



Viability of a national platform for the promotion of biogas projects in SA

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Background information on GIZ

- As a government-owned corporation, GIZ carries out **sustainable development projects** worldwide for the German Federal Government and other public and private-sector clients
- GIZ operates in more than **130 countries** and employs more than 17,000 staff members
- GIZ commenced activities in South Africa in 1994 and since then, allocated **550 million euro** to the bilateral cooperation with South Africa
- GIZ South Africa employs around **250 staff members** of which 60% is South African
- The main focus of our work in South Africa is on Governance and Administration, HIV/AIDS, **Energy and Climate**





South African – German Energy Programme (SAGEN)

Component 1: Renewable Energy

Objective: The conditions for investments in RE have improved

Sub-Component 1.1: Institutional and regulatory capacities for promotion of RE

Sub-Component 1.2: Support to grid and system integration of RE

Sub-Component 1.3: Technical expertise for wind and solar

Component 2: Energy Efficiency

Objective: The conditions for investments in EE have improved

Sub-Component 2.1: Institutional capacity development for EE promotion

Sub-Component 2.2: Implementation of innovative EE programmes

Sub-Component 2.3: Development of a market for energy service providers

Sub-Component 2.4: Technology dissemination and private sector cooperation



GIZ/SALGA - RE activities

RE technology support

Waste to energy

Solar PV

All RE technologies

RE financial aspects

- Conduction of the **feasibility studies for W2E** in Pilot Municipalities

- Analysis of the business models for **rooftop –PV** dissemination

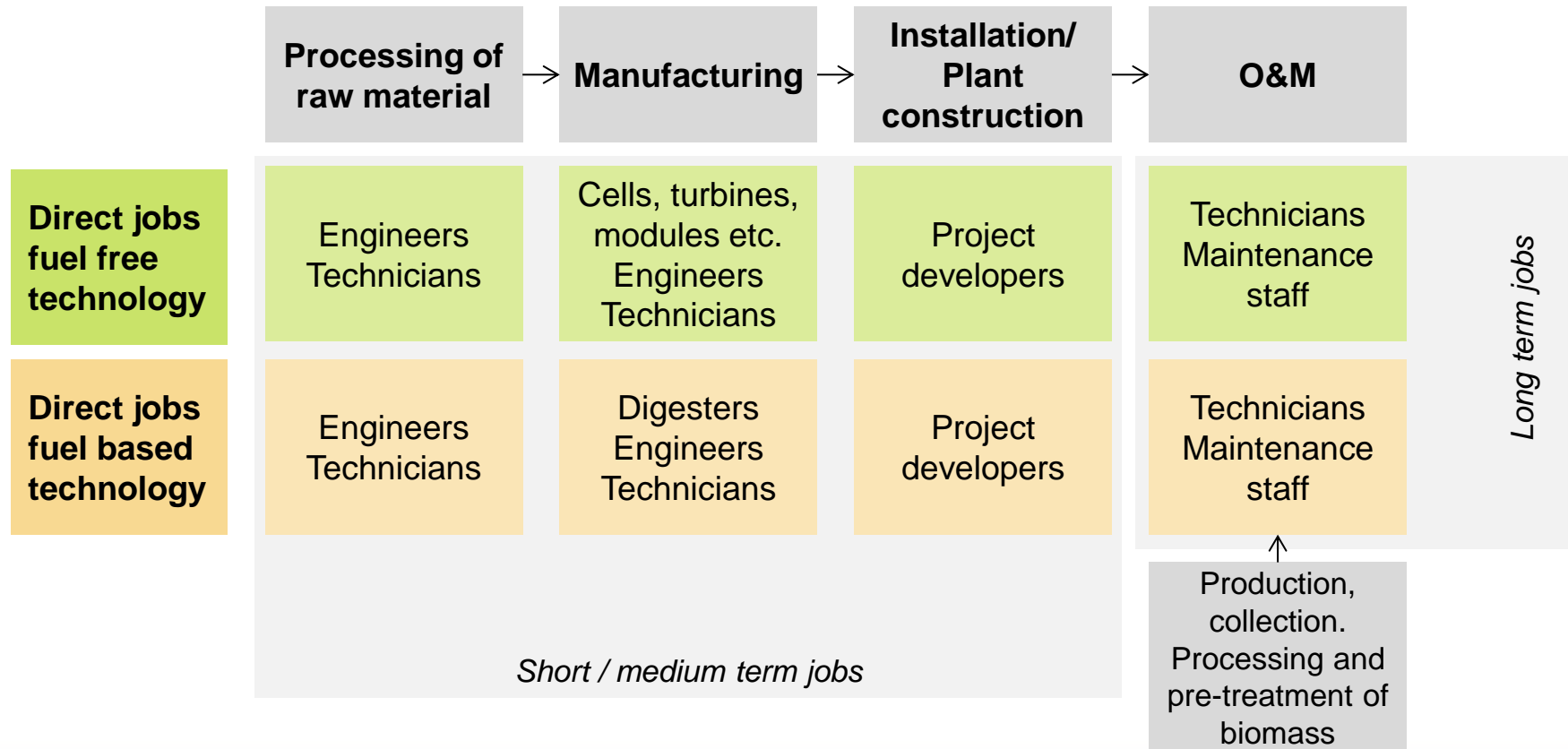
- Cost of Electricity Supply Study with a possible development of the **Green Tariff** for the NMBMM

