Tire Disposal using Vortex Combustion Technology

Program Outline

We can eliminate the harmful environmental impact, public health concerns, and financial problems that arise from the current methods of disposal of scrap tires. Our revolutionary and pollution-free process will eliminate the need to dump tires in landfills, prevent the devastating problems that arise from uncontrollable tire fires, and produce an alternative form of energy. All of this can be done for a fraction of the typical costs associated with tire disposal and alternative energy production. This program is designed for a company that would have several tire stores in a given region, or an independent company that would establish contracts with smaller chains or independent stores.

Here's how it works:

- Retail tire companies will continue to charge their customers a tire disposal fee for the disposal of each tire. Typical disposal fees are currently $ 3.00 per tire.
- Instead of hiring a third-party company, the retailer can offer its own truck to pick up tires from each of the stores.
- Tires will be delivered to the processing facility, where they will be inserted into a specialized tire shredder that reduces the tires to a 3 to 4 inch chip size. (no need to create a smaller crumb material)
- Shredded material is then introduced into a vortex combustion chamber where it burns while fully in suspension. This patented process will re-introduce the particulate matter back into the vortex until it is fully combusted. (See our ***"Did You Know" Series*: A Guide to Tire Disposal Using Vortex Combustion Technology**)
- This process achieves complete and perfect combustion, meaning that it doesn't produce harmful emissions, fly ash, ash residue, odors, or even smoke. There is no need for exhaust scrubbers.
- Super-heated exhaust temperatures are then used in a boiler to produce steam that is used by a steam turbine to generate electricity. This electricity is then distributed or transmitted and sold to electric utility companies.

Benefits:

- The first and most important benefit is the disposal of these tires, preventing them from being dumped in landfills or becoming part of a tire fire. This process is cost effective and also protects the environment.
- The next benefit comes from the tax credits that are derived from the production of energy, and additional credits that come from the fact that it is a green or renewable energy source.
- The electricity generated will be sold to local or regional power utilities, that will pay market rates per kilowatt hour of energy produced. With the extremely low set up costs, as well as ongoing expenses, this system would offer a return on investment between 18 months and 2 years, depending on the capacity of electricity produced.
- Several states, including Illinois, are currently considering legislation that will define tire burning as a type of renewable energy, which would allow the producer of this electricity to also sell Renewable Energy Certificates to the utilities to satisfy the state requirements under the Renewable Energy Portfolio Standards.
- Less tangible, but equally important is the public relations benefit that would arise from a company initiating this type of green energy program, especially one that would also eliminate the problems that currently exist from tires that are disposed in landfills and along roadsides.

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