



Big Navajo energy



EPA SI NSPS
compliant for
Prime Power

Magnetronic™ Multi-Fuel Power Generator Systems

Native Touch – Global Reach



Magnetronic™ Multi-Fuel Generator Systems

NATURAL GAS FUEL POWER GENERATORS TAKE ADVANTAGE OF LOW FUEL COSTS

MRC Magnetronic™ systems offered exclusively by BNE take advantage of the latest high efficiency generator technology and the toughest and most durable engine platforms running on renewable fuels like natural gas. In recent trials involving the generation of electrical power for oil field pump applications, the resulting savings was in excess of 50% in some cases.

BNE specializes in the construction and installation of renewable energy generation systems targeted at realizing the maximum cost savings for their clients who have natural gas available in commodity quantities and rates. Systems are designed for prime power installation in several industrial applications:



- **Prime power for construction support**
- **Prime power for residential and commercial needs**
- **Back-up power for residential and commercial needs**
- **Prime power generation to sell onto the grid**
- **Crude oil and water pumping applications**
- **Replacing expensive diesel generators**
- **Remote NG compressor applications**
- **Industrial applications where NG is cost effective and plentiful**

BNE Magnetronic™ systems use advanced TrueSine™ generators from Millennial Research Corporation. These generators are more efficient than standard industrial generators and have modular construction that is robust; allowing them to withstand moisture, direct rain, and caustic environments. In summary, they are safer, more reliable and 100% field repairable. This includes bearings and windings.

Engines with Proven Performance

BNE USES ENGINES THAT ARE ROBUST AND PROVEN IN THE INDUSTRY

Magnetronic™ SUPER DUTY

The SUPER DUTY line offers the durability of Arrow, Cummins, and Waukesha engines designed for NG applications at any altitude.

Magnetronic™ PREMIUM

A premium engine upgrade to Caterpillar is available for most models above 75 KW.

BNE Magnetronic™ Generator Systems

Magnetronic™ SUPER DUTY

- 15 KW w/ Arrow Engine
- 50 KW w/ Waukesha Engine
- 75 KW w/ Arrow Engine
- 100 KW w/ Cummins Engine
- 150 KW w/ Cummins Engine
- 200 KW w/ Waukesha Engine
- 300 KW w/ Waukesha Engine

Premium Engine Upgrade

- 150 KW w/ Caterpillar Engine
- 200 KW w/ Caterpillar Engine
- 300 KW w/ Caterpillar Engine

Unmatched Scalability

- 1MW to 100MW+ configurations that can grow as you do.

SIMPLE & COST EFFICIENT

All systems are simple to deploy and expand according to your need.

EPA CERTIFIABLE

All BNE systems are EPA certifiable to virtually eliminate pollution. We intend to keep our environment clean.

ENGINES WITH PROVEN RECORDS

Arrow Engines, Caterpillar, Waukesha, and Cummins

WARRANTIES & MAINTENANCE

- Extended warranties available
- 24/7 Service

LEASE PROGRAMS

- Standard and full service lease programs available.

TruePower™ Generator Engines



ARROW

Arrow Engines have been producing natural gas engines since 1950. They are the "GO TO" brand for continuous duty engines in the harsh and demanding oil & gas industry. Arrow Engines can be found in virtually any climate worldwide.

WAUKESHA

Waukesha is a durable prime power plant that is undisputed as one of the most robust generator prime movers in the industry.

CUMMINS

Cummins is known for powerful and durable diesel and natural gas engines. Cummins is best known for its prevalence in diverse industrial applications, from mobile to fixed applications.

CATERPILLAR

Caterpillar is a proven performer and is the undisputed most prevalent industrial work-horse in the industry. The premium engines from Caterpillar are considered the 'Cadillac' of heavy industrial engines.



The Magnetronic™ Generator Advantage

Superior Limited Warranty

BNE systems carry a superior factory warranties. One call to BNE and our service technicians help manage all warranty related matters and concerns. Of course you never worry if you get the system on the full service plan.

24/7 Services

The BNE factory trained technicians are available 24/7 to meet out of warranty and emergency needs. Standard maintenance rates for labor, travel and parts will be billed at the time service is provided.

Advanced Maintenance Plan

The BNE advanced maintenance plan includes all labor and parts required to complete all schedule routine maintenance service on BNE generators. This includes the cost of lubricants, plugs, belts, hoses, filters, etc. This plan takes the responsibility of routine maintenance and service and puts it in BNE's service division hands. BNE's service technicians are manufacturer trained and certified. Having BNE handle routine service guarantees that warranty issues will be honored since all the routine maintenance steps are performed on time with certified mechanics and with recommended parts and procedures.

Magnetronic™ Generator Serviceability, Reliability & Safety

BNE systems use the Millennial Generator Systems' Magnetronic™ electric generator. This generator is designed for 100% field serviceability, contains patented sealed coils that increase reliability and safety. Sparks from winding shorts are eliminated since the coils are sealed. The generators is 'spark-less' or has no slip-rings. The bearings are completely field replaceable and designed for greater than 10,000 hours of continuous operation before servicing. You can enjoy rapid return to duty in the remote chance a coil or bearing fails. This is because the bearings can be replaced in the field within 30 minutes. All coil modules can be replaced within 2 hours, and one can be replaced in under 5 minutes.



Engine EPA Compliance & Durability

BNE systems use the best available industrial engines designed for continuous duty. They are engineered and fitted for 100% EPA SI NSPS compliance and equipped for reduced routine maintenance demands. Some systems are directly EPA certified, however all systems are guaranteed to meet EPA SI NSPS compliance standards.

Innovative Configurations for Indian Country

Energy independence is at your fingertips. BNE generator systems are designed to be stand-alone or scaled and clustered into "farms". These farm configurations are scalable based on your residential, retail, and commercial growth. Whether you need 1MW or 150MW, our systems are well adapted for power configurations that provide cold and hot redundancy and increased power delivery. The Magnetronic™ electric generator allows lower cost parallel configurations due to its primary DC output stage. Such configurations can result in nearly 100% uptime and the confidence that your current and future electricity needs are met.



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About Big Navajo Energy

Big Navajo Energy is a company designed from the ground up to deliver the best possible prime power alternative renewable fuel power generation systems.

Our power generation line focused on alternative fuels, like natural gas, is revolutionizing prime power and back-up power generation where alternative fuels can be utilized for economic advantage to our customers.

Together with our corporate partners we have offices in Arizona, Utah, New Mexico, and Oklahoma.

We are dedicated to providing the safest and most reliable power generation systems possible with the best service and on-site support in the industry.



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