Technical Information Sheet

1. Name of technology
Methane fermentation technology for refuse, food waste, livestock waste, sewage waste, and other types of waste

2. Type of technology
Using methane fermentation technology, energy is recovered from refuse, food waste, livestock waste, sewage waste, and other types of organic waste. The status of the fermentation tank has been made visible, enabling safe operation.

3. Description of technology

[Objective and application of the technology]
Methane fermentation

[Characteristics of the technology]
The ammonia concentration in the methane fermentation tank is continuously measured and the internal flow velocity and deposit at the bottom are measured to monitor the fermentation status in the tank while the system is operating (able to “see” inside the tank), enabling optimum continuous operation and error detection. The gas engine power generation efficiency is 30% or so.

[Delivery record]
Hita City (Oita Prefecture) and Coop Kobe

[Price and other inquiries]
Overseas Marketing Office, Environment Plant Division (Tokyo Office)
9-12, 5-chome, Kitashinagawa, Shinagawa-ku, Tokyo 141-8688, Japan
TEL: 03-5739-6517

4. Classification of technology

(1) Applicable fields
Municipal solid waste treatment, Industrial waste treatment

(2) Target waste
Food waste/raw garbage, Other (sewage sludge, livestock excreta, sludge from rural sewage systems, etc.)

(3) Services provided
Sales of machinery and equipment, Waste treatment service, Technical cooperation/licensing, Consulting

5. Countries to which this technology can be provided
Asia

6. Keywords
Methane fermentation, ammonia, visualization

7. Contact information
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