

# Innovation In the green Economy

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WASTE WATER



ORGANIC WASTE



MIXER



DIGESTOR



METHANE



GAS ENGINE



FERTILIZER



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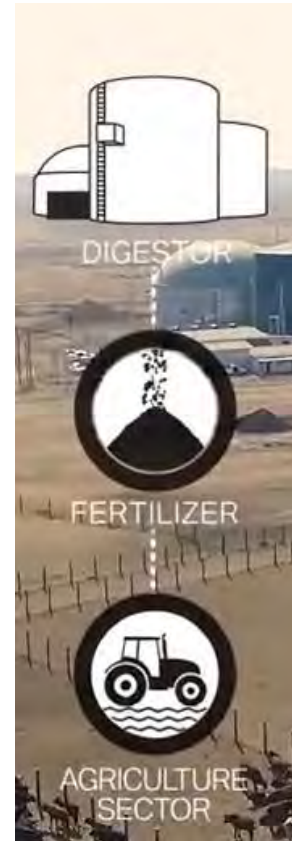


# Company Profile (Bronkhorstspuit Biogas Plant (BBP))

- 4.6 MW installed electrical capacity + 3MW of heat available for beneficiation.
- 375 tons of substrate deliveries mean per day (solids and pumpable liquids).
- Electricity sold to BMW in Pretoria (roughly 60km from the BBP).
- Total approximation of about 18500 m<sup>3</sup> of daily biogas production (With all 4 engines in operation) with average of 63% of CH<sub>4</sub> produced.

# Why Biogas ?

- 🌱 Tried and tested
- 🌱 Flexible energy
- 🌱 Multifaceted solution
- 🌱 Industry growth potential





# SA Opportunities Regarding Green Technology

- SA has less than 10 vs 7000 Germany.
- Flexibility of biogas delivery and multi-stream benefits holds critical opportunities for SA.
- Bio2Watt aims at expanding Biogas Plants (Cape Dairy, Ivory Coast etc) in the next coming 2 years

# Significance of Daily Sample Analysis

- The following analysis are conducted on daily basis (on-site);
  - FOSTAC, pH, Chemical Oxygen Demand (COD) and metal ions (weekly)
  - Microbial Analysis (every 2 weeks for ensuring the good health of the digesters)

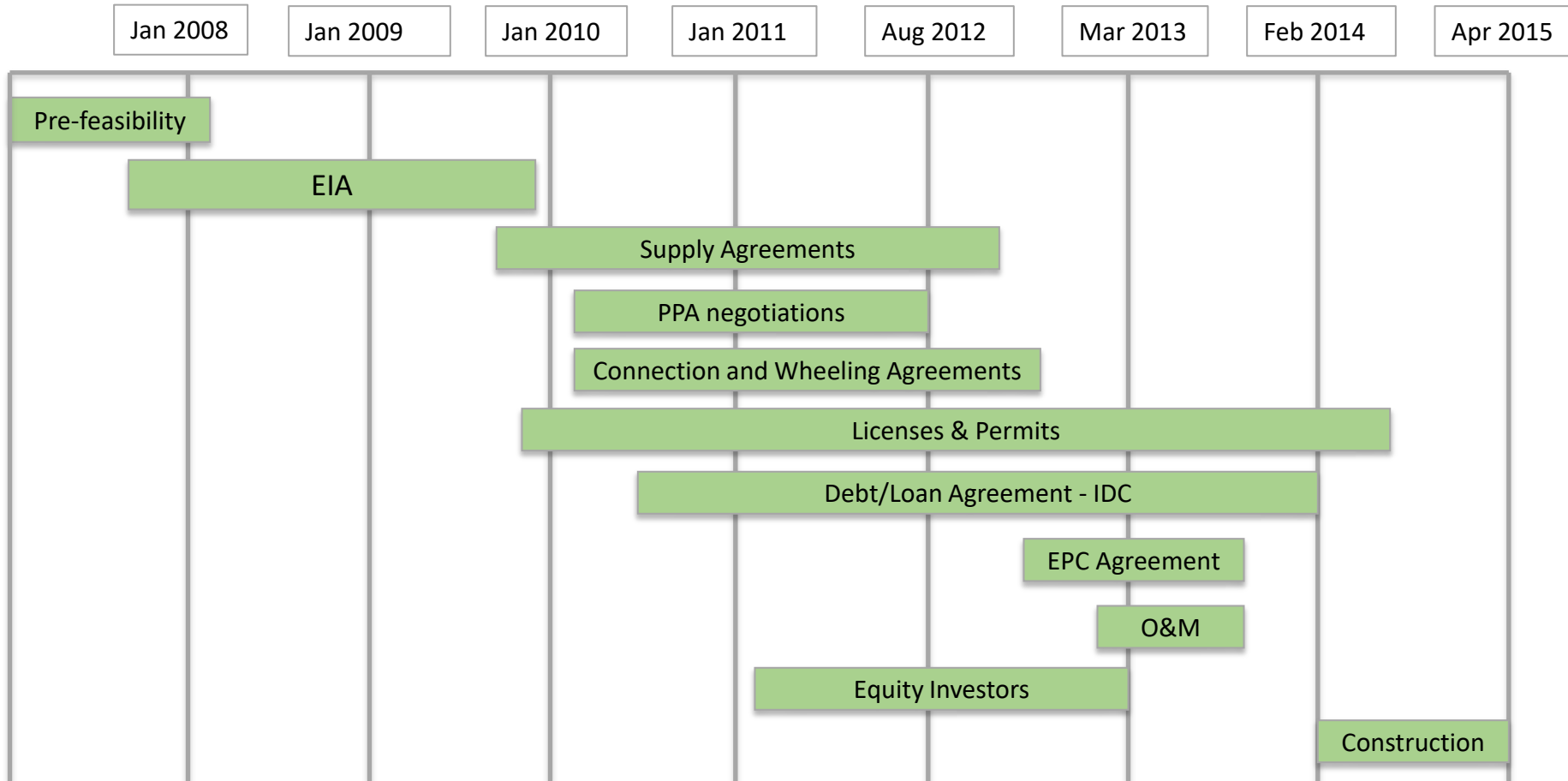
# BBP Implementation Limitation(s)

- Barrier Implementation (Specific Hurdles);
  - High Project Development costs
  - License Approval Process
  - Feedstock Availability
  - Project Finance Requirement



# Bronkhorstspruit Biogas Project

a bio2watt project



# Thank you

