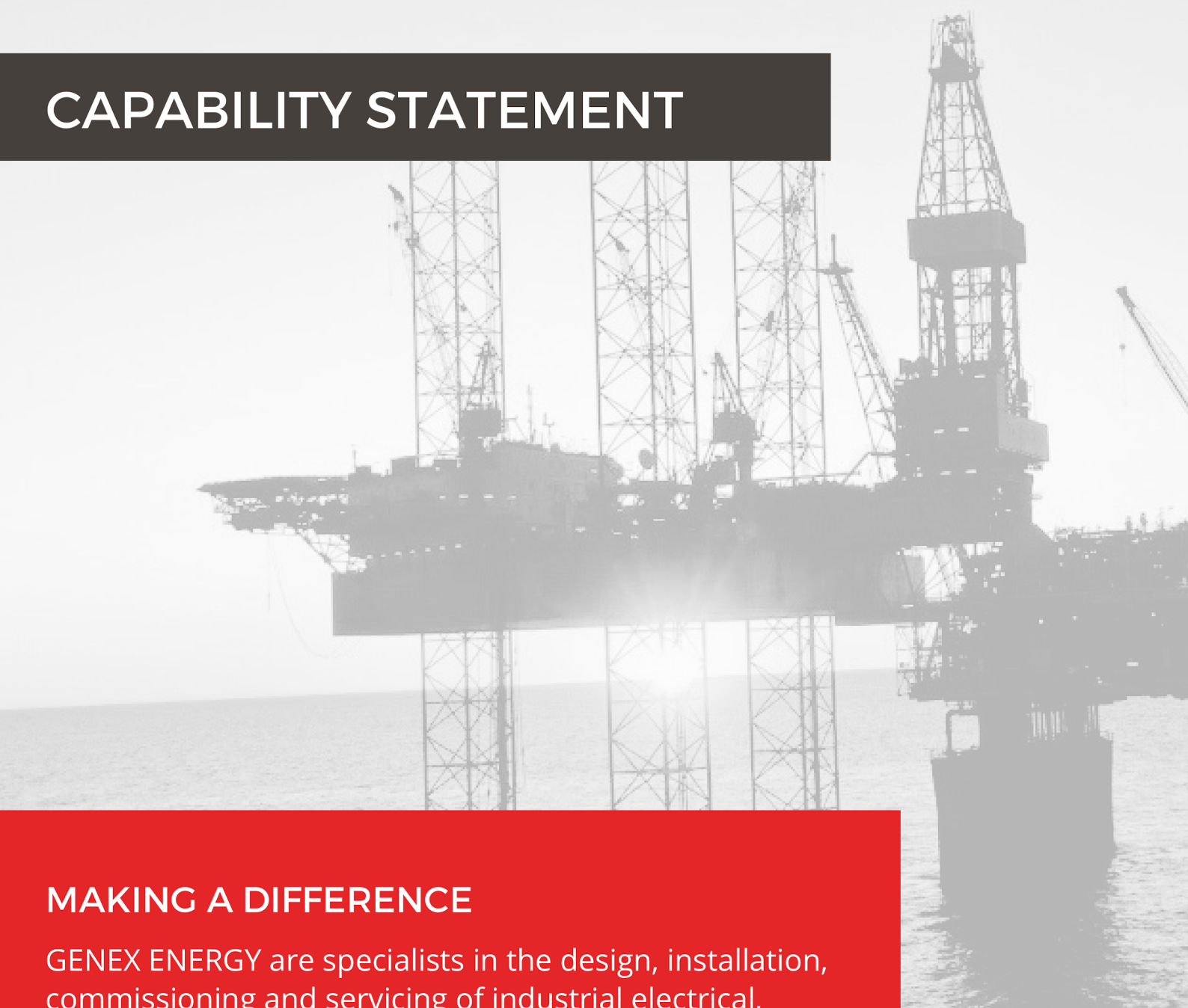


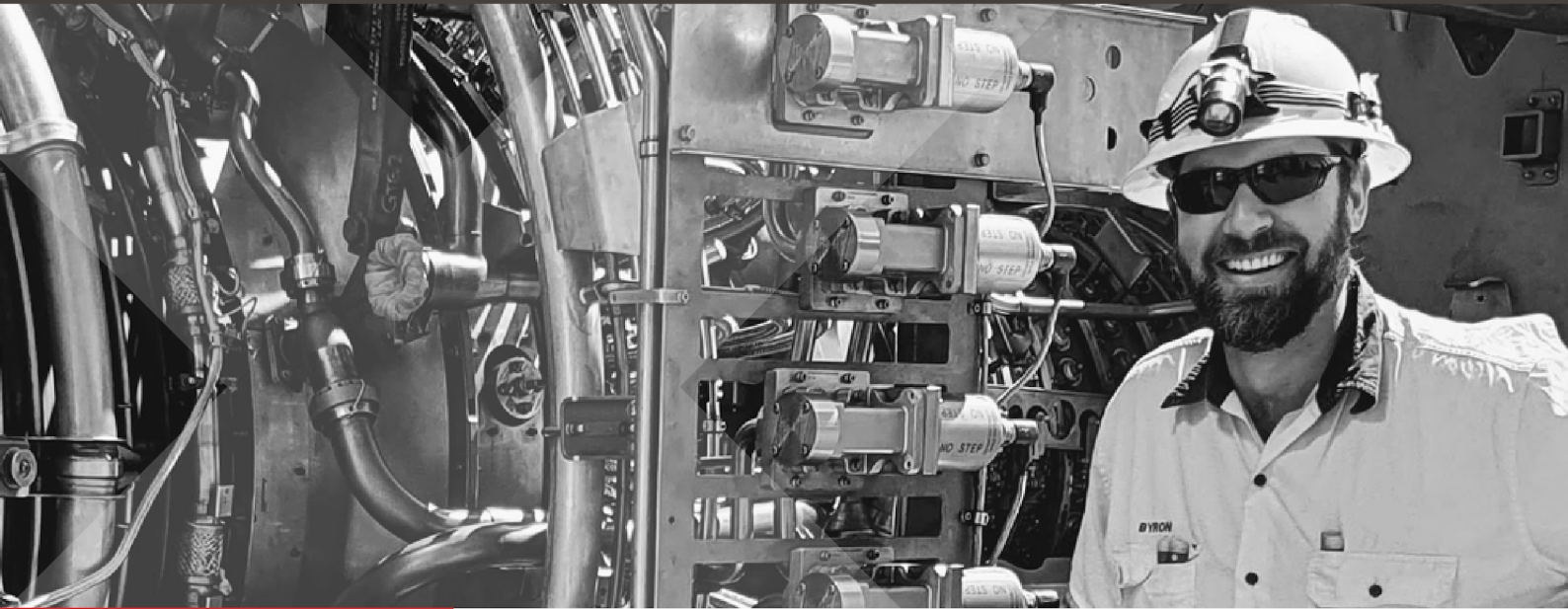
## CAPABILITY STATEMENT

### MAKING A DIFFERENCE

GENEX ENERGY are specialists in the design, installation, commissioning and servicing of industrial electrical, instrumentation, industrial gas (Type-B) appliances, and renewable energy systems.



# COMPANY PROFILE



## MISSION

To support our customers achieve measurable improvements through the comprehensive design, installation, operation, and maintenance of industrial energy systems.

## VISION

Our vision at GENEX ENERGY is to emerge as the foremost provider of sustainable energy solutions in Western Australia.

## VALUES

**ACT WITH INTEGRITY** - We uphold the utmost standards of ethical conduct, consistency, honesty, and accountability in all our engagements.

**OPERATE WITH EXCELLENCE** - Our organisation thrives on the relentless pursuit of technical excellence and an unwavering commitment to continuous improvement.

**CARE FOR PEOPLE** - Ensuring everyone's safety and well-being is our top priority.

Moreover, we are dedicated to upholding environmental sustainability in all aspects of our operations.



At our core, we are driven by our unwavering commitment to our mission, vision and values



1300 112 117

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# CAPABILITIES

GENEX ENERGY is well placed to provide a turnkey solution as we are a licensed electrical contractor, industrial gas permit holder, and renewable energy service provider.

