LOW COST SOLUTION FOR FOOD AND ORGANIC WASTE

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Environmental Argument

- Each year food and drink generated millions of tons of waste, and millions of tons CO2 energy from energy used

"Rising utility costs, changing legislation, and the increasing public environmental awareness create challenges …. but also, the opportunities to create ecconomic advantage and contribute to a more sustainable future."

Source: Wrap conference 2007

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An effective Food Waste Solution

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Efficient Small Scale Composting Solution

- Environmentally cleaner end product,
- No left over product to dump or burn,
- No dirty water or bad odour,
- Bi-product material as fuel or soil conditioner,
- Easy to use with minimal maintenance,
- Removes the cost of waste disposal,
- Eliminates waste transport miles,
- Environmentally closed loop (carbon negative!),
- No longer have to 'flush it down the drain'

" The end product is pasteurised, hygienic & stable with high re-useable value. It is both mineral and energy rich..."

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The Process

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Bi-product : Soil Conditioner

Nutritional Contents :

Parameter	Normal Range (variation)	Garden Compost	BioNova Sample Range
Organic Matter	40 – 70 %	18.5	48.7 - 51.7
pH Balance	7.0 – 8.0	7.7	4.7 - 5.1
Nitrogen (N)	0.6 – 3.3 %	0.96	2.92 - 3.97
Phosphorous (P)	0.2 – 0.6 %	0.15	0.43 - 0.81
Potassium (K)	0.4 – 1.8 %	0.56	0.82 - 0.91
Calcium (Ca)	2.0 – 3.5 %	1.90	0.59 - 2.05
Magnesium (Mg)	0.2 – 1.1 %	0.94	0.01 – 0.10
Sodium (Na)	0.3 – 0.7 %	0.35	0.49 – 0.55

The material is nutritionally rich but also contains a higher than desired level of salt. For best results it should be spread at a dilution of between 20-30:1.

Process Characteristics

Digestion process circa 72 hrs, allowing continuous feed.

Temperature controlled between 70 to 75°C.

Automatic temperature & oxygenation control to optimise digestion.

Equipment can log and document the process – providing traceability.

Outputs are clean water vapour and dry bi-product material.

Ozone added to extractor flue to neutralise any odour.

Non Dependent on Carbon/Nitrogen ratio. (i.e. no additives to be input)

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Bi-product : Biomass Fuel

Dry Energy Contents :

Mineral & Biomass Fuel Materials	Energy Level (MJ/kg)
Peat	12.8
Coal (Lignite)	14.0
Dry Cow Dung	15.5
Wood	16.0
Methanol	19.7
Bi-product output	**20.5**
Coal (Bituminous)	24.0
Kerosene	42.8
Heating Oil	46.2
CNG (Gas)	53.6

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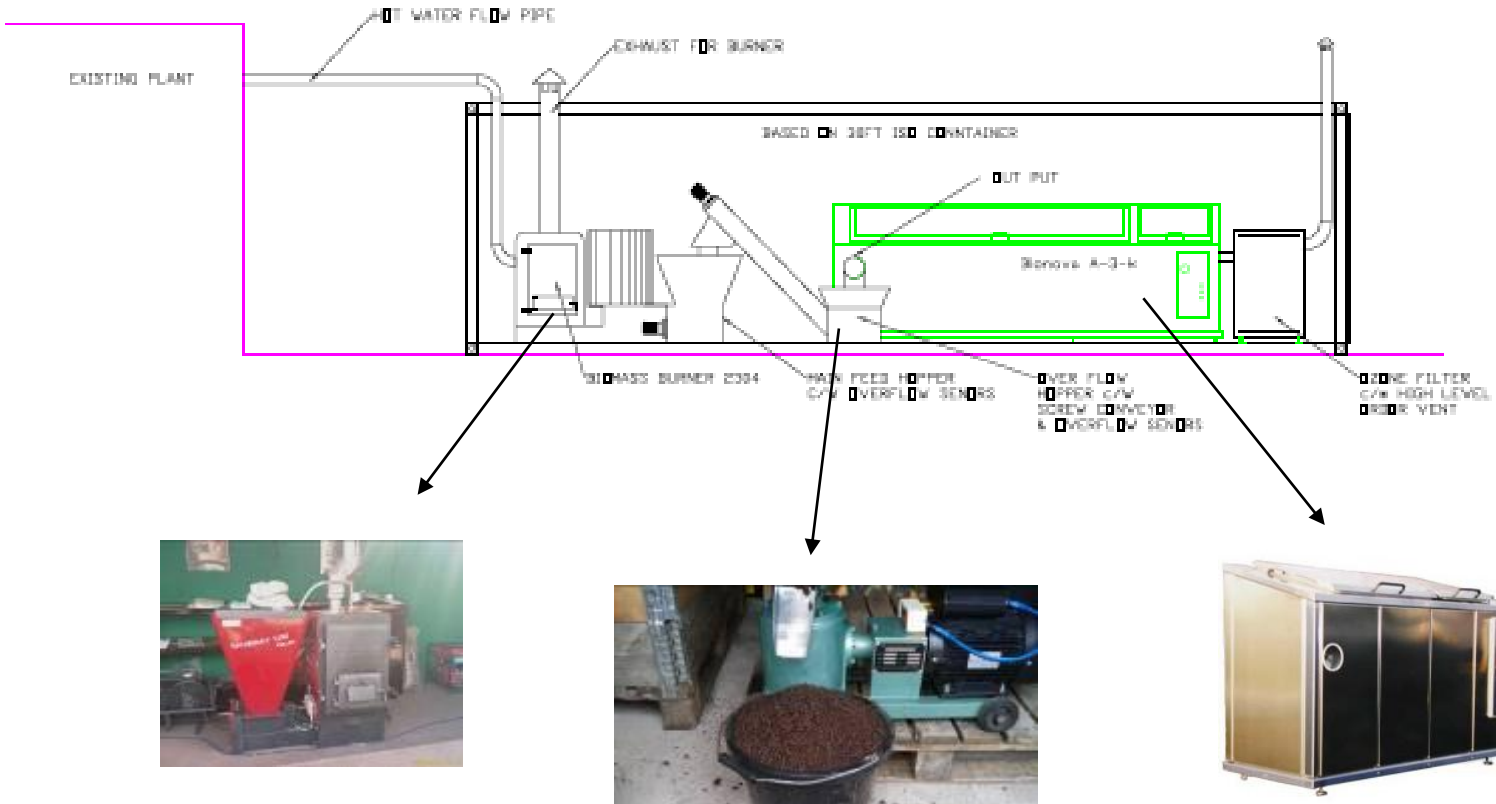
Biomass Fuel



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For More Information

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THANK YOU

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