

Biogas Plant CUDWORTH PORK



Location	Saskatoon, SK, CANADA
Construction Period:	2003
Input substrat:	Pig Manure
Fermenter:	Steel Tank, 2,000 m ³
Co-Generator	Micro Gas turbines, 4 x 30 kWel
Special Features:	Gasholder above Secondary Digester Tank

The plant was constructed by Clear-Green Environmental Inc. as general contractor. It is located directly next to a pig farm which delivers the manure. The plant was designed for outside temperatures of -40 °C. This necessitated the design with special materials, for example for the gas holder membrane. The digester tank is a glass coated steel tank with a top-mounted mixer. The secondary digester is made from concrete. During the design phase all equipment was controlled regarding either to be delivered by North American or European suppliers. Biogas is delivered to micro turbines and electricity is supplied to the public grid. The turbines were not part of K&F responsibility. Start-up of the facility occurred in 2003.