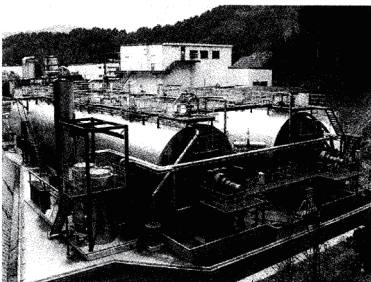
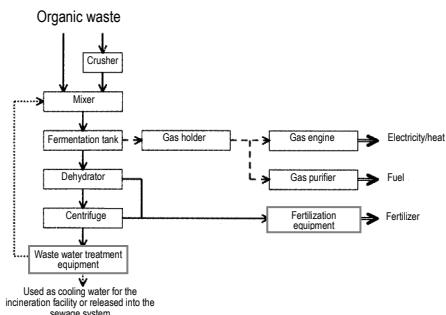


## Technical Information Sheet

<b>1. Name of technology</b>	Technology for fermenting organic waste to produce methane (dry method) for power generation
<b>2. Type of technology</b>	This technology is used to ferment organic waste to produce methane gas (dry methane fermentation) and use the methane gas for gas engine power generation or as automobile fuel after it is purified.
<b>3. Description of technology</b>	
Objective, application, characteristics, delivery record, and price of technology	<p><b>[Objective and application of the technology]</b>                  This technology is used to ferment organic waste to produce methane to recover energy.</p> <p><b>[Characteristics of the technology]</b>                  Organic waste is finely crushed into pieces of 30 mm or so and mixed with dilution water in a mixer to produce slurry of 15 to 40% which is then put in a fermentation tank at a temperature of approx. 55°C. After the hydrolysis, acid fermentation, and methane fermentation processes, methane gas is recovered at a concentration of approx. 60%. When 3 tons of organic waste is treated in one day, over 300 m<sup>3</sup>N of bio gas can be recovered.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="502 761 874 1041" style="text-align: center;">  <p>Overall view of the facility</p> </div> <div data-bbox="933 728 1380 1041" style="text-align: center;">  <p>Schematic Process Flow</p> </div> </div> <p><b>[Delivery record]</b>                  Company K (Kyoto) 50 tons per day Bio gas 7,800 m<sup>3</sup>N per day                  Power generation 620 kW</p> <p><b>[Price and other inquiries]</b>                  Engineering Planning Department (Tokyo), Planning and Development Center, TAKUMA Co., Ltd.                  Person in charge: Susumu Uno                  TEL: 03-5822-7894 (Direct) FAX: 03-5822-7895</p>
	<b>4. Classification of technology</b>
(1) Applicable fields	Municipal solid waste treatment, Industrial waste treatment
(2) Target waste	Paper/cardboard, Food waste/raw garbage
(3) Services provided	Plant construction, Sales of machinery and equipment, Waste treatment service, Technical cooperation/licensing, Environmental impact assessment, Survey/data processing, Other
<b>5. Countries to which this technology can be provided</b>	No limitations have been placed on country or region.
<b>6. Keywords</b>	Organic waste, methane fermentation, dry method, power generation
<b>7. Contact information</b>	Engineering Planning Department (Tokyo), Planning and Development Center, TAKUMA Co., Ltd. Person in charge: Susumu Uno TEL: 03-5822-7894 (Direct) FAX: 03-5822-7895