

SYNCHROTECH CONTROLS PTY LTD

ELECTRICAL ENGINEERS

CAPABILITY STATEMENT REVISION 2018

DESIGN, MANUFACTURE, INSTALLATION & COMMISSIONING OF GENERATION & POWER SOLUTIONS



SYNCHROTECH CONTROLS PTY LTD ESTABLISHED 1985

ABN 99 104 541 639

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SYNCHROTECH CONTROLS

COMPANY OVERVIEW

Synchrotech Controls originated in 1985 as a partnership between two qualified electrical engineers, Gary Parkhill and Jim Ellwood. In 2010 they formally began a management restructure offering key personnel and long term staff members an opportunity to manage and invest in the company. Synchrotech Controls is now majority owned by the current staff.

Synchrotech Controls operates from purpose built facilities in Northgate which house both its engineering and workshop facilities in one central location. Synchrotech Controls on-site testing facilities ensure all products are stringently tested and proven before they reach the field.

All projects are designed by our own in-house engineers who work the full lifecycle of their projects. Engineers oversee everything from initial assembly and installation to in-house testing and witnessed factory acceptance testing, and then continue through commissioning activities and project finalisation. Additionally, our engineers provide ongoing support to all our past projects ensuring that our products perform as designed over the life cycle of their installation.

Our team of staff is unique in its longevity, with several current members having contributed over twenty years of continual service with the company. Our accumulated depth of experience, combined with our broad range of expertise is a key element in our continuing capacity to achieve customer satisfaction.

| MAJOR CLIENTS | | |
|----------------------|-------------|-----------------------|
| Origin Energy | Santos | Enerflex Process |
| Jemena | APA Group | Department of Defence |
| Department of Health | Renu Energy | Alinta |
| Epic | Murphy Oil | Penske/MTU |
| EPSA | Cummins | Fredon |
| Stowe | Energex | |

CONTACT DETAILS

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KEY PERSONNEL

Director/Senior Electrical Engineer - ANDREW ROWLAND (MIEAUST, CPENG, RPEQ)

Andrew joined the company in 2000 after graduating from QUT with a Bachelor of Engineering (Electrical). In his role as a senior Electrical Engineer, Andrew is actively involved in electrical design, testing and project management for a wide variety of projects. Andrew's experience includes complete design, manufacture, installation and commissioning of remote power stations, co-generation plants, standby power units and generators packages. Andrew has vast experience with implementation and controls for complex multiple incomer plant, parallel to mains and emergency power stations in both low and medium voltage.

Director/Senior Mechanical Engineer - CRAIG GILES (MIEAUST, CPENG, RPEQ)

Craig joined the company in 2002 after graduating from QUT with a Bachelor of Engineering (Mechanical) with First Class Honours. Craig is involved in all mechanical aspects and project management for a wide variety of projects. Craig's experience includes co-generation plants, sewerage gas applications, coal seam methane power stations, compressor stations and off shore oil rigs. Craig has expert knowledge in the field of gas code compliance, Type-B installations and gas treatment systems. Additionally Craig brings to the company a huge level of experience in generator packaging design and structural packaging requirements.

Director/Senior Electrical Engineer - BENJAMIN MEWING (RPeng, RPEQ)

Benjamin joined Synchrotech in 2009 after graduating from QUT with a Bachelor of Engineering (Aerospace Avionics) with first class honours. Ben is actively involved in electrical design, testing and project management for a wide variety of projects. Ben's experience includes complete design, manufacture, installation and commissioning of remote power stations, standby power units, switchgear assemblies and modular power systems. Ben has extensive experience with flexible and mobile power solutions, control system development, PLC programming and SCADA implementation.

Director/Workshop Manager/Type B Installer - BRUCE KINGSTON

Bruce joined Synchrotech in 1997 as a qualified Boiler Maker and has been working in the industry for 25 years. In his current role as Mechanical Foreman, Bruce oversees the day to day manufacturing activities of the company. Bruce is involved in aspects of the design, manufacturing, commissioning and installation of generator sets, gas & diesel fuel systems and ancillary equipment. After his years of manufacturing specialist generator related equipment and enclosures, Bruce provides a huge base of knowledge and expertise in producing quality generation equipment.