Whether your project requires electrical and instrumentation, hazardous area management, industrial gas, or renewable energy skillsets, GENEX has you covered.

We take pride in the diverse range of specialised skills our team possess, allowing us to offer comprehensive solutions across many industries including oil and gas, mining, chemical processing, gas transmission, and power generation.

Our specialist services include:

- Electrical & Instrumentation
- Industrial Gas (Type-B) Appliances
- Hazardous Areas Management
- Renewable Energy Systems
- Power Station Operations
- Temporary Power Solutions



We provide our customers with a turnkey industrial energy solution, we remain flexible in our deliverables



# ELECTRICAL & INSTRUMENTATION



## **DESIGN, INSTALLATION, COMMISSIONING & SERVICING OF INDUSTRIAL ELECTRICAL & INSTRUMENTATION SYSTEMS**

GENEX understand the crucial importance of having reliable, safe and cost-effective electrical and instrumentation equipment and systems as part of a successful industrial process.

Our comprehensive range of services cover all aspects of electrical and instrumentation design, installation, commissioning, and servicing.

### **DESIGN**

Our team work closely with yours to develop solutions proven to work.

### **INSTALLATION**

A specialist team of construction electricians and INLECS, with years of major project experience both onshore and offshore.

### **COMMISSIONING**

With a team of experienced professionals, we meticulously verify, document, and test each component to ensure compliance with industry standards and regulations.

- Loop checks
- Electrical verification, inspection and testing
- Critical Function Checks (Safety Instrumented Systems)

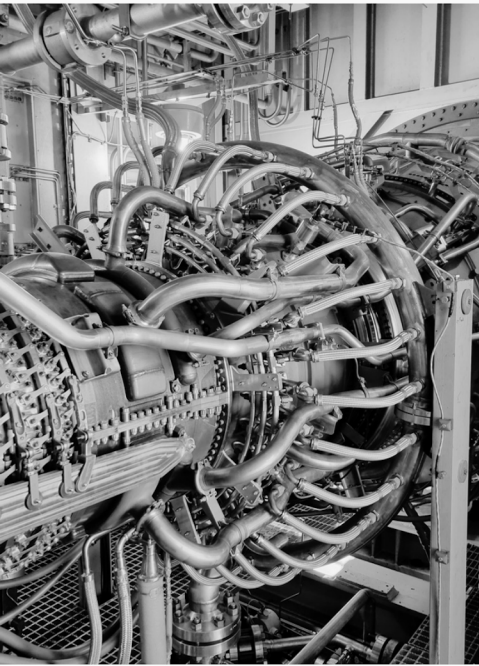
### **SERVICE, REPAIR & MAINTENANCE**

We provide comprehensive service and maintenance support, either scheduled or unscheduled.

- Valve Servicing and Overhaul
- Instrument Calibrations
- PLC programming
- Fire & Gas System Checks and Calibrations
- Process Control Solutions
- Audits and Condition Assessments

GENEX offer regular maintenance schedules, prompt repairs, and efficient troubleshooting services to ensure the smooth operation and longevity of our clients' electrical and instrument infrastructure.

# INDUSTRIAL GAS

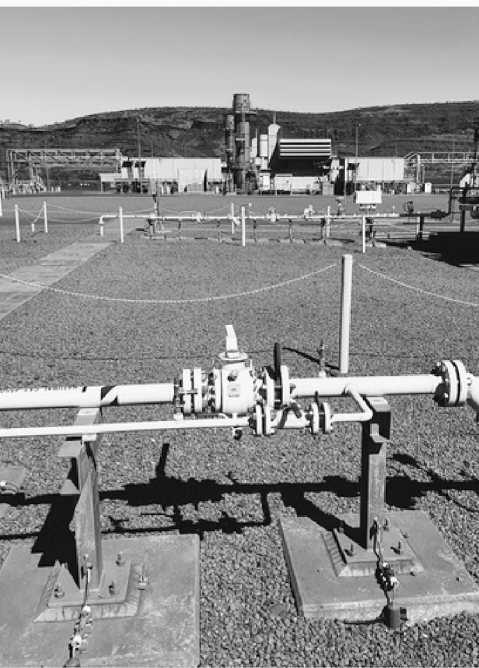


## **DESIGN, INSTALLATION, COMMISSIONING & SERVICING OF INDUSTRIAL (TYPE-B) GAS APPLIANCES**

GENEX ENERGY provide services and solutions for a number of industrial gas systems:

- Power Generation
- Gas Compression
- Industrial Dryers (Kilns)
- Boilers & Burners
- Waste-to-flare Burners

Our skilled team consists of electrical instrumentation technicians, gasfitters, high voltage specialists, and control system specialists.