Technical aspects of grid integration

- Baseline on the **existing grid integration requirements** for the municipalities
- Tariff Study on possible **net-metering options**
- RE integration and impacts on the municipal grid

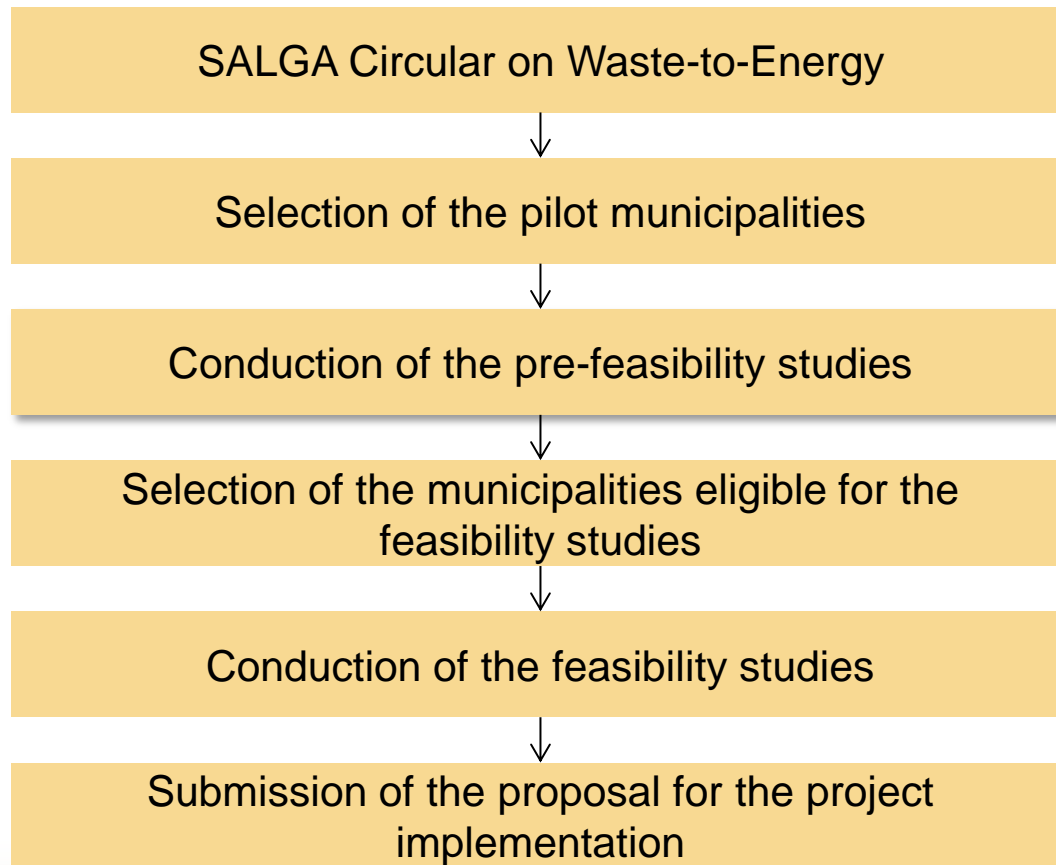


Job creation + rural employment





W2E pilot municipalities selection





Focus of the pre-feasibility study

- kind and volume of possible waste streams available for generating at least 1 MW of electric power
- existing and required infrastructure for biogas to electricity generation (e.g. sewage plants, anaerobic digester and distance to additional waste streams).

Scenario 1

- Mixture between **sewage and other external organic waste streams** (municipality as embedded generator)

Scenario 2

- Pure use of **agricultural waste** (farmer as embedded generator)

Scenario 3

- Other **sources of organic waste** (municipality and/or private sector as embedded generator)



Addressing the barriers of project implementation

- **Legal**
 - MFMA
 - NERSA e.g. obtaining of the generation license
- **Financial**
 - Applying for loan/grant funding
- **Procedural**
 - Permitting
- **Cultural**
 - Lack of awareness and acceptance
- ...

