

Biomass Integrated Gasification Combined Cycle (BIGCC): Cost Efficient & Cleaner Power Plant

Sources:

- Wood (chips, pellets,)
- Sugar cane bagasse
- Agricultural stalks
- Domestic refuse
- Coconuts
- Rice husk
- Etc.

Advantages:

- Zero net contribution to CO₂ cycle
- Abundant and cost efficient source
- Renewable fuel source
- Indigenous

Objectives:

- Create a more efficient power plant
- 1st & 2nd Law of Thermodynamics analysis
- Making BIGCC a more feasible & reliable as an alternative power plant

Gasification:

- Higher energy content
- Producer gases H₂ & CO
- Partial combustion (20% energy supports gasification)

