



 **POWER  
ENGINEERING**

A division of Greenshields JCB Limited

# BROADCROWN POWER ENGINEERING

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Experts in the supply and maintenance of  
Generators, Power Systems & UPS



# WHO WE ARE

At Broadcrown Power Engineering our primary goal is to maintain reliable power resilience and limit the risk and impact of power outages. We provide generator system maintenance, system upgrades, mechanical overhauls, fuel management and emergency power support to customers nationwide.

With over 40 years' experience, we understand the needs of the critical power generation industry, maintaining the reliability and continuity of our customers' power supplies, regardless of a generator's make, model, or size.

We operate from several national locations, including two in the South East and a purpose built facility in the Midlands, complete with a workshop, test facilities and parts warehousing. Additionally, as a division of Greenshields JCB we are also able to maximise geographical coverage by taking advantage of JCB's dealer network locations across the UK.

We are equipped with technical know how and equipment to support our customers' needs nationwide. This is further enhanced by our technical archive of Broadcrown products and installations, collated over the last 20 years, which allows us to access original engineering drawings and system designs for the benefit of our customers.

We are proud to have been entrusted with delivering power solutions to vital industries and its always part of our vision to approach every customer with the most caring, flexible, and can-do approach.

Broadcrown Power Engineering aims to be your trusted partner in supporting reliable power resilience. With services covering the whole power system life cycle – installation, maintenance, testing, upgrades, and mechanical overhauls – we will provide you with a reliable, efficient, and uninterrupted power supply.





# WHAT WE DO

At Broadcrown Power Engineering, we offer generator maintenance and emergency power support to every corner of the UK. Our OEM trained engineers provide backup for any make, model and size of generator. Regular and one-off servicing is available for all types of installations and industries, from a single generator to a multi-set installation.

We have successfully delivered multiple turn-key installations including many major projects in London. We are able to identify how best to design and install reliable power systems - in some cases fully disassembling and re-assembling generators to work around site constraints - as well as how to assist with contingency planning and disaster recovery.



**Paul Cregg – Divisional Director**

With 22 years of experience within the Power Generation industry and project management, Paul is committed to enhancing customer satisfaction by expertly managing Broadcrown Power Engineering to maximise customer project success and ensure compliance.



**Lisa Wilshaw – Operations Manager**

Lisa has 33 years of Generator Aftermarket experience and is dedicated to ensuring the team work fast to respond to our customers' daily requirements. As a respected industry veteran Lisa is a Council Member of AMPS, the generator industries leading trade association.



**Lorna Webster - Key Accounts Manager**

Lorna delivers solutions-driven sales backed by over 20 years' experience of Power Generation systems. Committed to promoting the full Broadcrown Power Engineering service suite, Lorna excels in building strong solution-led relationships with our customers.







# GENERATOR AND UPS SERVICING

Regular servicing and preventative maintenance minimises the risk of breakdown and enhances the optimal life of the asset. At Broadcrown Power Engineering we can provide generator and UPS maintenance as a one off, or as part of an assured price service contract for up to five years. Service levels can be tailored to the customer's specific requirements and budget.

- One-off servicing available on all makes of generator & UPS
- Option to upgrade to Asset Care – our fixed price service contract
- OEM trained and experienced engineers
- Full access to all manufacturers' manuals and catalogues
- We can supply compatible parts for all makes and models of Generators, including obsolete parts for legacy systems
- Full Generator Health check completed on-site to detect and fix defects
- Lifecycle survey available to identify possible future problems or regulation adherence due to obsolete components
- 24/7 Emergency Callout with 4-hour Site Response
- Planned Maintenance and Servicing around the requirements of your business, never encroaching on its operations







# ASSET CARE

## THE COMPLETE MAINTENANCE AND SERVICE PACKAGE

Asset Care is our tailored fixed price service agreement which provides specified maintenance actions and emergency call out cover 24/7 365 days a year to provide customers with absolute peace of mind. The length of the agreement is determined by you and can range between 12 and 60 months. With Asset Care, you can schedule maintenance at a time to suit your needs and as importantly, to fit a budget. In defining customer needs we recommend a power system survey to determine the set up and condition of the equipment at the inception of a new contract. This ensures that the offered solution is both informed and appropriate.

