Webinar on Green jobs in Biogas
African Biodigester Component in Kenya
The African Biodigester Component in Kenya

Period: 2022 to 2025

Co-financed by DGIS and DANIDA in Burkina Faso, Kenya, Uganda, Mali, Niger

Implemented by a consortium composed of GIZ and SNV in close partnership with the African Bioenergy Partnership Limited ABPL - (ex-Kenya Biogas Programme - KBP)

Objective of the Project is “to achieve a sustainable, stable and growing market for biodigesters that significantly contributes to achieving national energy access and climate targets, by following a market-based approach to triggering demand, promoting the supply of high-quality technology and services and improving the enabling environment.”
ABC Kenya – Ecosystem

Lead Implementer
Kenya
GIZ/SNV/ABPL

Thematic support implementers

Energy Enterprise coach - Niras/Intellecap
Organic Fertilizer Valorisation - BRC/DIBCoop/SNV
Access to Finance – Charm Impact
Gender Mainstreaming - Energia

Independent Verification Agent
KPMG

Financed by
Ministry of Foreign Affairs
Implemented by
Netherlands Enterprise Agency
In partnership with
endev
Ambitious Biogas objectives

17 indicators, among others:
• The biodigester market in Kenya has moved from pioneering to expansion
• 20,017 small-sized and 250 medium-sized biodigesters have been installed
• 90% of biodigesters are technically functional one year after installation
• 3 new biogas valorisation options are developed and/or utilised in Kenya
• X jobs have been created in the biodigester and bio-fertiliser value chains, 30% of which are filled by women (to be quantified at inception).
• Quality standards for biodigesters have been adopted and are being enforced
Result Based Finance Facility

RBF Facility for small-scale biodigester companies
- RBF aims to mitigate temporary market barriers for suppliers
- Indicative incentive level and installation objectives:
- RBF readiness support

Medium-scale segment
- RBF, reverse auction, revolving fund, first loss guarantee/partial risk cover or any other financing mechanism.
- Study including stakeholder consultation to determine the most appropriate.

<table>
<thead>
<tr>
<th>Incentive type per plant in EUR</th>
<th>Quota 1</th>
<th>Quota 2</th>
<th>Quota 3</th>
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<tbody>
<tr>
<td>Basic sale incentive</td>
<td>60</td>
<td>45</td>
<td>30</td>
</tr>
<tr>
<td>Sales targets bonus</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>After sales rating bonus</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Double compost pit bonus</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Total incentive per plant</td>
<td>100</td>
<td>85</td>
<td>70</td>
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</tbody>
</table>
Supply side interventions

**Support to the Business Development Support implementer (BDS):**

- BDS Strategy implementation
  - Professionalize the small-scale segment
  - Training companies on medium-scale biodigesters + specific business models
- Liaison with biodigester enterprises + tracking progress (Enterprise Grading System)
- Training of (Micro)Finance Institutions
- Supporting local prefabricated production
Supply side interventions

**Awareness raising strategy (ABPL – SNV)**
- Valorisation Strategy (OFVI)
- Increase biodigester utilisation (small)
- Boost biogas valorisation (medium)
- Biogas Valorisation Challenge
Enabling environment

Enabling environment study (SNV)
  • Support to national associations (SNV)
  • Technical Assistance pool (SNV)
  • Carbon credits study (SNV)
  • Gender Strategy (SNV + Energia)
  • CSR Strategy inc. CSR virtuous circle with food companies
  • Support to Valorisation Activities – standards (OFVI)
  • Learning agenda (EARL) with Uganda (Somalia and South Sudan)
What is a green job?

Environmental
• reducing the consumption of energy and raw materials
• limiting greenhouse gas emissions
• minimizing waste and pollution
• protecting and restoring ecosystems
• promoting adaptation to climate change

Decent
• employment opportunities (access to work)
• respect for basic employment rights
• extension of social protection and job security
• representation and social dialogue

ILO, FAO. 2020. A handbook on a methodology for estimating green jobs in bioenergy
Inventory of biodigester companies in Kenya

- Annual inventory
- Baseline inventory has been conducted from March to May 2022
- 70 companies contacted, 39 answers
- An estimated 140 persons / companies to have some experience with biodigester in Kenya (mostly informal)
Inventory of biodigester companies in Kenya

- Average firm age: 10.32 years
- Female/Male owned: 11%
- Informal/ Formal in sample: 10%
- Total staff: 524
- 33% staff without contract
- 767 temporary staff days / year
- 70% of male staff with highest female ratio in Admin/finance and support staff (50% female) and lowest in skilled technical female staff without contract (12%)
Inventory of biodigester companies in Kenya

- 82% of companies reduced the workforce due to the Covid19 pandemic
- 3,578 plants per year and in average 1 permanent staff for 8 plants

<table>
<thead>
<tr>
<th>Where do you see the biggest gap or obstacle for expansion with regard to your workforce?</th>
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</thead>
<tbody>
<tr>
<td>Lack of working capital</td>
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<td>Lack of technical skills</td>
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<tr>
<td>Marketing</td>
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<tr>
<td>Awareness creation</td>
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<tr>
<td>Low sales</td>
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<td>Logistics</td>
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<td>Staff turnover</td>
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<td>Business environment</td>
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<tr>
<td>Salary / wages</td>
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<tr>
<td>Water scarcity</td>
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</table>
Inventory of biodigester companies in Kenya

- 70% of the companies use social media for marketing
- Facebook is the favorite social media for marketing (96%)
- Annual turnover of €23M/year for 21 companies
- Payment per instalments for 60%
- Portfolio at risk of default ≈ 10%
Best performing and Worst performing counties

Dairy cow density in Kenya
Thank you for your attention!

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