Waste disposal technology boasted by Japan



Hydrothermal treatment equipment G & T Co.,Ltd.

Convert organic waste into Useful resources

Creation of new business Waste treatment Biogas power generation Function liquid fertilizer manufactur

Three projects can be created

Hydrothermal treatment as a core (hub) can Work with

Waste disposal / power generation business/ Liquid fertilizer manufacturing business

1 Waste treatment

Sludge

Food residue

Fish waste



Sludge / Food residue/ Raw garbage / Vegetable waste/ Fish waste

2 Raw materials for biogas power generation

After solubilized by this treatment, methane Fermentation is carried out.



High efficiency methane fermentation

③Organic cultivation liquid fertilizer

Professor Motoyoshi Oohaba of former professor of Tokyo University of Agriculture and Technology verified.

Strawberries with a sugar content of 35



Cucumbers with a yield of 1.5 times



Lead organic crop agriculture to success!

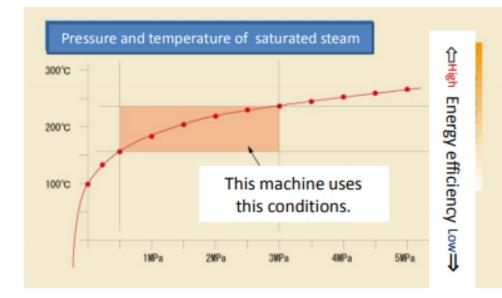
Characteristic

Hydrothermal treatment equipment treats organic matter at Up to 2 Mp and 170 ~ 200 °C.

Hydrothermal steam and high pressure environment make decomposition · synthesis reaction.

Production is possible as a new resource with high functionality from large amounts of agriculture, forestry and fisheries waste.

* As new resources, 80% changed aqueous solution and 20% as solid.



Hydrothermal treatment equipment Improve the environment

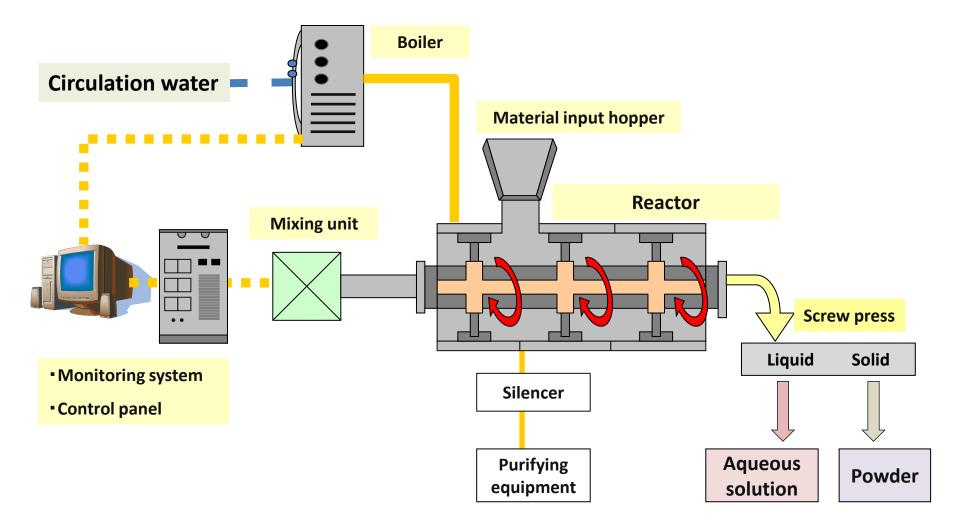
Reduces stench. Does not generate dioxin. Separate difficult-to-isolate substances.

