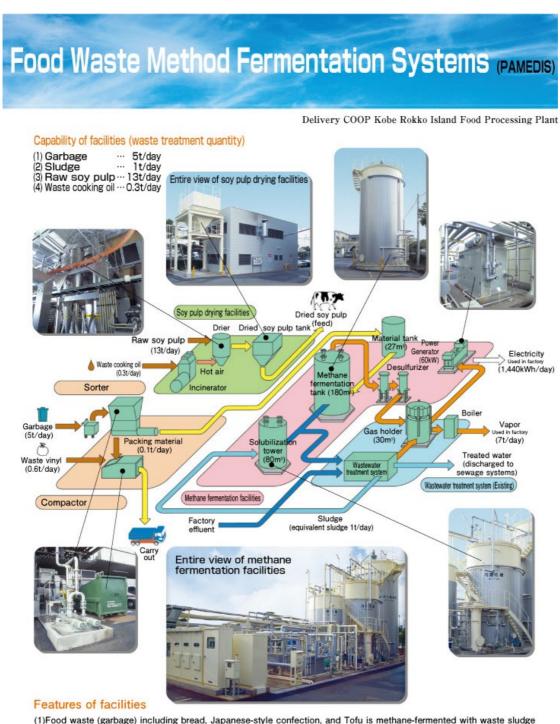
KOBELCO ECO-SOLUTIONS CO.,LTD.



Biomass Utilization

Methane Fermentation Technology

Record: Co-op Kobe (December, 2003)



- (1)Food waste (garbage) including bread, Japanese-style confection, and Tofu is methane-fermented with waste sludge in a wet and hot environment (55°C) and generated biological gas is collected.
- (2)The biological gas is used by a gas engine power generator to generate electric power of 1,440kWh/day and supply it to the food factory. In addition, extra biological gas is used by a boiler to generate vapor of 13t/day and supply it to the food factory.
- (3)This energy-saving equipment is clean and green, not burning or reclaiming waste but reusing it to generate electricity and heat energy.
- (4)Raw soy pulp is reused using the waste cooking oil as fuel to produce and sell dried feed which can keep for a long time. (5)We achieved 96% of waste recycling ratio and 90% reduction of industrial waste treatment cost (87 million yen/year). (Achievement in FY2002)