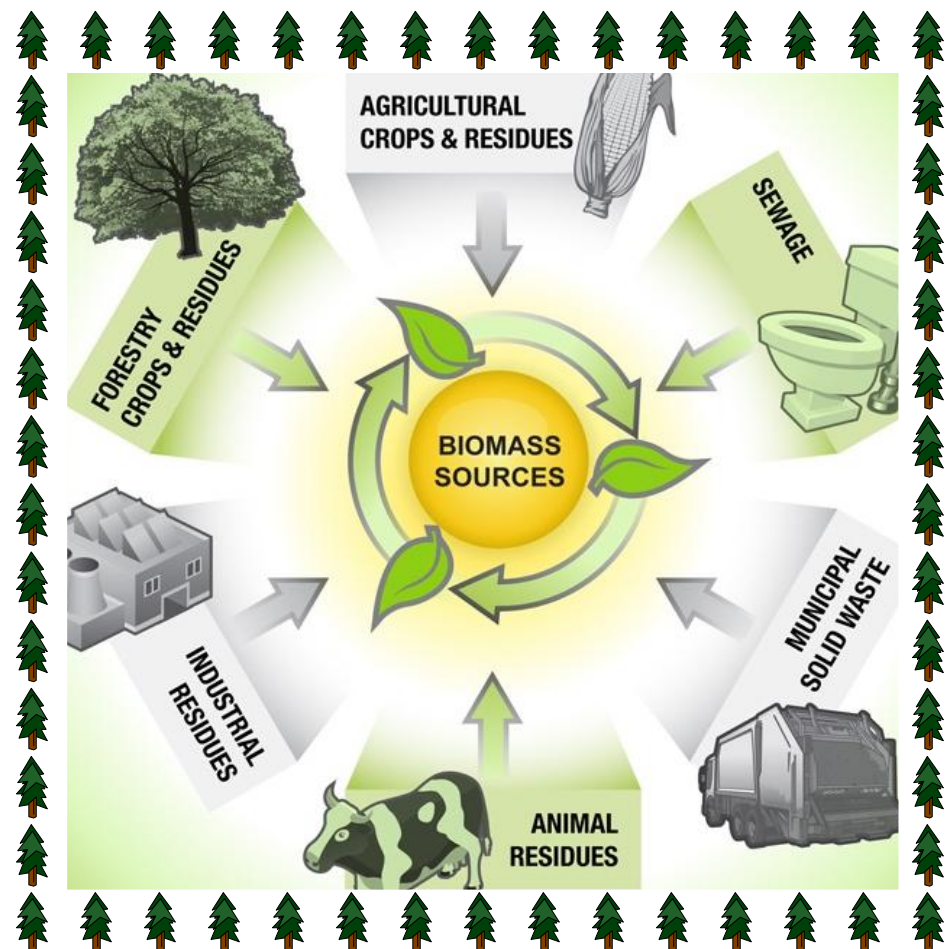


## Gasification Energy



## SolEco and Ag Bio Power The Next Generation of Gasification Technology

# What is Gasification

- Gasification is a process sometimes referred to as partial or semi-combustion
- Gasification is a method that extracts energy from many different organic or biomass materials
- A device used to accomplish this is called a GASIFIER
- Gasification is not combustion; it has the potential to extract more energy than direct combustion, much like a car that gets 30 miles per gallon compared to a car that gets 20 miles per gallon
- The energy produced from gasification of biomass is considered renewable energy and is carbon neutral



## Brief History of Gasification

- 1850 – 1940: Gasification was developed and used to produce “town gas” for light and heat
- 1940 – 1975: Engineers used gasification to produce synthetic fuels during World War II. During that time there were over 9,000,000 vehicles running on gasification.
- 1975 – 1990: Gasification continued to evolve after the Arab Oil Embargo of 1973
- 1990 – 2000: Government agencies in the United States and Europe provided financial support to further demonstrate the feasibility of the gasification process.
- 2000 – Today: SolEco and Ag Bio Power bring you the next generation of gasification, providing value-added energy from agricultural renewables and industrial waste!



# How Ag Bio Power Saves you GREEN....

If you have on-site need for heat or energy (process heat, boilers, drying, etc.) Ag Bio Power can help you save on energy costs. Waste items such as rubber, plastics, oil filters and paint filters can safely be gasified using our patented process. Materials that previously would need to be sent to landfill can now be converted into energy, drastically reducing your energy expenses. Ag Bio Power takes your trash and gasifies it with bio-mass. Corn is an excellent biomass, though wood pellets, wood chips, and paper products can also be used as fuel. Bio-mass is readily available, often at no cost to you.



