

# BioEnergy Planet Inc.

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**Company Overview:** BioEnergy Planet Inc., provides poultry farmers a simple onsite **service** to convert poultry waste to renewable energy (oil and gas) and slow release organic fertilizer.

**Technology:** A prototype is currently operating at a poultry farm – see photo. The company is commercializing a patent pending, pollution free, fast process technology. The technology is based on a proven process of fast pyrolysis that allows continuous processing of poultry litter at 400-450°C without oxygen.



**Opportunity:** NSDA 2007 report states: “Poultry waste disposal remains a major issue confronting the industry”. Over 300 million tons of poultry waste is produced in the US alone. Continuous use of poultry litter as fertilizer, how it has been commonly used, creates a serious environmental problem of water contamination. Most states have regulations monitoring the disposal of poultry litter to prevent such pollution. If all of this litter is processed using our technology there is a potential to replace over 5% of the annual US oil supply.

**Business Model:** BioEnergy operates transportable waste processing units on a farm. The company pays for litter and provides the farmer with biogas to be used for heating chicken houses. The product outputs (biooil and biochar) are aggregated at a local cluster and sold to distributors.

**Value proposition:** To farmers: convert problematic waste into energy; reduce costs. To poultry integrators (e.g. Tyson): strengthen farmers’ independence and margins; reduce energy costs. To states: eliminate water pollution problem and develop local supply of energy and organic fertilizer to improve poor soil composition.

**Products:** BioEnergy Planet sells two products: biooil and biochar. Biooil is sold as a replacement for heating oil and biochar as slow release organic fertilizer.

**Competition:** Centralized poultry litter processing operations utilizing combustion like Fibrowatt, LLC. and existing current disposal methods: use litter as fertilizer; use it as animal feed and composting.

**Founders and Team:** Luda Kopeikina, co-founder and CEO, is a former vice-president of General Electric, a former CEO of a public technology company and a successful serial entrepreneur. She is an MIT Sloan Fellow. Dr. Foster Agblevor, co-founder and CTO, is an Associate Professor at Virginia Tech. Dr. Agblevor is a recognized international expert in thermochemical biomass conversion. He has six patents and applications. The company has also attracted a team of executives for other senior positions.

**Economics:** One operator can profitably process six to fifteen tons of litter per day. We estimate that the company will be at a breakeven point after the first cluster is put in operation. At 2% market penetration (of the overall volume of poultry litter produced in the US), the company will be at profitable \$400M revenue in 5 years.

For additional information contact: Luda Kopeikina at [luda@BioEnergyPlanet.com](mailto:luda@BioEnergyPlanet.com) or 617-510-4670 cell