



Biomass Energy

Biomass energy is one of the oldest energy that had been used by the human and one of the renewable energy. Biomass refer to plants and organic materials that come from agriculture, forestry, urban area, rural area and so on especially through photosynthesis process. Biomass can be any of wastes that have potential to provide energy.

There are many process can be used to convert waste into energy such as:-

- Thermo-chemical (Combustion and Gasification) process.
- Biochemical (via Anaerobic Digestion and Fermentation) process.
- Physicochemical (Mechanical and Chemical Extractions) process.

Regarding the processes above, we are more focus on:-

- Combustion Process
- Gasification Process
- Pyrolyzation Process
- Torrefaction Process
- Plasma Process