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 by-products. 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
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