

NGSS

Northeast Generator & Solar Solutions



COMPANY PROFILE



**INNOVATIVE &
COLLABORATIVE**

- Exclusive Distributor for XCMG Gensets.
- Generator Services.
- Solar Solutions.
- Back up Parts.



INTRODUCTION

Northeast Generators & Solar Solutions Ltd. (formerly Northeast (PNGP Power & Construction Ltd) has been a trusted provider of reliable power solutions in Papua New Guinea since 2016. We began by offering minor construction and waste management services, and have since evolved to become a leading supplier of generators and solar solutions.

OUR HERITAGE

Founded in 2016, Northeast (PNG) Power & Construction established a strong reputation for quality and reliability in the construction and waste management sectors. Recognizing the critical need for consistent power in PNG, we expanded our offerings to include generator sales in 2022. We quickly secured the exclusive distributorship for XCMG diesel generators, a testament to our commitment to providing top-tier products.

OUR EVOLUTION

In 2023, Northeast (PNG) Power & Construction underwent a strategic shift, focusing entirely on becoming a leading provider of generator and solar solutions. This commitment is reflected in our new company name, NorthEast Generators & Solar Solutions Ltd.

OUR EXPERTISE

We offer a comprehensive range of services to meet your power generation needs:

- Exclusive distributor of XCMG diesel generators: We offer a wide range of XCMG diesel generators, renowned for their durability and performance. Our generators range from 6.25KVA to 1500KVA, ensuring we have the perfect solution for any application, from residential to commercial and industrial use.
- Generator Services: Our team of qualified and dedicated electrical engineers provide comprehensive generator servicing to keep your equipment running smoothly.
- Solar Solutions: We supply high-quality solar panels, inverters, and batteries, allowing you to harness clean and sustainable energy. Our team can design a custom solar solution package or integrate your existing generator with the grid and solar power for complete power security.
- Backup parts: We stock backup parts for XCMG generators, ensuring you have the necessary components for timely repairs and maintenance.

VISION

To emerge as the most esteemed energy technology company in Papua New Guinea. We are dedicated to providing our customers with value-added products and services, fostering a growth-oriented environment for our employees, and creating exceptional investment returns for our shareholders.

MISSION

Enjoy Green Energy!

We are committed to becoming the driving force behind the solar energy industry in Papua New Guinea, facilitating a transformation of energy usage across the country. We strive to establish ourselves as a sustainable model for solar technology in Papua New Guinea, maximizing the value of our customers' investments.

OUR GOAL

One-stop Green Energy Solutions Provider

CORE VALUES

- Reliability
- Value Pleasure
- Customer First
- Improvement & Innovation
- Kindness to Others
- Collaboration & Cooperation
- Leadership in Growth
- Integrity & Professionalism
- Truthfulness & Objectivity
- Proactivity & Initiative
- Openness & Inclusiveness



WHY CHOOSE US?



01

Unwavering Commitment to Customer Satisfaction

We prioritize exceptional after-sales service, understanding the critical role constant power play in business operations.

04

Comprehensive Solutions

Most of people often explain the key factor depends on primaries and secondaries products/ services data

02

Trusted Expertise

Our team of qualified electrical engineers possesses the knowledge and experience to design and implement the most suitable power solution for your specific needs.

05

Commitment to Sustainability

We are committed to promoting clean energy solutions and helping customers reduce their reliance on fossil fuels.

03

Quality Products

We source our products from reputable brands, ensuring you receive reliable and long-lasting equipment.

06

Dedicated Support Team

Our knowledgeable and responsive support team is available around the clock to assist you with any inquiries or issues, ensuring seamless operation of your power systems.

About XCMG

XCMG Established in 1943 is the largest manufacturer of construction machinery in China, and also a multinational company with global influence, which is devoted to providing customers with complete solutions and top-notch service for construction machinery including generators.

Benefits of XCMG diesel Generators:

- Durability: Built to last with high-quality components and a robust design
- Reliability: Known for their reliability, even in the harshest conditions
- Performance: Offers superior performance with fuel-efficient engines and low emissions.
- Support: We provide a comprehensive spare parts and services to ensure our generators are always up and running.



We offer a wide range of XCMG diesel generator sets, from 6.25KVA to 15KVA, to meet various power needs. These generators come in difference configurations, including silent type, mobile power station type, automatic type, multi-parallel type, and remote monitoring type.