Other key personnel include;

- Gavin Spanner
 Senior Mechanical Engineer
- Terence Scott Senior Electrical Engineer
- Tim Cullen Electrical Engineer
- Justin Heuser
- Electrical Foreman/Type B Installer
- Chris Abell
- Site Installation Supervisor

- Electrical Foreman/Type B Installer

Stephen Nazarski - S

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SERVICES & CAPABILITIES

QUALIFICATIONS AND COMPETENCIES

As per the requirements of the Professional Engineers Act 2002 we can confirm that all engineering services required will be provided by a registered professional engineer (RPEQ) or by an engineer under the direct supervision of a registered professional engineer. Synchrotech Controls has on staff both electrical & mechanical engineers registered with the Board of Professional Engineers Queensland (BPEQ). Additional competencies include,

- Hazardous Area Zoning, Design and Installation.
- Electrical Contracting Licence
- Gas Work Authorisation

MANUFACTURING FACILITIES

Synchrotech Controls operates from purpose built facilities in Northgate which house its engineering, manufacturing and testing facilities in one location easily accessible from Brisbane CBD or airport.

Manufacturing capabilities include,

- Heavy Duty Structural Fabrication
 - o Cutting, Drilling, Weld Preparation
 - o Structural Purpose MIG Welding
- Pressure Piping Fabrication
 - Cutting, Drilling, Weld Preparation
 - o TIG and MIG Welding
- Stainless Steel/Mild Steel Sheet Metal Fabrication
 - o Guillotine, Punch and Press
 - TIG and MIG Welding
- Electrical Assembly and Testing Works
 - o Control Panels
 - o Distribution Boards and Switchboards

PRODUCTS AND SERVICES

Typical Synchrotech products and services include:

- Turn-key Power Generation Plant & Generation Facilities
- Packaged and Open Generation Sets
- Mobile/Modular Power Systems
- Gas and Diesel Fuel Treatment Systems
- Co-Generation & Co-Generation Control Systems
- Generator & Plant Control Systems
- Switchgear , Power Distribution & Switchrooms
- Testing & Verification Services
- Site Works

Further detail on each of these typical products is provided in the following sections.

QUALITY ASSURANCE

Synchrotech Controls is an electrical and mechanical engineering firm specialising in the production, service and repair of power generation systems. Established in Brisbane more than 30 years ago, the organisation has the experience required to provide quality solutions for a range of diverse applications.

Synchrotech Controls understands the importance of quality to its customers and the business at large, and as such, it has established and implemented a quality management system based on the requirements of ISO 9001:2008. As well as complying with customer requirements, Synchrotech Controls commits to complying with the requirements of the standard and its own internal requirements, as well as statutory and regulatory requirements that apply to it.

In order to achieve the aims of its quality management system, Synchrotech Controls establishes measurable quality objectives and targets at relevant functions and levels of the organisation, which its workers endeavour to achieve. Synchrotech Controls places particular emphasis upon the following aspects of its business, believing them to be especially vital to quality:

- Product quality, reliability and longevity
- Workforce professional development and satisfaction
- Timely detection and correction of nonconformity.

Quality objectives and targets are set out in the organisation's current Objectives and Targets Register, and they relate to product as well as other areas of the business. Quality objectives and targets are reviewed for achievement at management review, and new objectives and targets are also set in this forum.

Synchrotech Controls commits to continually improving the effectiveness of its quality management system via system maintenance, this quality policy, its objectives and targets, and other means, in order to remain a viable business well into the future.

INSURANCES

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Synchrotech Controls currently holds and maintains the following policies:

Public Liability

Management Liability

- Insured Limit: \$20,000,000
- Professional Indemnity Insured Limit: \$10,000,000
 - Insured Limit: \$5,000,000
- Workers Compensation
 Liability Limit: Compensation Benefits & Common Law Liability
- Transportation, Fire & Theft
 Insured Limit: \$1,000,000 per load

Level of cover can be adjusted to meet project requirements.

