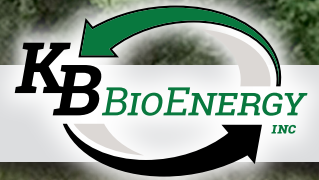


- *Sustaining the 21st century needs of cities, citizens, and the environment*
- *Supporting cleaner water supplies and energy technologies*
- *Transforming Biosolids into a low-cost, renewable energy*



Support. Transform. Sustain.

Our Goal at KB BioEnergy

KB BioEnergy, Inc. is dedicated to promoting new, environmentally responsible processes resulting in renewable energy produced from organic waste.

Our anaerobic digestion system (ADS) is a public-private partnership with the City of Akron, focused on developing a clean energy economy.

Anaerobic digestion is the breakdown of organic material which produces biogas, a low-cost fuel that can be used as an alternative to natural gas for generating electricity or heat.

Our facility uses only 10% of the energy generated from the biogas. The other 90% is used to power public service buildings for the City of Akron.

Everyone benefits from this valuable service. Cities are rewarded with a cleaner water supply, less greenhouse gas emissions, lower landfill deposits, and reduced fossil fuel consumption. All resulting in happier, healthier citizens.

“Anaerobic digestion, appropriate for 30 percent of Ohio’s biomass, conservatively would generate 27.6 billion kWh, meeting the needs of 2,758,000 homes.”

*– The State of Ohio,
Office of the Governor*



Our current facility can bring in 15,000 dry tons of biowaste annually. With this, we can generate 10,000 MWh of electricity—enough to power 1,400 homes for an entire year!



Wastewater from the city is collected by water treatment facilities to extract the biosolids



Water is treated and biosolids are used in waste-to-energy ADS technology



ADS technology extracts usable energy from biosolids. Unused mass becomes “pellets” great for enriching soil



Biogas energy transforms into a reliable, renewable, energy source powering city buildings

The City of Akron and KB BioEnergy have had a public-private partnership since 1989 to manage the waste solids through the City's Composting Facility. In 2007, the City contracted with KB BioEnergy to construct and manage an ADS (Phase I) that would process one-third of the solids generated by the City of Akron while producing renewable energy. The success of this initial project has resulted in a renewed contract between the City of Akron and KB BioEnergy to construct a plant (Phase II) three times the size of the original ADS to accommodate 100% of the City's waste stream.

Everybody Benefits

A Source of Renewable Energy

Decomposition is a principle in nature. ADS technology lets us convert this process into usable energy. We are part of our own energy creation!

Nothing Wasted in Wastewater

Through anaerobic digestion, 50% of the biosolids are transformed into biogas and used to generate electricity or heat. The other 50% goes through a "dryer" and become "pellets" – a mostly dry substance with the ability to be used in soil and harmlessly put back into the environment.

Reduced Emissions

ADS technology reduces our oil and natural gas consumption, as well as reducing landfill deposits. Less transportation is then required for these services, further reducing greenhouse gas emissions.

Cost-Saving

Our partnership creates self-sustaining power that relies less on outside energy sources, saving the city money and becoming more energy independent.

A Cleaner Environment

With less energy consumption from fossil fuels, emissions are reduced. Using renewable bioenergy cuts down on landfills. The quality of our air, water, and environment improves. A healthier environment means healthier, happier citizens.

An Efficient, Self-Sustained, Growing City

With costs due to energy down and citizens healthier with cleaner air and water, a more productive society invests better in their city, with outside businesses and people seeing how they can be a part of it.

Interesting Facts

KB BioEnergy, Inc. uses Schmack Biogas AG technology. While traditional technologies can process 3-5% solids, we are able to process 6 times that solid content (30%)!

Renewable energy like solar and wind require favorable weather conditions to function. Biomass energy is consistently available 24 hours a day, 7 days a week, 52 weeks a year!

We are experts in renewable energy. We not only provide our services to build waste-to-energy facilities, we also employ our experts to operate and maintain them!



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2677 Riverview Road • Akron, OH 44313
(330) 864 - 2621 • www.kbbioenergy.com