



PRRS

(PLASMA RESOURCE RECOVERY SYSTEM)

Plasma Waste-to-Energy Solutions for Municipal, Hazardous, Hospital & Industrial Waste.

PyroGenesis' PRRS (Plasma Resources Recovery System) is an efficient plasma gasification system, consisting of 4 main steps:

1. Preparation
2. Gasification & Vitrification
3. Syngas Cleaning
4. Energy Generation

This technology allows for the elimination of all types of toxic compounds without emitting bio-accumulating pollutants.

CAPACITY	2 to 100 tonnes/day	
TYPES OF WASTE TREATED	Hazardous Biomedical Municipal (MSW) Organic Materials Low-level Radioactive Wastes	Biomass Plastics Municipal Sludge Industrial Waste
PRODUCTS FROM PROCESS (OPTIONS AVAILABLE)	Syngas Steam Electricity Biofuels	Hot Water Slag Aggregate Metal Ingots
AIR EMISSIONS	No emissions of dioxins or furans, acid gases, dust or volatile heavy metals Full compliance with global legislation	
OPTIONS	Transportable system Bolt-on to an existing treatment plant Power generation with an internal combustion engine Boiler-turbine or dual-fuel engine Production of steam and hot water	
CARBON CREDITS	Yes (Greenhouse Gas Reduction)	

ADAPTABLE TO A WIDE RANGE OF WASTES

CLEAN RESOURCE RECOVERY TECHNOLOGY

SAFE

EASY TO OPERATE

FULLY AUTOMATIC

CARBON CREDITS

SMALL FOOTPRINT

ENVIRONMENTALLY CONSCIOUS

Customers:

Governmental Organizations (ie. US Navy)

