



**CAE**

efficiency

through

innovation



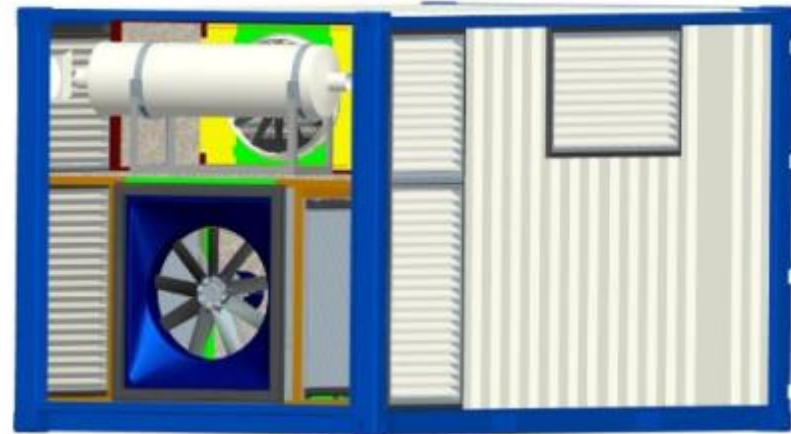
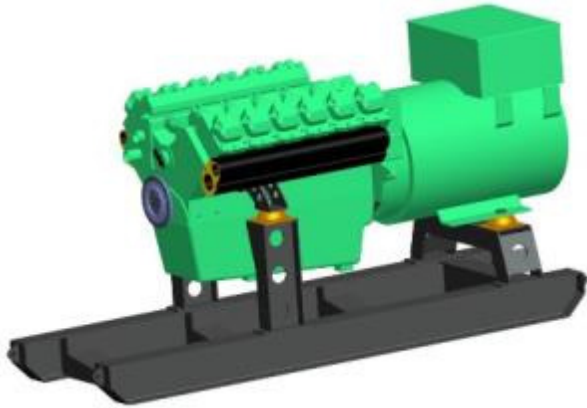
**2007 - 2008**



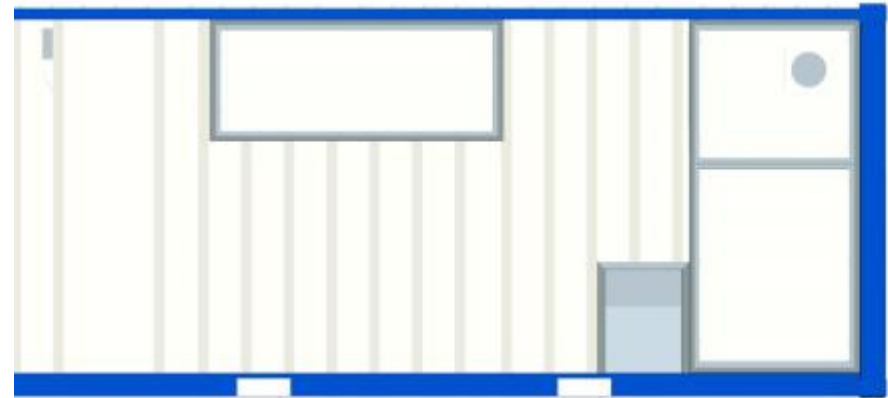
Developed and  
Manufactured in  
South Africa



