

# Fuel Cells

## AFRICA

THE PARADIGM SHIFT



### BRIEF SUMMARY OF THE GAS PRODUCER

- The Gas Producer when operated in accordance with the Operation and Maintenance Manual, produces a “Tar Free Gas” suitable as fuel for Internal Combustion Engines.
- Five standard models are available at this time with capacities ranging from 120 – 850Nm<sup>3</sup> which can power up Generators from 50 - 200kVA. Larger units with higher outputs can be designed on request.
- The Gas Producer can operate 24 hours / day continuously without being stopped for refuelling or de-ashing.
- The average production ratio is 1,2kgs wood / biomass – 1kVA, depending on the type of fuel and its moisture content.
- The operating lifespan is estimated to be plus 20 years!
- Operation and maintenance is done by a tractor driver / diesel mechanic.
- Maintenance work and cost is minimal.
- Besides hard and soft wood as fuel, a number of Agricultural wastes can be used once dried and compacted into briquettes.
- For larger plants, semi or fully automated options are available.
- Process effluents, like condensate can be recycled at low cost and the scrubber / cooler water can be used for prolonged period of time, and is non toxic!