FLINTROCK FARMS GENERATES HEAT & CONCENTRATED NUTRIENTS FROM FARM WASTES

"The fully automated Ecoremedy® system is easy to start-up and runs continually with little oversight. Anyone with a mechanical background can operate the system with confidence and ease."

– Justin Morey, Farm Manager, Flintrock Farms

CHALLENGES

In 2013, Flintrock Farms (central Pennsylvania) sought ways to better manage waste from 600,000 chickens per year and reduce energy costs.

OUR SOLUTION

An Ecoremedy® system that converts the potential energy in animal wastes to hot thermal fluid (200 F) for heating over 100,000 square feet of chicken houses with less than 2 F temperature variance inside the houses.

SUMMARY

Ecoremedy®'s first commercial poultry project successfully generates renewable energy, improves soil fertility, and addresses pressing environmental problems in the Chesapeake Bay watershed. It is the first commercial manure-only gasification project in Pennsylvania to operate as intended since commissioning.

The manure is converted to a dry, odorless fertilizer that is pathogen-free, more bioavailable to crops than manure, and will not leach into the local waterways thereby avoiding nutrient runoff. It is easy to haul, store, and spread.

ECOREMEDY® IMPACT

This Ecoremedy project has the annual capacity to convert 1,585 wet tons of poultry litter to:

- 1.8 Million Btus per hour of renewable thermal energy, replacing 154,000 gallons of propane
- 240 tons of concentrated, all-natural fertilizer, avoiding:
    - 56 tons of nitrogen runoff
    - 60 tons of phosphorous runoff