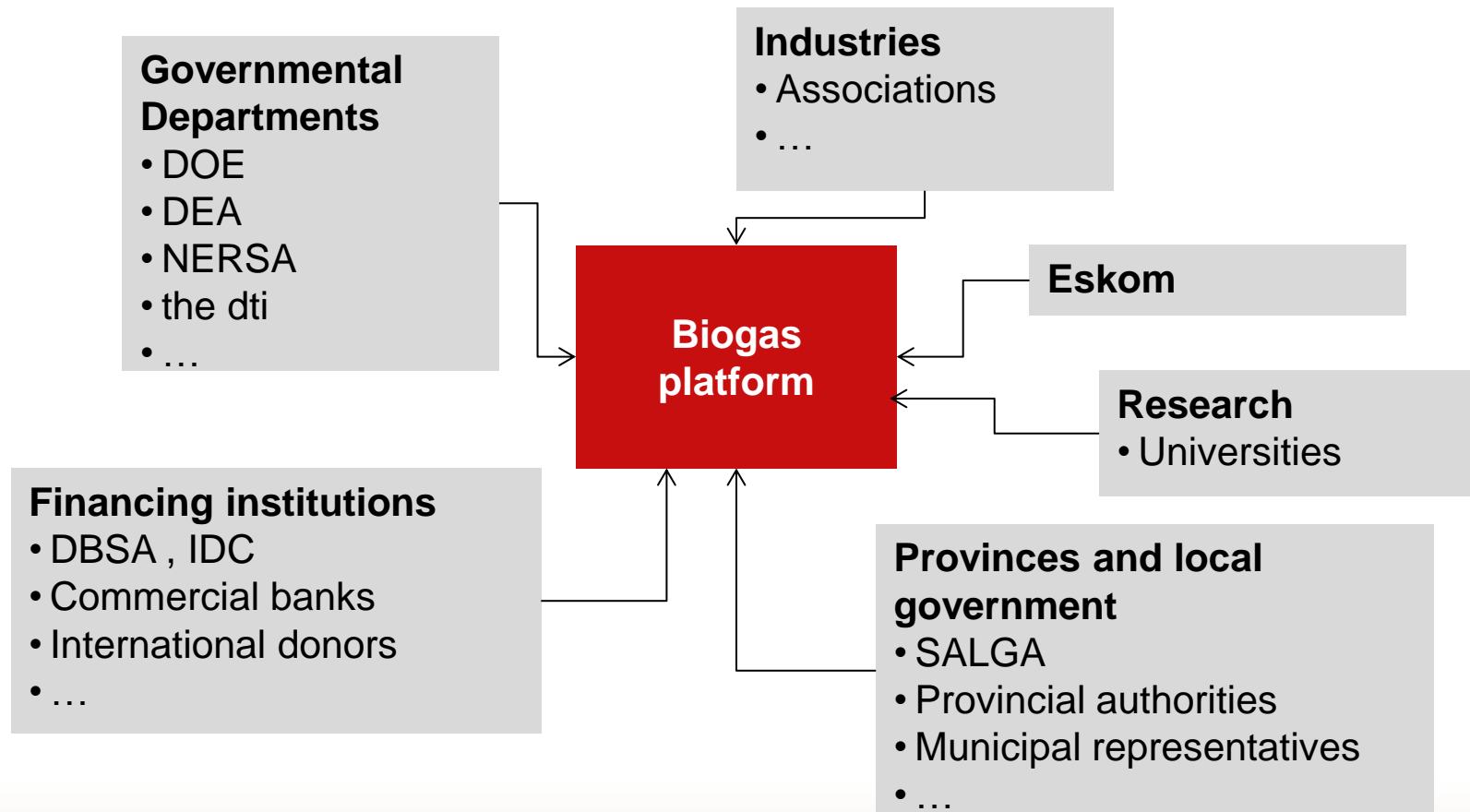


The goals of the Biogas platform

- To create a national platform both from the public and private sector on the overcoming of the barriers of biogas project implementation
- To address the lessons learned from the existing projects
- To assess current and future regulatory requirements in order to make the regulations proactive and conducive for the development of the industry
- **No intention to create a separate institution**
- Temporary platform



The constellation of the Biogas platform





The role of GIZ in the Biogas platform

- **Facilitator, not a driver**
- Assistance provided in:
 - Coordination, facilitation and documentation of the platform
- **Next meeting proposal:**
 - Proposed topics
 - follow up on the Biogas conference
 - drafting of the scope of work
 - definition of roles and responsibilities
 - way forward
 - **Date: 26.11.2013 10h00-12h00**
 - Location: GIZ offices, Hatfield, Pretoria
 - Contact: sofja.giljova@giz.de



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