# Bio-gas power generation plants



Developed and  
Manufactured in  
South Africa



Developed and  
Manufactured in  
South Africa



# Bio-gas power generation plants



Developed and  
Manufactured in  
South Africa



# Peaking power generation plant



Developed and  
Manufactured in  
South Africa

# Peaking power generation



Developed and  
Manufactured in  
South Africa



# Peaking power generation plant



# Waste Water Bio-Digesters and Power Generation Plants

*Cape Advanced Engineering (Pty) Ltd*

## IDC SABIA CONFERENCE

### 2015

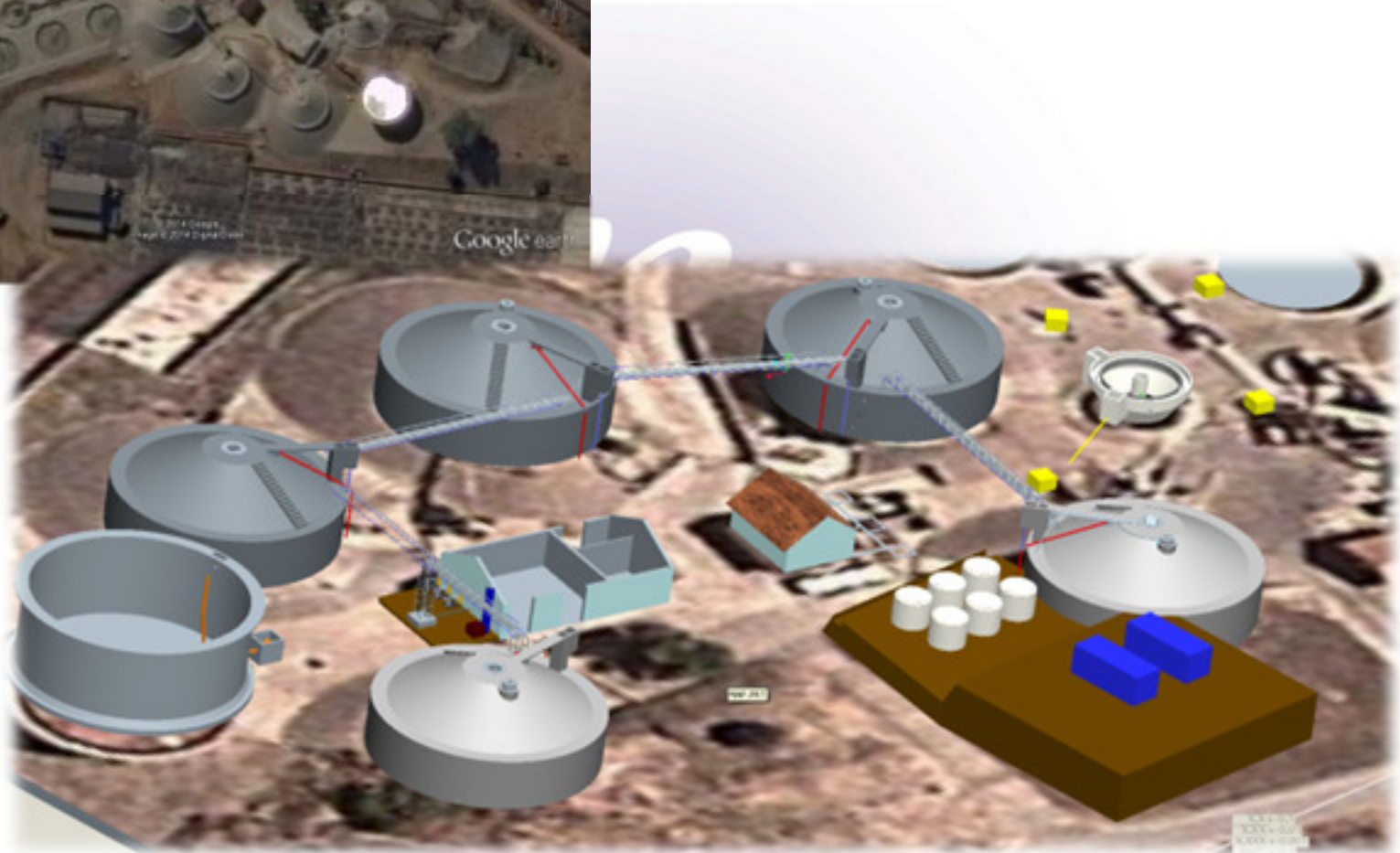
6 March 2015



CAE

