



Hancock County Sanitary Landfill – Gas to Energy Project!!

A Green Energy Alternative:

Methane gas occurs naturally in landfills when organic waste decomposes. This gas can be recovered, processed and used as an alternative to natural gas — either by powering industrial applications directly or as a fuel to generate electricity.

Here's what makes methane gas recovered from landfills such a compelling option:

- ✓ It's a renewable source of energy. As long as we have solid waste, we'll have methane. Landfills continue producing the gas for 20-30 years after they're closed.
- ✓ It doesn't deplete our natural resources.
- ✓ It generally costs less to collect and process than natural gas.
- ✓ It's easy on the environment because it burns much cleaner than conventional energy sources like petroleum or coal.
- ✓ Recovering methane for our energy needs prevents it from emitting into the atmosphere and contributing to global warming.



Landfill-derived methane gas is used primarily in two ways:

As a "direct-use" fuel. Methane gas is recovered by wells drilled into a landfill, transported via a network of pipes to an on-site processing facility, then piped to nearby industrial plants. Typically, the gas is used to fuel boilers, burners or other combustion equipment. To generate electricity. Recovered methane gas also can be used to fuel engine-generators that produce electricity on-site at the landfill. This electricity is then sold to a local utility or other electrical consumers.

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When methane gas is used to produce renewable energy, everyone wins.

Here's what's in it for you:

Landfill owners: Existing or pending legislation requires you to deal with methane gas in some way to minimize its negative impact on the environment. Instead of just burning it off, why not recover, refine and sell it, thereby turning a liability into a source of revenue?

Private industry or municipalities: Is a landfill located nearby? If so, you may be able to contract with the producer to provide methane gas directly to your facility. This will ensure a reliable, economical energy source that's dedicated to your needs. Alternatively, you may be able to purchase renewable electricity that's generated at the landfill. Either way, you'll build goodwill among area residents who appreciate your commitment to pursuing energy practices that improve air quality.

Utilities: Are you interested in supplementing your electrical power capacity or adding "green power" to your portfolio? Landfill-derived methane gas can be used to generate green/renewable electricity for distribution to your customers who demand a cleaner alternative.