Our Asset Care Service Agreements are tailored to your specific needs and can include the following:

- Minor Service
- Major Service
- Oil Sampling
- Certified Waste Oil Disposal
- Load Bank Testing (optional)
- 24/7 Emergency Call-Out Support
- Fuel Analysis
- SFG20 Schedule Compliance

### 24/7 Emergency call-outs

Included within all our service agreements is emergency call out cover which means that a call will be answered immediately by one of our expert team 24 hours a day. In the first instance we will provide help and troubleshooting remotely over the phone and if the issue cannot be remedied remotely, we commit to providing nationwide attendance within 4 hours of the call. All our engineers are highly skilled in the critical power industry, retain the appropriate diagnostic tools and are equipped with a range of spare parts on their vans to increase the probability of a first-time fix.



# LOAD BANK TESTING AND HIRE

We offer a complete Load Bank Testing package – delivery, installation, testing and collection – to evaluate critical factors such as voltage regulation, cooling system efficiency, and overall responsiveness. With our new fleet of Load Banks ranging from 100kW, we can offer load testing for all makes of generator up to 3MW. Alternatively, we offer a Hire-only package for your own testing and peace of mind.

As part of routine maintenance, it is recommended Generators are run to full capacity, at least annually, for a period, to confirm operation and load acceptance. Having your generator equipment load bank tested, ensures that it's ready to perform as expected in an emergency. It is also recommended to power an idle standby generator to ensure it starts when needed and to increase its life.

- Mains Fail and Integrated System Testing whilst monitoring the Whole System performance
- Medium and High Voltage Testing and Monitoring
- Unity and Lagging Power Factor Testing
- Resistive, Reactive and Inductive Testing
- Control systems testing under varying load
- G1, G2 & G3 BS Testing Specification
- Load Data Recording and Reporting

## Temporary Critical Power Hire

We can provide both temporary replacement generators and a power contingency plan to help you manage both planned downtime and an emergency blackout situation as efficiently as possible. We can install temporary generators on site should they be required because of emergency power outage, increased application demand or a remote off grid location. The process will be overseen by qualified engineers to ensure the temporary installation performs to the requirement and is reliable.





# CONTROL SYSTEM UPGRADES AND COMPLIANCE

Obsolescence can often render a generator unfit before its time and one way to extend the lifespan of your generator is to upgrade your control system. Choosing the right control system can significantly improve the efficiency and reliability of your generator and Broadcrown Power Engineering offers an extensive range of upgrade services to suit every business to give you total peace of mind.

In addition, we can assist in connecting any generation equipment to public distribution networks in compliance with both G59 and G99 requirements. We can help you assess whether the change in legislation is applicable to your generator system and, if applicable, ascertain the best technical method of upgrading your control system to comply.

## Emissions and Permit Testing

Where customers are required to comply with emissions and permit testing, we can provide emissions testing on new and old generator installations.

Our testing equipment will log the following exhaust parameters.

- Oxygen (O2)
- Carbon Monoxide (CO)
- Temperature
- Nitrogen Oxide (NO)
- Nitrogen Dioxide (NO2)
- NOx (Combined NO & NO2)





# GENERATOR REFURBISHMENT

An engine and mechanical overhaul is often a cost effective way of restoring a legacy power system back into servicing or to optimal performance and reliability. Rather than replacing a new diesel generator or engine it often makes best environmental and economic sense to refurbish.

Generator refurbishment can include, and not limited to:

- Engine rebuilds
- Switchgear overhauls
- Fuel system upgrades
- Radiator upgrades
- Generator rewiring
- Heat exchange improvements
- Alternator rewinding
- Cooling system upgrades

## Generator Lifecycle Surveys

Generator Lifecycle Surveys are a valuable add-on service for customers who prioritise the longevity and sustainability of their power generators.

The core purpose of a Lifecycle Survey is to assess the condition of the generator's components and identify if any are obsolete or nearing the end of their useful life. These components might not be broken or malfunctioning, but they could be outdated, less efficient, or no longer compliant with current regulations. Recognising and addressing such issues can prevent unexpected failures and downtime while enhancing the overall efficiency of the generator.





# FUEL MANAGEMENT

The fuel used in generators today is almost all blended, and because of this, it can be very easily contaminated. When combined with more advanced engines that can absorb micro-particles, dirty fuel can quickly cause a problem.

