U.S. Waste Biogas & Organic Fertilizer Production Project

300 tonnes/day – Economic Analysis

DHM Global Inc

Ver2025

1. Construction cost (300 tons/day)

(Unit :US$)

Category		Amount (US$)	Remarks
construction costs	1. Civil engineering	32,400,000	
	2. Architecture and landscaping	25,200,000	
	3. Installation of Recycling Screening Station	18,000,000	
	4. Biogas Plant Installation Work	47,880,000	
	5. Installation of Liquid Fertilizer Production Facility	16,200,000	
	6. Installation of Solid Fertilizer Production Facility	10,800,000	
	7. Power and electrical control installation work	19,800,000	
	Sub Total	**170,280,000**	
incidental expenses	1. Basic and implementation design costs	7,200,000	
	2. Commissioning cost	2,160,000	
	3. Incidental expenses	360,000	
	Sub Total	**9,720,000**	
Sum		**180,000,000**	KOREA BUSAN FOB

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

2. Annual maintenance fee (300 tons/day)

(Unit :US$)

Category		Amount	Remarks
Fixed Cost	personnel expense	1,008,000	•Operation Personnel 28 (Collection 1,management 4, Facility Operator 12)
	Administration cost	100,800	• Labor Cost X 10%
	Maintenance/depreciation	678,600	• Construction, Civil & Buildings X0.2%, Machinery X0.5%
	Sub Total	**1,787,400**	
Variable Cost(Operating Expenses)	Electricity cost	1,406,160	•Base Rate:1,200kw x $6.4/Kw x 12months=$92,160 •Fee:24,000kw/days x 0.15$/Kw x 365days= $1,314,000
	Chemical & Catalyst	48,000	•Odor Treatment, Desulfurization Equipment: $4,000 / Month X 12 Months
	Waterproofing	3,325	• 3,500tons/year x $0.95
	Purchase of Sawdust, etc.	297,000	• 18tons/day X 330days =5,940 tons/year X $50/ton
	Financial Bank Interest	14,400,000	• Project cost $180,000,000 X 8%
	Sub Total	**16,154,485**	
Sum		**17,941,885**	

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3. Economic Analysis (300 tons/day)

(Unit :US$)

Category		Amount	Remarks
Project cost (input)	Design / Supervision	9,720,000	
	construction	170,280,000	
	Sub Total	**180,000,000**	•Total Facility Business Expense
A-Revenue	Electricity Selling	2,047,650	•33,000KW/days x 365 = 12,045,000 kw /days x $0.17/kw
	food waste disposal costs	10,950,000	•300ton/days x 365days = 109,500ton/year x $100
	waste heat energy	0	•9,933,000kcal/days x 365days = 3,625,545,000kcal/year x $0
	CDM (Carbon Rights)	2,730,795	•146,7co^2,ton/days x 365days = 53,545co^2,ton/year x $51
	Liquid Fertilizer Selling	31,185,000	• 210ton/days x 330days =69,300ton/year x $450
	Compost Selling	7,920,000	• 60ton/days x 330days =19,800ton/year x $400
	Sub Total	**54,833,445**	
B-Expense	Fixed	1,787,400	• Labor Cost, Management fee
	Variable	16,154,485	• Power ratio, Drug Cost,
	Sub Total	**17,941,885**	
C-Annual Net Profit (C=A-B)		**36,891,560**	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 Global Inc