## **GAS RECIPROCATING & GAS TURBINE ENGINES**

Our expertise in power generation and gas compression systems, enables us deliver customised solutions that meet the unique requirements of a wide variety of industrial applications.

By offering these services, we help our clients achieve reliable power generation, improved energy efficiency, and minimised downtime in their operations.

## **SPECIALIST OPERATION & MAINTENANCE**

GENEX deliver customised solutions that meet the unique requirements of a wide variety of industrial applications:

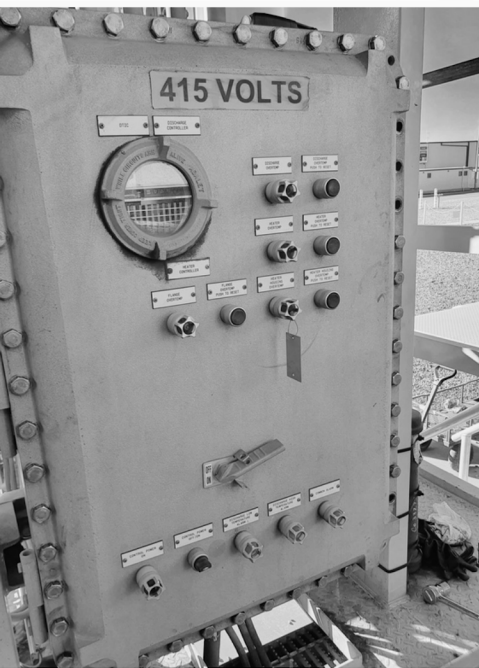
- Flue Gas Analysis
- Engine Tuning (performance Tune)
- Control System Upgrades
- Burner Management Upgrades
- Borescoping
- Condition Assessment Reporting

By offering these services, we help our clients achieve reliable power generation, improve energy efficiency, and minimise downtime.

## **HYDROGEN ELECTROLYSERS & FUEL CELLS**

Our team have helped numerous Hydrogen projects through various stages to development of Hydrogen powered fuel cells and Hydrogen generating electrolyzers. Remembering that Building and Energy has classified these appliances as Type-B gas appliances. Therefore an I-class permit is required.

# HAZARDOUS AREAS MANAGEMENT



## AREA CLASSIFICATION

Our experienced team conducts assessments, considering factors such as ventilation, substance properties, and potential ignition sources.

We provide detailed area classification reports, outlining the specific zones and requirements for electrical equipment installation and ensuring compliance with relevant safety standards.

## INSTALLATION

Our skilled technicians are well-versed in the requirements and intricacies of hazardous areas. We meticulously plan and execute the installation process, selecting suitable equipment, carrying out thorough QA/QC and well documented commissioning practices.

## INSPECTION & RECTIFICATION

GENEX conduct thorough inspections of electrical equipment, assessing the condition, integrity, and suitability for installation in explosive atmospheres.

If any issues or deficiencies are identified, we promptly rectify them through comprehensive maintenance management software.

## COMPLIANCE AUDITS & GAP ANALYSIS

In depth assessments of existing installations are completed, comparing them against relevant safety standards, regulations, and industry best practices.

We identify any gaps or non-compliance issues and provide detailed reports with actionable recommendations for rectification.

## CONFORMITY ASSESSMENT

With deep knowledge of safety standards and regulations, we evaluate the design, construction, and performance of the equipment to ensure it meets the required criteria.

Our assessment process includes detailed inspections, testing, and documentation to verify compliance.

# RENEWABLE ENERGY



## **SOLAR PHOTOVOLTAICS**

We carefully design solar PV systems to maximise energy generation and optimise performance based on site-specific factors and requirements.

Our professional installation services ensure the seamless integration of solar panels, inverters, and electrical components.