Contaminated fuel reduces the efficiency, reliability and longevity of your power generators. In particular, dirty fuel puts the safety and continuity of critical services at risk. Any business using diesel generators should test its stored fuel regularly.

Broadcrown Power Engineering provides fuel management services to help ensure your generators work when required. The process is quick and effective and can include:

- Fuel Sampling – to check for contaminants which reduce the efficiency, reliability and longevity of a generator
- Fuel Polishing – to remove harmful sediment that can block the filters, and starve the engine of fuel
- Tank Cleaning - to prevent the build-up of bacteria and other contaminants
- Fuel Supply & Disposal - we partner with specialist providers to respond to any refuelling request including supply and disposal
- Fuel Transition service – to ensure your tank and generator components are clean and ready for switching from diesel to an alternative fuel, such as HVO
- OFTEC Inspections - satisfy regulatory requirements and standards







# SPARE PARTS

Broadcrown Power Engineering retains a stock of over £250,000 of spare parts at cost including consumables and components for a all makes of engine and generator system.

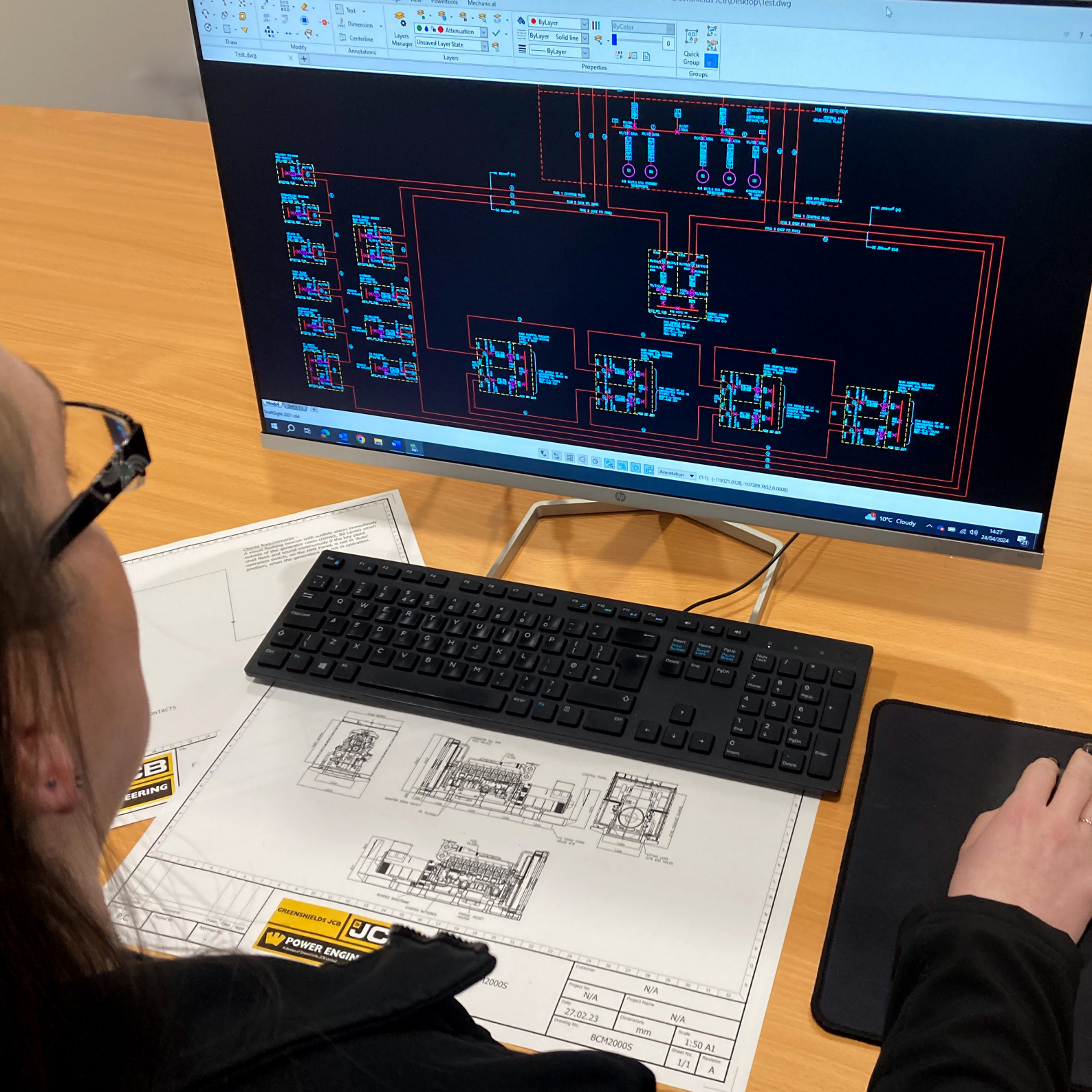
We pride ourselves in maintaining a wide range of parts including the obscure and the obsolete so to be able to offer to support to all ages of power systems. We hold a deep stock of in JCB parts and are able to source 95% of all requirements for JCB products within 24 hours of customer enquiry. Additionally, we are able to source parts on request whether it be a single item or to satisfy a multi-year tendered contract.