POWER GENERATION PLANT & GENERATION FACILITIES

Synchrotech has the capability and experience to design, assemble, install and commissioning fully operational turnkey power stations. Using either Sycon packaged units, client free issued packages or open skid gensets within custom buildings/plant rooms.

Synchrotech Controls offers the precise solution to power generation anywhere is Australia, having installed a range of successful projects across the Australian mainland as well as some offshore projects.

With some twenty five years' experience in remote unattended prime power generation, we are able to offer the best combination of components and quality of workmanship to optimize the durability of the equipment in any environment. Our meticulous attention to detail is what enables equipment survival with the minimum of site attention. We know when designing for a remote site, it is often the little things that can cause the most trouble. The tyranny of distance can mean that a simple fluid leak or a blown fuse can require a very expensive mobilization to site for what would normally be a simple speedy repair.



8.4MWe 22kV Early Field Power Station – 4 x 1.5 MW Natural Gas & 2 x 1.2 MW Diesel Fired Generators – Yuleba QLD



2 x 800kWe Bio-gas Packaged Generator Power Station – Goulburn NSW



3MW Gas Turbine Power Station with Heat Recovery - Chinchilla QLD



Offshore Oil & Gas Rig Powered by Synchrotech Packaged Gensets

PACKAGED GENERATION SETS

Synchrotech's package generator sets offer a reliable source of power for installations in harsh environments such as rural, remote, coastal and offshore areas. All units are manufactured based on Synchrotech standard model designs with adjustments to meet specific customer requirements and/or specifications. Mechanically, our systems are resilient to dust, high ambient conditions and salt laden environments that would otherwise jeopardise reliable operation. Our packaged sets also have the benefit of providing high noise reduction sound attenuation. All factory-built, self-contained packages offer flexibility of design and provide the best environment for a generator to survive the rigours of prime power operation.

All packaged gas engine generator sets are designed for compliance with the applicable gas requirements and come with Type-B design certification.

Synchrotech can develop new package designs or modify existing designs to suit any engine manufacturer, physical size constraints and power output requirements a client may have.

Synchrotech packaged generator standard features include but are not limited to:

- Certified heavy duty structural steel hot dip galvanised (HDG) base frame
- Full stainless steel (304 or 316) body construction throughout assembly
- Generously sized machinery access doors
- Positive pressure filtered enclosure ventilation system
- Fluid containment & detection
- All internal panels are acoustically treated for sound attenuation
- Thermostatically controlled vertical discharge cooling systems
- Full weather and vermin proofing
- 25 year design life
- Type B appliance certification on all gas fired packages
- Standard package designs are available up to 1.5MW

Standard Synchrotech Gas Generator Packages:

- Package 104 10 to 50 kVA
- Package 97 50 to 150 kVA
- Package 122 150 to 300 kVA
- Package 122 Maxi 300 to 450 kVA

Standard Synchrotech Gas Walk In Generator Packages:

- Package 288 500 to 1250 kVA
- Package 293 1000 to 1875 kVA

Examples and further information on these packages can be found in the following pages.

SYCON PACKAGE 104 - (20-50KVA)



PSI General Motors 4.3L V6 Natural Gas Genset Package 104



KVT (Gasified Perkins Diesel Block) Natural Gas Packaged Generator – Built as KVT1104 25kVA Single Phase or KVT1006 50kVA 3 Phase



PSI General Motors 4.3L V6 Natural Gas Genset Package 104 Side Elevation

SYCON PACKAGE 97 - 50 TO 150 KVA



Cat Natural Gas G3306NA 100kVA Package 97



2x Cummins Diesel M11 250kVA Package 97



Waukesha Natural Gas F11 165kVA Package 97

SYCON PACKAGE 122 - 150 TO 300 KVA



Cat Natural Gas G3406TA 220kVA Package 122



2x Waukesha Natural Gas F18 290kVA Package 122



2x Waukesha Natural Gas F18 290kVA Package 122 - IP54 for Offshore Application

SYCON PACKAGE 122 MAXI - 300 TO 450 KVA



Waukesha Natural Gas H24GL 410kVA Package 122 Maxi – IP55 for Offshore Application



