Waste Not, Want Not

pivotal
integrated resource management

As resources become scarce it makes sense to make the most of what you have. Advanced Gasification is a single-point system that can turn a wide range of wastes into energy, maximizing both financial and environmental value.

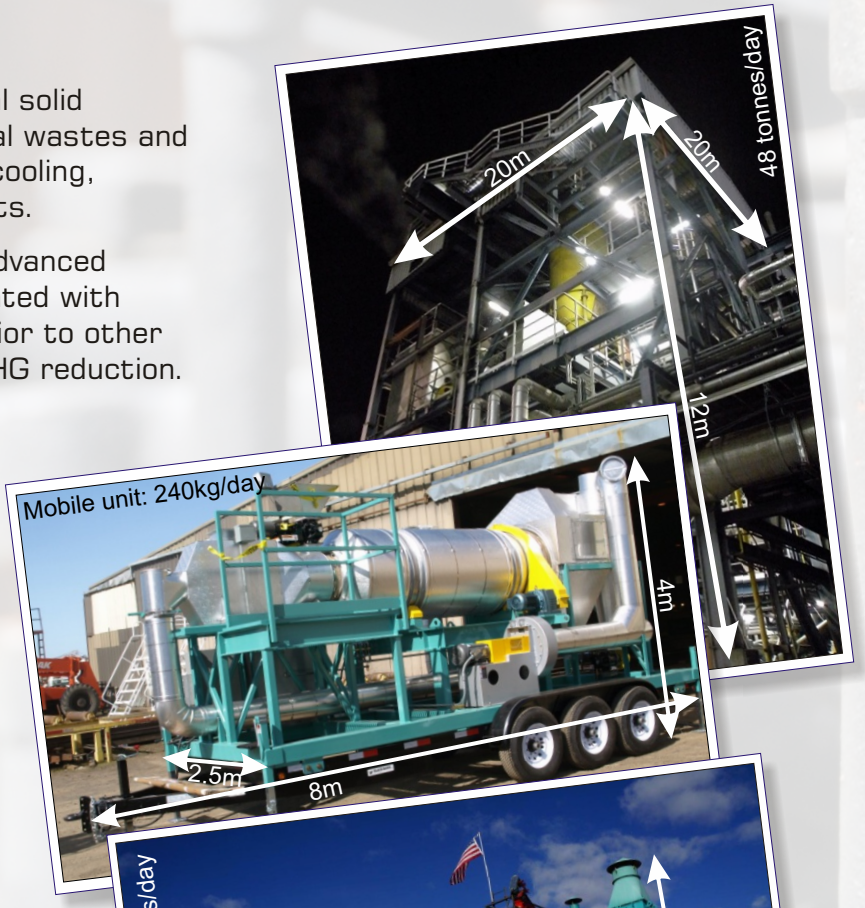
Game-Changer

Advanced Gasification converts municipal solid waste, sewage sludge, wood, agricultural wastes and other biomass into electricity, heating, cooling, renewable natural gas and other products.

Because it uses super-heated steam, Advanced Gasification avoids the problems associated with incineration, is highly efficient and superior to other approaches to energy generation and GHG reduction. It's also highly scalable, so it can meet most sizes of application.

Advanced Gasification's flexibility in waste handling makes it an ideal single-point solution that maximizes diversion and generates carbon-friendly value.

With multiple systems in use on three continents, Advanced Gasification has transformed both industry and communities.



Advantages

- Accepts sewage sludge, MSW, food, yard, agricultural wastes & more
- Up to 97% landfill diversion
- Generate multiple new revenue streams
- Reduce both operating and energy costs
- Turn waste into electricity, heating, cooling, renewable natural gas, biochar and more
- Quick & inexpensive to implement
- Small footprint, scalable to address almost any needs
- Virtually silent, emissions similar to natural gas boilers
- Reduces GHGs, increases recycling
- Proven to stimulate innovative economic development & employment

Feedstock Specifications	
Heating Value	>7,000 Btu/dry lb
Moisture Content	Ideally 5% - 30% : up to 50%
Nominal Feed Rate	910kg/hr/mW

Gas Composition	
Hydrogen	≈25-30%
Carbon Monoxide	≈35-40%
Methane	≈10%
Carbon Dioxide	≈20%
Nitrogen	≈2-4%
H_2:CO	≈1:1.2 – 1:1.6
Tars	≈200mg/m^3
Tar Dew Point	15ºC

System yield	*Heat/dry tonne*	*Power/dry tonne*
Thermal only	3.23mW	N/A
Thermal & electrical	2.26mW	0.73mW

Data based on tests & operations. Individual results may vary

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