



- ❖ **RENTAL POWER**
- ❖ **TURNKEY SOLUTIONS**
- ❖ **INDUSTRY LEADER**

www.energiaksa.com


Trust. Quality. Excellence.

INTRODUCTION

Founded in 2011, the **ENERGIA** has grown alongside the region by evolving to meet the rising demands of our clients, and in the process has become a trusted and reliable partner for lifting, shifting & energy rental solutions. With over 5 years experience serving Middle East & Africa, we have played an integral role in the construction of numerous iconic projects in the region, helping us to cement our position and establish a solid and trusted reputation within the region.

ENERGIA provides complete power generation solutions from basic generator rental to total turnkey power project with design, installation, testing and commissioning of multi-megawatt power plants.

ENERGIA has extensive experience in Middle East under most weather conditions (high ambient temperature, humidity, dust, and altitude), yet deliver the customer's desired power.

SOLUTIONS

ENERGIA has a qualified and experienced team of design, execution and commissioning Engineers, who can design from concept to ultimately delivering the solution at customer's location. The committed team at **ENERGIA** is highly experienced in handling emergencies to meet customer demand and provide best in class products and services.

ENERGIA is fully equipped with a large fleet of Cummins Power Generation, diesel generators and accessories to provide total turnkey solutions from 400 V to 34.5 kV, 50/60 Hz, multi-megawatt power plants operated in island or utility paralleled mode. Our fleet consists primarily of high power density, compact footprint 1 mW PowerBox and 20 feet containerized transformer packages delivering 6.3 MVA, 3.3-34.5 kV, 50/60 Hz.

RELIABLE TEMPORARY POWER SOLUTIONS DELIVERED WHEREVER AND WHENEVER YOU NEED

"Panaromic View of a plant that powered a town"





OIL & GAS

SAFE POWER

We provide full range of generators that meet Zone-2 specification requirements. Safety is absolutely critical, therefore our equipment meet stringent safety standards required by major oil & gas clients.

ON TIME DELIVERY

We deliver what we commit every time. Rapid deployment and timely availability are our hallmark. We understand the financial implications of committed delivery. On time delivery is guaranteed.



INDUSTRY

UNIQUE SOLUTIONS

Our application engineers develop solutions to meet the most critical requirement. We understand your need and develop a bespoke solution taking into account your process demand, ensuring the most economical operation.

EXPERIENCED TEAM

Our Team members have extensive experience in oil and gas installations working under demanding conditions. Our core team collectively have over 200 yrs of experience in the rental industry.

INDUSTRY EXPERTISE AND COMPETENT ENGINEERING TEAM





MINING

RELIABLE POWER

Fleet maintenance is key to ensuring reliable operations and our equipment are designed and maintained to withstand the toughest work conditions. They are tested under extreme weather conditions of high ambient temperature, humidity and dust.

MODULAR PACKAGE

Flexibility is the core of our design strategy, our power plants are modular in design and have the smallest and identical footprint, so power plant capacities are easily increased with minimal impact on the process. Modular package enhances efficient & economical transportation.



UTILITY

UNINTERRUPTED POWER

Our power plants are designed with 55 Deg C rated remote radiators and rugged construction to withstand extreme conditions to ensure uninterrupted Power. Continuous operation is absolutely essential and taken for granted. We make it possible.

PROJECT MANAGEMENT

We provide total turnkey solutions that includes transportation, installation, operation & maintenance. With our in-house capabilities **ENERGIA** possess state of art equipment, trained and experienced team to provide unmatched support for UTILITY paralleled power plant operation.

COMMITTED, BEST IN CLASS EQUIPMENTS AND SERVICES, RELIABLE SERVICE PROVIDER





EVENTS

PERFORMANCE EXTRAORDINAIRE

Our events Power team put on an extraordinary performance from on-time delivery, right equipment selection, Project Management and Safe Operation. Because the show must go on and we understand No Power = No Show.

VISIBLY INVISIBLE

We ensure that we are not seen or heard. Power is available and not the equipment. Our philosophy has been to provide equipment with the most compact footprint and remain Super Silent. With our full-fledged in-house logistical support we can place our equipment in difficult to reach locations and remain invisible.

COMMISSIONING POWER

COST SAVING POWER

Our services provide the bridge between construction power and utility power. Cost overruns due to missed commissioning or handover deadlines is a very common occurrence. We provide the required power for construction progress into commissioning and handover.