2x Cat Natural Gas G3412C LE 440kVA Package 122 Maxi & 1x Natural Gas G3408TA 305kVA Package 122



3x Cat Natural Gas 3412C LE 440kVA Package 122 Maxi

SYCON PACKAGE 288/293 - 500 TO 1850 KVA



3x Waukesha Natural Gas VGF36 GLD V12 600kVA & 1x Cummins Natural Gas GTA38G1 510kVA Package 288



MTU Natural Gas 16V 4000 L61 2000kVA Package 293 Leaving the Factory



Waukesha Natural Gas VHP L7042GL 1100kVA Package 288 – IP54 for Offshore Application (In Synchrotech Factory Test)

DIESEL PACKAGES



2x Cat Diesel C15 550kVA Standby Package with Integral Switchboard & Controls



Perkins Diesel 1104C-44TAG2 100kVA Standby Package 424



Perkins Diesel 1103A-33G1 29kVA Package 424-Hub Size

OPEN SKID GENERATION SETS

Synchrotech supply custom designed and manufactured, and/or upgraded OEM genset skid products. Open skid design generators are often a cheaper alternative to fully packaged units where installation conditions are not as demanding, sound attenuation is not required, the installation is indoors or installation is in a specialist generator room.

All units are manufactured to meet specific customer requirements and/or specifications. Often standard engine OEM skid units require significant upgrades to make them suitable for multiple parallel unit installation and to provide more advanced reliability in service.

All gas engine generator sets are designed for compliance with the applicable gas requirements and come with Type-B design certification.

Synchrotech can cater for any engine manufacturer, physical size constraints and power output requirements



LHS - Cat Natural Gas G3306NA Skid Gensets. RHS - Cat Diesel G3512TA Emergency Standby Skid Genset



Cat Natural Gas G3406TA Skid Genset

MOBILE POWER SYSTEMS

Synchrotech is able to provide equipment for your mobile power supply needs, having developed and manufactured many trailer based and portable power skid solutions.

Key features of existing Synchrotech modular relocatable power systems include:

- > The ability to increase/decrease site installed capacity
- Gensets fitted with power, communications & fuel leads allowing each unit to be "plug & go"
- > Entire fuel systems with secondary containment to lower environmental risks and hazards
- Modular skids are fully self-contained and require no external control
- Generator packages can automatically start and stop to follow site load
- > IP56 External Switchboard can be fitted with up flexible outgoing feeders & loading options

Mobile gas fuelled power systems are also available; however gas fuelled units have more stringent installation requirements that make them less easily moved.



Diesel Fuelled Mobile Power Skid (3x 80kVA Gensets)



Transportable Custom Cummins Diesel Package Mounted on Trailer



- Trailer Genset With on-board Switchgear, VSD & Load Bank



Portable Fuel Trailers (Fully Bunded)



Perkins Diesel 1104C-44TAG2 100kVA Package 424 - Trailer Mounted

GAS FUEL TREATMENT SYSTEMS

In association with the supply of gas fuelled generators, Synchrotech Controls has developed expertise in design and manufacturing of gas treatment and conditioning skids to suit town gas, CSG and Bio-gas applications. Synchrotech Controls in-house engineering ensures that all gas conditioning equipment is designed, constructed and tested in accordance with Australian Standards including but not limited to: AS1210, AS60079.10 & AS60079.14. Material traceability, critical design schematics (P&ID), and equipment datasheets are all provided in a Manufacturers Data Report which is supplied as standard.

Gas fuelled generators are supplied standard with Type-B compliant gas valve trains, including pressure monitoring and safety shutoff.



3 Stage Filter Vessels for Saturated Field CSM - Knock Out, Coalescing & Particulate Filtration



Fuel Gas Pressure Reduction Skid - 10,00kPA to 25kPA with Heat Tracing



Redundant Train Gas Treatment Skid with 3 Stage Filtration



Bio-Gas Extraction & Treatment Package for a Gas Genset at a Waste Plant



Figure 1 - Dual Train CSM Skid for a 3MW Cogeneration Plant

DIESEL FUEL SYSTEMS

A necessary aspect of any power generation project is the integration of the required fuel handling, storage and conditioning systems. Similar to the expertise Synchrotech Controls has developed in design and manufacturing of gas treatment it also has considerable knowledge in the provision of diesel fuel systems.



