

Manure is more than just an energy source

Implementation Details

Area: Ethiopia
Period: April 2015 to December 2015
Goal: Policy development & Capacity building



Building a compost pit to improve the handling of bio-slurry.

Situation Analysis

The Ethiopian National Biogas Program (NBP) is run by the Ministry of Water, Irrigation and Energy (MoWIE) with focus on energy production. Bio-slurry was not considered as a fertiliser until recent years because fertilisation is more related to the Ministry of Agriculture (MoA). However, the MoA strongly promotes the use of synthetic fertilisers.

Ethiopian farmers are very reliant on the state for support and extension services. As such, there is less focus on digester maintenance and slurry management; both of which pose large risks in terms of potential SLCP and other GHG production.

Opportunity

Support of the LMMC would leverage current programs of the Ethiopian government and assist the Ministry of Water, Irrigation and Energy, and of Agriculture in developing a coherent manure policy including training elements of bio-digester maintenance and integrated manure management leading to proper manure application.

Objectives: The OPC is additional to the National Biogas Program of Ethiopia. The OPC aims at improving cooperation and alignment between ministries. It will also improve knowledge on integrated manure management (IMM) and increase availability of trained technicians for management/maintenance of biogas digesters.

Implemented Activities

1. Round of sensitizing visits to different ministries and directorates to lay the foundation for future activities.
2. Stakeholder workshop with 10 policy makers. The meeting was very successful in improving the awareness of government officials on IMM.
3. At two locations, a two-day training of government extension workers on integrated manure management with focus on composting of manure and bio-slurry. The trainings used posters and a manure management manual that had been translated into Amharic (the local language) to facilitate understanding.

Upcoming Activities

1. Workshop with policy-makers of several ministries to discuss further on aligning the policies for manure management between various ministries.
2. Training of technicians on the construction and maintenance of small scale biogas plants.

| Impact assessment | Indicator | Value |
|--|---|----------------|
| Geographical Impact (effect of scale) | Affected farm enterprises | Regional |
| | | ▶ National |
| | | ▶ Sub-national |
| Socioeconomic Impact (effectiveness of activities) | Improved food security (by more income or production) | High |
| | | ▶ Medium |
| | | Small |
| Impact on Climate Change (effectiveness of activities) | Reduced SLCP (methane) emission | ▶ High |
| | | Medium |
| | | Small |
| Environmental Impact (effectiveness of activities) | Reduced environmental pollution | ▶ High |
| | | Medium |
| | | Small |
| Stakeholder awareness (effect of activities) | No. of addressed stakeholder entities | ▶ > 5 |
| | | 3-4 |
| | | 1-2 |
| Capacity building (effect of activities) | No. of people addressed in the enabling environment | > 150 |
| | | ▶ 50-150 |
| | | < 50 |
| Policy development (effect of activities) | No. of new or changed laws, rules etc. | > 2 |
| | | ▶ 1-2 |
| | | 0 |
| Levering Finance (effect of activities) | Size of leveraged external investments | ▶ Large |
| | | Medium |
| | | Not applicable |