



**U.S. Waste Biogas & Organic Fertilizer
Production Project
500 tonnes/day – Economic Analysis**



DHM Global Inc

Ver2025

1. Construction cost (500 tons/day)

(Unit :US\$)

Category		Amount (US\$)	Remarks
construction costs	1. Civil engineering	54,000,000	
	2. Architecture and landscaping	42,000,000	
	3. Installation of Recycling Screening Station	30,000,000	
	4. Biogas Plant Installation Work	79,800,000	
	5. Installation of Liquid Fertilizer Production Facility	27,000,000	
	6. Installation of Solid Fertilizer Production Facility	18,000,000	
	7. Power and electrical control installation work	33,000,000	
	Sub Total		283,800,000
incidental expenses	1. Basic and implementation design costs	12,000,000	
	2. Commissioning cost	3,600,000	
	3. Incidental expenses	600,000	
	Sub Total		16,200,000
Sum		300,000,000	KOREA BUSAN FOB

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

2. Annual maintenance fee (500 tons/day)

(Unit :US\$)

Category		Amount	Remarks
Fixed Cost	personnel expense	1,512,000	• Operation Personnel 42 (Collection 1, management 5, Facility Operator 36)
	Administration cost	151,200	• Labor Cost X 10%
	Maintenance/depreciation	1,131,000	• Construction, Civil & Buildings X0.2%, Machinery X0.5%
	Sub Total	2,794,200	
Variable Cost(Operating Expenses)	Electricity cost	2,343,600	• Base Rate:2,000kw x \$6.4/Kw x 12months=\$153,600 • Fee:40,000kw/days x 0.15\$/Kw x 365days= \$2,190,000
	Chemical & Catalyst	108,000	• Odor Treatment, Desulfurization Equipment: \$9,000 / Month X 12 Months
	Waterproofing	5,700	• 6,000tons/year x \$0.95
	Purchase of Sawdust, etc.	495,000	• 30tons/day X 330days =9,900 tons/year X \$50/ton
	Financial Bank Interest	24,000,000	• Project cost \$300,000,000 X 8%
	Sub Total	26,952,300	
Sum	29,746,500		

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

3. Economic Analysis (500 tons/day)

(Unit :US\$)

	Category	Amount	Remarks
Project cost (input)	Design / Supervision	16,200,000	
	construction	283,800,000	
	Sub Total	300,000,000	•Total Facility Business Expense
A- Revenue	Electricity Selling	3,412,750	•55,000KW/days x 365 = 20,075,000 kw /days x \$0.17/kw
	food waste disposal costs	18,250,000	•500ton/days x 365days = 182,500ton/year x \$100
	waste heat energy	0	•16,555,000kcal/days x 365days = 6,042,575,000kcal/year
	CDM (Carbon Rights)	4,551,342	•244co ² ,ton/days x 365days = 89,242co ² ,ton/year x \$51
	Liquid Fertilizer Selling	51,975,000	• 350ton/days x 330days =115,500ton/year x \$450
	Compost Selling	13,200,000	• 100ton/days x 330days =33,00ton/year x \$400
	Sub Total	91,389,092	
B- Expense	Fixed	2,794,200	• Labor Cost, Management fee
	Variable	26,952,300	• Power ratio, Drug Cost,
	Sub Total	29,746,500	
C-Annual Net Profit (C=A-B)		61,642,592	Recovery period of investment expenses: about 4.8 years (business expenses/year net profit)

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It's about the American people and the environment
I will become a company specializing in environmental energy.

Thank you.



DHM GOLBAL INC