

Global Green Generation

For a Green Future
Through Renewable
Energy.



The goal is to establish a research and development company to produce machines and systems primarily for electrical energy and secondary projects for efficient food production and good, clean water. This is accomplished with low cost, efficient, low maintenance, environmentally friendly wind turbines, mechanical indoor hydroponic farms and vacuum/solar desalinization, all of which compliment each other and function as a total system.



The primary project in this world of Green awareness is alternative renewable energy harvested from the wind. We have designed an inexpensive, highly efficient vertical axis wind turbine. This machine requires little to no maintenance, operates quietly, does not kill birds and can be installed without the use of expensive cranes and elaborate erection procedures.

The product is not turbines but the power produced by the turbines. The company will own all the turbines. The power will be sold in perpetuity. We are able to obtain power in winds over 70 m.p.h. as was proven with our prototype in San Diego county, California.



The two main types of hydroponics are solution culture and medium culture. Solution culture does not use a solid medium for the roots, just the nutrient solution. Our systems are medium culture in a rotational apparatus. The rotation stresses the plants and cause them to absorb nutrients more rapidly producing crops in one fifth of the time of the normal growing method. The medium culture method has a solid medium for the roots and is named for the type of medium, e.g., sand culture, gravel culture, or rockwool culture.

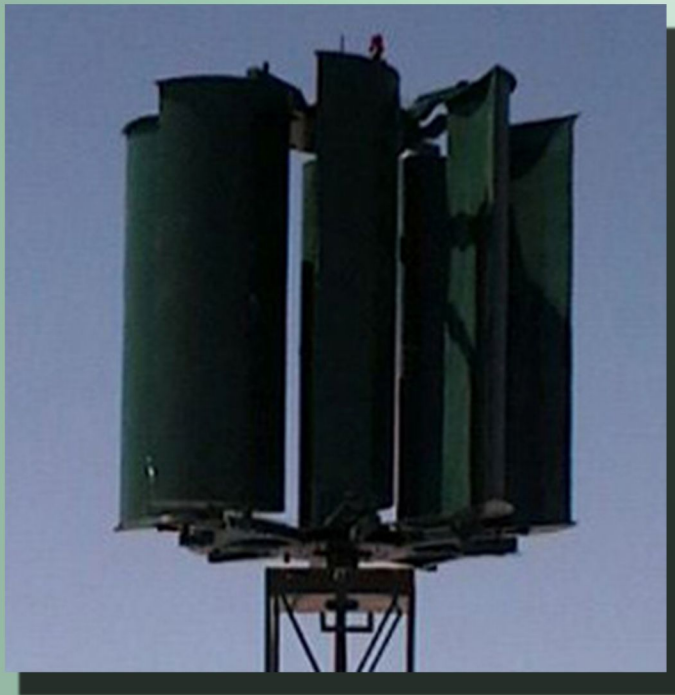




The technology we are developing is quite simple and requires minimal education to train operators and maintenance personnel.

There are small, under 5 Kilowatt, horizontal turbines available. There are also giant horizontal turbines that we are all familiar with. However, there are not a lot of turbines available in the 10 Kilowatt to 100 Kilowatt sizes that would be available for relatively low power in isolated areas. This is a viable market for sales. Our relatively inexpensive wind turbines open up all markets for electrical energy. Existing wind turbines are only marginally profitable.

The mission of G3 is to create a harmony among investors, owners, employees, customers and the earth to produce a team that is devoted to solving environmental problems, food shortages, cleaning polluted water and solve clean water shortages. By producing machines, products and systems to reverse losses caused by these problems, our mission shall be very profitable. We are also constructing a prototype of a hydroponics farm, designed in a modular form, allowing for virtually any magnitude, a few modules or hundreds of modules all operating in the same manner, completely programmable.



There are approximately 316 companies that provide non-nuclear and non-fossil fuel power generation to the general public. Each year, these businesses aggregately provide more than \$18 billion dollars of energy to the open market ! The trend among these alternative energy sources is expected to grow significantly as the need for alternative fuels and power grows. Currently the price of oil and other fossil has risen to the point where many consumers are looking for alternative methods of power. Collectively, the industry employs more than 18,000 people. Aggregate payrolls exceed \$4 billion dollars per year.

The G3 MegaWatt Machine

The one kilowatt and ten kilowatt wind powered generators have been proven to be more powerful than originally estimated.

Based on these machines, a megawatt machine has been designed which will prove to be more powerful than estimated as well. This megawatt machine shall cost considerably less than the horizontal propeller type (HAWT) machines in use.

This image is a rendering of the machine we are going to build. The concept image is composed of photographs of the actual ten kilowatt machine that we have in operation. The wings of the ten kilowatt machine are forty two inches wide by twelve feet long. The overall diameter is eleven feet. A megawatt machine shall have wings twenty feet wide by fifty feet long, double high. The overall diameter is seventy feet.