## **BATTERY ENERGY STORAGE**

In the design phase, we collaborate closely with our customers to understand their energy needs and objectives. We assess factors such as load requirements, peak demand, and available renewable energy sources to design a battery energy storage system that aligns with their specific requirements.

Our battery energy storage solutions are scalable, from only a few kilowatts to multiples of Mega watts.

One of the best uses of battery energy storage systems is for the abatement of fossil fuels such as diesel when used for base load power generation.

## **HYDROGEN, BIOGAS & BIOMETHANE**

We work closely with companies looking to design, install, commission, and maintain Hydrogen electrolyzers, fuel cells, biogas and biomethane appliances and facilities.

Type-B appliances require an I-class gas permit to design, and install in WA. GENEX has the electrical and gas experience to make this a reality.



# POWER STATION OPERATIONS



## OPERATIONS & MAINTENANCE

Our specialist knowledge of power generation systems, enables our team to support power station operations with personnel who know what they are doing from the outset. Specialists who can do the job, and contribute, rather than just another pair of boots on the ground.

GENEX support a number of Tier 1 power producers across the state with both short term and long term operational support.

We work closely with our clients to develop safe systems, operational procedures, and maintenance strategies.

We remain flexible in our support strategies to enable a unique relationship with our clients.

## EQUIPMENT INSPECTIONS

GENEX excels in providing digital infield equipment inspections for electrical, instrumentation, and gas appliances by leveraging software based systems.

This digital approach allows for efficient documentation, instant reporting, and effective analysis of equipment performance over time. The database of information is easily manipulated for increased system analytics.

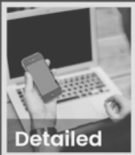
Digital inspections enhance the accuracy, speed, and transparency of our inspection services, enabling our clients to make informed decisions regarding the maintenance, repair, or replacement of their electrical, instrumentation, and gas appliances.

Are there any external influences or ambient temperatures which need to be assessed

Yes

No

Grade of inspection



Detailed



Close



Visual

Take a photo of the Dataplate and any relevant markings or labels.



+



None of the above

▼

Enter the relevant equipment protection technique marked on



# TEMPORARY POWER SOLUTIONS



## **BUILD, OWN & OPERATE**

GENEX ENERGY offers a range of temporary power solutions, including diesel generators, hybrid diesel generators, and innovative hybrid diesel, solar PV, and battery energy storage systems catering to various power needs.

Understanding that temporary diesel-powered systems are still necessary, GENEX caters for the design and installation of diesel-fired power stations with capacities up to 10MW.

Our preferred approach to minimising liquid fuel use is by integrating solar PV and battery systems, thereby reducing environmental impact and enhancing efficiency.

Furthermore, GENEX provides a comprehensive service of build, own, and operate (BOO) temporary power systems facilitated through Power Purchase Agreements.

This approach allows clients to benefit from reliable power solutions without the need for upfront investment or ownership concerns.

## **SALES & RENTAL**

For solutions focused solely on equipment, options include purchasing or leasing diesel generators and battery energy storage systems to suit various operational needs.

## **HYBRID SOLUTIONS**

GENEX offers rapid deploy, solar PV, diesel, and battery energy storage solutions which save significant costs and reduce environmental impact by combining renewable energy with traditional power sources for more efficient, cleaner energy production.

# OPERATIONAL LOCATIONS

GENEX has operational support in multiple locations across Western Australia and as far a field as Singapore, providing our clients with as much support as possible.

- Perth
- Kalgoorlie
- Karratha
- Victoria
- Northern Territory
- Singapore



GENEX ENERGY is a West Australian owned and operated business with far reaching capabilities



**GENEX**  
ENERGY



# CONTACT US

We always welcome enquiries into our business and the services we offer and look forward to achieving success together.



Kwinana, Perth, Western Australia



[www.genexenergy.com.au](http://www.genexenergy.com.au)



[support@genexenergy.com.au](mailto:support@genexenergy.com.au)



1300 112 117

Electrical Contractor Licence: EC14803  
Gasfitter Permit Number: GF20979



It's not what you say you're going to do that counts, it's what you do that makes the difference



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