Figure 2 - Integral Diesel Belly Tank in a Packaged Genset

Figure 3 - Contained Spill Diesel Fill Point for a Mobile Power Skid



Installation of Underground Bulk Fuel Storage

Figure 4 - Above Ground Fuel Storage for a Remote Island Power Station



Diesel Generator Day Fuel Tanks in a Generator Hall



Stainless Steel Belly Tank in a Portable Genset



Double Contained Bulk Diesel Supply at Remote Power Station

CO-GENERATION SYSTEMS

Co-generation or Combined Heat and Power (CHP) is the simultaneous generation of electrical and thermal energy to provide an environmentally conscious approach to power generation. Heat recovery equipment can be fitted to extract the waste heat from both the engine cooling system and the exhaust gases depending on the amount and quality of the customers heating requirements. Applications for cogeneration heat recovery systems can include building air conditioning, the production of hot water and high pressure process steam.

Synchrotech has been involved in design, installation and commissioning of a number of co-generation facilities, generally utilising natural gas fuel.



Mains Parallel Gas Fuelled Co-generation Waste Heat Recovery System



PID Controlled Engine Aftercooler Mixing Value in Waste Heat Recovery Circuit



Engine Jacket Heat Recovery System Situated On Co-gen Hall Roof



Hot Water Pipe Header in a Turbine Exhaust Gas Heat Recovery System



Gas Fired Grid Power Export Plant, with Steam & Hot Water Co-gen

GENERATOR & PLANT CONTROL SYSTEMS

Synchrotech's specialist engineering team provides purpose designed complete power station control systems. The engineering team has extensive knowledge and experience in design and implementation of complex power control systems, including but not limited to:

- Comprehensive generator control and monitoring
- Generator synchronisation & load sharing
- Station set sequencing
- Switchboard feeder control
- Automatic load shedding
- Mains paralleling
- Power import and export control: continuous, sequential and peak shaving operation
- Multiple mains incomer bumpless transfer switch applications
- Emergency power and soft transition on mains return
- Balance of plant functionality, I.e. Fuel control systems

Synchrotech can also provide custom developed SCADA systems with high resolution data logging, live trending and external control features. All controls systems are fully tested with real site equipment or using our purpose built generator and plant simulation test facilities.



Island Mode Power Station Control System: 4 Generators & 1 Station Control Panel



ComAp InteliGen Control System - Set Mounted



ComAp InteliGen Control System and Integrated Switchboard - Onboard Genset Package



ComAp InteliSys Control System & Generator ACB in 1 Panel + Station Control Panel with ComAp 17" HMI



Six Generator & Station Control Panel for HV Emergency Power with Bumpless Mains Transitions



Dual Generator Controls with Station Power Mimic Panel



3 Generator Control Panels for Emergency Supply of a Complex HV Power Network



HV Network Mimic Panel - Installed as Part of an Emergency Power Plant



Generator Hall: Stand-alone Gas Detection Shutdown Control System



Synchrotech Developed Custom Citect SCADA Project: 22kV Prime Power Station

SWITCHGEAR ASSEMBLIES, POWER DISTRIBUTION & SWITCHROOMS

Synchrotech Controls capability includes design and construction of switchboards, MCC's, distributions boards, DC power systems and termination panels to suit customer requirements. Our team specialise in providing type tested assemblies using third party systems: B&R Enclosures – Signature Range & IPD Elsteel Products as well as custom designed panels. All switchgear assemblies supplied by Synchrotech Controls are designed, constructed and tested in accordance with AS3439 & AS3000.

Synchrotech also has extensive experience in the supply, fitout and installation of fully functional switch and control rooms. Rooms containing all power and control componentry for a power station installation can be fully pre-fabricated and fitout, making site installation of an entire station very simple.



