SA; including 415 V switch board upgrades at various POS and bus duct replacements.
- Project Manager - 55 unit \$500,000.00 gated complex construction project; consenting, local body design approval, planning and construction.
- Project Manager - 4 unit gated complex construction; required consenting, local body design approval, planning and construction.
- Construction/Project Manager - Tableview primary school, civil construction of a class room wing offering the school facilities to cater for pre-school attendees.

- Construction/Project Manager - several home/dwellings constructions; majority design build with close association and relationships with the home owners.
- Construction Manager - Malawi – provided engineering support for the construction and installation of concrete channels and electrical pump stations for over head irrigation.
- Malawi - Provided technical assistance for the automation and control upgrade to a sugar mill on a 50,000 acre sugar estate.
- Zimbabwe – electrical design and installations of air-conditioning (forced air) and lighting in an incline service shaft for a gold mine.

ESKOM Limited – South Africa**1981-1993**

I performed a variety of roles for ESKOM ranging from commissioning engineer through to project engineer.

- **Senior Commissioning Engineer** – Tatuka Power Station, installation and commissioning of E, C&I equipment; 400 kV switch yard including GIS switchgear, feeder protection, generator protection schemes, machine breakers, switch boards and transformers, station conveyor coal feeds, smoke stacks and local/remote RTU's and C&I interface.
- **Project Engineer** - a multidisciplinary team responsible for the design, procurement, construction and project management of a rural electrification project including, 500 km of 110 kV transmission lines, 250 MVA of 110/22 kV transformation capacity, 22 kV distribution networks and the electrification of rural and urban customers.
- **Soweto Electrification Project, Distribution Project Engineer**, a government lead initiative encompassing the electrification and supply to households without power in the region.
- **Distribution Technical Engineer ;**
 - Technical assistant to the Chief Design Engineer for rural developments including rehabilitation of diesel generation plant and the distribution networks.
 - Review of the local distribution network and maintenance practice throughout the Transvaal to develop capital investment strategic initiatives to upgrade or replace existing services. Preparation of standards, bid documents for the procurement and installation, preparation of design and construction standards of upgrade to existing services.
 - Review of distribution practice and preparation of detailed design and construction manuals providing cost effective standard arrangements.
 - Review the expansion of the MV and LV network in selected Provinces.

Electrical Test and Research:

- 300T and 65T rotor balancing station design and development including maintenance.
- Led research and feasibility studies in hydro wave propagation analysis for proposed wave tidal generation with white paper presented to Senior Management and the Company Executives.

- Responsible for relay acceptance testing on solid state OEM protection schemes and computer based; generator and feeder protection schemes.
- FAT and SAT testing of panels installed on new installations throughout the company.
- Investigate feasibility of 11 ARC DDO's. Lab tests and field tests carried out with prototype units.
- Rotor and stator testing including stator re-wedging.
- Koeberg Nuclear Power Station; Electrical Protection Team Leader responsible for electrical protection and maintenance of systems on an 1800 MW Nuclear Power Station.
- Koeberg Nuclear Power Station; Project manager chlorination plant electrical upgrade and commissioning.

Overseas Assignments

Australia, Indonesia, South Africa, USA, Malawi, Zimbabwe, Hong Kong, Singapore, Kuala Lumpur, New Zealand, Mozambique, Angola, Namibia.