

MAKING A
GREAT
PLACE



Long-term management of garbage

Making the most of what we don't want



June 16, 2016 Subcommittee to SWAAC







Request for Expression of Interest (RFEOI)

Respondents	Type(s) of technologies proposed				
	AMR	WTE	Gasify	AD	RDF
1	AMR	WTE	Gasify	AD	RDF
2	AMR	WTE		AD	
3	AMR	WTE		AD	
4		WTE			
5	AMR			AD	RDF
6	AMR			AD	RDF
7	AMR			AD	RDF
8	AMR		Gasify	AD	RDF
9	AMR				RDF
10	AMR		Gasify	AD	
11	AMR		Gasify		
12	AMR			AD	RDF
13	AMR			AD	
14	AMR				RDF
15 *					
16	AMR		Gasify	AD	
17				AD	
18				AD	
19				AD	

AMR is Advanced Material Recovery; **WTE** is Waste to Energy; **Gasify** is Gasification **AD** is Anaerobic Digestion; **RDF** is Refuse Derived Fuel

* Non-responsive.

Gasification



Gasification



Refuse-derived Fuels



Refuse-derived fuels



Dry Anaerobic Digestion



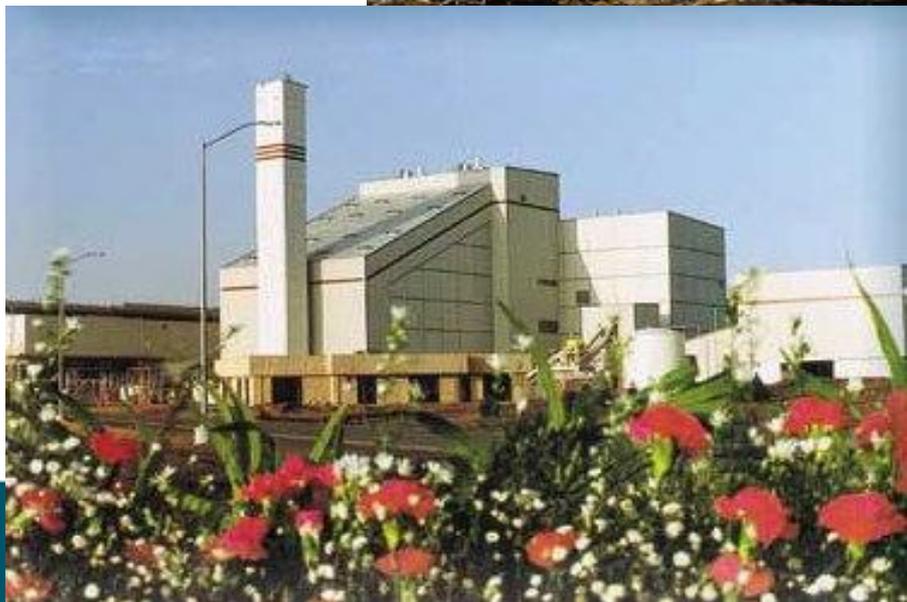
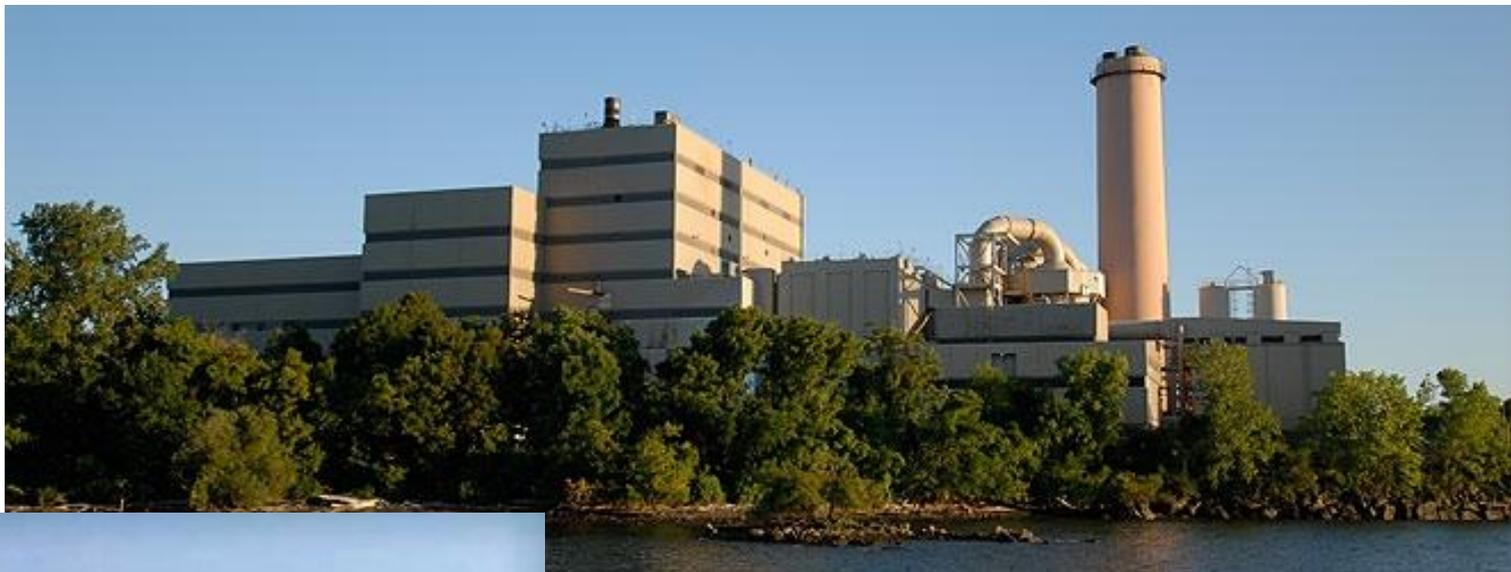
Dry anaerobic digestion



