

DiBiCoo Biogas Webinar



Eddie Cooke



MISSION



"Creating a single voice to promote the multiple benefits of biogas in Southern Africa"

SABIA was established in 2013 to represent all stakeholders in the biogas industry in Southern Africa. The focus of the association is to identify and address the barriers and challenges faced by the Biogas industry, in order for it to develop to its full potential.

STEERING COMMITTEE

The association is run by 6 directors. All the directors are serving the association on a voluntary basis.



Chairman

Secretary

Environmental

Treasurer

Marketing and communication

Technical expert

RESPONSABILITIES

The Directors meets the first week of every month to plan and report back about the activities

- Creation of the market for biogas
- Promotion of an incentive scheme for the development of the market for biogas
- Support for development of Biogas Standards and Biogas Guidelines work, done by consultants
- Organize the National Biogas Conference
- Organize training courses, Webinars, Workshops and other events

SABIA 's #1 OBJECTIVE



No Market = No Industry

SECTOR CHALLENGES

- No incentive scheme based on the real benefits of biogas industry (not only electricity production)
- General lack of awareness (Government & Industry)
- Challenges around financial viability, specifically on the small scale (< 1 MW)
- Long approval processes (license, EIA, PPA, wheeling agreements, MFMA, etc.)
- Funding reluctance from banks (plants < 3 to 5 MW)
- IPP process – complicated, costly, only above 1 MW (most projects below 1 MW)

Biogas market

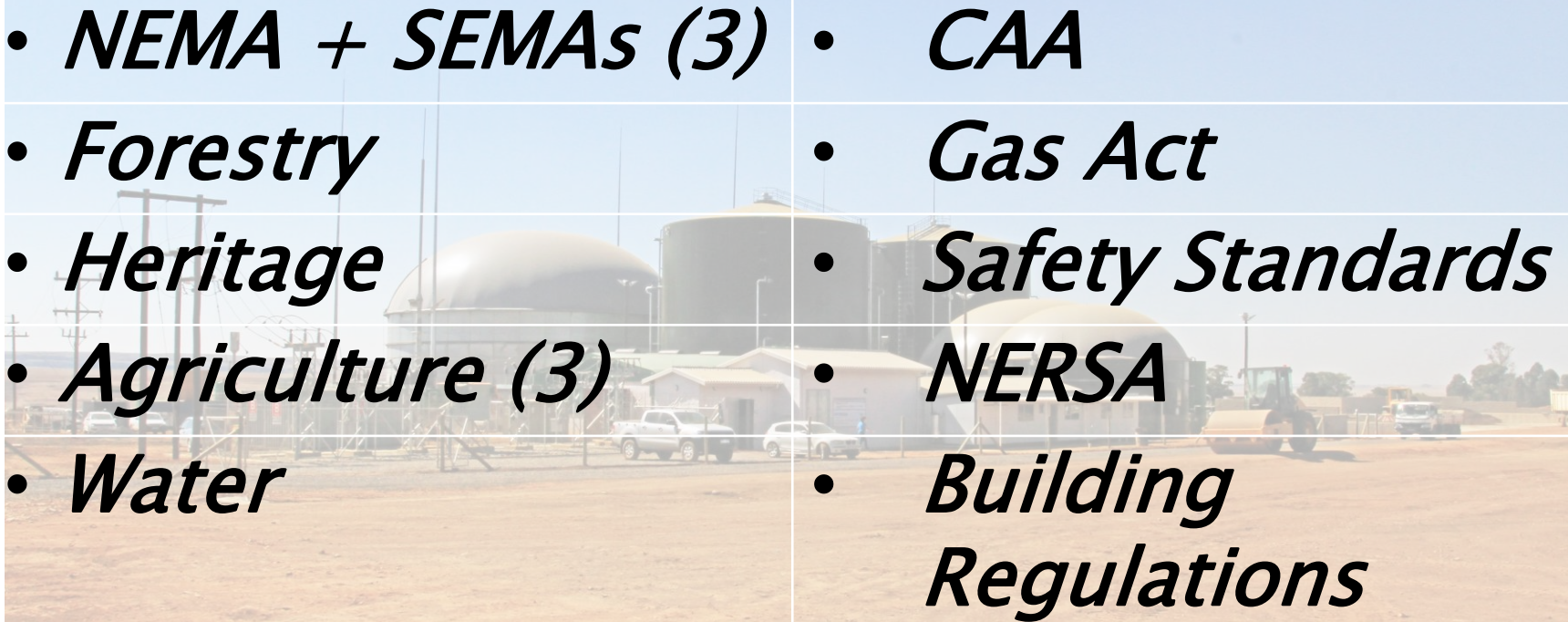
Current status

- Plant sizes range from 12,5 kW to 5,5 MW equivalent
- Majority use biogas within a CHP
- Very few projects currently upgrading biogas
- Replacement of fossil fuels used for heating (e.g. HFO, diesel, coal)
- Limited understanding of best practices

Local Approvals and Requirements

- ▶ Building regulations
- ▶ Engineering and design
- ▶ Site and zoning approvals
- ▶ Fire and safety approvals
- ▶ Electrical and ATEX approvals
- ▶ Environmental and waste approvals
- ▶ Installation and commissioning approvals
- ▶ Operational and trading approvals
- ▶ Recertification and periodic inspections

Environmental Requirements

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- *NEMA + SEMAs (3)*
 - *Forestry*
 - *Heritage*
 - *Agriculture (3)*
 - *Water*
 - *CAA*
 - *Gas Act*
 - *Safety Standards*
 - *NERSA*
 - *Building Regulations*

ACHIEVEMENTS

- Establishment of the National Biogas Platform and various working groups
 - Creation of the Biogas Info Hub funded by GIZ
 - Regular National biogas conference
 - Pro-active support from UNIDO
 - Growing awareness on all levels of government
 - Significantly better tariff for biogas in last REIPPP round (R1.47/kWh from R0.96/kWh)
 - International associations interest and partnerships
 - Positive entrepreneurial spirit in SA – biogas projects being built despite the challenges faced by the industry!
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Biogas by the Numbers

Biogas potential for power generation in South Africa	3 500	MWe
Average project installed size	500	kWe
Total number of projects	7 000	
Average number of permanent jobs per project	5	
Total number of direct, permanent jobs in the sector	35 000	
Total number of construction jobs in the sector	280 000	

Biogas by the Numbers

Energy delivered to or displaced from the national grid	29 225	MWh/y
Peaking plant equivalent capacity	16 800	MWe
Equivalent PV installed capacity	16 680	MWe
Equivalent Wind installed capacity	13 344	MWe
Total installed peaking capacity in SA	3 449	MWe
Total CO ₂ e avoided through AD	135 173	t/y

Biogas by the Numbers



US\$ 9 000 000 000.00

SA Biogas Industry Direct Local & Foreign
Investment Value

WHY JOIN SABIA?



The greater the number of members the stronger the SABIA voice.

Great ability to lobby government to aid the firm establishment of the biogas industry in South Africa.

SABIA is working hard to create sustained value for all SABIA members.

MEMBERSHIP

SABIA has different kind of members made up of project developers, consultants, professionals, academics, students and other interested parties.



Corporate member



Individual



Student

THANK YOU

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