

BIOGAS PROJECTS AT THE UNIVERSITY OF FORT HARE AND STELLENBOSCH UNIVERSITY

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LIST OF PROJECTS

Project name	Location	Number of systems/capacity
DRDAR renewables	Dangershoek	20x 1.7 cub household digesters (10 fully installed)
DRDAR renewables	Nomlengane	20x 1.7 cub household digesters (10 fully installed)
Sanedi/Unisa digesters	Melani village	13x10 cub digesters, 4x6 cub digesters
Sanedi digesters	Sompondo village	6 cub digester
Sanedi digesters	Francis daycare centre	6 cub digester
Sanedi digesters	Lovedale daycare centre	6 cub digester
DST digester	Inhlangano school	10 cub digester
UFH/DST biodigester	UFH	5400 cub digester (180kW)
DRDAR renewables	Krwakrwa village	8x 6 cub household digesters
ARC/WRC/NRF project	Krwakrwa village	6x 10cub household digesters
UFH research systems	UFH	6 biodigesters (1 lab scale and 5 household, varying capacities)
Stellenbosch research systems	Stellenbosch University	30x laboratory scale digesters

PROJECTS IN PHOTOS



- 6m³ fixed dome digesters installed at Melani, Sompondo, Francis, Krwakrwa, villages

PROJECTS IN PHOTOS



- Completed 10 digesters in Dangershoek, 10 digesters installed in Nomlengane.



PROJECTS IN PHOTOS



- 10m³ balloon type digesters installed at Krwakrwa and Melani villages

PROJECTS IN PHOTOS



- 10m³ digester installed at Inhlangano school in Cofimbvaba

BIOGAS RESEARCH

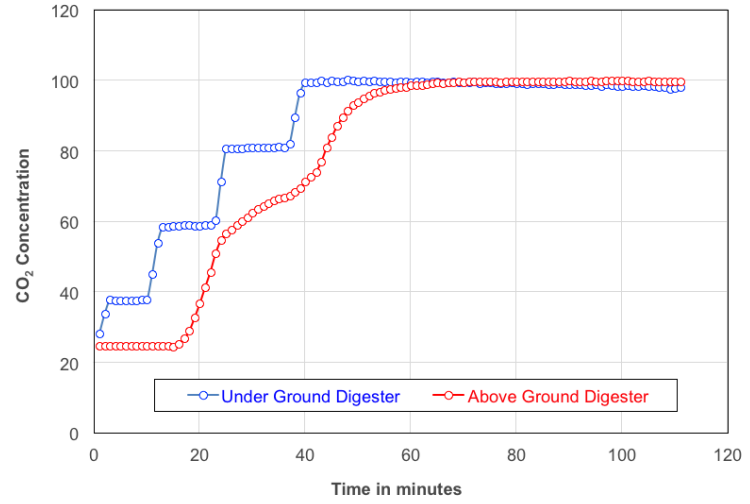
- ASPEN simulations and project viability assessment.
- System sizing and feedstock analysis.



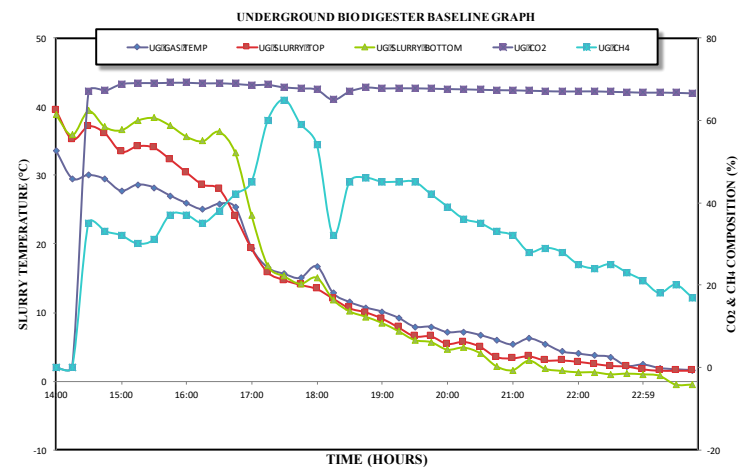
- Laboratory scale testing.
- Mass and energy flows (balance)



BIOGAS RESEARCH



- System design (considering cost, material, performance and lifespan.
- Continuous performance monitoring of gas production in real household digesters.



ACKNOWLEDGEMENTS



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With special thanks to UFH/FHIT, Department of Process Engineering (SU) and and CRSES staff.

THANK YOU