



U.S. Waste Biogas & Organic Fertilizer Production Project

1,000 tons/day – Economic Analysis



DHM Global Inc

Ver2025

1. Construction cost (1,000 tons/day)

(Unit :USD)

Division		Amount	Remarks
Construction	1. civil engineering	93,600,000	
	2. Architecture, landscaping	72,800,000	
	3. Recycling Separator	52,000,000	
	4. Installation of biogas plant facilities	138,320,000	
	5. Installation work of liquid fertilizer production facilities	46,800,000	
	6. Installation of Compost Production Facility	31,200,000	
	7. Power and Electrical Control Installation Work	57,200,000	
	Sub Total	491,920,000	
Design/ Auditing	1. Basic and implementation design costs	20,800,000	
	2. commissioning fee	6,240,000	
	3. incidental expenses	1,040,000	
	Sub Total	28,080,000	
Sum		520,000,000	

The above calculation details are subject to change depending on the basic and implementation design conditions.

2. Annual maintenance fee (1,000 tons/day)

(Unit :USD)

Description		Amount	Remarks
Fixed Cost	Labor	3,800,000	• Operation Personnel 90 (Collection 1, management 8, Facility Operator 81)
	Administrative Expenses	380,000	• Labor Cost X 10%
	Maintenance depreciation	1,960,400	• Construction, Civil & Buildings X0.2%, Machinery X0.5%
	Sub Total	6,140,400	
Variable Cost(Operating Expenses)	Power Ratio	4,687,200	• Base Rate: 4,000kw x \$6.4/Kw x 12Months=\$307,200 • Fee: 80,000kw/days x \$0.15/Kw x 365days = \$4,380,000
	Chemical & Catalyst	144,000	• Odor Treatment, Desulfurization Equipment: \$12,000 / Month X 12 Months
	Waterproofing	10,402	• 10,950tons/year x \$0,95
	Purchase of Sawdust, etc.	990,000	• 60 tons/day x 330 days = 19,800 tons/year x \$50/ton
	Financial Bank Interest	41,600,000	• Project cost \$394,000,000 X 8%/year
	Sub Total	47,431,602	
Sum	53,571,642		

The above calculation details are subject to change depending on the basic and implementation design conditions.

3. Economic Analysis (1,000 tons/day)

(Unit :USD)

	Division	Amount	Remarks
Project cost (input)	Design / Supervision	28,080,000	
	construction	491,920,000	
	Sub Total	520,000,000	• Total Facility Business Expense
A- Revenue	Electricity Selling	6,825,500	• 110,00KW/days x 365days = 40,150,000 kw /days x \$0.17/kw
	animal manure treatment costs	36,500,000	• 1,000ton/days x 365days = 365,000ton/yearX \$100/ton
	waste heat energy	0	• 33,110,000 kcal/day x 365 days = 12,085,150,000/year
	CDM (Carbon Rights)	9,102,735	• 489co ² ,ton/days x 365days = 178,485co ² ton/year x \$51
	Liquid Fertilizer Selling	103,950,000	• 700ton/days x 330days =231,000to /year x \$450/ton
	Compost Selling	26,400,000	• 200ton/days x 330days =66,000ton/year x \$400/ton
	Sub Total	182,778,235	
B- Expense	Fixed	6,140,400	• Labor Cost, Management fee
	Variable	47,431,602	• Power ratio, Drug Cost,
	Sub Total	53,571,642	
C-Annual Net Profit (C=A-B)		129,206,593	Recovery period of investment expenses: about 4.0 years (business expenses/year net profit)

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The American people are all environmentally conscious
I will become a company specializing in environmental energy.

Thank you.



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