- Ag-Bio Power will take your trash and gasify it with biomass
- Biomass is readily available at little or no cost to you
- Through the Ag-Bio Power patented process, emissions from the overall system are well within EPA standards
- Modular design allows flexible applications from 200,000 btu output to over 10,000,000 btu output
- For some of these reasons and others, the University of Iowa is presently installing an Ag-Bio Power unit at the Oakdale Campus in Iowa City, Iowa



# How Does This Affect Your Bottom Line?

*"We selected the Ag Bio-Power down-draft gasifier because it safely breaks down the toxic organic chemicals that might be present in the fuel due to it's patented design. This allows us to use a much wider range of biomass fuels. It is also the only system we found that is expressly designed to use treated seed corn, which is both widely available and inexpensive per BTU generated."*

Professor Albert Ratner, The University of Iowa

- Typically, your payback with Ag-Bio Power gasification is from 12-48 months
- In the USA, Federal investment tax credit up to 30 percent of your capital outlay is available; production tax credits can provide as much as \$8,000 per year for operating a single gasifier
- We can offer a lease program or financing which means during your payback period you may not have any out of pocket expense

**After that all the cash saved is put directly into your pocket!**



## Benefits of Ag Bio Power

- Reduces existing energy costs by substituting low or no-cost fuels for natural gas or propane
- Converts dirty fuels such as plastic and rubber waste into clean energy while reducing landfill costs
- Expandable and scalable to produce heat and power for small or large scale operations, manufacturing and more
- "Green Fuel" renewables may qualify for money-saving tax credits
- Reliable, inexpensive and cost-effective technology
- Reduces waste accumulation and long-term damage to the environment
- Advances growing trend toward utilizing renewable sources of energy and becoming less dependent on foreign fuel sources
- Saves you and your company money!



# Finally, Who Would You Rather Pay?



OIL COMPANIES



WASTE  
REMOVAL



LANDFILL

OR YOU



## Gasification Energy

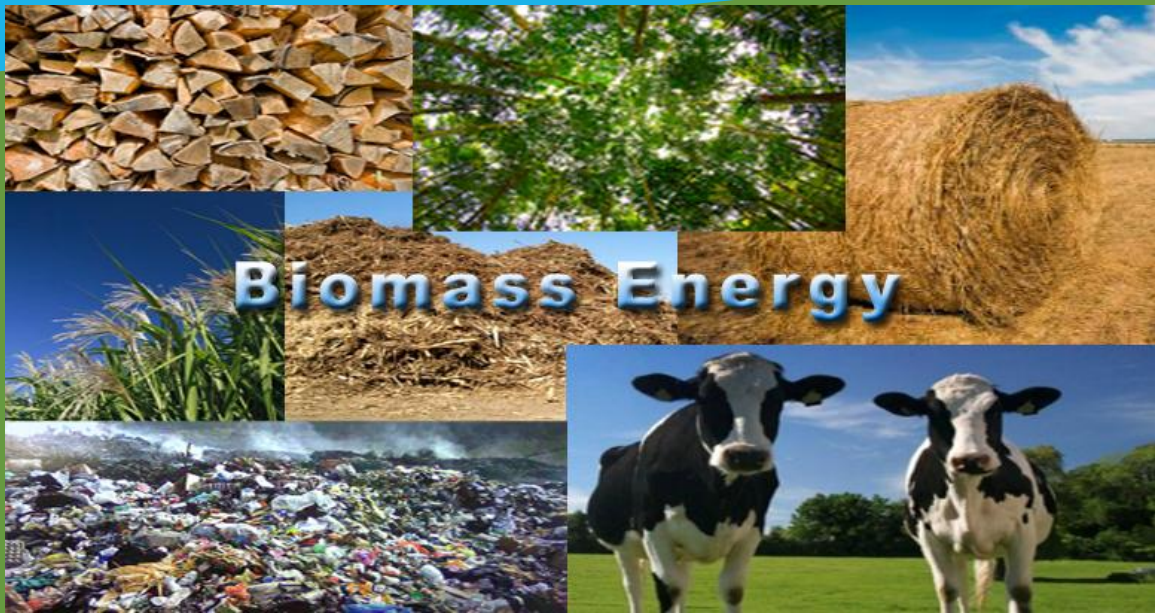


## Eco-Friendly Branding

*"Increasing numbers of people are deciding whether or not they use a company based on how eco-friendly they are. This means that it is becoming more and more important that businesses make being green a part of their brand."*

**Gasification turns waste into fuel.  
Stop burning money and start  
burning biomass!**





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**Clean Water Gives Life**