We are Kinetiq Solutions, a trusted provider of industrial electrical solutions. We specialise in the delivery of electrical design, installation, and maintenance services to heavy industry.
Company Profile.

Tailored Solutions Through Innovation and Technology

Proudly Western Australian owned, Kinetiq Solutions is a specialist provider of industrial electrical solutions to heavy industry. Kinetiq was started by the current Directors Ray Salmons, Brad Hanson, and Ben Greenhill, who bring a combined sixty years of project and plant management experience from leading companies with complex operations.

Since its establishment in 2016, Kinetiq has quickly established itself as a leading niche provider of full-service electrical contracting and bespoke solutions. Our team applies an extensive depth of electrical knowledge to tailor and deliver solutions through innovation and technology. Key personnel work closely with management and project teams, building enduring and collaborative relationships that add operational value.

Our unique approach enables us to drive all phases of the project towards positive outcomes that minimise risks, manage costs and look for better ways to do things.

The Kinetiq Solutions difference is our ability to leverage our skill sets to deliver an end-to-end service, developing solutions to suit the specific needs of a project.
What We **Do.**

**Specialty Electrical Contracting**

Our people are outcomes-orientated, and we do the job once, and do it right.

As a specialty electrical contractor, Kinetiq has personnel with comprehensive capabilities in installation and maintenance. We can support your operation with the following onsite labour services:

- General electrical maintenance and installation work.
- Project management.
- Preventative maintenance and system setup.
- Electrical and Maintenance Auditing and Review.
- Lightning Protection.
- Instrumentation selection, installation and optimisation.
- Statutory electrical testing.
- Communications and telemetry.

We embrace health and safety requirements and strive to perform to the highest standard of workmanship.

**Complete Bespoke Solutions**

Our innovative approach and technological solutions can help you reach your production goals.

Our key personnel have diverse industry knowledge and experience from both sides of a project. This unique understanding gives us the ability to understand the needs of our clients, such as working within budget and operational downtime implications. That's why we provide the full scope of the work upfront, including all costs and timeline estimates.

We work with you to recommend and develop innovative and technological electrical engineering systems to suit your specific needs. Kinetiq take ownership of the process to design, supply, install, and commission, enabling large scale efficiencies from start to finish.
THE KINETIQ PROMISE

“Our experience in the industry engaging contractors shaped our promise when we started Kinetiq. That is, we will never deliberately under quote to win work, only then to make up variations as the project progresses. It’s this full transparency that has become the Kinetiq Promise.”
Case Study 1.

THE PROJECT
Jaurdi Gold Project

THE CLIENT
Beacon Minerals Ltd

THE WORK
Electrical installation of processing plant.

THE BRIEF
Develop an electrical design that caters for future changes whilst minimising the initial cost outlay.

THE CHALLENGES
The project was fast-tracked before the mechanical design was completed.

THE RESULTS
Designed site PID’s and functional specifications. Produced a neat and automated plant that reduced originally proposed staffing levels for day-to-day operations, significantly reducing initial and ongoing costs.

THE SCOPE
- Safety management.
- Design (HV and LV).
- Drawings.
- Function specifications and control requirements.
- Procurement.
- Lightning protection.
- Data and comms for site.
- Site management and supervision.
- Personnel.
- Installation and test equipment hire.
- Commissioning and handover.

“Kinetiq showed initiative and were able to identify the potential issues, and complete the works before there was any holdup to the site installation. We were very impressed with their capabilities and motivation onsite. The final product is a quality processing plant beyond our expectations.

Their experience ensured the right equipment was installed and that it was installed the right way. To achieve the engineering requirements that Kinetiq provided would have cost us many hundreds of thousands of dollars more, had we gone to a large engineering house for these works. They were able to keep the costs down by doing this work in-house and ensuring the workforce completed their works correctly the first time.”
Case Study 2.

THE PROJECT
Nova Nickel-Copper Project, Balladonia

THE CLIENT
Independence Group NL

THE WORK
Electrical installations and upgrades across various mine site locations.

THE BRIEF
The initial brief was for a one-off evacuation alarm system. This has grown to Kinetiq now being the preferred electrical specialist.

THE CHALLENGES
The client required their electrical maintenance personnel to take leave and complete further training. The client needed support during Shut Downs with no time to train new people.

THE RESULTS
Kinetiq became familiar with all policies and procedures to offer shift coverage including for senior roles such as electrical supervisors. They provided highly skilled professionals that could expand the capability of Shut Down teams with minimal disruption or training.

“The high skills and calibre of Kinetiq’s people has allowed us to trust them with specialised maintenance tasks and offer invaluable support during Shut Downs. They have become an integral part of our maintenance operations.

With Kinetiq providing Nova with their own onsite workshop, storage facilities and vehicles, they are efficient and allow us to remain productive. There are little or no mobilisation costs when they come to site at Nova.”

THE SCOPE
• Evacuation alarm system installation.
• Lighting upgrade to the filter press building.
• 55” monitor display installation x 10.
• Control room data and power upgrade.
• Power and electrical cabling exploration and upgrade.
• New switchboard exploration and installation.
• Lighting upgrade exploration.
• Fan installation exploration.
• Installation of new alcoholisers across site.
• Power and air conditioner install to the gym extension.
• Variable speed drive install to paste plant.
• New cable reeler install for the overhead gantry crane in the filter press building.
• Provision of hire equipment, onsite workshop and storage facilities.
• Provision of shut down personnel.
Other Projects.

SOME OF THE PROJECTS WE HAVE SUCCESSFULLY COMPLETED FOLLOW.

600KW 11KV VVVF

Requirements:
Reduce the potential fault level at the substation by changing transformer size and impedance, and also offering variable control over the fan.

