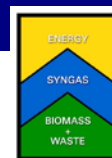


REFERENCE PROJECT - 1142



ENTECH – WtGAS RENEWABLE ENERGY SYSTEM

PROJECT: 1142
THERMAL CAPACITY: 4.5 MWt
APPLICATION: Waste Derived Fuel (WDF)
WDF TYPE: Byproduct of Pharmaceutical Mfg.
(@ 10-40 MJ/kg)
ENV. STD.: Compliance to US-EPA
CUSTOMER: Scinopharm Corporation
DATE INSTALLED: 2002
LOCATION: Taiwan

PROJECT DETAILS: In the application above, ENTECH's unique "Liquifire"™ liquid injection system is adopted to inject and atomize liquids into the Pyrolytic Gasification Chamber. Gasification occurs and syngas having similar properties to methane gas is produced. The syngas is fired in the downstream Syn-Gas Burner (large high efficiency and low NOx gas burner) and fired into a fire-tube type steam generator. Steam is used for process needs, or cogeneration can be adopted for electricity generation.

Complete environmental impact assessment reveals:

- The customer's fossil fuel consumption for plant energy needs is negated (or reduced).
- Reduced emission of HAP's (hazardous air pollutants) from WDF gasification as compared to combustion of most fossil fuels.
- Greenhouse gas production from waste decomposing at landfill is negated.
- Landfill leachate is negated.

As well as the significant environmental benefits, the ENTECH WtGas Renewable Energy System provides for relatively short-term return on investment; by alleviating or reducing purchases of fossil fuel.

