



BioEliminator™ Manure Treatment System

Example Installation at a 500-750 Head Vermont Dairy

Facility Description/Assumptions:

- Dairy: 500 – 750 lactating head
- Bedding: Course solids from raw manure separation
- Manure removal: Scrape operation
- Manure generated: ~20,000 to 25,000 GPD

BioEliminator™ System:

- Manure processing container (10' x 20', stacks on top of genset container)
- In-ground, high-rate concrete digester (60' x 40', 100,000 gallons capacity)
- Containerized 150 kW Caterpillar Generator (10' x 20')
- Utility requirements: ~100 amps 3-phase power

Budgetary Estimates:

- Complete BioEliminator™ Treatment System: **\$800,000**
- Price includes all site work, digester construction, concrete pad for containers, and piping connections assuming manure pit, electrical service, and lagoon are within 25' of system.
- Price excludes connection of generator system to local grid and any permitting or regulatory compliance work required

Revenue:

| | |
|---|-------------------|
| Electrical sales (19.9 cents/kWh, 90% uptime) | \$ 235,337 |
| Renewable Energy Credits | \$ 35,478 |
| Carbon Credits | \$ 9,000 |
| Bedding recycling savings | \$ 50,000 |
| Propane use reduction | \$ 5,000 |
| Total Revenues and savings | \$ 334,815 |

Expenses:

| | |
|--|------------------|
| Genset Service Package (4 cents/kWh) | \$ 47,304 |
| Biosupport | \$ 2,500 |
| Electricity (to run pumps and machinery) | \$ 15,000 |
| Replacement parts | \$ 10,000 |
| Total annual expenses | \$ 74,804 |

Net Annual Revenue: \$260,011 Simple Payback: 3 years

Please call us today for a personalized proposal for your farm!
For sales in the North East call Matthew Biette at 802-989-9256.



Benefits of Anaerobic Digestion

- Convert organics to biogas
- Create heat and power
- Reduce odors and pathogens
- 5-day retention time
- Three year simple payback