FUEL EFFICIENT OPERATION

The equipment we provide is one of the most fuel efficient in the industry. The generators provided by us are fully built by Cummins Power Generation, UK. The cost savings from a fuel efficient operation can pay for the equipment rental cost.

TRUSTWORTHY PARTNER IN CRITICAL APPLICATIONS





CASE STUDIES

ENERGIA Power Plant for Saudi Electricity Company

SITUATION - Saudi electricity company urgently required a temporary power supply to supplement the grid and ease the occurrence of power interruptions in the region that were affecting an estimated 2 million people the power was needed to support local community needs, with specific examples including schools undergoing exams, residential & commercial buildings and local business.

SOLUTION - **ENERGIA** was selected as exclusive supplier for turnkey rental power solution provider. Energia supplied 57 MW of power to support the grid during five months. Plant comprised generator along with step up transformers and associated HV switch gear. The plant operated in parallel with 33 KV grid and all generator sets operated in base load. The generators were fitted with electronic controllers and synchronizing units. Synchronizing was achieved both manually and automatically using PCC3. 3 controllers.

ENERGIA won the tender after a competitive bid, based on their strong reputation and ability to develop a solution based on the complexity of the project. Having successfully set up previous power projects in Saudi Arabia. The customer was confident in **ENERGIA** ability to provide a reliable and constant power supply to a district that would normally experience intermittent power failure during the summer.

ENERGIA Power Plant for Qurayyah IPP (Independent Power Plant)

SITUATION - Qurayyah IPP is the largest IPP in the world - gas and fuel oil fired combined cycle power station. Samsung needed temporary power for the commissioning of Qurayyah IPP Auxiliary System and the GT. The challenge is to supply, install and commissioning of DG power plant within time frame to meet site schedule of GT commissioning.

SOLUTION - With technical details and discussion with Samsung C&T commissioning team, Energia proposed 26 mW 13.8 kV 60 Hz power plant for commissioning activities of QIPP. **ENERGIA** deployed modular 1 mW C1250 D2R PowerBox™ gensets along with modular step-up transformer package both in 20 feet containers, and managed to fit the units in available limited space.

WHY ENERGIA? - Several suppliers offered the temporary power solution but **ENERGIA** was awarded the contract due to superior technical design, compact plant size and meeting tight project deadlines.

- ❖ **TOTAL TURNKEY SOLUTIONS**
- ❖ **OPERATIONAL EXCELLENCE**
- ❖ **CUSTOMER CENTER APPROACH**
- ❖ **MANPOWER AND FINANCIAL STRENGTH**

PRODUCT RANGE

- Cummins Diesel Generator from 50 to 1500 kVA
- Packaged Step-up Transformers up to 7 mVA
- Medium Voltage range from 3.3 kV to 34.5 kV, 50 Hz / 60 Hz
- Bunded Environmental friendly Bulk Fuel Tanks of capacity up to 20,000 imperial gallons
- Distribution Boards, LV & MV Switchgears, LV & MV Power Cables
- Light Towers
- Air Compressor and Welding Machine.

Large Fleet



Enclosed Soundproof Gensets



PowerBox in 20' ISO Container (1 mW)



Bunded Tanks (Cubes)



20' ISO Fuel Storage Container (5000 IG)



Bulk Storage (20000 IG)



Switchgear (LV)



Switchgear (MV)



Transformer (3.3 kV to 34.5 kV)



Tower Lights



Air Compressor



Welding machines



SERVICES

- Multi-Megawatt Power Plants of size up to 100 mW
- Hybrid Power Solutions with diesel and solar
- Turnkey Solutions including application engineering
- Island Mode or Utility Paralleled Operation
- In-house availability of Transport & Cranes
- Fuel Management with in-house fuel tankers
- Sizeable team of experienced, skilled and trained employees

AIR COMPRESSOR

Atlas Copco



A COMPLETE RANGE DESIGNED TO ACHIEVE THE HIGHEST CUSTOMER SATISFACTION

HEAVY DUTY FILTER

A single, high performance two-stage air intake filter with service indicator is standard. It prevents dust and dirt particles from entering the engine and the compressor

CENTRALIZED CONTROLS

All controls are grouped on a single panel, covered by a rigid plastic cover for safety and ease

