

	Plasma	MG Incineration	RST
Type MSW	All except Nuclear Waste	All except Medical and Nuclear Waste	All-High calorific value best for Syngas production
MSW Size	Shredded	No Restrictions	No restriction—As long as fits in Gasifier
Process Type	Gasification	MG Incineration—Burn & Bury	Low Heat Gasification
Added Fuel	Electric, Coke, Limestone, RDF	Coal or other fuels	None
Syngas	Carbon Monoxide, Hydrogen	N/A	Nitrogen, Carbon monoxide, Carbon Dioxide, Hydrogen, Methane
Emissions Control	No Data—Unproven to meet EPA Standards	Getting better but many Emissions problems	CEMS >3.2ng/dscm EPA certified
Byproducts	Syngas for Electric prod—Bio Fuels Steam—Hot Water, Commercial & Residential use Slag—Rock wool, Concrete blocks, bricks, tile, gravel, paper	Syngas—High grade fuels, chemicals	Frit/Fly Ash—Asphalt Silicon Dust—Concrete Ferrous & Non-Ferrous Metals—Recyclable
Hazardous Off Products	2% Ash to Landfill-Slag no evidence to pass TCLP testing	2% Bottom Ash—2% Fly Ash to Landfill—Reports show higher ash content to Landfill	None—100% Recyclables
O&M	\$8+M py—300 tpd	\$200,000 pd	\$2.5M USD/yr
Tonnage	300tpd		200-500tpd
Electricity Output	Industry Standard $\geq$ 500kwh/ton to 1000kwh/t--Unproven	Industry Standard $\geq$ 500kwh/ton	776kwh/t MSW per >25% moisture
Footprint	No Data	10 Acres per 500tpd w/o Coal Storage (35 Acres w/coal storage)	3-5 Acres
Cost	\$200+M	200tpa=\$150M USD	\$72M-500tpd
early Profit	No	No	Yes