

ANAEROBIC DIGESTION

Performance Evaluation of Seven on-farm Digesters in NYS



Ridgeline Dairy
Horizontal complete mix digester
(soft top)



Patterson Farms
Complete mix digester



Noblehurst hard-top plug-flow
digester (located beneath sod layer)

AA Dairy - Candor, NY

- 600-cow dairy
- Horizontal plug-flow, soft top
- Solid-liquid separation post digestion
- Composted separated manure solids for commercial sale
- 130-kW engine-generator set

New Hope View (formerly Dairy Development International) - Homer, NY

- 850-cow dairy
- Horizontal plug-flow, soft top
- 70-kW Microturbine
- Biogas scrubbing prior to use by microturbine

Patterson Farms - Auburn, NY

- 1,000-cow dairy
- Complete mixed digester
- Co-digestion of food waste
- Post digested separated solids used for bedding
- Sale of Carbon credits to Chicago Climate Exchange

Ridgeline Dairy (formerly Matlink Dairy) - Clymer, NY

- 525-cow dairy
- Horizontal complete mixed system - soft top
- High degree of manure stabilization
- 130-kW engine-generator set
- Co-digestion of food waste

Noblehurst Dairy Farm - York, NY

- 1,200+ -cow dairy
- Side-by-side horizontal plug-plow, hard top
- Solid-liquid separation post digestion
- 130-kW engine-generator set

Sunny Knoll Farm - Perry, NY

- 1,400-cow dairy
- Horizontal plug-flow
- No solid-liquid separation
- 230-kW engine-generator set

Emerling Farms - Perry, NY

- 1,100-cow dairy
- Horizontal plug-flow
- Solid-liquid separation post digestion
- 230-kW engine generator set

