Brochure **JMCC WING Farm & Ranch, LLC** **LP and Diesel Generators** **Backup or Primary Power** **Home, Commercial & Industrial** **Company: JMCC WING – Farm & Ranch, LLC** **Wilmington, DE 19808**	 **Email: quotes on all systems** **jmcc@jmccanneyscience.com**	**The following sample prices are for system components. There are other expenses that you will incur. Some may be local to your location (see list below).** **Email: quotes on all systems** **jmcc@jmccanneyscience.com**
Prices may change due to variables	**We sell 4 lines of Generators**	**See definitions end of brochure.**
1.)Method of Shipment	We will ship to the customer location by least expensive method.	
2.)Payment	By 100% WIRE or Electronic Check will start your order – Instructions given when you place your order. Invoice quotes are good for 5 days from the time we issue you an invoice via email	
3.)Delivery Date	14 to 90 working days after payment (estimate) Every system is different so we will detail this when we spec out your system … None of the Generators are "off the shelf" and are made to order – we are not responsible for production or shipping delays beyond our control.	
4.)Remarks	This quotation was quota with freight and tax.- validity time is 5 days from the date you receive invoice. We provide instructions to install. Customer is responsible for installation. No returns or refunds, once you place your order it starts the process that immediately ships and we cannot stop the order. This is true for all equipment in this industry since all equipment is made to order.	
5.) Additional Expenses	Additional expenses include the following items which you will have to source locally. We will provide you with a complete list of specifications that you must follow to install your system and you will need a licensed electrician to make electrical connections. The list of extra items you may have to provide includes paying for shipping, plus possibly some of the following … transportation / local licensed electrician / permits / rental of machines / installation team and related expenses / shipping container rental or purchase (for larger systems) / extra wire & cable & electrical connectors & posts / extra batteries /	
We sell 4 brands of LP and Diesel Generators and spec the systems to work with the JMCC WING Generator line or as stand alone for Backup or Primary Power for On GRID or Off GRID systems. Systems are professionally installed and maintained. see the definitions at the end		

Generac	EMEANS	KLIN Power	Hardy
LP & Diesel **Home Commercial Backup** **Industrial Primary** **PwrCELL backup Li**	**Diesel** **Home Commercial Backup OR Primary** **Industrial backup** **Industrial Primary**	**Diesel** **Home Commercial Backup OR Primary** **Industrial backup** **Industrial Primary**	**Diesel** **Commercial Primary** **Industrial Primary**

Sample Pricing

Any of the Primary Systems can also be used as Backup when a power outage for a long period of time might be expected. Backup Generators are for short term outages; their warranty will be nullified if used for more than their rated operational time – extended warranties and service contracts are available

The following comparisons are for 10 kW systems.
System sizes range from 2 kW to 1 Mega Watt

Generac – Portable (not recommended for backup or primary)
10 kW portable contractor Air Cooled - $2500 + Shipping

Generac - Home & Commercial liquid cooled Backup
10 kW - $4500 + shipping + (estimate) $2000 installation

Generac - Industrial Diesel Primary
10 kW - $11,500 + shipping + installation

EMEANS - Industrial Primary (lower cost option)
10 kW – email for quote

KLIN Power - Industrial Primary (lower cost option)
10 kW – email for quote

Hardy – Industrial Emergency Primary
10 kW - $14,000 + shipping + installation

please understand the following terms:

"Alternative Energy" (sometimes referred to as "Renewable" or "Green Energy") - Energy from a natural source like wind, thermal, hydro and solar that constantly renew from naturally occurring processes. The entire field is filled with misinformation and since traditional 3 blade turbines and solar cannot be operated as a profitable business they rely on huge government subsidies to keep operating. The JMCC WING Generator is a relatively new entry that beats all old technologies in efficiency, cost, environmental benefits, foot print (amount of land used) and cost. It can be combined with LP or Diesel power to assure continual power with the concept that 90% of the energy comes from the wind. They are available for small to very large operations for ON and OFF Grid applications.