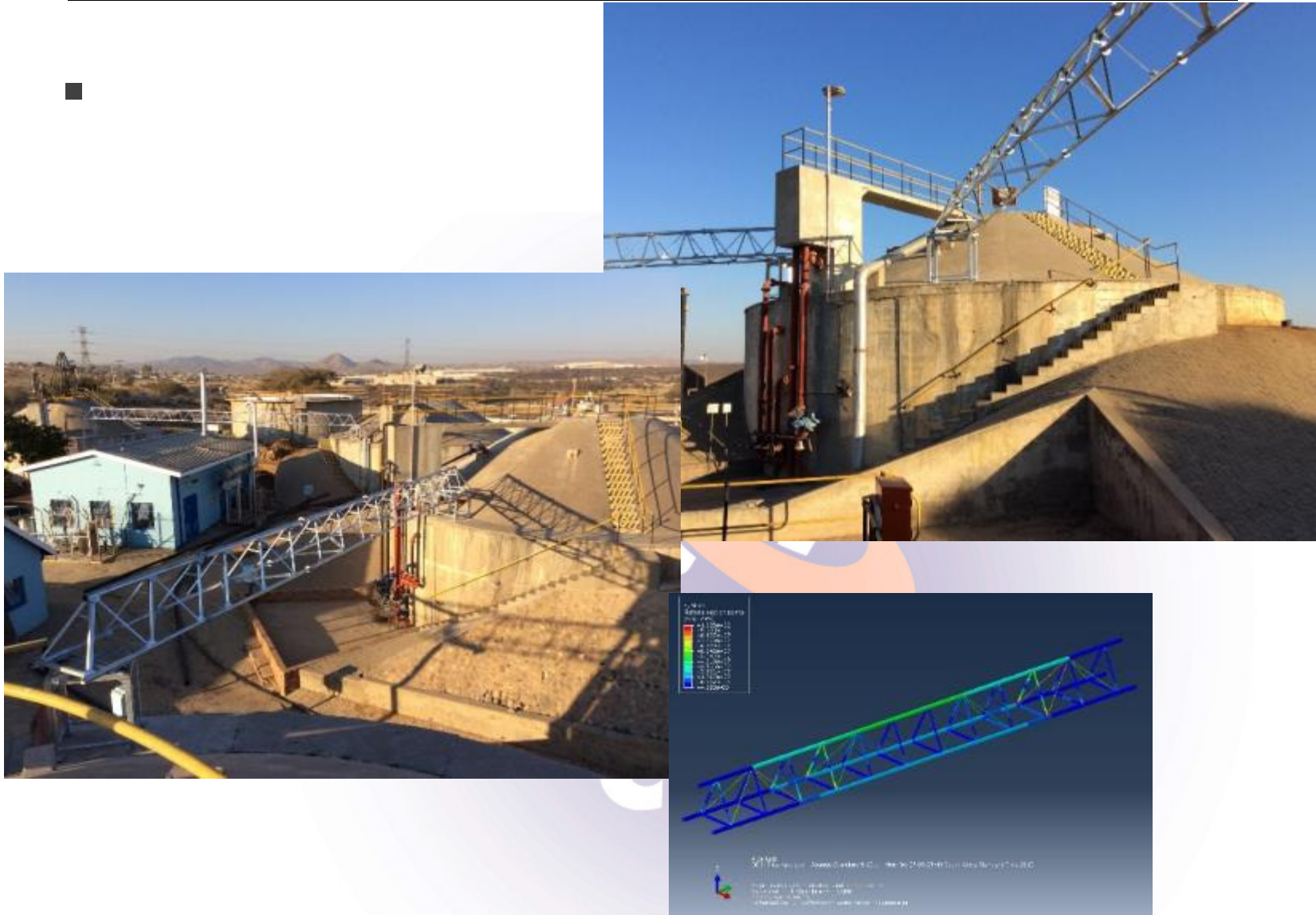
# Waste Water Bio-Digester Plants

---



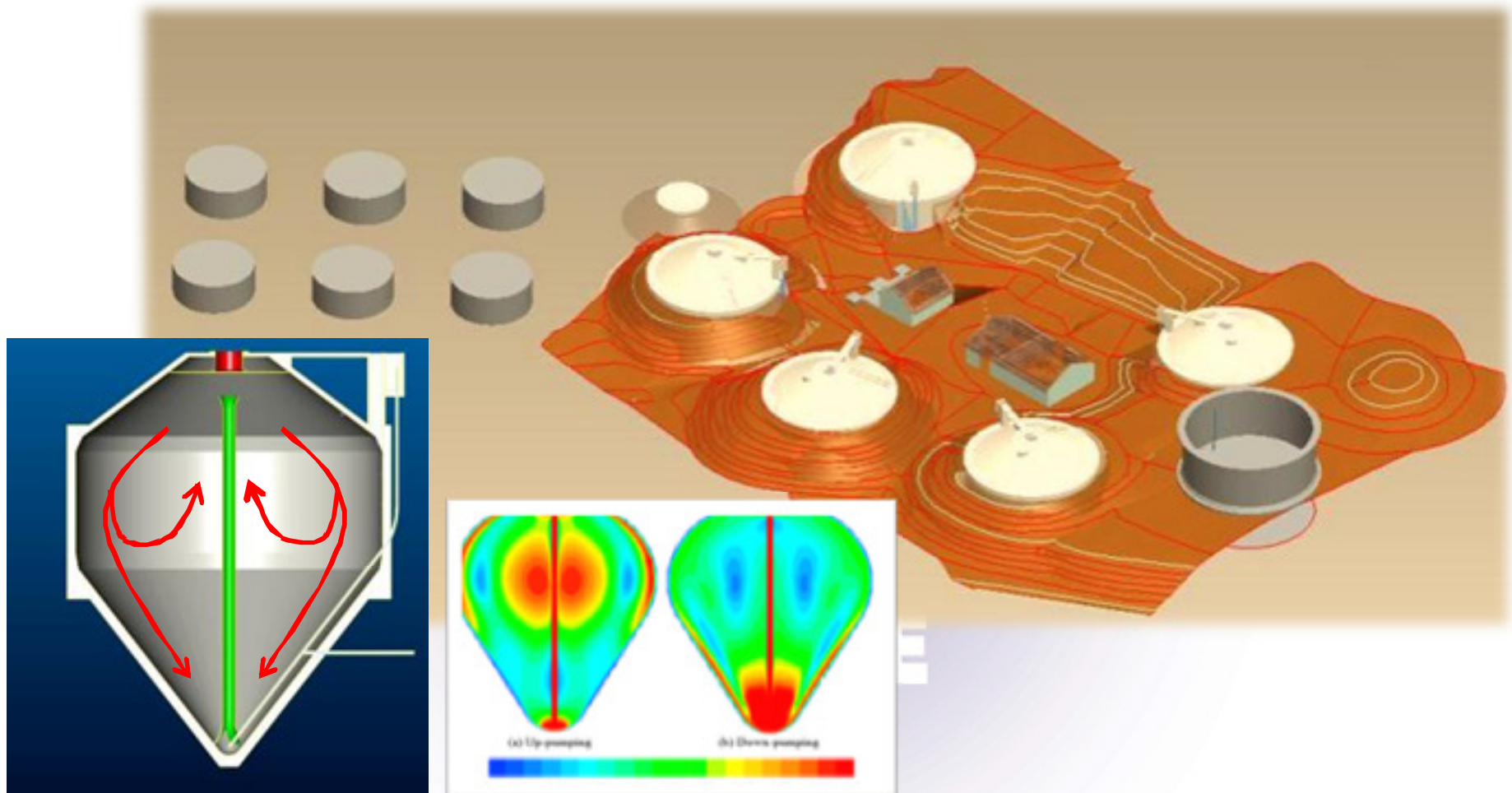
# Waste Water Bio-Digester Plants

- 



# Waste Water Bio-Digester Plants

---



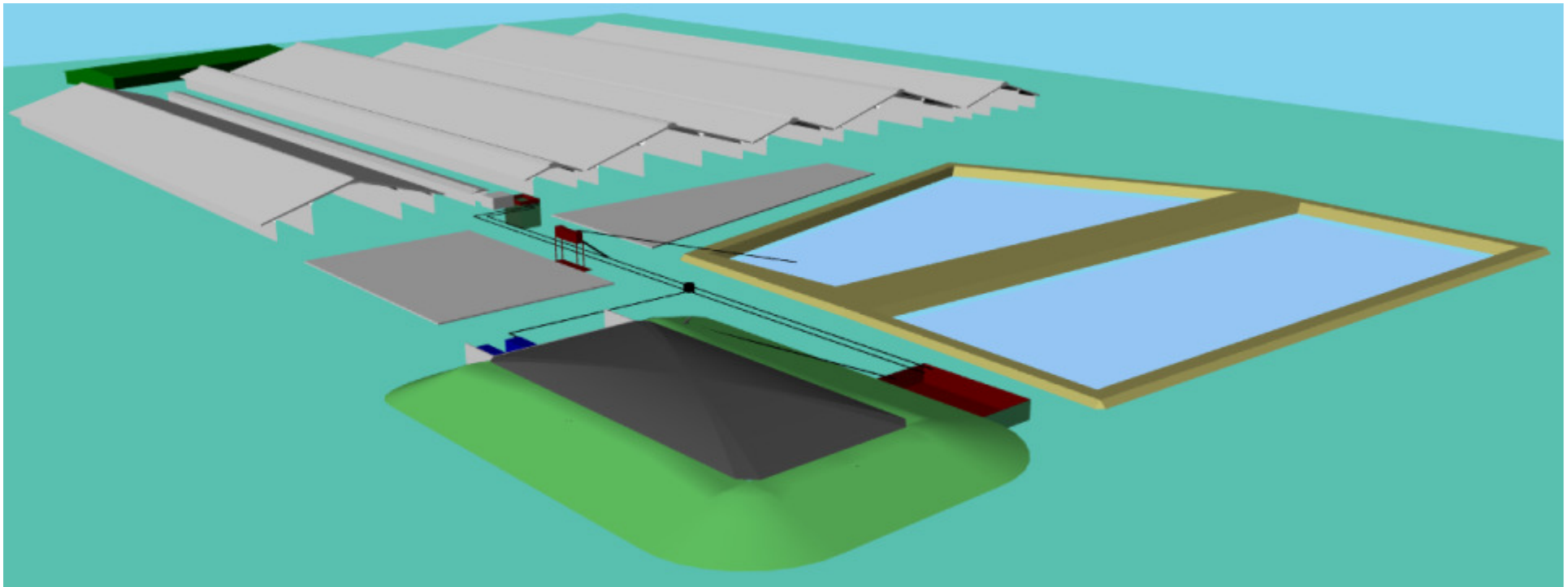
# Dairy Bio-Gas Project

**2013-2014**

## cattle barns with manure scrapers



# Dairy bio-gas plant design



Developed and  
Manufactured in  
South Africa

# South African hybrid plug-flow



# The bio-gas & fertiliser plant

- Effluent treatment – environmental compliance
- Reduced Green House Gas Emissions
- Power generation – self-sufficient
- Bio-fertiliser