High productivity by computer monitoring



Completed processing of 7.5tons of Waste in 2.5 hours or less. (From input to discharge)

Hydrothermal system flow



Hub effect of Hydrothermal treatment

Verification by university started Practical application! (Subsidy business Of Ministry of education)

National Toyohashi University of Technology Methane gas · Electricity· Fertilizer generation



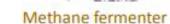


Raw garbage











Electric power & CO2 generation



Vegetable house (heat: heat preservation, CO 2: promotion of photosynthesis)





Meiji University Liquid fertilization / cultivation test

Hydrothermal treatment equipment

Tomato residue



Cabbae residue

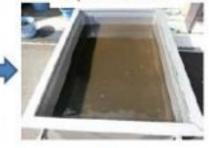


Stems, leaves residue





愛知県の補助 金事業で、害 獣対策(液体 肥料化)にご 協力を頂きま した。 <高温高圧水熱処理後> Liquid fertilizer



Cultivation test



15 tons equipment



Introduction cost of hydrothermal equipment

Equipment: 15 tons volumes / Processing amount 7.5 tons (Assuming that the 9 batches a day, operate 24 hours, 2.5 hours/process) Processing capability 24,638tons/year

Hydrothermal treatment basic equipment For price, please contact us.

Synergy benefit in business integration

Waste treatment business Power generation business Liquid fertilizer manufacture

1Waste treatment business

(Operate 24 hours 7.5 tons / 2.5hours / batch) Capability 24,638tons/year (Waste treatment fee : ¥3,000 / ton)

Gross profit ¥7.4 million / year



 $2Mw \times 24h \times 365$ days \times ¥39(Selling unit price / Japan)

Power sale amount Gross profit ¥700million/year

3 Liquid fertilizer

Liquid fertilizer remaining After methane fermentation !

Wholesale price ¥5,000/ton

(7.5ton x 1.2 times x 9batchs x 365days x ¥5,000)

*By adding steam to the input amount, the discharge amount will be 1.4 times from the input amount 1.2 times.

Gross profit ¥140million/year

Total Gross Profit

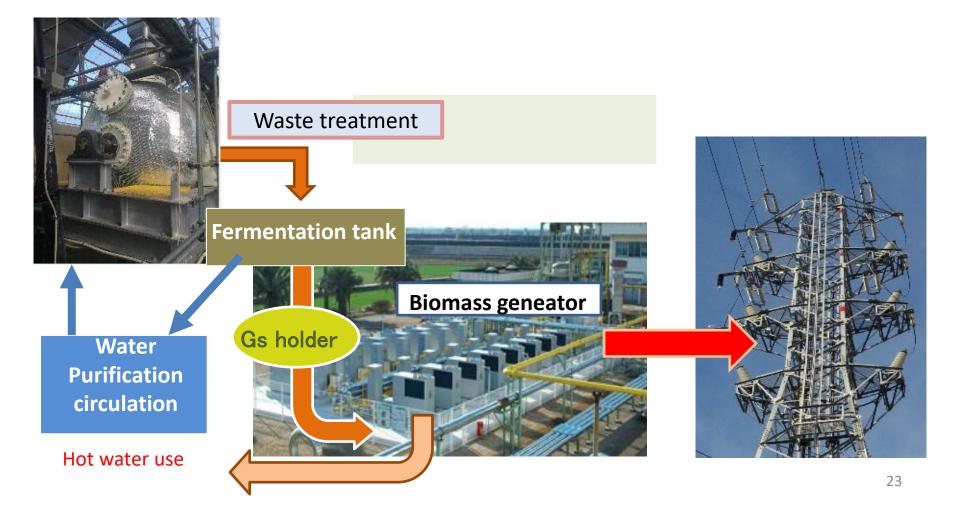
Waste treatment + Power + Liquid fertilizer Gross profit 900million/year

Biogas power generation

Fermenter size 210tons (21tons × 10 tanks) Amount of gas m3 Bio fluid volume

| One hour | 715 | 4.8 | |
|----------|-------------|---------|----|
| One day | 17,160 | 114.4 | |
| One year | 6, 263, 400 | 41, 756 | 22 |

Power generation flow



Organic cultivated liquid Fertilizer products



Liquid fertilizer is diluted 1,000 times. A high effect is brought. An example Price of liquid fertilizer treated Chicken feces in Japan is ¥4,860 / L