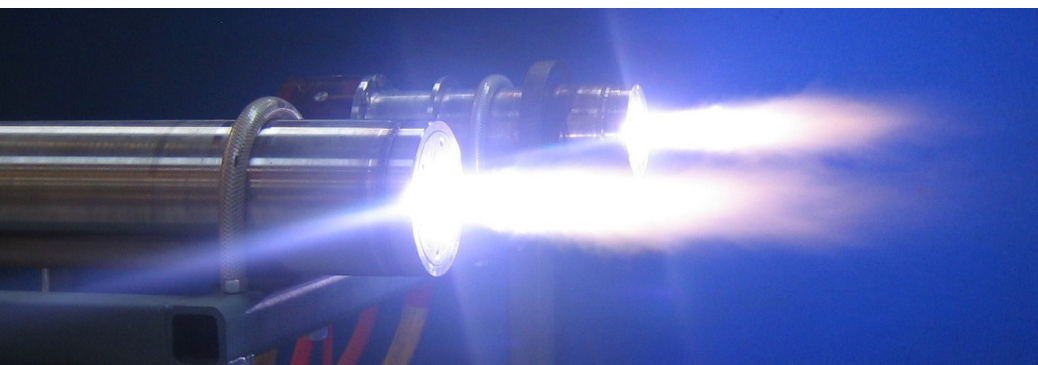
Municipalities

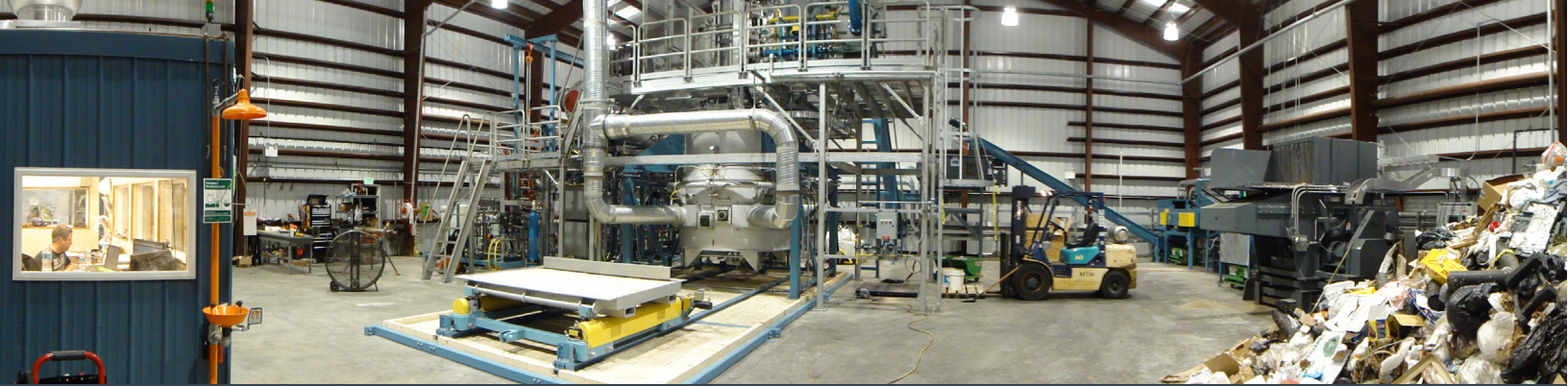
Hospitals

Hazardous Chemical Producers

For more information, please contact:

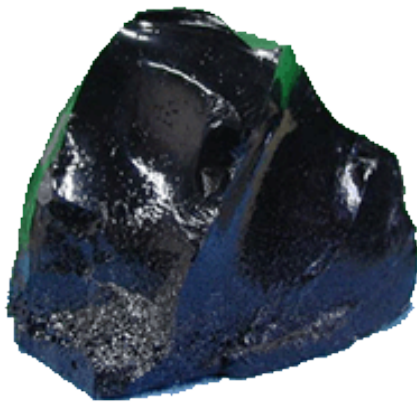
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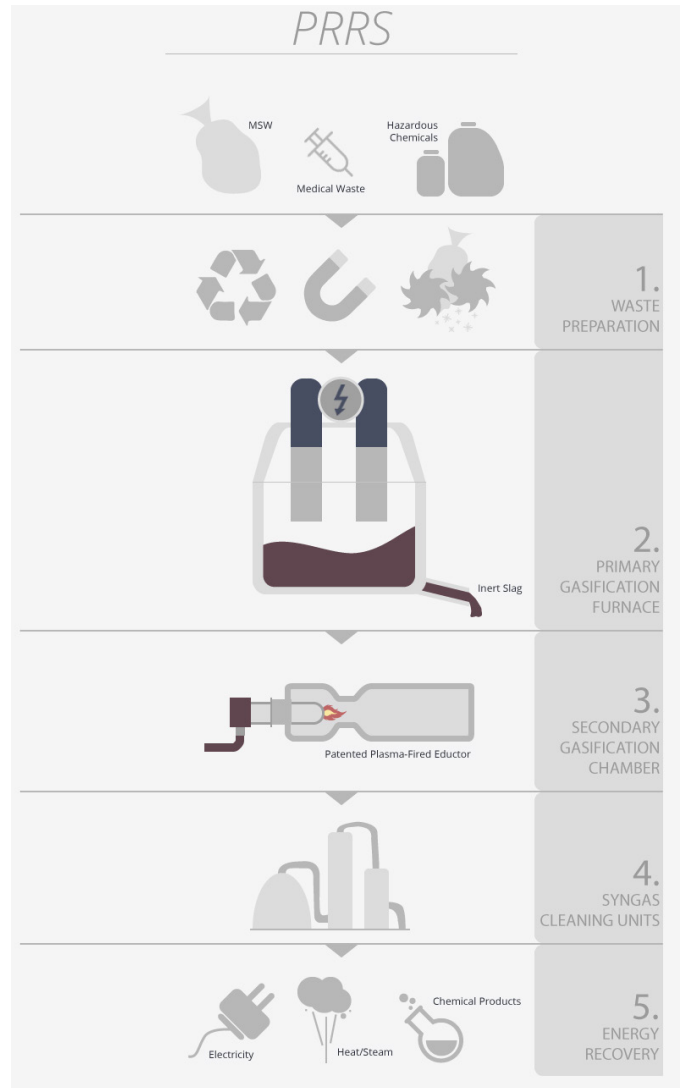


PyroGenesis delivers a transportable 10.5t/day PRRS to the US Air Force base in Florida (2010-2011)

Using our proprietary two-step plasma-based technology, operating at extreme temperatures under gasification conditions, the PRRS transforms waste to syngas, a gaseous fuel which can then be used to make electricity, heat, or fuels, as required by the end-user. Using PRRS, the inorganic fraction of the waste is converted into a glassy slag which is inert, non-toxic, and has been demonstrated to be suitable as a building material, and even jewelry.



Glassy slag



PyroGenesis Canada Inc. is a world-renowned high-tech company operating in the field of high temperature processing of materials and waste, which counts the US Navy and the US Air Force amongst its discerning client base.



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