SPECIFICATIONS OF THE DIESEL GENERATOR SET Silent & Rainproof

| SPECIFICATIONS OF THE DIESEL GENERATOR SETSilent & Rainproof | | | | | | | | |
|--|----------------|---------------|---------------|-----------------|----------------|----------------|------------------|--------|
| GENSET MODEL | RATED POWER | RATED VOLTAGE | RATED CURRENT | RATED FREQUENCY | CUMMINS ENGINE | ROTATING SPEED | SIZE | WEIGHT |
| JHK-5GF | 5KW/6.25KVA | 400/230V | 9A | 50HZ | YD380 | 1500r/min | 970*570*820mm | 168kg |
| JHYD-8GF-S | 8KW/10KVA | 400/230V | 14.4A | 50HZ | YD380D | 1500r/min | 1800*900*1400mm | 1000kg |
| JHYD-15GF-S | 15KW/18.75KVA | 400/230V | 27A | 50HZ | YND485D | 1500r/min | 1800*900*1400mm | 1200kg |
| JHK-24GF | 24KW/30KVA | 400/230V | 43.2A | 50HZ | 4B3.9-G2 | 1500r/min | 2400*1000*1550mm | 1350kg |
| JHK-50GF | 40KW/50KVA | 400/230V | 72A | 50HZ | | 1500r/min | 2400*1000*1550mm | 1600KG |
| JHK-50GF | 50KW/62.5KVA | 400/230V | 90A | 50HZ | 4BTA3.9-G11 | 1500r/min | 2300*1000*1550mm | 1600kg |
| JHK-80GF | 80KW/100KVA | 400/230V | 144A | 50HZ | 6BT5.9-G2 | 1500r/min | 3000*1100*1700mm | 1950kg |
| JHK-100GF | 100KW/125KVA | 400/230V | 180A | 50HZ | 6BTAA5.9-G2 | 1500r/min | 2800*1100*1650mm | 2250kg |
| JHK-120GF | 120KW/150KVA | 400/230V | 216A | 50HZ | 6BTAA5.9-G12 | 1500r/min | 2900*1100*1650mm | 2250kg |
| JHK-150GF | 150KW/187.5KVA | 400/230V | 270A | 50HZ | 6CTA8.3-G2 | 1500r/min | 3300*1100*1800mm | 2270kg |
| JHK-200GF | 200KW/250KVA | 400/230V | 360A | 50HZ | 6LTAA8.9-G2 | 1500r/min | 3300*1300*1800mm | 3100kg |
| JHK-250GF | 250KW/312.5KVA | 400/230V | 450A | 50HZ | 6LTAA9.5-G1 | 1500r/min | 3600*1600*1900mm | 4450kg |
| JHK-300GF | 300KW/375KVA | 400/230V | 540A | 50HZ | NTA855-G4 | 1500r/min | 4000*1700*2000mm | 4600kg |
| JHK-400GF | 400KW/500KVA | 400/230V | 720A | 50HZ | QSZ13-G3 | 1500r/min | 4000*1800*2000mm | 5100kg |



PRODUCT OVERVIEW

CONTROLLING SCREEN

The user-friendly control panel features:

Self-starting parallel control screen: This screen allows for both automatic start (adjustable between 15-50 seconds) and manual operation.

Real-time monitoring: Displays key engine and generator parameters, including:

- Three-phase voltage
- Frequency
- Current (all three phases)
- Oil pressure
- Oil temperature
- Unit Speed
- Operating hours
- Battery voltage



CONTROL UNIT

Automatic Transfer Switch

An Automatic Transfer Switch (ATS) is essential for situations where maintaining consistent power is critical. The ATS seamlessly switches between the main power supply (mains) and the backup generator (genset) without requiring manual intervention.

Here's how it works:

- If the main power voltage drops below a pre-set level (adjustable between 0-10 seconds), the ATS automatically starts the emergency generator.
- Once the generator is running, the ATS transfers the load from the mains to the emergency power supply, ensuring uninterrupted power for your equipment.
- Conversely, when the main power supply returns to normal levels, the ATS will automatically switch to load back to the mains and shut down the generator.

