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There are four types of conversion technologies currently available that may result in specific energy and potential renewable products:

Thermal conversion is the use of heat, with or without the presence of oxygen, to convert biomass into other forms of energy and products. These include direct combustion, pyrolysis, and torrefaction.

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This is the burning of biomass in the presence of oxygen. It is a proven technology widely used to convert biomass energy into heat and/or electricity with the help of a steam cycle (stoves, boilers and power plants). These processes are applied from a very small scale, for domestic heating, up to a scale in higher ranges to produce electricity.

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the road to commercialization examines the background to biomass production, biomass types, properties and characterization, and energy conversion technologies with emphasis on the production of a gaseous fuel to supplement the gas derived from the landfilling of organic wastes (landfill gas) and used in gas engines to produce electricity.

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Conversion of biomass to energy is undertaken using three main process technologies: bio-chemical, thermo-chemical, and physio-chemical. Bio-chemical conversion encompasses two main process options: anaerobic digestion (AD) (production of biogas, a mixture of mainly methane and carbon dioxide) and fermentation (production of ethanol) [3].

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The Bioenergy Technologies Office's (BETO's) Conversion Research and Development Program supports early-stage applied research in technologies for converting biomass feedstocks into finished liquid transportation fuels—such as renewable gasoline, diesel, and jet fuel—co-products or chemical intermediates, and biopower.

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