U.S. Waste Biogas & Organic Fertilizer Production Project

100 tonnes/day – Economic Analysis

DHM Global Inc

Ver2025

1. Construction cost (100 tons/day)

(Unit :US$)

Category		Amount (US$)	Remarks
construction costs	1. Civil engineering	10,800,000	
	2. Architecture and landscaping	8,400,000	
	3. Installation of Recycling Screening Station	6,000,000	
	4. Biogas Plant Installation Work	15,960,000	
	5. Installation of Liquid Fertilizer Production Facility	5,400,000	
	6. Installation of Solid Fertilizer Production Facility	3,600,000	
	7. Power and electrical control installation work	6,600,000	
	Sub Total	**56,760,000**	
incidental expenses	1. Basic and implementation design costs	2,400,000	
	2. Commissioning cost	720,000	
	3. Incidental expenses	120,000	
	Sub Total	**3,240,000**	
Sum		**60,000,000**	KOREA BUSAN FOB

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

2. Annual maintenance fee (100 tons/day)

(Unit :US$)

Category		Amount	Remarks
Fixed Cost	personnel expense	576,000	•Operation Personnel 16 (Collection 1,management 2, Facility Operator 13)
	Administration cost	57,600	• Labor Cost X 10%
	Maintenance/depreciation	226,200	• Construction, Civil & Buildings X0.2%, Machinery X0.5%
	Sub Total	**859,800**	
Variable Cost(Operating Expenses)	Electricity cost	468,720	•Base Rate:400kw x $6.4/Kw x 12months=$30,720 •Fee:8,000kw/days x 0.15$/Kw x 365days= $438,000
	Chemical & Catalyst	14,400	•Odor Treatment, Desulfurization Equipment: $1,200 / Month X 12 Months
	Waterproofing	1,900	• 2,000tons/year x $0.95
	Purchase of Sawdust, etc.	99,000	• 6tons/day X 330days =1,980 tons/year X $50/ton
	Financial Bank Interest	4,800,000	• Project cost $60,000,000 X 8%
	Sub Total	**5,384,020**	
Sum		**6,243,820**	

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3. Economic Analysis (100 tons/day)

(Unit :US$)

Category		Amount	Remarks
Project cost (input)	Design / Supervision	3,240,000	
	construction	56,760,000	
	Sub Total	**60,000,000**	•Total Facility Business Expense
A-Revenue	Electricity Selling	682,550	•11,000KW/days x 365 = 4,015,000 kw /days x $0.17/kw
	food waste disposal costs	3,650,000	•100ton/days x 365days = 36,500ton/year x $100
	waste heat energy	0	•3,311,000kcal/days x 365days = 1,208,515,000kcal/year x $0
	CDM (Carbon Rights)	912,135	•49co^2,ton/days x 365days = 17,885co^2,ton/year x $51
	Liquid Fertilizer Selling	10,395,000	• 70ton/days x 330days =23,100ton/year x $450
	Compost Selling	2,640,000	• 20ton/days x 330days =6,600ton/year x $400
	Sub Total	**18,279,685**	
B-Expense	Fixed	859,800	• Labor Cost, Management fee
	Variable	5,384,020	• Power ratio, Drug Cost,
	Sub Total	**6,243,820**	
C-Annual Net Profit (C=A-B)		**12,035,865**	Recovery period of investment expenses: **about 4,9** 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