**Green Energy Park Application Features & Benefits:**

* **Removal of in-perpetuity mixed waste reclamation facility and its related significant truck traffic on local and regional road networks.**
* **3 medium wind turbines** on top of the applicant’s landfill operational within 36 months of approvals
* **3 acre solar panels** on applicant owned I-6 zoned land-operational within 24 months of approvals
* **Recovered methane gas capable of producing 2 million Kilowatt hours of electricity** provided to the county annually for use at local county owned facilities. Estimated cost savings $250,000 annually, until landfill closure, and $100,000+ annually during post-closure. **Total estimated savings: $7 million**.
* **1 million square feet of geothermal capacity** for nearby county-owned facilities such as the planned regional sports complex
* **Avoiding impact of, at least,** **two new waste facilities** (including EnviroSolutions neighboring reclamation facility) that would be needed to replace the construction debris landfill should it close in 2018 (as currently required) and avoiding the related truck traffic to transport the debris from these facilities to long distance debris landfills. This translates into **avoiding approximately 3.6 million tons of greenhouse gases and consumption of over 41,558,000 million gallons of diesel** over the life of the applicant’s proposed project.
* **Provision to the general public of operational, cost, environmental and performance data** of the proposed green energy park features to enable long-term analysis and research of such uses in the region.
* Creating a platform on the landfill to facilitate **a potential 50+ acre green energy park on the landfill** with capacity for 12 wind turbines and 50 acre solar array with current technology.
* **Installation of an “Observation Point” on top of the landfill** during its operational life and during its post-closure period that will allow controlled access to the top of the site, enabling **scenic view** of both the Green Energy Triangle area and the nearby Potomac River, **accommodate lectures** and **provide educational information** on renewable energy and history of Lorton area.
* **Renewable energy education feature** for the general public
* **6090+ trees to be planted** (in lieu of ineffective shrub components) which includes approximately **1800 more trees** than provided for in the current landscape plan.
* **Branding the County nationwide as a renewable energy leader at No Cost to the County**
* **Provide long term disposal and recycling capacity for construction debris**, via the extended fixed closure date, which is vital to the county’s economic vitality, redevelopment and revitalization projects, **avoiding millions of additional cost to the county and Northern Virginia economy**.
* **County shares revenue** from sale of wind/solar generated electricity. Estimated revenue in Phases 1-4 of the project: estimated $2.5 million benefit. This benefit does not include the 50% net profit share in Phase 5 from the full green energy park revenue.)
* **$15 million of income** over life of the landfill operation for local community needs
* **$3.2 million for local park & recreation uses**.