

Biogas Plant FUKUOKA



Location	Asakura City, Fukuoka , Japan
Construction Period:	2016/17
Input substrat:	Kitchen waste, industrial waste
Fermenter:	Enameled steel tank, 2 x 5,000 m ³
CHP	Gas engine, 2 x 1,056 kW
Special Features:	2 digester, 1 secondary digester with gas holder mesophilic operation

The FUKUOKA biogas plant is built and is operated by Energy Star Maki. For the fermentation process are used about 34,000 t/a of kitchen waste and 27,000 t/a of industrial waste. The engineering of biogas system is configured as a single-stage system with several tanks for reception, storage and homogenization of the input substrate. The plant consists of a gas production unit with two digesters with top mounted mixers and a secondary digester with a single membrane gas holder. The gas holder is mounted inside a steel tank. The feeding of digesters happens in two parallel input lines. Pumpable slurries come from reception pits and solid biomass come from solid input device. The biogas plant is equipped with two gas engines with each 1,056 kW for producing biogas power. The digestate is separated in liquid effluent going to the waste water treatment plant and solids, which are composted. The start-up is in 2017.

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Responsibility of Krieg & Fischer Ingenieure GmbH:

Conception, draft and execution planning, construction plans, tendering, supervision of construction, start-up, training for operator