Waste to Energy



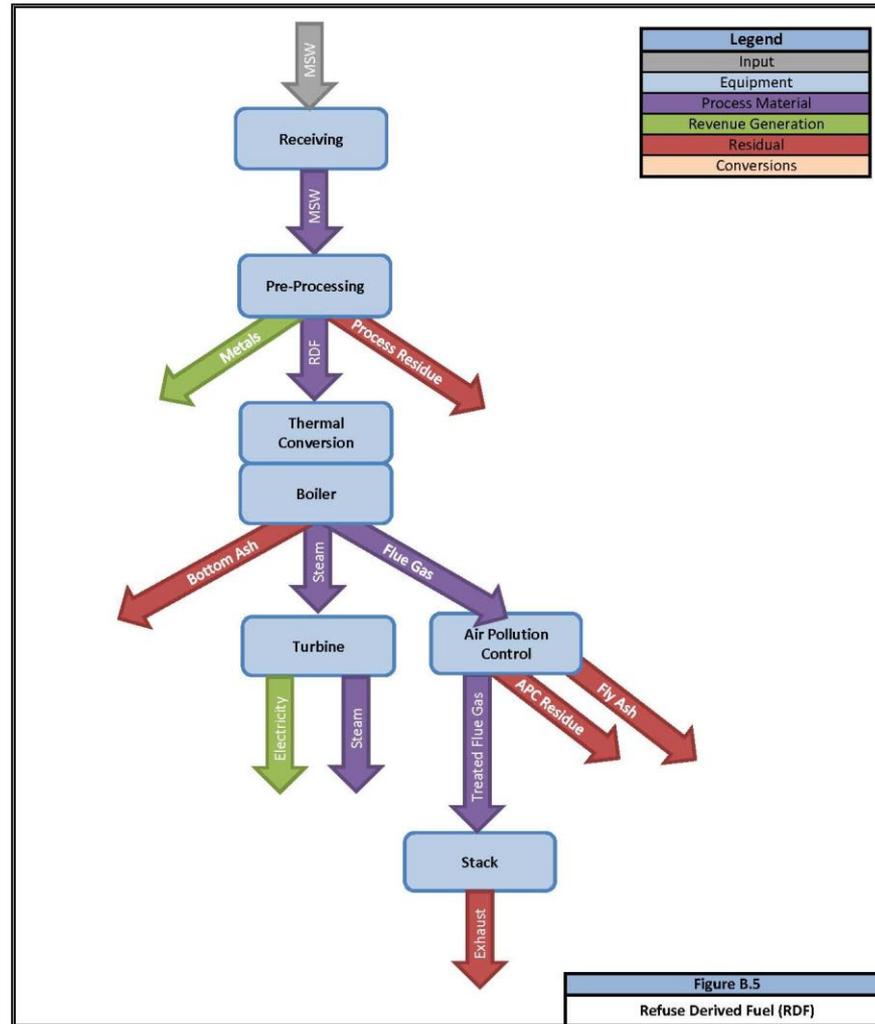
Waste to energy



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Figure B.5: Refuse Derived Fuel (RDF) Combustion



