
Anaerobic Digest

Skaneateles, New York: Improving Economics Of Farm Digestion

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<http://www.biocycle.net/2013/03/anaerobic-digest-25/>

Twin Birch Farm, a dairy operation with approximately 1,170 cows located in Skaneateles, began operating a hard covered, plug flow, anaerobic digester with mixing in September 2006. The system was designed by AnAerobics and Twin Birch Farm. It now has seven 30kW Capstone microturbines; power generated is used on the farm or exported back to the local utility via a net metering agreement. Digested manure solids are used as freestall bedding. Last August, a demonstration-scale biogas conditioning system was installed at Twin Birch Farm by American Biogas Conditioning to reduce hydrogen sulfide levels in the biogas using a biological desulphurization system. The New York State Energy Research and Development Authority (NYSERDA) has been working with American Biogas for several years, and provided \$470,000 to help the company develop and test this energy-efficient technology at Twin Birch Farm as well as several other digesters in the state. The conditioning system is designed to reduce H₂S levels from 4,000 parts per million (ppm) to 100 ppm, and is expected to reduce processing costs.