

Upper Cumberland Plateau Refuse Derived Fuel Plant

JustBeGreen Energy, LLC, (JBGE) is offering the counties of the Upper Cumberland Plateau an alternative to their landfills, which in many instances are fast approaching the end of their life expectancies.

Utilizing both an effective Fuel Block Technology, and a Tennessee-based, slow-gasification pyrolysis, waste-to-energy technology, JBGE will be able to provide a “belt & suspenders” solution that will assure that counties will never have a problem with their waste going forward. They plan to build a new RDF (Refuse-Derived Fuel) Plant, located Van Buren County, TN. These 2-technologies will complement each other. The waste first goes through the MRF (material recovery facility) to separate out recyclables, and then through the fuel block technology to reduce moisture and be compacted into a higher caloric-value feedstock, and finally through a slow-gasification technology that produces ultra-low sulfur (ASTM D975) drop-in diesel fuel, and other valuable resources. If either of the technologies was temporarily down for maintenance the other technology would handle incoming waste, and the hydrophobic fuel blocks are in big demand as a pollution-free coal substitute. Both technologies are modular, thus the 500 tons per day of refuse can be increased to over 1,000 tons per day if the RDF Plant is designed appropriately at initial inception.

The manufacturer of this revolutionary fuel producing technology is Proton Power, Inc., located at 487 Sam Rayburn Pkwy, Lenoir City, TN, within an hour's drive from the RDF Campus. Some of the many advantages to Tennessee's Upper Cumberland Plateau will be:

- Over 75 full-time jobs, created at a facility running 3 shifts per day, and operating 24/7/360
- This is a new clean solution to garbage with no winged, or 4-legged vermin, as our found at landfills
- This is not incineration, it is self-contained slow-gasification pyrolysis that is environmentally friendly
- No EPA measurable pollution leaves a smokestack, these gasses are used for manufacturing of diesel fuel
- 500 tons per day of garbage will be converted into ultra-low sulfur diesel meeting ASTM D975 standards
- These local fuel sales will provide significant fuel tax generation to the local counties over the years
- The movement of waste from transfer stations will create new jobs for the waste-hauling industry
- This process will make participating counties compliant with the EPA 80%-recyclable-by-2020 mandate
- Approximately 16,000 tons per year of recyclables will be removed from the waste stream and recycled
- Over 14,000 tons of bio char will be created as a soil amendment for the local agricultural community
- Graphene production will be developed from the bio char, creating a new industry & additional new jobs
- Wood vinegar will be another off-take product, creating additional employment opportunities
- Fuel blocks, with a caloric value over 12,000 Btu/pound, are an environmentally-friendly coal substitute

JustBeGreen Energy is currently in the process of securing multi-year MOUs from the local counties for their MSW feedstock. They have a major wholesale fuel supplier that they are entering into a long-term Off-take Agreement with, and all of the counties of the Upper Cumberland Plateau will benefit from this low-sulfur ASTM D975 diesel fuel and fertilizer availability. The RDF Plant will represent a \$150 million capital markets investment by JBGE, and will create a significant employment opportunity for the region.

JustBeGreen Energy...Green Solutions for Long-Term Problems!

