



Conestoga-Rovers & Associates **Project Summary**

KEY PROJECT ELEMENTS

- Feasibility Study
- Anaerobic Digestion
- Biogas Utilization
- Alternative Farm Waste Management Systems

FEASIBILITY STUDY – ANAEROBIC DIGESTER SYSTEM FOR AGRICULTURAL AND ORGANIC WASTE SARNIA, ONTARIO



CLIENT: SOUTHWESTERN ONTARIO
BIOPRODUCTS INNOVATION NETWORK,
SARNIA-LAMBTON ECONOMIC
PARTNERSHIP, AND BLUEWATER
POWER
DURATION: 2007

CRA was retained by Southwestern Ontario Bioproducts Innovation Network (SOBIN) in conjunction with the Sarnia-Lambton Economic Partnership and Bluewater Power to conduct a preliminary study to investigate the feasibility of the development of one or more anaerobic digestion (AD) facilities in Sarnia-Lambton. CRA identified technical, economic, and community impacts regarding the implementation of such a facility, which would use livestock manure from local farms close to the facility as well as off-farm organics from other sources in the province. CRA prepared an inventory of waste streams by township (manure, household organics, and off-farm processing waste, as well as large individual producers), identified the location of natural gas pipelines and three-phase electrical lines within the county, identified potential heat users within the county, and determined the preliminary location and size of biogas facilities based on transportation and capital costs per unit of gas, with a review of several geographical and operational scenarios.

Photo Courtesy of Genesys Biogas Inc.

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