Many articles have been written condemning vertical axis wind turbines(VAWT). We have designed this machine to eliminate all the negatives stated in those articles. They fail to mention all the negatives for the horizontal wind turbines!



The main features are all possible only with a vertical machine.

The wings are fiberglass with aluminum inner structure attached at both ends. This approach requires less materials resulting in a very light wing as opposed to a cantilever at one end. The upper assembly is erected with simple rigging instead of expensive cranes.

Magnetic levitation thrust bearings replace steel bearings requiring no maintenance.

The electric generator is a slow turning, large diameter alternator at ground level with no gearbox requiring little maintenance.

Since the wings are light, they can be furled quickly in high winds. This reduces the overall diameter from seventy feet to fifty feet creating a round object that can draw power from high winds.

A study by O. Agren and M. Legion of the American Institute of Physics addresses the phenomenon for open Vertical Axis Wind Turbines. Top scientists concur that the various negatives for VAWT's are **false**. These machines are less expensive and much more efficient than has been reported.

In an average wind of twenty miles per hour for ten hours a day, in a good wind zone, the return is \$300,000 per year. We are able to manufacture these machines in production for less than \$250,000. *This is less than a one year payback!*

The appearance of the machine and lack of ecological damage will increase public acceptance over horizontal machines.

A tour and viewing may be conducted by appointment at a sight in the southern California desert.

G3 is seeking investors to support a five year program to develop a one megawatt vertical axis wind turbine based on our proven machines now in operation. This program includes production machines to be located in the ideal wind areas in California, Arizona, Texas, North Dakota, and Buffalo, New York.

This program is the foundation of several other **green** projects.

Our Total Program

Our Vertical Axis Wind Turbine, VAWT, is proven to be superior to a Horizontal Axis Wind Turbine, HAWT.

This development spearheads the overall program since it will be the primary revenue producer. The next step in the turbine part of this program is the design and construction of a megawatt machine, which, as preliminarily designed, is expected to be near two megawatt. The machine depicted in this brochure, will generate revenue and establish exactly what the power production of this machine is and the parameters for larger machines.

To compliment the Turbine project, the next issue of the program is energy storage. Lithium and other chemical batteries are expensive and have a relatively short life.

Thermal energy storage involves molten salts as are used in solar refractory type power facilities. The superheated salt is stored in ponds, piped through heat exchangers to produce steam for turbine generators or piped to heat engines such as the stirling engine.

With favorable topography, high-level water reservoirs store energy in the form of water in lakes or dam reservoirs.

Falling weight is a vertical hydraulic column with a large weight attached to the rod extended up with excess energy and allowed to fall to produce nearly 100% of the energy required to raise it.

All these forms do not wear out and are relatively inexpensive.

We have designed a mechanical hydroponic farm that can produce twenty three acres of growth in less than one half acre. We have built a prototype of this machine.

Solar/vacuum desalinization is not new technology. Powdered milk, fruit juice concentrates and many other products use this method of separating clean water from salt water, polluted water or products such as milk.

A rather ambitious goal that this overall program is attempting to accomplish is energy, food and clean water and we save the world.

Following this program is a project in development to recycle all curbside trash and other waste products such as old tires.

During the past five years we have conducted the research and design development to the point that we are fully prepared to go forward with these projects. ***We know what we are doing!***

We are prepared to meet and discuss all issues.

We have a complete business plan and company structure.

The plan includes a foundation and covenant which governs the financial activities and mission of the company.

By producing machines, products and systems to reverse losses caused by the Energy production is one of the most free markets in the economy. These markets operate on a global scale and , as such, it is difficult to determine the exact competitors the company will face as it progresses through its business operations. Any business that produces electricity is a potential competitor. However, wind energy is becoming an increasingly popular method of producing electricity, and the company`s primary competitive advantage will be its low cost operating infrastructure, its completely renewable input (wind) and the demand among customers for cleaner alternatives to traditional oil, natural gas, coal and nuclear energy power plants.

There is about 150 Gigawatts (150 billion watts) of wind energy in the world today. In ten years there is expected to be 2000 GW. There is room for everybody. We are starting very small as opposed to Siemens and General Electric and as soon as we can make a mark in the industry, we will be hearing from those big guys so our approach is to install turbines where others fear to tread such as the Kingman, Arizona site. The winds there are too severe for the standard horizontal turbine. The area is a trough aligned north and south with winds often up to 60 or 70 M.P.H.. Our turbine is built to deal with those winds and to draw power from them.

The customers we shall seek are not currently a target market for the big guys. There are regulations in place inspired by power company lobbyists to dissuade the little guys but there are Federal mandates that favor us little guys. Just as many independent solar companies such as Solar City are well established as alternative energy suppliers, we will travel that same path to success. In fact an alliance with a solar company may be a viable approach in some areas. They may want the versatility of day time solar and night time wind.

For further information contact:

Jerry Carter@714-540-6787

Ernest Lee@626-290-5963

Also Visit www.globalgreengeneration.com

“Invest in YOUR future!”