"Power" - Units of Energy per unit time usually specified in electrical systems as watts, kilo watts (kW) or Mega Watts (MW). At any given moment this is the production of useful electricity. A WING or LP or Diesel Generator is rated in units of "Name Plate" power which is the maximum level of power production at optimal conditions and full load.

"Energy" - Units of Kilo Watt Hours (kWh) or Mega Watt Hours (MWh) is the amount of energy expended or produced in a system. For example when you get your "energy bill" it is quoted in these units with a per unit charge, which along with other fees makes up your electric bill. Even though a power generator is rated at a certain "Name Plate" power, they will never produce that in real life. What we do at JMCC WING is educate our customers in comparing the real energy production of a system. The JMCC WING systems produce far more energy than 3 blade or solar panel systems of the same Name Plate for many reasons.

"On Grid" - An alternative energy system connected directly to the public utility grid for credits or sale of electricity.

"Off GRID" - An alternative energy system that operates remotely from the public utility grid to provide independent power.

"Backup Power" - Refers to an energy source that turns on (either manually or automatically) when the main grid power goes down. It is expected to operate only a few hours per year and is not meant to provide long term power.

"Home" - Refers to energy devices and power levels typically consumed at the house level. The average US house consumes 1300 watts of power on average, amounting to about 11,388 kWh per year of electrical energy usage. At an average cost of $0.10 (ten cents) per kWh that means the average US household pays $1138.80 for electricity per year.

"Commercial" - For Stores, small factories or commercial facilities using energy for commerce and related activities.

"Industrial" - Large scale electrical users. Also refers to the level of power and reliability of power sources. Industrial power is required to keep operating 24/7/365 as the company cannot function without it so the sources of power must be more resilient and reliable.

"Emergency Power" - Hospitals and other essential services are considered Emergency and must have power at all times. Any replacement power sources must be able to operate without fault.

"Primary Power" - Refers to the power sources that provide Homes, Commercial, Industrial and Emergency facilities with continual power. A home too may require primary power in case of a long unexpected power outage. Primary power systems cost a lot more than Backup or Home or Commercial and their warranties are shorter since they are expected to operate all the time. They typically come with extensive

maintenance packages. The owner also has to plan on larger storage facilities for fuel. That is why we only sell LP and Diesel systems as the fuel safe to store. Each has its advantage. LP can be used for many more uses and is contained in a long term tank. Diesel provides more power and can be managed without a delivery truck in some cases and can be used for diesel vehicles and other applications.

"Air Cooled" vs "Liquid Cooled" – inexpensive generators such as contractor portable generators are air cooled to save on manufacturing costs but are less efficient. They are designed to run full time and have a variety of electrical outputs to help on the construction site and typically come with electric start. They are a cheap alternative but can be used for small systems. Serious generators come with a liquid cooling system with radiator and fan. These are far more efficient and are made for home backup, commercial backup and primary power applications. We do not recommend air cooled systems to operate with the JMCC WING systems which are industrial grade.

Due to false information by people trying to sell "alternative energy" at the home, commercial and industrial levels, the myth has been propagated that providing your home with alternative power is cheap and with a few solar panels you can reduce your electric bill. We dispel those myths with realistic numbers and information.

JMCC WING Systems are the most cost effective solutions when you consider the TRUE COST OF ENERGY.

THERE IS NO SUCH THING AS "ONE SIZE FITS ALL" ... THAT IS WHY WE TALK TO EACH CUSTOMER TO SPEC OUT YOUR SYSTEM THAT FITS YOUR NEEDS

DOWNLOAD AND FILL OUT THE QUESTIONNAIRE FOUND ON THE WEB PAGE TO START THE PROCESS OF DESIGNING YOUR SYSTEM

WE HELP YOU CHOSE THE MOST ECONOMIC SOLUTIONS BUT WILL NOT SELL YOU SOMETHING THAT WILL NOT WORK FOR YOUR APPLICATION. SEE THE TABLE BELOW FOR MORE INFORMATION AND BROCHURES ON JMCC WING PRODUCTS THAT WILL KEEP YOUR LIGHTS ON.