



# BIOGAS BY NUMBERS in South Africa

Industry/sector generation potential	Theoretical	Feasible within 5 years
Biogas potential for power generation [MW]	10 297	1 254
Average project installed size [MW]	0.5	0.5
Agricultural sector	1 179	103
Dairy sector	597	299
Piggery sector	107	53
Chicken sector	4 777	478
WWTW - Wastewater Treatment Works	210	93
MSW - Municipal Solid Waste	2 028	101
Sugarcane	1 024	53
Food processing, abattoir	175	18
Landfill	200	57
Total capacity of plants built to date 30 MW	0.3%	2.4%

Job creation	Theoretical	Feasible within 5 years
Direct permanent job creation	247 122	30 177
Development/Construction jobs in the sector	1 153 234	141 455

Carbon reduction to be separated	Theoretical	Feasible within 5 years
CO <sub>2</sub> e avoided [t/y]	81 189 768	9 889 650
% on total country emission in 2019	15%	2%

Comparison to other renewable technologies	Theoretical	Feasible within 5 years
Energy delivered to or displaced from the national grid [MWh/y]	85 462 913	10 410 158
Equivalent Wind installed capacity [MW]	35 610	4 338
Equivalent PV installed capacity [MW]	58 536	7 130
Installed peaking capacity in SA 2019 [MW]	3 570	

## 52BN ZAR < BIOGAS < 250BN ZAR

### SA Biogas Industry Direct Local & Foreign Investment Value