Description:

This technology prepares MSW by shredding, screening, and removing non-combustible materials prior to additional processing. The goal of this technology is to derive a better, more homogenous, Refuse Derived Fuel (or RDF) that can be used in a more conventional solid-fuel boiler as compared to a mass-burn combustion waterwall boiler. The remaining MSW that is not converted to RDF is composed of either recovered ferrous metals which can be sold to market, or process residue that must be disposed of in a landfill. In most cases, the fuel is used at the same facility where it is processed, although this does not have to be the case. The RDF is blown or fed into a boiler for semi-suspension firing. Combustion is completed on a traveling grate. Thermal recovery occurs in an integral boiler. The APC equipment arrangement for an RDF facility would be similar to that of a mass-burn combustion system.

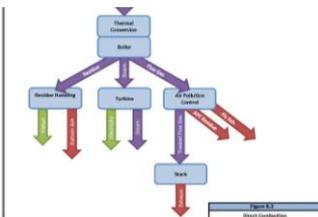
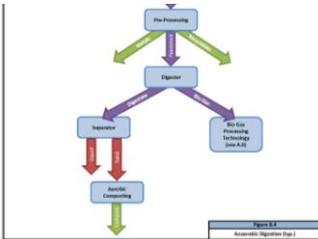
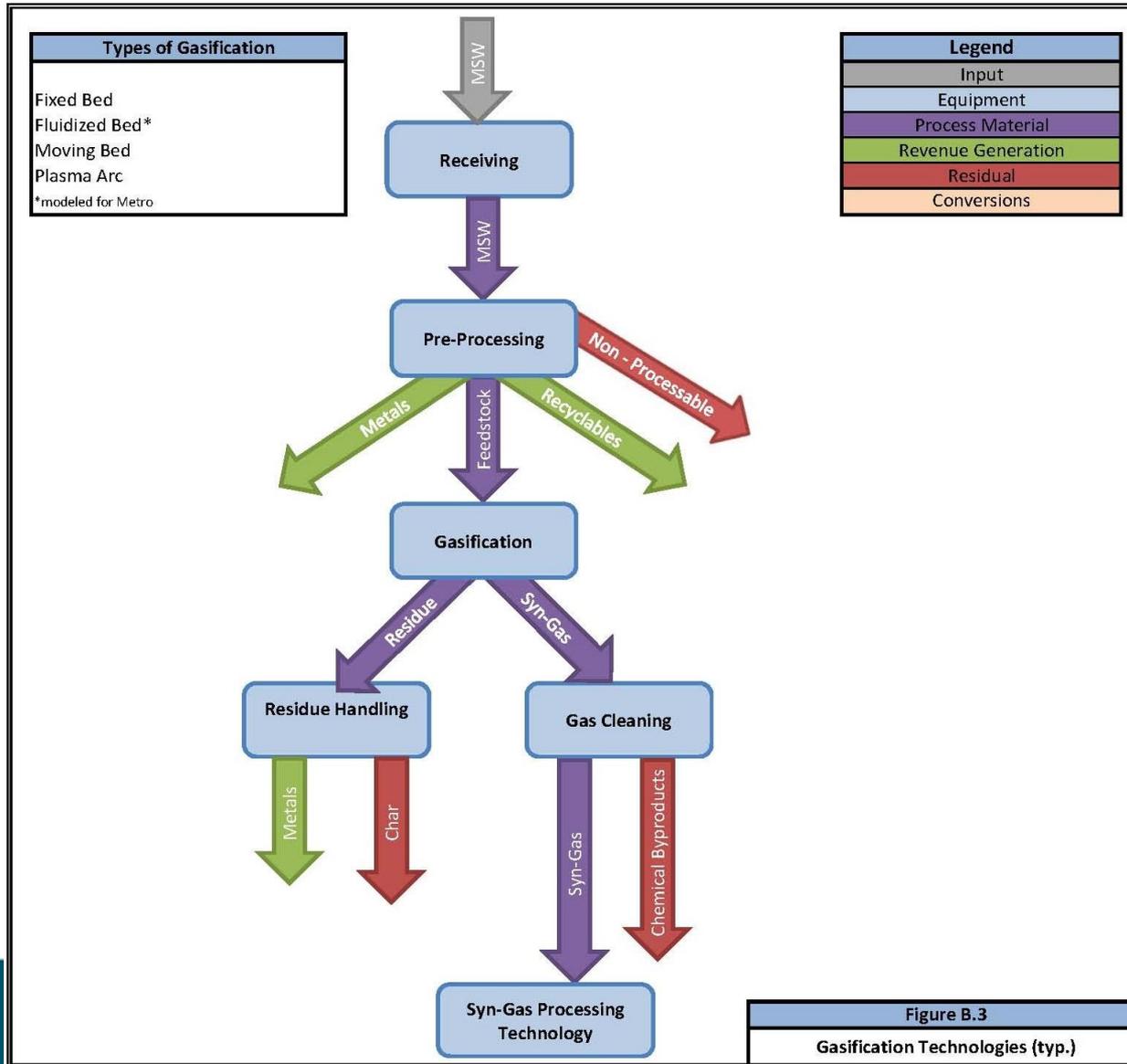
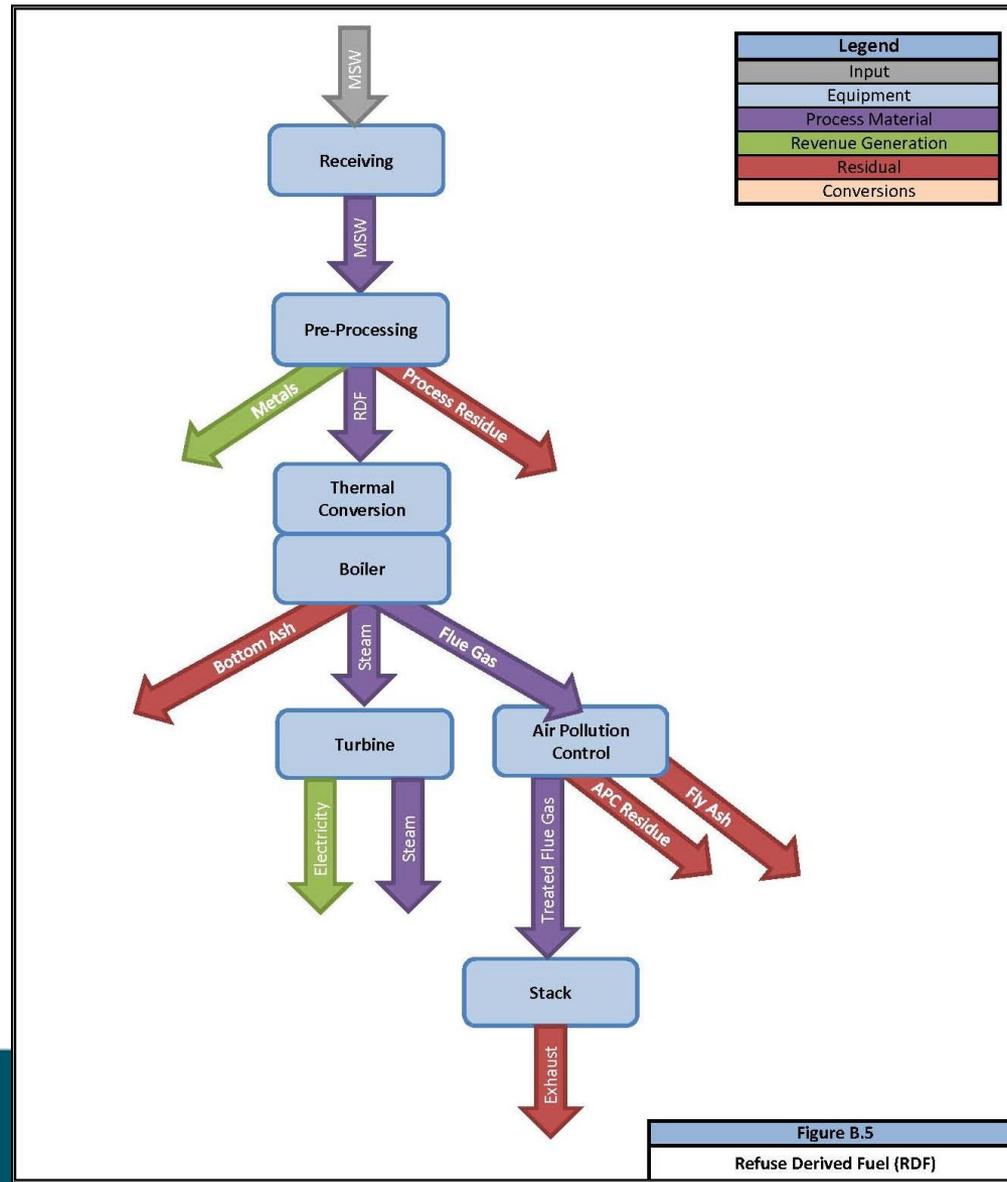


Illustration: Solid Combustion is a mass-burn type of waste-to-energy technology, and is distinct from mass-burn types of gasification, advanced boiler technologies, and the incineration, which involve combustion with and/or chemical waste heat recovery systems. The residual units are separate.

