

Vortex by BioEnergy Medical Waste™

The BioEnergy Vortex reformer allows users to take back control of their medical waste, providing independence, carbon footprint reduction and being cost effective.

How does the Vortex Reformer work?

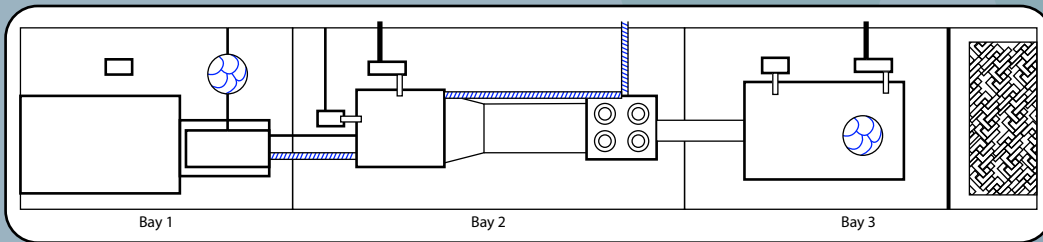
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Waste is tipped into the hopper for pre shred



2

The Vortex Reformer burns the waste



3

IED compliant emissions produced



4

Steam or electricity produced



Stage 1
Feedstock
Handling



Stage 2
Vortex
Reformer



Stage 3
Emissions
Control

The reformer temperatures can be operated from 1,100°C - 1,500°C, ideal for medical waste destruction, with less than 2-3% inert residue after the process

What waste can be used with BioEnergy?

Feedstock moisture content (MC) up to 30% without co-firing (30-50% MC with supplement firing)

Infectious: anything infectious or potentially infectious including swabs, tissues, excreta and lab cultures.

Pathological: human tissue, body parts, items contaminated with human or body fluids

Pharmaceuticals: all unused, expired and/or contaminated vaccines and drugs including, antibiotics, injectables and pills

Genotoxic: carcinogenic, teratogenic or mutagenic.

Non-medical

Exclusions - radioactive waste

Advantage of the Vortex Reformer

Cost reduction, carbon footprint reduction and independence

Vortex Reformer turns waste into decentralised power

Fast start up - circa 30 minutes

Meets all IED emissions

No VOC's, Dioxins or Furans

Remote Monitoring

Available in 4 modular sizes

Size	Process per hour	Process per annum
VB 300	100Kg	840 tons
VB 1,500	500Kg	4,200 tons
VB 3,000	1,000Kg	8,400 tons
VB 6,000	2,000Kg	16,800 tons

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A joint venture with G&N Laboratory and BioEnergy Group Ltd

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