

Solar Electric:

Our team of electrical engineers design PV systems using the latest in top-of-class devices and energy efficient designs. We set ourselves apart from the rest. With team member who possess 29 years of experience in green engineering we can make your project dreams become reality. Installers are NABCEP certified and ready to start your project today!

Geothermal:

We feel that in order to effectively appropriate funds to Solar Electric projects, that one must first consider the electrical loads within the building. Heating and cooling is one of the big expenses making up our electric bill. If there is a method wherein we can greatly reduce consumption without sacrificing any comfort that has a decent ROI, then we should look at it. Geothermal HVAC is that solution. It reduces the amount of energy consumed by air conditioning and heating by 50-90%. The cost to implement this technology per \$ saved is far less than the cost to implement solar electricity per \$ produced.

Our drilling team is fully licensed for drilling and irrigation. The HVAC team members are experienced geothermal installers licensed in both commercial and residential systems. Let us reduce your annual heating and cooling by 50-90%.

Solar Thermal:

Solar hot water systems have become popular with the onset of rebates from utility companies. Greenland and BSI provide only high quality, high efficient systems using evacuated tube solar collectors, closed loop pump circuits filled with corn glycol and foam high efficiency foam insulated tanks. Our engineers have systems that provide 95% of your hot water needs. And while hydronic heating is not as popular in the south, it is still a viable and very efficient method to heat a home or building.

Wind Power:

Bergey is one of the oldest names in residential wind power. They are excellent for remote locations, farms, ranches and estates wishing to become zero energy users. Wind complements solar very well as wind can produce 24 hours a day when the wind is blowing even under clouds, snow and rain. We welcome you to speak to our team of professionals about Bergey Wind Power.

Standby Power Generation:

Standby Generators are a great way to make your home or facility secure. Power outages of any kind can easily be managed with a good generator. About 10 seconds after the power fails, the generator starts and begins to power your home until utility power has been safely restored. Whether for a few minutes or for a few months, you are never without power. Keep your buildings safe with a Standby Generator.

Polyethylene Foam Insulation:

Efficiency ratings of buildings and homes are very important in calculating the required amount of heating and air conditioning. If you can improve the insulation value of the building you can decrease the size of the HVAC system reducing costs. This also means that your energy consumption is a lot lower. 6 inches of foam is equal to 36 inches of fiberglass batting. The

savings on the cost of the HVAC unit pays for the additional cost of the foam insulation and you will save every month on your electric bill from now on. With the coming tiered pricing for electricity and carbon footprint tax, this is the way to go for new buildings.

Did you know you can spray 5 inches of foam on your roof deck and save 30% on your utility bills?

Electric Car Chargers:

Greenland Energy is part of a collaborative effort with BSI, Coulomb and the US Government to build the charging infrastructure for the immanent electric car explosion. The US Government has launched the Transportation Electrification Initiative of 2009 to pour billions of dollars into converting new cars to electric. The DOE is pouring billions into smart grid deployments. By 2020 50% of all new cars in America will be electric and will be a valuable solution to energy storage from wind and solar farms.

With the car owners purchase they will receive a small charging device that plugs into the wall and charges the car in approximately 8 hours depending on how drained the batteries were. Statistics show us that 85% of all electric car owners will want to recharge during the day at the office, during lunch, while shopping, etc. This will require a large infrastructure of charging stations that can charge car batteries in an hour or less. Service stations will need to charge them in 10-15 minutes.

We are affecting these solutions to municipalities, businesses, apartments, retail stores, super markets and all many other applicable places like Starbucks to promote and insure the success of the wave of electric cars beginning October of 2010.

Did you know that owners of the car chargers make approximately \$6,500/yr NET on each 2 hour charger installed? And that is only using it for 4 hours a day. Imagine how many people will be flocking to the car chargers 12 even 16 hours a day for profits far exceeding that. And through the smart grid, they can sell back the unused energy each day at a high rate in peak usage times before plugging in to charge again.