

EGSB wastewater treatment system

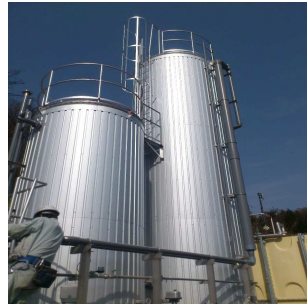
Highly efficient anaerobic reactor with methane recovery system.

Aiken Aqua Technology.
www.aiken-h2o.com

The company was founded in 1982 with a philosophy of conserving the future of the irreplaceable earth and contributing to the nature. In recent years, the company worked on reducing excess sludge volume and recycling in the industrial waste.

Aiken Aqua Technology developed the GSS (gas-solid separator) integrated EGSB (expanded granular sludge bed) treatment system that maintains a high concentration of granular sludge that allows an effective wastewater and effluent treatment while collecting methane gas produced from the anaerobic degradation of organic matters.

The influent is heated from the waste heat from the treated water, methane gas is used either in a boiler or in a gas engine to produce electricity. The system treats wastewater with high COD and it is energy efficient. In one case where 1000 m³/d of WW is treated, EGSB system saved 1 million USD/year for 80% COD removal (less electricity & chemicals' cost and electricity sale).



Reactor (m)	4.5 X 20 X 11 (H)		2.6 Φ x 15 (H)		2.4 Φ x 10 (H)		1.6 Φ x 7 (H)	
	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
Q (m ³ /d)	1500	1500	600	600	70	70	15	15
COD (mg/l)	11,000	900	3500	350	12000	1200	5000	500