FOR RENTAL COMPANIES

Designed a small single tool compressor, fitting the needs of the rental industries. They are developed with the rental customer in mind; small, easy to

RATINGS AVAILABLE

- ✘ 175 CFM @7 Bar / 100PSI Air Compressor
- ✘ 938 CFM @12 Bar / 175PSI Air Compressor

- ✘ 354 CFM @10 Bar / 145PSI Air Compressor
- ✘ 774 CFM @10.3 Bar / 150PSI Air Compressor

FEATURES

- ✘ Small dimensions, light weight
- ✘ Low noise output
- ✘ Single side service points
- ✘ centralized fluid drains

- ✘ Single axle mounted
- ✘ Full shift fuel tank
- ✘ Full length service doors
- ✘ Electronic multi-function controller

ADVANTAGES

- ✘ Lowest total cost of ownership
- ✘ Easy to maneuver at worksite
- ✘ Environmentally safe operations
- ✘ Best fuel economy in class
- ✘ Easy to transport
- ✘ Ideal for urban use
- ✘ Comprehensive monitoring

Our constant search for innovation and our commitment to your needs has resulted in a superior product providing the utmost in performance, reliability, economy and versatility.

As sandblasting and drilling have become principal cornerstones of their work, priority was not only given to performance and reliability, but also to improvement of mobility and maneuverability.

Smaller and lighter means the operator can move to the next work point easier and faster, without the need for supplemental moving equipment.

Above all, compressors are built for reliability and easily maintained, providing many years of trouble free performance.

TOWER LIGHT

GENERAC®

Our Tower Lights feature Generac VT-8 8mtr 4x1000W Metal Halide Light Tower which is built and designed for the most extreme environments, from deserts to the frozen Tundra. Our Light Tower offers

- ✓ 359° Mast Rotation
- ✓ 120 V & 240 V convenience auxiliary power provisions
- ✓ Equipped with Lifting Eye and Forklift Pocket
- ✓ 30 ft vertical mast
Individual Floodlight Light On/Off Switch
- ✓ Vertical Masts which enables easy & efficient Mobility



WELDING DIVISION EQUIPMENT



WELDING RENTAL UNITS

Model	Weld Output Range	Weld Output Rated at 104°F (40°C)
Big Blue 500 X CC	55 – 500 A	400 A at 36 V (14.4 kW),* 100% Duty Cycle 450 A at 38 V (17.1 kW),* 60% Duty Cycle 500 A at 30 V (15 kW), 40% Duty Cycle



Processes

- Stick (SMAW) Welding
- TIG (GTAW) Welding
- MIG (GMAW) Welding
- Flux Cored (FCAW) Welding
- Air Carbon Arc (CAC-A) Cutting and Gouging

Description



Miller Big Blue 500X

Diesel engine-driven welders and generators with multi-process welding capabilities and auxiliary power output.



Miller CST 280 Process:

SMAW, GTAW

Portable Inverter type welding machine

CST 280, 208 – 230/ 400 – 460V Dinse	Stick (SMAW) TIG (GTAW)	Three- Phase	280 A at 31.2 V, 35% Duty Cycle
			200 A at 28 V, 100% Duty Cycle



Miller XMT 450 Arc Reach Process:

SMAW, GTAW, FCAW, GMAW, GOUGING Portable inverter type multi process machine with Auto line input option

XMT 450 cc/cv	Three Phase	450 A at 38 VDC, 100% Duty Cycle	10–38V	15–600A	90 VDC
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Gold Star 602 Process:

SMAW, GTAW, FCAW, GMAW, Gouging
Rectifier type Multi process welding unit

Rated Output 450 A at 38 VDC, 60% Duty Cycle	Amperage Range 20 – 590 A
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Available Accessories:



Welding Remote control 50mts



Miller HF-251 High frequency unit for GTAW welding



Miller X-TREME -12VS FCAW/GMAW wire feeder (Lightweight, Voltage - sensing wire feeder)

ENERGIA PICTURE GALLERY





“33MW-33KV PROJECT”



CONTACT US:

ENERGIA MTC L.L.C.

P.O. BOX 30305, JUBAIL 31951, KINGDOM OF SAUDI ARABIA

Telephone +966 13 3635476 / 3635477 Fax number +966 13 3635576

EMAIL: info@energiaksa.com

TOLLFREE 9200-33302

24/7 HELPLINE +966 500929121/501133570

Visit us @ www.energiaksa.com



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