Project Budget:
US$592,000

Scope:
• Removal of existing 3.3kV switchboard
• Installation of new 11kV fan starter and motor,
• Installation of 11kV transformer feeder and transformer and an 11kV VVVF.

Outcome:
Designed and installed the complete installation (HV and controls) with zero lost production time. This resulted in cost savings and a payback period of less than one year.

REPLACEMENT OF MCC AND 2 X TRANSFORMERS CHANGED TO 11KV.

Requirements:
As part of the site electrical distribution upgrade from 3.3kV to 11kV there was a requirement to replace 2 x 3.3/0.525kV transformers and replace with one larger 11/0.525kV transformer.

Project Budget:
US$338,000

Scope:
• Extension to an existing MCC.
• Transfer of drives located on another MCC, onto that extension.
• Replacement of a third 3.3/0.38kV transformer as part of these upgrade works with an 11/0.38kV transformer.

Outcome:
Work included upgrading all associated HV and LV cabling. These were achieved with zero lost production. Works successfully completed within a scheduled plant two days outage.
Other Projects.

**INSTALLATION OF RMU AND 2 X PIT SUBSTATIONS**

Requirements:
In preparation for underground mining, a 1MVA substation was installed at the RL330 level and the RL200 level in an open pit.

Project Budget:
US$421,000

Scope:
- Installation of a Ring Main Unit at the surface to allow for a future service hole.
- 11kV feed over the pit wall.
- 450m of 95mm² 241.11 cable installed / lowered over the pit wall.

Outcome:
This job had a high-risk potential but was meticulously planned and executed. There were no incidents or injuries. The substations were serviced and tested fully for operation and then commissioned and placed into service.

**ELECTRICAL DESIGN AND INSTALLATION OF GOLD PROCESSING PLANT**

Requirements:
After the owners had sourced all the mechanical equipment, Kinetiq designed, sourced, installed and commissioned the complete electrical installation.

Project Budget:
A$440,000

Scope:
- Electrical installation to plant, power generation, water services and accommodation camp.
- Working with the manufacturer in Canada, the gravity concentrator was automated from the original manual design.

Outcome:
An Allen Bradley PLC and Citect control system was installed to ensure the inexperienced operators could control the process simply. The result was a significant cost saving to the client by reducing the number of operators by one.
Other Projects.

**SWITCHROOM FAULT LEVEL REDUCTION AND PLC UPGRADE**

**Requirements:**
This project was to be undertaken whilst the plant was to be kept running to minimise the production losses. This needed to be carefully planned and scheduled for specific work to occur within standard plant outages. This required temporary arrangements to be put in place.

**Project Budget:**
US$581,000

**Scope:**
- Changing the 2 x existing 3.3/0.38kV transformers to a single, high impedance 11/0.38kV transformer,
- A new 11kV feeder and cable,
- Relocating drives from 2 of the 3 MCCs into the other MCC (and a site manufactured temporary MCC),
- Replacing the 2 redundant MCCs with a new MCC with Allen Bradley PLC,
- Relocating drives from the temporary MCC to the new MCC.

**Outcome:**
This job was completed with zero production down time outside the scheduled plans and completed on budget on an accelerated schedule.

**CLIENT REPRESENTATIVE FOR INSTALLATION OF OXIDE GOLD PROCESSING PLANT**

**Requirements:**
Represented the client by overseeing the engineering company’s electrical design and installation management.

**Project Budget:**
US$21,000,000

**Scope:**
- Upgrade to site HV power reticulation
- Installation of a 25 km, 33kV powerline.
- As part of the powerline work, 4 x 600kW and 1 x 190kW pumping stations were upgraded to variable speed control to maintain the strict environmental pumping requirements at different times of the year.
- All were controlled by telemetry and fibre-optic.

**Outcome:**
Engineering company had limited experienced with EPC contracts (usually their contracts are EPCM) and they needed to be controlled to ensure the client’s requirements were met. This project also included work undertaken by the client direct and outside of the engineering company’s scope.
Other Projects.

ELECTRICAL DESIGN AND INSTALLATION OF PROCESS PLANT IMPROVEMENT PROGRAM

Requirements:
Performed within the Artic Circle in the North of Norway, the project included the electrical design, installation and commissioning of both new and refurbished equipment.

Project Budget:
US$22,700,000

Scope:
- upgrade of the secondary and tertiary crusher screens
- installation of an additional secondary mill
- magnetic separators
- vertical plate press filter
- installation of stack sizer concentrate screens

Outcome:
This project was successfully completed ahead of time and under budget.

We welcome all enquiries into the services we offer and look forward to achieving success with you.
Significant Projects.

Our key personnel have had a wealth of experience working together and individually on projects.

For a list of recently completed key projects, head to our website page:


“We have an experienced team of industry professionals, adept at identifying latent opportunity and value adding on projects through applying innovative thinking. Some of our people are the best in the business”. 
Suppliers.

Setting You Up for Success

We maintain partnerships with leading market manufacturers and distributors, so that we can be confident our clients receive optimum value and technical support.

In carefully selecting our supplier partners, we are able to offer our clients equipment that represents value and provides technical support, with proven results and a track record. Our team puts forward recommendations and end-to-end solutions with the help of:

- ABB Variable Speed Drives and Soft Starters.
- Rockwell and Allen Bradley PLCs.
- PSS Uninterruptible Power Supplies.
- Erico Lightning Protection.
- Vega Level Instrumentation.
- IFM Sensors.
- Endress+Hauser Analytical.
Contact.

Kinetiq Solutions Directors

We welcome all enquiries into the services we offer and look forward to achieving success with you.

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Kinetiq Solutions proudly supports the McGrath Foundation, Telethon and the Ronald McDonald House, helping make a difference in the lives of families in our community.