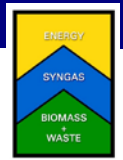


REFERENCE PROJECT - 1123



ENTECH – WtGAS RENEWABLE ENERGY SYSTEM

- PROJECT NO.: 1123
- THERMAL CAPACITY: 5.8 MWt
- APPLICATION: Waste Derived Fuel (WDF)
- WDF TYPE: Byproduct of Food Processing (@ 5-10 MJ/kg)
- ENV. STD.: Compliance to Singapore D.O.E.
- CUSTOMER: Singapore Food Industries
- DATE INSTALLED: 1998
- LOCATION: Singapore



↑ Auto-residue collection (direct into waste skip). Sealed process.



↑ Energy Utilization Heat Exchanger – steam boiler



←
Air
Quality
Control
System



PROJECT DETAILS: Cognizant of implications related to disease control; primary producers, abattoirs and meat and bone meal producers are faced with limited options for ecologically and environmentally safe food byproduct-biomass disposal. Some foods including meat and bone meal in particular, are excellent renewable energy or fuel sources.

The ENTECH – WtGas Renewable Energy System gasifies food byproduct-biomass. The syngas produced is oxidized in the Syngas burner and fired into a fire-tube type steam generator. Steam is used for process needs, or cogeneration can be adopted for electricity generation. Though food byproduct-biomass conversion into energy is economically attractive, the major benefits are ecological and environmental protection. Destruction of this type of biomass ensures the “contamination chain” of serious infectious diseases such as BSE or “Mad Cows Disease” (which has now evolved into a human variant) is broken.

In fact, ENTECH WtGas Renewable Energy System’s simultaneously addresses four key environmental problems with positive results, namely:

- Fossil fuel consumption.
- Biomass or waste disposal.
- Atmospheric emissions.
- Disease control.

