Any organic substance becomes
COMPOSING or 95% EXTINCTION
with low cost!

BIOENERGY corporation japan
Organicity waste disposal treatment

1. Processing outline

(1) Extinction principle

It is extinction by microbe eating a organicity substance. It may be said that microbe change it into carbon dioxide and heat by a microbe digesting these as food. It is important that we (human) make environment to have microbe show their this simple work to the maximum continuously. It is the same as the making of compost in appearance.

(2) Processing method

ex. sewage sludge  ex. effluent from a factory  ex. egg shells

Add microbe and mix it with woodchip

Mixture every day

Add microbe and wood chip to organicity waste and mix it every day. Temperature is exceed 70°C by microbe activity and the all most of organicity waste change in carbon dioxide and steam on around 10 days. It's means organic waste was extincted.

,,but,,, Customer is able to choose composting treatment!!

This is a few special processing method elsewhere.

Woodchip reuse next treatment but it worn out little by little, therefore supplement about 10% a year.
(3) **Treatability item**

- plant waste, animal waste, organicity sludge, organicity waste fluid, many organicity substance
- (ex. food, fish, meat, malt waste, eggshell, animal feces and urine, starch grime)

(4) **Treatability volume**

For temperature maintenance by the microbe activity, the volume of waste is required around 500 litters at leasts. Treat is possible from 0.5m³ to several hundred m³ of daily.

(5) **Merit of the introduction**

It is cheaper than which processing method as a result, because can use the automatic machine that is not durability. This waste disposal treatment costs is lower 30-50% than a general processing method.

**Voice of SUN GREEN Co., Ltd. Who is our customer**

"We introduced the many equipment of other processing maker and have got the counseling of the university professor. We spent the expense of hundred million yen. As a result, we took only not available false compost, but also the processing cost increased. It was acquired at second hand and knew the extinction processing method of your company and after having false compost work to become extinct for trial in February when the snow fell.

We was impressed for disappeared false compost wonderfully then made a contract with your company. We want to introduce your system as an agency in Hokkaido"

(6) **Smells**

The unpleasant smell is not felt when digestion advances well.

At the beginning, the raw materials which decayed are stinking, but the smell decreases after beginning processing.

The powder that deodorizer with accelerate digesting was developed to solve the problem of the bad smell. You can control a considerable smell by a quota using this powder.

When a complaint was given by inhabitants of near the processing plant, officer of the public health center evaluated that was not problem level after checked smell by measuring instrument.

2. **Facilities**

(1) processing building made concrete floor with roof

- 10 spaces for 10 days
  - (ex. total 600 square meter of area for 10 cubic meter processing a day)

(2) Mixing machine

- (ex. wheel loader, excavator)

(3) Powder of deodorizer with accelerate digesting

- It is necessary for you to buy this powder at first time from BIOENERGY corporation.
  - (ex. It needs 3 cubic meter of this powder when you treat 10 cubic meter processing a day)

(4) Wood chip

- Any kind of tree except toxic included.
  - It is about thumb size.
  - (ex. It needs 500 cubic meter maximum when you treat 10 cubic meter processing a day)

*If you needs >> Vehicle (dump truck, septic tank truck) for transportation
About **BIOENERGY corporation**

**<OUTLINE>**

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**Main business**

Extinction and composting treatment of organic substance and these consulting

Production and sale of deodorizer with accelerate digesting powder

Production and sale of liquid & solid fertilizer

Production and sale of bio-diesel fuel

**<History>**

2003.10 Founded corporation in Saga Japan.

2004.9 Installed small biogas plant and perform of feasibility studies required to plant installation business.

2005.6 Design and installed bio diesel plant and started sale bio-diesel fuel.

2006.8 Made use of the microbe fermentation technology that learned by poultry farming business, and product & sale of deodorizer with accelerate digesting powder.

Began extinction and composting treatment work of organic substance.

2009.6 Exhibited for an environmental exhibition of Korea.

2012.5 The pig feces processing plant started operation that introduced our system in Korea.

2013.7 Instructed about the fertilizer production in China.

About **AZUMA masataka** (Representative director(CEO))

Born in Hokkaido Japan in 1962.

Graduated mechanical engineering subject of Kitami Institute of Technology in 1985.

 Entered Toray Engineering Inc. of Shiga and designed of the PET production machine.

Established SAGA TENCHI farm at Saga and began poultry farming business and agriculture in 1993.

Recognized importance of the energy by "Y2K" and built the self-support house that installed solar photovoltaic generation, biogas plant and water.