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Design/	performance parameter Threshold Optimization for process design	(1) New HSAD system with augmentation	(2) Conventional HSAD system with solid waste racture	Typical HSAD system installation with solid waste recycle using Kompogas design	
Total Co Optimiz m ³ CH ₄	DD g/L zation Threshold /ton/day	200 39.7	200 39.7		
of 1 ton Methano Solids r	Zation results for feed rate /day: e production efficiency eactor volume m ³	<u>96%</u> 17	<u>96%</u> 25	38.3*	
Perform Solids d ton/m ³ /c Biogas	nance igester loading rate lay (lb/ft ³ /day) production ester m ² /m ² /tay	0.06 (3.75)	0.04 (2.50)	0.026 (1.63)* 2.8*	
Methan m ^{3/day} Potenti	e production rate m ³ /	2.28	1.52		
capital	kgN/ton waste kgP/ton waste cost \$/ton including post	2.10 3.72 18.9		 48.6	

