A sample of Broadcrown Power Engineering parts stock is advertised for sale via our online shop [www.broadcrownpowerengineering.com/shop/](http://www.broadcrownpowerengineering.com/shop/) 

Broadcrown Power Engineering's stock holding includes the following brands:







# PROJECT DESIGN AND INSTALLATION

At Broadcrown Power Engineering, we pride ourselves on successfully delivering more than 2,500 turn-key installations in London and across the UK.

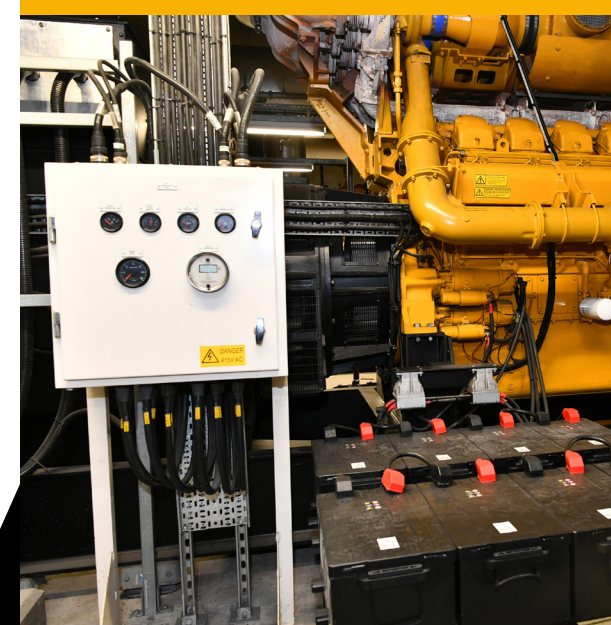
Our in-house team project manages everything from design to installation, testing and final commissioning, and we look after the complete power generator system once commissioned.

We know how to deal with the challenges and pressures from initial design to project completion regardless of the project requirements, and we focus on making the process as simple as possible for you.

Before advising on any power solution, whether a new installation or the relocation of an existing generator, we carry out a site and application survey. This ensures we thoroughly understand your requirements and helps us a bespoke solution.

We will identify the best solution for your site, from 20kVA to 3.5MVA generators on either Prime or Standby applications and offer integrated solutions with Building Management Systems (BMS) and Fuel Systems.

Once the installation is complete, we will work with you to ensure the generator is commissioned safely, on time, and with minimal disruption to your business.







# OUR INDUSTRIES

We have over 40 years' of experience in the critical power industry working across multiple industry sectors - from the maintenance of a single generator at an elderly care home to a multi-set installation for a data centre - mindful that time is money and every second saved is vital to ensuring an uninterrupted power supply. When short- term power outages happen, we can offer swift, reliable solutions to help minimise financial loss and enable companies to maintain business continuity.

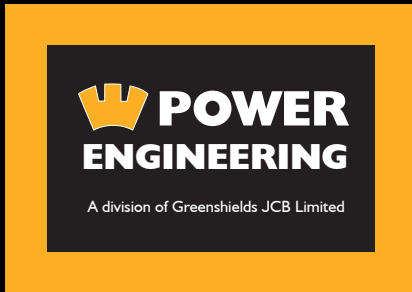
Accreditations:



- Data Centres
- Residential
- Financial & Commercial
- Industrial
- Stadiums
- Construction
- Emergency Services
- Retail
- Banking
- Healthcare including NHS hospitals and trusts







# BROADCROWN POWER ENGINEERING

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Greenshields JCB Limited