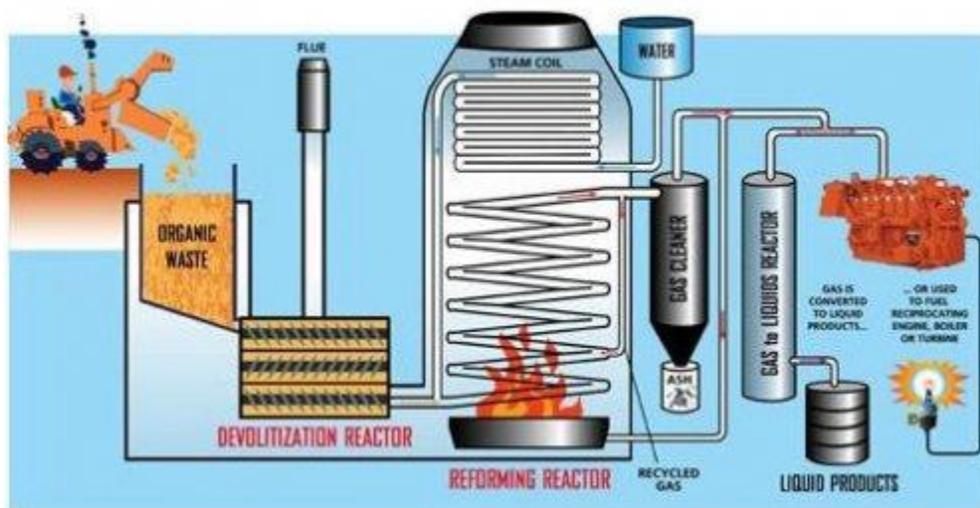




Turning biomass into energy

ECO2 International's Kiri Biomass is used to create energy through a process called gasification. Gasification is the breaking down of carbon-based materials by applying extreme temperatures in an oxygen-starved environment to create a high-energy gas. The high temperatures and limited oxygen radically reduce harmful emissions compared to either incineration or landfills. *It works much like covering a candle with a jar, without oxygen the material can't burn.*

Gasification has been used as a more efficient and cleaner method than traditional "burn" or combustion processes to generate energy for over a century.



The primary output from gasification is a clean synthetic gas called "syngas," similar to natural gas or propane. Syngas has many commercial uses including electricity generation, biofuels production, and powering hydrogen fuel cells.

In addition, gasification has other advantages over burning:

- Greater reduction of waste volume: 90-95% reduction vs 60-70% reduction
- Higher energy efficiency
- More effectively detoxifies hazardous materials
- A sustainability process ensures that the absolute minimal amounts of emissions are created from the entire gasification process.

The current commercial per ton price of wood pellets in northern Europe is \$295.00 as of 6-1-2010. Price trends are rising. Using wood pellets to make electricity is among the lowest costs of all energy production, just above coal.