Outdoor IP56 Form 3B Switchboard



6400A 415VAC Main Switchboard (Back to Back Construction) Installed in Demountable Switchroom



Portable Skid Mounted LV MSB (with IP56 second skin)



Custom Built Power Heavy Cable Junction Board for Large Power Station



Elsteel LV Switchboard with Integrated Genset Controls (Installed inside Genset Package)



Custom Manufactured Main Switchboard adjacent to Generator Control Panels inside Demountable Switchroom



Auxiliary Power LV MCC (Installed in Containerised Control & Switchroom)



11kV Main Switchboard, Assembled in Demountable Switchroom



11kV Main Switchboard at a Mains Parallel Co-Gen Power Station



Figure 5 - Generator Start Battery Chargers & Generator Auxiliary DB Mounted in Generator Hall



Figure 6 - Example of Switchroom Fitout

TESTING & VERIFICATION SERVICES

Synchrotech Controls maintains a comprehensive inventory of test equipment, compiled over the twenty-five years of our companies' existence aimed specifically at the testing and proving of generators and their control systems. This equipment includes state of the art proprietary electronic equipment to measure vibration, noise, airflow, fuel consumption, exhaust gas analysis, temperature and pressure as well as all electrical parameters including voltage, current, kilowatts and power factor, harmonic analysis, and transient step response.

In respect of testing complicated switchgear and mains paralleling control systems, we have amassed a collection of custom made equipment that makes possible the complete testing of control systems under simulated site conditions before leaving the factory. Our simulation equipment is primarily hardware based so that the client and their technical representatives can witness first hand, actual operation of equipment being controlled rather than being required to take a result at face value as is often the case when computer based simulation is used.

Typically, generators will be simulated by individual small scale variable frequency, variable voltage rotary AC synchronous machines with CTs and VTs rated so as to appear to the control system as the actual site generators are being controlled. Both resistive and reactive load is available for connection to the system as required. Three phase variable phase current and voltage injection is available to test all metering. All functions of a control system will be 100% operative during factory testing.

For switchgear and site functionally testing we have at our disposal a series of small scale modular switchboard sections that have been built for test purposes. These units are custom assembled for your project to represent the actual site reticulation network. Load feeders, incomers (mains & generators) and neutral earthing contactors will all be represented and fitted with CTs and VTs, visual mimic operation, remote trip and close inputs and auxiliary contacts.

For all testing regimes a specific philosophy of operation is devised so that the system response may be predicted to any combination of site circumstances or operator actions. Inspection and test plans are produced that precisely interpret and carry out each scenario, and the correct response to be demonstrated beyond doubt for the client's representative.

Synchrotech's testing facilities are located in air-conditioned test rooms at our office premises which allow all parties the opportunity to discuss and resolve potential problem areas in relative comfort with all normal office facilities at their disposal. Being in-house our testing protocols are not at the mercy of financial, time, or physical space restraints.



Client Witness Testing



Large HV Reticulation Station Controls under Test (Numerous Mains Parallel Points)



Data Centre Backup Power Station Control System under Test



Test Room Features



Site Main Switchboard Connected for Factory Testing (Above Twin G3306NA Genset in Adjacent Test Bay)



Packaged Gas Gensets Setup for FAT



4x Packaged Gas Gensets Being Setup for Full Function FAT

SITE WORKS

In association with equipment supply and engineering services, Synchrotech's capabilities also include site installation services for its equipment. Synchrotech has many years installation experience, from simple generator installations on pre-prepared sites to full site civil and construction works and as such Synchrotech can provide installation services suit any client's needs.

Ensuring full compliance with design and ongoing reliability for the end user, Synchrotech provides site installation verification, should the equipment be installed by others and commissioning services as well as ongoing support to site operations through its equipment lifecycle.



Full Site Installation & Commissioning by Synchrotech, Including Civil Works



Installation of a Custom Built Testing Load Bank in an Existing Emergency Backup Power Station





Site Works, Cable & Tray Installations and the Finished Site



3MW Co-Gen Power Station: Full Site Installation & Commissioning by Synchrotech, Including Civil Works