The ATS offers added functionality with:

- 3 selectable operating modes: automatic, closed (manual bypass), and open (manual transfer)
- Generator power display
- Mains power display
- Current power source display (mains or generator)

Parallel Synchronizing Control Panel – Power & Efficiency at Your Fingertips

The Parallel Synchronizing Control Panel allows you to control and manage two or more diesel generator sets simultaneously. This system offers several significant advantages:

- **Cost Effective:** Compared to purchasing a single, large generator, using multiple smaller generators with a parallel control panel can save you 50-70% on initial purchase costs
- **Optimized Power Usage:** The system automatically starts the appropriate number of generators based on the current load size. This avoids running a high-power unit at low loads, saving you fuel and maintenance costs.
- **Reduced Maintenance:** High-power generators have more complex components that are more expensive to maintain. Smaller generators have simpler components and lower overall maintenance costs.
- **Extended Lifespan:** This system utilizes a “wheel-off” approach, meaning each generator gets cycled on and off throughout operation. This reduces wear and tear on individual units, extending their overall lifespan.
- **Enhanced Reliability:** Even if one generator malfunctions in a parallel system, the remaining units will continue to provide power. This eliminates the risk of a single unit failure causing a complete power outage.



CUMMINS SERIES

XCMG Diesel Generators: Powered by Cummins Engines for Reliable Performance
XCMG diesel generator sets are equipped with high-performance Cummins engines, a globally recognized brand known for its reliability and fuel efficiency. For over a century, Cummins has earned the trust of engineering, industrial, and mining enterprises worldwide. Founded in 1919 and headquartered in Columbus, Indiana (USA), Cummins boasts an extensive network for over 500 distributors and 6500 service outlets across 190 countries, ensuring exceptional customer service.

As a leading foreign investor in the Chinese engine industry, Cummins owns manufacturing facilities like Dongfeng Cummins Engine Co., Ltd (producing B, C, and L series engines) and Chongqing Cummins Engine Co., Ltd. (producing M, N, and K series engines). Committed to meeting ever-evolving environmental regulations, Cummins continuously develops new products that comply with the latest emission standards. Currently, their entire lineup meets China III emission requirements.





OUR VALUED CLIENTS

We are proud to serve a diverse clientele across Papua New Guinea, including:

- 📍 Department of Finance
- 📍 Water PNG Ltd
- 📍 East New Britain Haus
- 📍 Stratos Building
- 📍 Credit Corporation
- 📍 2Fast Motors
- 📍 Nuigini Oil Company
- 📍 Aitape Lumi District Development Authority
- 📍 Raihu District Hospital
- 📍 Church of Christ
- 📍 Pacific Travel Services
- 📍 Eliseo Trading
- 📍 Aitape Investment Ltd· Milne Bay Provincial Government



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GENERATOR SERVICE

At Northeast Generators & Solar Solutions, we understand the critical role your generator plays in keeping your operations running smoothly. That's why we offer comprehensive onsite diesel generator servicing and maintenance plans to ensure your equipment operates at peak performance and avoids costly downtime.

Our Team of Qualified Technicians:

Our team of highly skilled and certified technicians possess the expertise to handle all your generator servicing needs, regardless of size or application. We offer a variety of service options to meet your specific requirements:

Scheduled Maintenance

Choose from monthly, quarterly or annual servicing plans to ensure your generator received the preventative maintenance in needs to run optimally.

Single or Multiple Generator Servicing

We can service a single generator for a home or business, or handle the maintenance of multiple generators for large facilities.



Industrial-grade Expertise

Our team is well-versed in servicing industrial diesel generators, ensuring your heavy-duty equipment receives the specialized care it requires.

BEYOND PREVENTATIVE MAINTENANCE

NGSS goes beyond simple maintenance. We offer additional services to meet your unique needs:

Generator Service Contracts

- Secure peace of mind with a comprehensive service contract that outlines scheduled maintenance visits and priority service during emergencies.

Turnkey Generator Solutions

We provide a complete service package, encompassing design, installation, commissioning and ongoing servicing and maintenance for your commercial or industrial generator.

BENEFITS OF REGULAR GENERATOR MAINTENANCE

By prioritizing preventative maintenance with NGSS, you'll enjoy several key benefits:

Reduced Risk of Breakdowns

- Regular servicing helps identify potential issues before they escalate into costly breakdowns, minimizing downtime and saving you money.

Improved Efficiency

- A well-maintained generator operates more efficiently, leading to lower fuel consumption and reduced operating costs.

Extended Generator Lifespan

- Regular maintenance practices extend the life of your generator, protecting your investment.

INVEST IN PEACE OF MIND WITH NGSS GENERATOR SERVICE

Contact Northeast Generator & Solar Solutions today to discuss your generator servicing needs. We'll ensure your equipment is operating at peak performance, providing you with the reliable power you need to keep your business running smoothly.

THANK YOU

Contact Us

Address

Mutual Rumana Building Waigani

Telephone

325 2023

Let's discuss your power generation requirements. We look forward to partnering with you to ensure your business operates seamlessly with uninterrupted power.