



AGRICULTURE SUCCESS STORY

Small-Scale Anaerobic Digestion Jan Kempdorp, Northern Cape, South Africa Bio4Gas

OVERVIEW OF AGRICULTURE PROJECT:

An abattoir concentrating on cattle and bovine products in Jan Kempdorp, Northern Cape has a 75% production capacity and average annual energy demand of nearly 1.3 kWh. The company had an audit conducted to determine a green and economically viable proposal to improve the elimination of animal byproducts. A biogas generation system was identified as a method to produce energy from the waste for electricity, heating, and cooling. The potential energy savings equal 760 MWh electricity and 1,250MWh heat per year.

PROJECT START DATE: September 2012

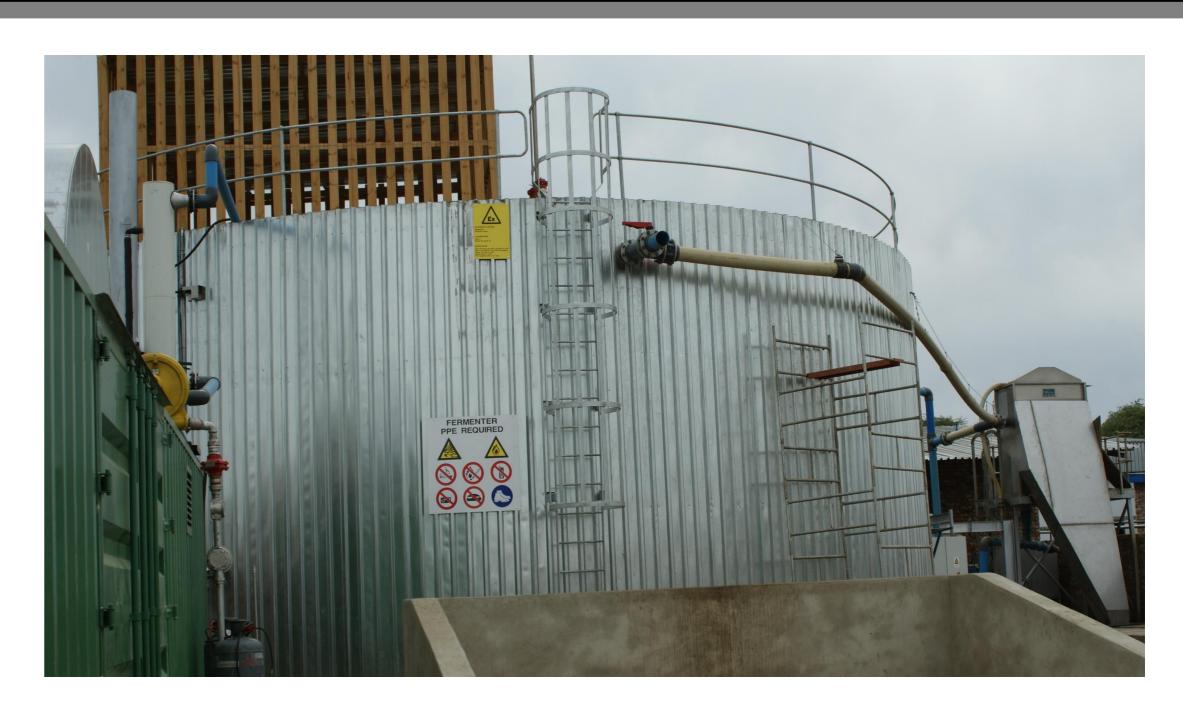
ACTUAL ANNUAL EMISSION REDUCTIONS: 19,899 MTCO₂E

PROJECT DETAILS

- Site Name: Jan Kempdorp Abbatoir
- Geographic Location: Jan Kempdorp, Northern Cape, South Africa
- Type of feed stock(s): Abbatoir wastes
- Installed cost: Approximately \$1 million USD
- Investment/Interest Costs: Fully covered by electricity cost savings
- Payback period: 8 years
- System type and components: Small-scale AD, pre-treatment / digester / gas treatment / CHP engine

PROJECT HIGHLIGHTS

- Improved elimination of animal by-products
- Reduced power grid demand
- Job creation
- Corporate social responsibility
- Greenhouse gas (i.e., methane, carbon dioxide) emission reductions





FOR MORE INFORMATION

Thomas Dory
Bio4Gas
Bio4Gas Express GmbH
Kolping Str. 26 86916 Kaufering
Germany
+49 (0)8191-33 111 240

dory@bio4gas.eu or kevin.monson@wyg.com