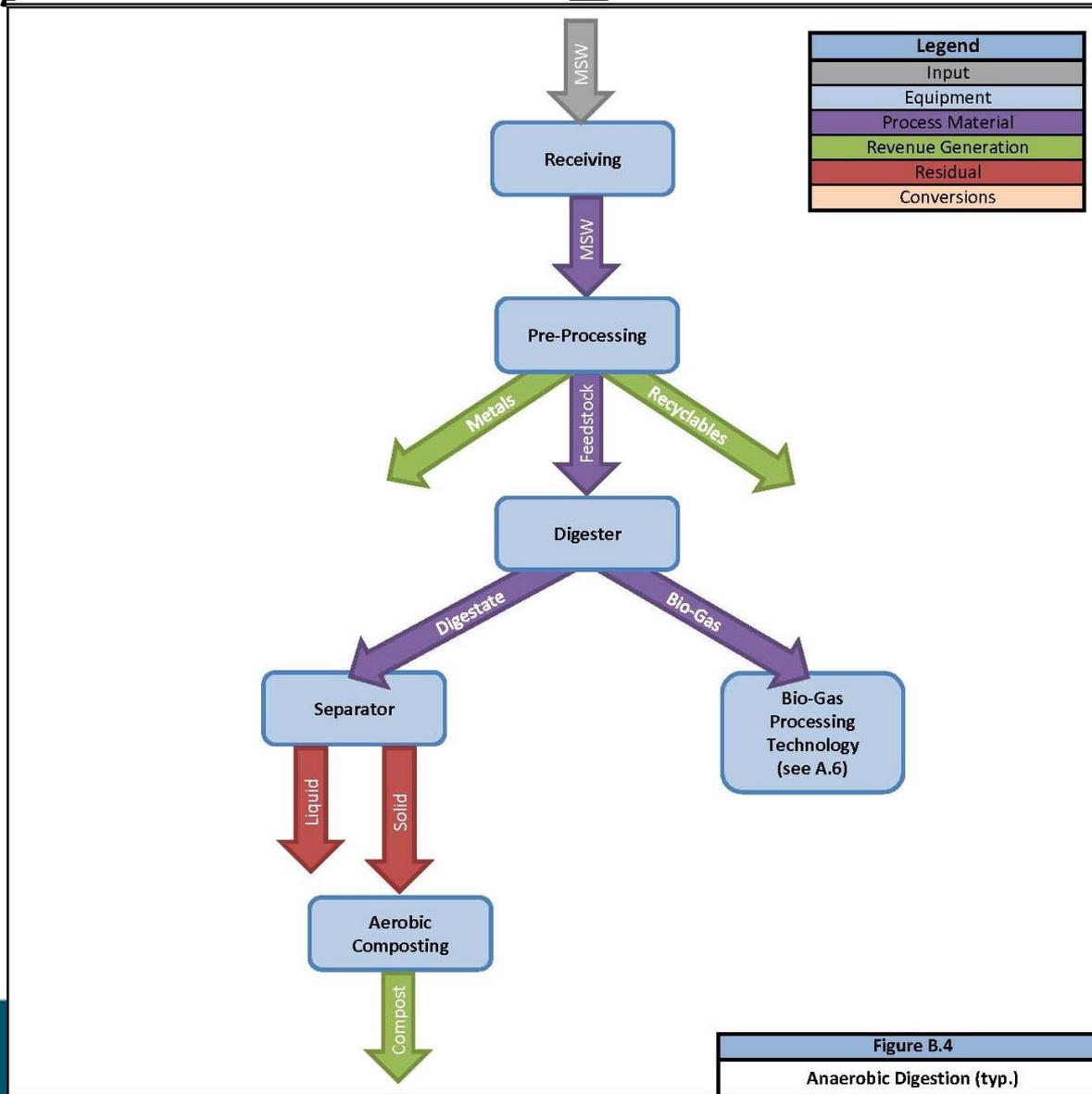
Gasification



Refuse-derived fuels



Dry anaerobic digestion



Waste to energy