Developed and  
Manufactured in  
South Africa



# The bio-gas & fertiliser plant



# The bio-gas plant heating

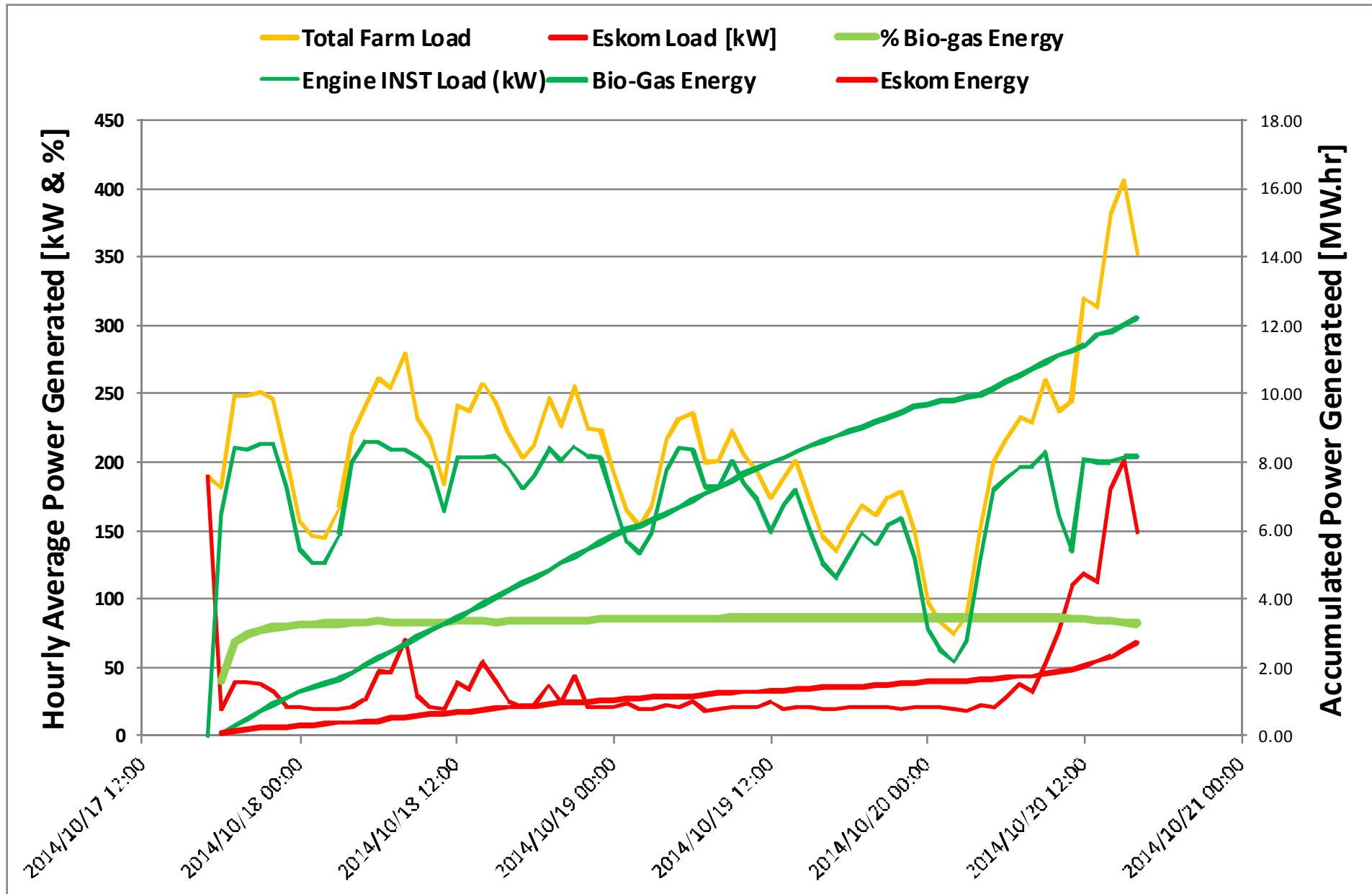


# The bio-gas plant gas systems



Developed and  
Manufactured in  
South Africa

Fri 17 Oct 6 pm to Mon 20 Oct 4 pm – 1 generator running  
NB: min. set to 20 kW, peak hourly demand = 406 kW (briefly 455 kW)



# bio-gas plant electrical systems



Developed and  
Manufactured in  
South Africa



# bio-fertiliser – solid & liquid

