

Residual Waste Processing Technology Comparison Worksheet

Residual Waste Processing Technology	Data Source & Type (e.g., actual operating data vs. vendor estimates)	Level of Confidence in Data	Feedstock		Energy		Environmental							Air Emissions	
			Description (source, preprocessing)	Energy content	Maximum energy recovery		Air Emissions Factors per ton (relative to mass burn MWC)							Emissions from auxiliary fuel	% Diversion from Land Fills
				MMBtu/ton	net MWh/ton	net MMBtu/ton	CO <sub>2</sub> (equivalent)	Mercury	Acid gas (SO <sub>2</sub> , HCl, HF, etc)	NO <sub>x</sub>	Particulates (PM 2.5 or PM 10?)	VOCs	Dioxin and furans		
Municipal Waste Combustion (mass burn)															
Municipal Waste Combustion (refuse-derived fuel)															
Landfill (with energy recovery)															
Landfill (without energy recovery)															
Anaerobic Digestion															
Gasification															
Pyrolysis															
Plasma Gasification Process (PGP)															
Catalytic Depolymerization															
Paper fuel cubes															
Insert additional technology rows as needed (e.g., different types of gasification)															

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Residual Waste Processing Technology	Environmental		Water Resources		Environmental		Economics				Is the technology proven or demonstrated stability – at what scale and scalability of scale
	Residual Solids		Water Resources		Other		Economics				
	Residual for disposal (Description & amount)	Marketable products (Description & amount)	Water Use (gallons)	Wastewater generated/discharged (Gallons)	Intangible Externalities (e.g. odor)	Nutrients Recover/Reuse	Operation Costs Per Ton	Cap Costs (Per ton or facility total)	Revenues (\$\$)	Connection with the Green Community Act, RPS, AEPS RECs	
Municipal Waste Combustion (mass burn)											
Municipal Waste Combustion (refuse-derived fuel)											
Landfill (with energy recovery)											
Landfill (without energy recovery)											
Anaerobic Digestion											
Gasification											
Pyrolysis											
Plasma Gasification Process (PGP)											
Catalytic Depolymerization											
Paper fuel cubes											
Insert additional technology rows as needed (e.g., different types of gasification)											

Ability		Compatibility with Recycling Programs			
Residual Waste Processing Technology	The potential amount of waste that can be handled over ten years	Amount and type of front-end separation and processing for additional recycling		Comments	
Municipal Waste Combustion (mass burn)					
Municipal Waste Combustion (refuse-derived fuel)					
Landfill (with energy recovery)					
Landfill (without energy recovery)					
Anaerobic Digestion					
Gasification					
Pyrolysis					
Plasma Gasification Process (PGP)					
Catalytic Depolymerization					
Paper fuel cubes					
Insert additional technology rows as needed (e.g., different types of gasification)					